

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 45.0	Road Condition Poor	Hole Condition Good
Operations at Report Time SDFN		Planned Operations Move Rig to War Wink Pad	
Operations Summary Prepate War Wink Location. Move Drill Pipe and Misc. Equipment			
Remarks			

Mud Volumes						
Active Volume (bbl) 0.0	Var Active Vol (bbl) 0.0	Balance (bbl) 0.0	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 0.0

Daily Time Log										
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com	
06:00	12.00	12.00	18:00	Drilling	Rig Move	No			Run 4" Poly Line From Pilot Water Frac Pond to Location. Cut Conductors and Install Wellhead Landing Rings. Continue Building Reserve Pit. Move In Drill Pipe and Misc. Equipment.	
18:00	12.00	24.00	06:00	Drilling	Rig Move	No			SDFN	

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #<stringno>, <des>			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
Nozzles (1/32")		String Length (ft)	String Wt (1000lbf)
		BHA ROP (ft/hr)	

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
Kill Notes				

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
Comment						

AFE Number T22DC006	
Start Depth (ftKB) 0.0	End Depth (ftKB) 0.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String Conductor, 146.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600			
Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

2, Continental-Emsco, F-1600			
Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

3, Rostel, F-1600			
Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed

Safety Checks		
Time	Type	Des
06:30	Pre Tour	Pre Tour Safety Meeting

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity

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Well Name: UL 21 WAR-WINK 38-47 C 3H

Table with 4 columns: API/UWI, Surface Legal Location, License #, State/Province. Includes Spud Date, Rig Release Date, KB-Ground Distance, KB-Casing Flange Distance, Weather, Temperature, Road Condition, Hole Condition, Operations at Report Time, and Operations Summary.

Mud Volumes table with 7 columns: Active Volume (bbl), Var Active Vol (bbl), Balance (bbl), Tank Volume (bbl), Additions (bbl), Losses (bbl), Hole Volume (bbl).

Daily Time Log table with 10 columns: Start Time, Dur (hr), Cum Dur (hr), End Time, Code 1, Code 2, Problem?, Prob Hrs (hr), Prob Ref #, Com.

Daily Mud Checks table with 7 columns: Time, Type, Depth (ftKB), Density (lb/gal), Funnel Viscosity (s/qt), PV Calc (cP), YP Calc (lb/100ft²).

Daily Mud Volumes table with 4 columns: Tank/Addition/Loss, Type, Volume (bbl), Subtype.

Drill Strings table with 4 columns: Bit Run, Drill Bit, IADC Bit Dull, TFA (incl Noz) (in²). Includes Nozzles (1/32") and Drill String Components.

Last Drilling Parameter table with 8 columns: Wellbore, Start Depth (ftKB), End Depth (ftKB), Cum Depth (ft), Drilling Time (hr), Cum Drill Time (hr), Interval ROP (ft/hr), Flow Rate (gpm).

Kicks table with 6 columns: Kick Date, Kick Depth (ftKB), Control Date, Control Depth (ftKB), Kick Class, Kill Notes.

Lost Circulation table with 6 columns: Start Date, Top Depth (ftKB), Bottom Depth (ftKB), Ops In Prog, Vol Lost Tot (bbl), End Date.

Interval Problems (NPT) table with 7 columns: Problem Type, Problem Subtype, Start Date, Start Depth (ftKB), End Depth (ftKB), Est Cost (Cost), Est Lost Time (hr).

Interval Lessons table with 6 columns: Lesson Type, Start Date, End Date, Start Depth (ftKB), End Depth (ftKB), Est Cost Saving (Co.), Est Time Saving (hr).

AFE Number T22DC006. Start Depth (ftKB) 0.0, End Depth (ftKB) 0.0. Target Formation Wolfcamp, Target Depth (ftKB) 22,010.0. Last Casing String Conductor, 146.0ftKB.

Daily Contacts table with 2 columns: Job Contact, Mobile. Includes Scott Palmer, Superintendent (713-907-5875), Nathan Barnes, ACR (432-556-0770), Eugene Parker, ACR (432-556-0770).

Rigs Precision Drilling, 553. Contractor Precision Drilling, Rig Number 553. Rig Supervisor Albert Cruz, Rig Manager (432-227-3620).

1, Continental-Emsco, F-1600. Pump # 1, Pwr (hp) 1,600.0, Rod Dia (in) 1.600.0. Liner Size (in), Stroke (in), Vol/Stk OR (b...).

2, Continental-Emsco, F-1600. Pump # 2, Pwr (hp) 1,600.0, Rod Dia (in) 1.600.0. Liner Size (in), Stroke (in), Vol/Stk OR (b...).

3, Rostel, F-1600. Pump # 3, Pwr (hp) 1,600.0, Rod Dia (in) 1.600.0. Liner Size (in), Stroke (in), Vol/Stk OR (b...).

Mud Additive Amounts table with 3 columns: Des, Field Est (Cost/unit), Consumed.

Safety Checks table with 3 columns: Time, Type, Des. Includes 06:3 Pre Tour, Pre Tour Safety Meeting.

Wellbores Wellbore Name Original Hole. Wellbore Kick Offs & Key Depths table with 2 columns: Type, Top Depth (ftKB). Includes Kick Off (10,855.0), Heel (11,760.0).

Well Name: UL 21 WAR-WINK 38-47 C 3H

Depth Progress:

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity
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Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 32.0	Road Condition Poor	Hole Condition Good
Operations at Report Time SDFN		Planned Operations Move in and Rig Up	
Operations Summary Move to War-Wink Pad			
Remarks			

Mud Volumes						
Active Volume (bbl) 0.0	Var Active Vol (bbl) 0.0	Balance (bbl) 0.0	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 0.0

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	12.00	12.00	18:00	Drilling	Rig Move	No			Move: Transfer Tank/Choke Skid, Mud Pits, Water Tank, Fuel Tank, Mud Pumps, Draw Works, BOP Stack, Battalion Camps & Office, Rig Camps, Accumulator Skid, Change House, Off Driller Parts House, Rig Parts House, Mud Pumps Parts House, Driller's Cabin, Derrick Board, VFD HouseShaker Skids & Misc. Rig Items. Install Liner In Reserve Pit. Run Poly Line From Frac Pond To Location.
18:00	12.00	24.00	06:00	Drilling	Rig Move	No			SDFN

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #<stringno>, <des>			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
Nozzles (1/32")		String Length (ft)	String Wt (1000lb)

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lb)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lb)	SO Str Wt (1000lb)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						

AFE Number T22DC006	
Start Depth (ftKB) 0.0	End Depth (ftKB) 0.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String Conductor, 146.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Heath Duchesne, ACR	432-556-0770
Lloyd Dolen, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
1	1,600.0		
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
2	1,600.0		
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

3, Rostel, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
3	1,600.0		
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed

Safety Checks		
Time	Type	Des
06:30	Pre Tour / Rig Move	Pre Tour / Rig Move Safety Meeting

Wellbores	
Wellbore Name	Original Hole

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 32.0	Road Condition Poor	Hole Condition Good
Operations at Report Time SDFN		Planned Operations Rig Up	
Operations Summary Rig Up			
Remarks			

Mud Volumes						
Active Volume (bbl) 0.0	Var Active Vol (bbl) 0.0	Balance (bbl) 0.0	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 0.0

Daily Time Log										
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com	
06:00	12.00	12.00	18:00	Drilling	Rig Move	No			Move: Substructures, Derrick, Center Steel, Dryer Shakers, Centrifuge, Walking Feet & Misc Rig Items. Set In & Rig Up: Mud Pits, Mud Pumps, Generators, Water Tank, Fuel Tank, Substructures, Center Steel, Both Derrick Sections, Driller's Cabin, Off Driller Side House, Centrifuge, Transfer Tank & Electrical Wires & Hoses.	
18:00	12.00	24.00	06:00	Drilling	Rig Move	No			SDFN	

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #<stringno>, <des>			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
Nozzles (1/32")		String Length (ft)	String Wt (1000lb)
		BHA ROP (ft/hr)	

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lb)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lb)	SO Str Wt (1000lb)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
Kill Notes				

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						

AFE Number T22DC006	
Start Depth (ftKB) 0.0	End Depth (ftKB) 0.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String Conductor, 146.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Heath Duchesne, ACR	432-556-0770
Lloyd Dolen, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
1	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
P (psi)	Slow Spd	Strokes (s... Eff (%)

2, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
2	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
P (psi)	Slow Spd	Strokes (s... Eff (%)

3, Rostel, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
3	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
P (psi)	Slow Spd	Strokes (s... Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Blower Rental	55.00	1.0
Energy Surcharge	1.00	55.2
Engineering Service	1,050.00	1.0
Tax	1.00	81.21

Safety Checks		
Time	Type	Des
06:30	Rig Move	Rig Move Safety Meeting

Wellbores	
Original Hole	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

Table with 4 columns: API/UWI, Surface Legal Location, License #, State/Province; Spud Date, Rig Release Date, KB-Ground Distance, KB-Casing Flange Distance; Weather, Temperature, Road Condition, Hole Condition; Operations at Report Time, Planned Operations; Operations Summary, Rig Up; Remarks.

Mud Volumes table with 7 columns: Active Volume (bbl), Var Active Vol (bbl), Balance (bbl), Tank Volume (bbl), Additions (bbl), Losses (bbl), Hole Volume (bbl).

Daily Time Log table with 10 columns: Start Time, Dur (hr), Cum Dur (hr), End Time, Code 1, Code 2, Problem?, Prob Hrs (hr), Prob Ref #, Com.

Daily Mud Checks table with 7 columns: Time, Type, Depth (ftKB), Density (lb/gal), Funnel Viscosity (s/qt), PV Calc (cP), YP Calc (lb/100ft²).

Daily Mud Volumes table with 4 columns: Tank/Addition/Loss, Type, Volume (bbl), Subtype.

Drill Strings table with 4 columns: BHA #, Drill Bit, IADC Bit Dull, TFA (incl Noz) (in²).

Drill String Components table with 6 columns: Item Des, Jts, OD (in), ID (in), Len (ft), Top Thread.

Last Drilling Parameter table with 8 columns: Wellbore, Start Depth (ftKB), End Depth (ftKB), Cum Depth (ft), Drilling Time (hr), Cum Drill Time (hr), Interval ROP (ft/hr), Flow Rate (gpm).

Kicks table with 5 columns: Kick Date, Kick Depth (ftKB), Control Date, Control Depth (ftKB), Kick Class.

Lost Circulation table with 6 columns: Start Date, Top Depth (ftKB), Bottom Depth (ftKB), Ops In Prog, Vol Lost Tot (bbl), End Date.

Interval Problems (NPT) table with 7 columns: Problem Type, Problem Subtype, Start Date, Start Depth (ftKB), End Depth (ftKB), Est Cost (Cost), Est Lost Time (hr).

AFE Number, T22DC006; Start Depth (ftKB), End Depth (ftKB); Target Formation, Target Depth (ftKB); Last Casing String, Conductor, 146.0ftKB.

Daily Contacts table with 2 columns: Job Contact, Mobile.

Rigs section: Precision Drilling, 553; Contractor, Precision Drilling; Rig Number, 553; Rig Supervisor, Albert Cruz, Rig Manager; Phone Mobile, 432-227-3620.

1, Continental-Emsco, F-1600; Pump #, 1; Pwr (hp), 1,600.0; Rod Dia (in), 5; Liner Size (in), 5; Stroke (in), 12.00; Vol/Stk OR (b...), 0.069.

2, Continental-Emsco, F-1600; Pump #, 2; Pwr (hp), 1,600.0; Rod Dia (in), 5; Liner Size (in), 5; Stroke (in), 12.00; Vol/Stk OR (b...), 0.069.

3, Rostel, F-1600; Pump #, 3; Pwr (hp), 1,600.0; Rod Dia (in), 5; Liner Size (in), 5; Stroke (in), 12.00; Vol/Stk OR (b...), 0.069.

Mud Additive Amounts table with 3 columns: Des, Field Est (Cost/unit), Consumed.

Safety Checks table with 3 columns: Time, Type, Des.

Wellbores section: Wellbore Name, Original Hole; Wellbore Kick Offs & Key Depths table with 2 columns: Type, Top Depth (ftKB).

Well Name: UL 21 WAR-WINK 38-47 C 3H

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 32.0	Road Condition Poor	Hole Condition Good
Operations at Report Time Rigging Up		Planned Operations Repair Catwalk. Prepare to spud.	
Operations Summary Rig Up			
Remarks			

Mud Volumes						
Active Volume (bbl) 0.0	Var Active Vol (bbl) 0.0	Balance (bbl) 0.0	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 0.0

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	24.00	24.00	06:00	Drilling	Rig up / Tear Down	No			Rig Up: Standpipe Lines, Electrical Lines To Draw Works, Rig Tongs, ST-80. Run Poly Lines To Rig Water Tank & Cement Water Tanks. Troubleshoot Draw Works communications, changed out Fiber Cable, continue to troubleshoot coms issue. Spool Draw Works. Un-hang Blocks and install Blocks to Top Drive. Rig up walking system. Fill Pits and check for leaks. Lay Out & Clean, Drift & Tally 13 3/8" Surface Casing, Move OBM & Frac Tanks From Parnassus Pad To War Wink Pad, Continue Hauling Brine Water From Parnassus Pit To War Wink Pit. American Cementing Loaded Cement In Cement Bins.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #<stringno>, <des>			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
Nozzles (1/32")		String Length (ft)	String Wt (1000lbf)
BHA ROP (ft/hr)			

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
Kill Notes				

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

AFE Number T22DC006	
Start Depth (ftKB) 0.0	End Depth (ftKB) 0.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String Conductor, 146.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Heath Duchesne, ACR	432-556-0770
Lloyd Dolen, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
1	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

2, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
2	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

3, Rostel, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
3	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Blower Rental	55.00	1.0
Energy Surcharge	1.00	55.25
Engineering Service	1,050.00	1.0
Tax	1.00	81.22

Safety Checks		
Time	Type	Des

Wellbores	
Original Hole	

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)

Comment

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)

Comment

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 30.0	Road Condition Poor	Hole Condition Good
Operations at Report Time Picking Up BHA.		Planned Operations Drill 17 1/2" Surface Hole.	
Operations Summary Rig Up, Install Conductor Pipe, Mix Spud Mud, Install Overboard PVC, Repair Catwalk, Repair Top Drive Track, Pick Up BHA.			
Remarks Notified TRRC of Intent to Spud, Run & Cement Surface Casing			
Mud Volumes			
Active Volume (bbl) 0.0	Var Active Vol (bbl) 0.0	Balance (bbl) 0.0	Tank Volume (bbl) 0.0
Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 0.0	

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	7.00	7.00	13:00	Drillin g	Rig up / Tear Down	No			Install Walking Feet On Transfer Tank, Troubleshoot & Test Run Top Drive, Repair Sensors In Transfer Tank, Test Run Rotary Table.
13:00	5.00	12.00	18:00	Drillin g	RU Support Equipment	No			Install Overboard PVC & Jet Lines On Overboard Trough, Install Conductor Pipe, Install Turnbuckles, Mix Spud Mud.
18:00	4.00	16.00	22:00	Drillin g	NPT	No			Replace Rollers, Chain & Chain Guide On Catwalk. Attempt to Change Out Strongback Brace On Top Drive Track, Track is flared and unable to install requires a Welder; Re-install old Strong Back.
22:00	1.50	17.50	23:30	Drillin g	RU Support Equipment	No			Install Flow Line. Lay out HWDP and 8" DC's
23:30	2.00	19.50	01:30	Drillin g	RU Support Equipment	No			Circulate through surface lines and test back to Mud Pumps to 1500 psi. Replaced Gaskets in Mud Line on Suitcase.
01:30	2.00	21.50	03:30	Drillin g	Handling BHA	No			Prep floor to PU Directional Tools. Held PJSM.
03:30	2.50	24.00	06:00	Drillin g	Handling BHA	No			Pick Up Motor 2 NMDC, Bit, MWD Tool & Scribe Motor

Daily Mud Checks							
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)	
18:00	Water Base	146.0	8.40	34	1.0	1.000	
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)	
1.000	1.000	1.000	100.0		7.0	0.5	
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)	
	0.0	99.5	1,900.000	0.000			

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #<stringno>, <des>			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
Nozzles (1/32")		String Length (ft)	String Wt (1000lbf)
BHA ROP (ft/hr)			

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...

AFE Number T22DC006	
Start Depth (ftKB) 0.0	End Depth (ftKB) 0.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String Conductor, 146.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Heath Duchesne, ACR	432-556-0770
Lloyd Dolen, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
1	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

2, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
2	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

3, Rostel, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
3	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Blower Rental	55.00	1.0
Energy Surcharge	1.00	55.25
Engineering Service	1,050.00	1.0
Tax	1.00	81.22

Safety Checks		
Time	Type	Des

Wellbores	
Wellbore Name	
Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Kicks						
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class		
Kill Notes						
Lost Circulation						
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date	
Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						
Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
Comment						
Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 30.0	Road Condition Poor	Hole Condition Good
Operations at Report Time Install Wellhead		Planned Operations Drill Surface hole on War Wink 38-47 #2H	
Operations Summary Pick Up BHA, Drill 17 1/2" Surface Hole From 139' To 891', Circ Sweep Around, Wiper Trip, Circ Sweep Around, Trip Out Of Hole, R/U Casing Crew, Run 13.375" Surface Casing and Cement in place. Flush and Drain Conductor, Remove Landing Joint. Remove Conductor and Install Wellhead.			
Remarks Release Rig to UL 21 War Wink 38-47 2H at 06:00hrs 12/20/2022			

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
242.3	242.3	242.3	0.0	0.0	0.0	242.3

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	2.00	2.00	08:00	Drilling	Handling BHA	No			Pick NMDC, MWD Tool & Bit. Surface Test MWD Tool.
08:00	1.50	3.50	09:30	Drilling	Drilling Ahead	No			Drill 17 1/2" Surface Hole From 139' To 293'.
09:30	1.50	5.00	11:00	Drilling	Trip	No			Rack Back 2 Stands Of 5" HWDP & Pick Up 3-8" Drill Collars.
11:00	3.00	8.00	14:00	Drilling	Drilling Ahead	No			Drill 17 1/2" Surface Hole From 293' To 891'.
14:00	0.50	8.50	14:30	Drilling	Cond Mud & Circ	No			Circulate 50 BBL High Viscosity Sweep Around.
14:30	1.00	9.50	15:30	Drilling	Wiper/Condition Trip	No			Trip Out Of Hole From 891' To 206'. No Issues.
15:30	0.50	10.00	16:00	Drilling	Wiper/Condition Trip	No			Trip In Hole From 206' To 891'. No Issues.
16:00	1.00	11.00	17:00	Drilling	Cond Mud & Circ	No			Circulate 50 BBL High Viscosity Sweep Around.
17:00	1.00	12.00	18:00	Drilling	Trip	No			Trip Out Of Hole From 891' To 117'
18:00	1.50	13.50	19:30	Drilling	Handling BHA	No			Lay Down Shock Sub & Stabilizer.
19:30	2.00	15.50	21:30	Drilling	Run CSG	No			Center Rig prior to rig up Casing Crew. Rig up Butch's Casing Crew.
21:30	3.00	18.50	00:30	Drilling	Run CSG	No			Make up Shoe Track & check floats. Run 22 Joints of 13.375" 54.5#, J-55, BTC Casing. OAL: 875.31', Landed at 871'. Top of Float Collar: 828.96'. NOTE: Had 40 minutes NPT Troubleshooting Catwalk.
00:30	1.00	19.50	01:30	Drilling	Cond Mud & Circ	No			Circulate bottoms up @ 500 GPM. Rig down Butch's Casing Crew and rig up Cementers.
01:30	2.50	22.00	04:00	Drilling	Cementing	No			Cement 13.375" Surface Casing in place. Pumped 50 BBL Fresh Water Spacer followed by 417 Sacks (153 BBL) of 12.4 ppg Class C Lead Cement and 301 Sacks (71 BBL) of 14.8 ppg Class C Tail Cement. Drop Wiper Plug and Displace with 129 BBL Fresh Water at 7 BPM, Slowed to 4 BPM for last 20 BBL. Final Lift Pressure: 330 PSI. Bump Plug at 03:26 hrs with 1000 PSI, Held 5 minutes and bled back 0.5 BBL. Floats holding. Had 64 BBL (173 SKS) Cement Returns to Surface.
04:00	2.00	24.00	06:00	Drilling	NU/ND	No			Flush Conductor and Flowlines. Drain Conductor. Remove Landing Joint. Remove Conductor and Install Wellhead

AFE Number T22DC006	
Start Depth (ftKB) 139.0	End Depth (ftKB) 891.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String Surface, 871.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Heath Duchesne, ACR	432-556-0770
Lloyd Dolen, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600			
Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi) 1,100.0	Slow Spd No	Strokes (s...) 95	Eff (%) 95

2, Continental-Emsco, F-1600			
Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi) 1,100.0	Slow Spd No	Strokes (s...) 95	Eff (%) 95

3, Rostel, F-1600			
Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Bentonite	13.78	175.0
Blower Rental	55.00	1.0
Engineering Service	1,050.00	1.0
Fuel Surcharge	1.00	300.0
Pecan Nut Plug	18.00	5.0
Scale Charge	20.00	1.0
Soda Ash	18.56	5.0
Stellar DD	45.00	20.0
Stellar PHPA	79.00	6.0
Stellar Star 55	79.00	4.0
Tax	1.00	486.10
Trucking	1.00	1,250.00

Safety Checks		
Time	Type	Des
20:00	Safety Meeting	Pre Job Safety Meeting: Run Casing

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Daily Mud Checks						
Time 06:00	Type Water Base	Depth (ftKB) 891.0	Density (lb/gal) 8.80	Funnel Viscosity (s/qt) 33	PV Calc (cP) 1.0	YP Calc (lb/100ft²) 2.000
Gel 10 sec (lb/100ft²) 1.000	Gel 10 min (lb/100ft²) 1.000	Gel 30 min (lb/100ft²) 1.000	Filtrate (mL/30min) 100.0	Filter Cake (1/32") 1	pH 7.0	Solids (%) 4.0
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%) 96.0	Chlorides (mg/L) 2,000.000	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Heel	11,760.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #1, BHA #1, Surface			
Bit Run 1	Drill Bit 17 1/2in, CF616, 63332	IADC Bit Dull 1-1-WT-S-X-0-NO-TD	TFA (incl Noz) (in²) 1.31
Nozzles (1/32") 14/14/14/14/14/14/13/13		String Length (ft) 937.29	String Wt (1000lb) 70
		BHA ROP (ft/hr) 167.1	

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
HWDP	24	5	3.13	733.18	NC 50
XO Sub	1	7.88	3.00	3.43	NC 50
Drill Collar	3	8	3.00	89.19	Reg
Shock Sub	1	8	3.00	12.15	Reg
NMDC	1	8	3.50	29.32	Reg
NMDC	1	8	3.50	28.78	Reg
MWD - UBHO	1	8	3.31	2.69	Reg
17" Stabilizer	1	8	2.29	7.30	Reg
9 5/8"x8" 7/8 4.0 (.18 RPG), 17" NBS	1	9 5/8	2.00	29.75	Reg

Last Drilling Parameter							
Wellbore Original Hole	Start Depth (ftKB) 293.0	End Depth (ftKB) 891.0	Cum Depth (ft) 752.00	Drilling Time (hr) 3.00	Cum Drill Time (hr) 4.50	Interval ROP (ft/hr) 199.3	Flow Rate (gpm) 800
WOB (1000lb) 10	RPM (rpm) 60	SPP (psi) 1,150.0	Drill Str Wt (1000...) 110	PU Str Wt (1000lb) 110	SO Str Wt (1000lb) 105	Drilling Torque 2,500.0	Off Btm Tq 1,000.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F) 62.6	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 40.0	Road Condition Poor	Hole Condition Good
Operations at Report Time Drilling 12 1/4" Int1 hole.		Planned Operations Continue drilling 12 1/4" Int1 hole.	
Operations Summary Walked rig from UL 21 War Wink 38 - 47 2H. Turned stompers 90° & centered rig over wellhead. NU BOPs. Tested BOPE. RU back yard equipment. PUMU directional assy. TIH. Displaced to Brine. Troubleshoot Surface Pressure Losses. Tested casing to 1,000 psi for >30 minutes. Drilled out Shoe Track. Drilled 12 1/4" hole.			
Remarks			

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
128.7	-113.6	-113.6	0.0	0.0	0.0	128.7

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
08:30	3.00	3.00	11:30	Drilling	Walk Rig	No			Walked rig 25'. Turned stompers 90° and centered rotary opening over well head.
11:30	1.50	4.50	13:00	Drilling	NU/ND	No			NU CIW 13 3/8" 10M BOP stack.
13:00	4.50	9.00	17:30	Drilling	Pressure Test	No			Inserted test plug. Tested standpipe valve, all Choke, Kill, Floor, TDU valves; Blinds, Upper & Lower Pipe Rams to 250 PSI Low & 5,000 PSI High. Tested Annular to 250 PSI Low & 3,500 PSI High. Removed test plug. Inserted wear bushing. Stabilized BOP stack with guy cables & levered come-a-longs.
17:30	3.00	12.00	20:30	Drilling	RU Support Equipment	No			Rig up Back Yard. Change out collapsed suction hoses in Transfer Tank.
20:30	2.00	14.00	22:30	Drilling	Handling BHA	No			Make up 12.25" bit w/ 9.625" X 8", 1.75" bend Mud Motor. Bit to Gamma: 55', Bit to Survey: 70'.
22:30	2.00	16.00	00:30	Drilling	Trip	No			TIH with DCs & HWDP from surface to 810'.
00:30	1.50	17.50	02:00	Drilling	Pressure Test	No			Displaced FW to reserve pit. Tested 13 3/8" surface casing to 1,000 PSI for >30 Minutes. Troubleshoot surface equipment for pressure losses. 2" Low Torque on Rig Floor washed.
02:00	2.00	19.50	04:00	Drilling	Drilling Ahead	No			Drilled out cement & shoe track 810' to 871'. Cleaned out rat hole to 891'.
04:00	1.50	21.00	05:30	Drilling	Drilling Ahead	No			Drill 12.25" Intermediate Section from 891' to 1075'
05:30	0.50	21.50	06:00	Drilling	Cond Mud & Circ	No			Clean out flowline

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
13:00	Salt Base	891.0	9.80	29	2.0	2.000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
1.000	1.000	1.000			9.0	8.0
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	0.0	92.0	120,000.000			

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #2, BHA #2, Int1			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
2	12 1/4in, TKC66-AE1, A292270	1-1-WT-A-X-0-NO-TD	1.35
Nozzles (1/32")	String Length (ft)	String Wt (1000lb)	BHA ROP (ft/hr)
16/16/15/15/15/12/12/12/12	1,303.51	117	100.4

AFE Number T22DC006	
Start Depth (ftKB) 891.0	End Depth (ftKB) 1,075.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String Surface, 871.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Eugene Parker, ACR	432-556-0770
Lloyd Dolen, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
1	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
1,400.0	No	96	100

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
2	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
1,400.0	No	96	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
3	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
1,400.0	No	96	100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Bar Bin Rental	850.00	2.0
Blower Rental	55.00	1.0
Energy Surcharge	1.00	413.15
Engineering Service	1,050.00	1.0
Fuel Surcharge	1.00	788.0
Mileage	0.85	500.0
Standby	95.00	3.0
Stellar H2S Scavenger	685.00	1.0
Tax	1.00	608.37
Trucking	1.00	3,275.0

Safety Checks		
Time	Type	Des
20:30	Safety Meeting	PJSM - Handling BHA

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
HWDP	24	5	3.13	727.59	NC 50
Drill Collar	6	6 3/4	2.81	180.59	NC 50
XO Sub	1	6 5/8	2.75	2.74	NC 50
Drill Collar	9	8	3.00	267.02	Reg
Shock Sub	1	8	3.00	12.50	Reg
NMDC	1	8	3.25	31.20	Reg
NMDC	1	8	3.25	31.16	Reg
MWD - UBHO	1	8	3.25	2.81	Reg
11.5" Stabilizer	1	8	2.29	8.03	Reg
9 5/8"x8" 7/8 3.4 (.087 RPG), 12" NBS	1	9 5/8	2.00	38.37	Reg

Last Drilling Parameter							
Wellbore Original Hole	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
	891.0	1,075.0	184.00	1.50	1.50	122.7	800
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
10	60	1,400.0	138	138	138	7,000.0	2,000.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			71.0				

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Kill Notes

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)

Comment

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)

Comment

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 40.0	Road Condition Poor	Hole Condition Good
Operations at Report Time Drilling 12 1/4" Int 1 Hole at 3,693'.		Planned Operations Drill 12 1/4" Hole to +/- 4,956'. Circulate Sweep. Short Trip. Circulate Hole Clean. LD DP.	
Operations Summary Drilled 12 1/4" Int 1 Hole From 1,075' to 3,693'.			
Remarks			

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
471.6	343.0	343.0	0.0	0.0	0.0	471.6

Daily Time Log										
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com	
06:00	10.00	10.00	16:00	Drillin g	Drilling Ahead	No			Drilled 12 1/4" Int1 hole from 1,075' to 2,467'.	
16:00	0.50	10.50	16:30	Drillin g	Rig Maintenance	No			Serviced TDU & rig.	
16:30	13.50	24.00	06:00	Drillin g	Drilling Ahead	No			Drilled 12 1/4" Int1 hole from 2,467' to 3,693'.	

Daily Mud Checks						
Time 17:00	Type Salt Base	Depth (ftKB) 2,600.0	Density (lb/gal) 10.25	Funnel Viscosity (s/qt) 29	PV Calc (cP) 3.0	YP Calc (lb/100ft²) 1.000
Gel 10 sec (lb/100ft²) 1.000	Gel 10 min (lb/100ft²) 1.000	Gel 30 min (lb/100ft²) 1.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH 10.0	Solids (%) 11.5
MBT (lb/bbl)	Percent Oil (%) 0.0	Percent Water (%) 88.5	Chlorides (mg/L) 159,000.000	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #2, BHA #2, Int1			
Bit Run 2	Drill Bit 12 1/4in, TKC66-AE1, A292270	IADC Bit Dull 1-1-WT-A-X-0-NO-TD	TFA (incl Noz) (in²) 1.35

Nozzles (1/32") 16/16/15/15/15/12/12/12/12	String Length (ft) 1,303.51	String Wt (1000lbf) 117	BHA ROP (ft/hr) 100.4
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Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
HWDP	24	5	3.13	727.59	NC 50
Drill Collar	6	6 3/4	2.81	180.59	NC 50
XO Sub	1	6 5/8	2.75	2.74	NC 50
Drill Collar	9	8	3.00	267.02	Reg
Shock Sub	1	8	3.00	12.50	Reg
NMDC	1	8	3.25	31.20	Reg
NMDC	1	8	3.25	31.16	Reg
MWD - UBHO	1	8	3.25	2.81	Reg
11.5" Stabilizer	1	8	2.29	8.03	Reg
9 5/8"x8" 7/8 3.4 (.087 RPG), 12" NBS	1	9 5/8	2.00	38.37	Reg

Last Drilling Parameter							
Wellbore Original Hole	Start Depth (ftKB) 2,780.0	End Depth (ftKB) 3,693.0	Cum Depth (ft) 2,802.00	Drilling Time (hr) 11.00	Cum Drill Time (hr) 25.00	Interval ROP (ft/hr) 83.0	Flow Rate (gpm) 800
WOB (1000lbf) 45	RPM (rpm) 60	SPP (psi) 2,700.0	Drill Str Wt (1000...) 180	PU Str Wt (1000lbf) 190	SO Str Wt (1000lbf) 170	Drilling Torque 18,000.0	Off Btm Tq 4,000.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F) 93.0	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

AFE Number T22DC006	
Start Depth (ftKB) 1,075.0	End Depth (ftKB) 3,693.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String Surface, 871.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600		
Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

2, Continental-Emsco, F-1600		
Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi) 2,600.0	Slow Spd No	Strokes (s...) 96 Eff (%) 100

3, Rostel, F-1600		
Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi) 2,600.0	Slow Spd No	Strokes (s...) 96 Eff (%) 100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite	16.00	10.0
Blower Rental	55.00	1.0
DuoVis	222.89	5.0
Energy Surcharge	1.00	487.19
Engineering Service	1,050.00	1.0
Forklift	110.00	1.0
Fuel Surcharge	1.00	212.75
Lime	9.89	10.0
Mileage	0.85	500.0
Pecan Nut Plug	18.00	40.0
Salt Gel	14.55	75.0
SAPP	128.00	8.0
Shrink Wrap	22.00	15.0
Stellar DD	45.00	12.0
Stellar Defoam A	87.00	18.0
Stellar Star 55	79.00	4.0
Tax	1.00	731.54
Trucking	1.00	1,150.00

Safety Checks		
Time	Type	Des
17:45	Pre Tour	Pre Tour Safety Meeting
05:45	Pre Tour	Pre Tour Safety Meeting

Well Name: UL 21 WAR-WINK 38-47 C 3H

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Wellbores	
Wellbore Name	
Original Hole	

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 34.0	Road Condition Poor	Hole Condition Good
Operations at Report Time TOOH at 3,632'.		Planned Operations LD DP. LD BHA. Pull Wear Bushing. RU Casing Crew. Run 9 5/8" Casing to 4,936'. Circulate Prior to Cementing. Cement 9 5/8" Casing. Install Packoff.	
Operations Summary Drill 12 1/4" Int1 Hole From 3,693' to 4,956'. Circulate Sweep. Short Trip. Circulate Hole Clean. TOOH to 3,632'.			
Remarks			

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
637.1	165.5	165.5	0.0	0.0	0.0	637.1

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	8.00	8.00	14:00	Drilling	Drilling Ahead	No			Drill 12 1/4" Int 1 Hole From 3,693' to 4,170'.
14:00	0.50	8.50	14:30	Drilling	Rig Maintenance	No			Rig Service.
14:30	7.50	16.00	22:00	Drilling	Drilling Ahead	No			Drill 12 1/4" Int 1 Hole From 4,170' to 4,956' CP.
22:00	1.00	17.00	23:00	Drilling	Cond Mud & Circ	No			Circulated 50 BBLs of 80 Vis, 10.3 ppg sweep around.
23:00	2.50	19.50	01:30	Drilling	Wiper/Condition on Trip	No			TOOH from 4,956' to 865'. Observed minor overpulls at bit depths of 2020', 2003', 1393', 1336' and 1216'.
01:30	2.50	22.00	04:00	Drilling	Wiper/Condition on Trip	No			TIH from 865' To 4,956'. Hole was slick. 15' Fill on Bottom.
04:00	1.50	23.50	05:30	Drilling	Cond Mud & Circ	No			Pumped 50 bbls viscous sweep and circulated wellbore clean at 800 gpm. Spotted 100 BBLs of 80 vis pill on bottom (covering 686' in OH).
05:30	0.50	24.00	06:00	Drilling	Trip	No			TOOH From 4,956' to 3,632'. Hole Slick.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
16:00	Salt Base	4,520.0	10.35	29	2.0	2.000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
1.000	1.000	1.000	100.0	1	10.0	12.5
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
0.0	0.0	87.5	145,000.000			

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #2, BHA #2, Int1			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
2	12 1/4in, TKC66-AE1, A292270	1-1-WT-A-X-0-NO-TD	1.35
Nozzles (1/32")		String Length (ft)	BHA ROP (ft/hr)
16/16/15/15/15/12/12/12/12		1,303.51	117

Drill String Components						
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread	
HWDP	24	5	3.13	727.59	NC 50	
Drill Collar	6	6 3/4	2.81	180.59	NC 50	
XO Sub	1	6 5/8	2.75	2.74	NC 50	
Drill Collar	9	8	3.00	267.02	Reg	
Shock Sub	1	8	3.00	12.50	Reg	
NMDC	1	8	3.25	31.20	Reg	
NMDC	1	8	3.25	31.16	Reg	
MWD - UBHO	1	8	3.25	2.81	Reg	
11.5" Stabilizer	1	8	2.29	8.03	Reg	
9 5/8"x8" 7/8 3.4 (.087 RPG), 12" NBS	1	9 5/8	2.00	38.37	Reg	

AFE Number T22DC006	
Start Depth (ftKB) 3,693.0	End Depth (ftKB) 4,956.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String Surface, 871.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
1	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
2,800.0	No	96
Eff (%)		
100		

2, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
2	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
2,800.0	No	96
Eff (%)		
100		

3, Rostel, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
3	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
2,800.0	No	96
Eff (%)		
100		

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Blower Rental	55.00	11.0
DuoVis	222.89	1.0
Energy Surcharge	1.00	262.92
Engineering Service	1,050.00	1.0
Forklift	110.00	3.0
Salt Gel	14.55	50.0
Soda Ash	18.56	10.0
Standby	95.00	1.5
Stellar PHPA	79.00	4.0
Tax	1.00	386.49

Safety Checks		
Time	Type	Des
17:4	Pre Tour	Pre Tour
5		Safety Meeting
05:4	Pre Tour	Pre Tour
5		Safety Meeting

Wellbores	
Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Last Drilling Parameter							
Wellbore Original Hole	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
	4,643.0	4,956.0	4,065.00	3.50	40.50	89.4	800
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
45	60	2,900.0	210	220	190	18,000.0	7,000.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			116.0				

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Kill Notes

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)

Comment

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)

Comment

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 40.0	Road Condition Poor	Hole Condition Good
Operations at Report Time Preparing Rig for 4.5" Drill Pipe.		Planned Operations Change Rams, Top Drive, and Floor Equipment for 4.5" Drill Pipe. Install Orbit Valve. Test BOPs. PU 8.75" BHA. TIH	

Operations Summary
 LD DP. LD BHA. Pull Wear Bushing. RU Casing Crew. Run 9 5/8" Casing to 4,936'. Circulate bottoms up. Pump cement job. Install well head packoff.

Remarks
 Notified Rosa With TRRC at 08:00 on 1/5/2023 of Intent to Run and Cement 9 5/8" Casing. Given TRRC Job# 329116.

Mud Volumes						
Active Volume (bbl) 0.0	Var Active Vol (bbl) -637.1	Balance (bbl) -637.1	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 0.0

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	2.50	2.50	08:30	Drilling	Trip	No			Pump Slug. LD 5" Drill Pipe From 3,632' to 1,303'. Hole Slick. Calculated Fill.
08:30	1.50	4.00	10:00	Drilling	Trip	No			Pull Rotating Head. TOOH With HWDP and 6.75" DC's From 1,303' to 395'.
10:00	3.00	7.00	13:00	Drilling	Handling BHA	No			Lay Down 8" DC's, Shock Sub, and NMDC. Pull MWD. Break Bit. LD NMDC, UBHO, Stabilizer, and Motor. Remove Subs from Floor.
13:00	0.50	7.50	13:30	Drilling	RU Support Equipment	No			Pull Wear Bushing. Install Trip Nipple.
13:30	1.00	8.50	14:30	Drilling	RU Support Equipment	No			Rig Up Butch's Casing Bail Extensions, Elevators, Power Tongs, and Floor Bowl. Hold PJSM With Butch's and Precision.
14:30	0.50	9.00	15:00	Drilling	Run CSG	No			Make Up Texas Shoe, FC, 1 Joint Casing, and FC (Thread Locked to Top of Second FC). Fill Shoe Track and Test Floats. Function Annular.
15:00	6.00	15.00	21:00	Drilling	Run CSG	No			Run 9 5/8" 40# J-55 BTC Casing From Surface to 4,905'. Added mud Every 30 Joints. Displacement as Calculated.
21:00	0.50	15.50	21:30	Drilling	Run CSG	No			PUMU Landing Joint. Filled casing. Staged pumps up from 5 BPM to 10 BPM. Washed from 4,926' to 4,936'. Landed hanger in well head with neutral 9 5/8" casing weight of 150K. Shoe set at 4,936', Top of FC at 4,889'. 123 Joints in string.
21:30	1.00	16.50	22:30	Drilling	Cond Mud & Circ	No			Circulated bottoms up. Full returns.
22:30	0.50	17.00	23:00	Drilling	RD Support Equipment	No			Held PJSM, Laid Down CRT. Rigged up American Cementing cement head & lines.
23:00	3.00	20.00	02:00	Drilling	Cementing	No			Tested lines To 3,500 PSI. Pumped 60 BBLs FW spacer. Pumped 476 BBLs (1091 sks) Class C Lead 12.0# Cement at 7.2 BPM. Yield 2.45 ft3/sk. Pumped 87 BBLs (367 sks) Class C Tail 14.8# at 6 BPM, Yield of 1.33 ft3/sk. Displaced with 20 bbls FW, 330 bbls 10.4 brine, plus 20 bbls FW at 7.7 BPM. Bumped Plug at 4 BPM with 830 PSI increasing to 1,115 PSI. Floats held. Full returns throughout job - 100+ BBLs to surface.
02:00	2.00	22.00	04:00	Drilling	RD Support Equipment	No			Flushed stack & flowline. Laid down cement head. Laid down Landing Joint. Made Up & set Pack Off, Tested seals to 5,000 PSI. Pull tested.

AFE Number T22DC006	
Start Depth (ftKB) 4,956.0	End Depth (ftKB) 4,956.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String Intermediate 1, 4,936.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600			
Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

2, Continental-Emsco, F-1600			
Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

3, Rostel, F-1600			
Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	3.92
Blower Rental	55.00	1.0
DuoVis	222.89	11.0
Energy Surcharge	1.00	285.89
Engineering Service	1,050.00	1.0
Salt Gel	14.55	60.0
Stellar PHPA	79.00	4.0
Tax	1.00	420.27

Safety Checks		
Time	Type	Des

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Daily Time Log

Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
04:00	2.00	24.00	06:00	Drilling	NU/ND	No			Cleaned on mud tanks while replacing 5" lower ram blocks with 4 1/2". Install 4 1/2" wear sub & bell guide on top-drive. Moved 4 1/2" DP onto rig racks.

Daily Mud Checks

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft ²)
15:00	Salt Base	4,956.0	10.25	30	3.0	1.000
Gel 10 sec (lb/100ft ²)	Gel 10 min (lb/100ft ²)	Gel 30 min (lb/100ft ²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
1.000	1.000	1.000	100.0	1	9.0	11.0
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	0.0	89.0	142,000.000			

Daily Mud Volumes

Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings

BHA #<stringno>, <des>

Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in ²)
Nozzles (1/32")	String Length (ft)	String Wt (1000lb)	BHA ROP (ft/hr)

Drill String Components

Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread

Last Drilling Parameter

Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft ³ /min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks

Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Kill Notes

Lost Circulation

Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)

Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)

Comment

Interval Lessons

Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)

Comment

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 39.0	Road Condition Poor	Hole Condition Good
Operations at Report Time Picking Up 4.5" Drill Pipe at 2,250'.		Planned Operations Pick Up Drill Pipe to 4,800'. Test Casing. Drill Shoe Track. Drill 8.75" 2nd Intermediate.	

Operations Summary
 Change Rams, Top Drive, and Floor Equipment for 4.5" Drill Pipe. Install Orbit Valve. Test BOPs. PU 8.75" BHA. TIH to 1,010'. Cut Drill Line. PU DP to 2,250'.

Remarks

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
0.0	0.0	0.0	0.0	0.0	0.0	0.0

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	4.50	4.50	10:30	Drilling	RU Support Equipment	No			Finish installing 4.5" Pipe Rams. Change Saver Sub, Grabber Dies, and Bell Guide. Strap 4.5" Drill Pipe. Jet Out Mud Tanks.
10:30	7.00	11.50	17:30	Drilling	RU Support Equipment	No			Remove Spool From Rotating Head to Flow Line. Install XO and Halliburton Orbit Valve. Torque Flanges. Install Lines and Control Station. Continue Jetting Out Mud Tanks. Replace both transfer tank pumps.
17:30	3.50	15.00	21:00	Drilling	Pressure Test	No			Continued cleaning mud tanks. Inserted test plug on 4 1/2" DP joint. Tested Floor, TDU valves, Upper & Lower Pipe Rams to 250 PSI Low & 5,000 PSI High. Tested Annular to 250 PSI Low & 3,500 PSI High. Removed test plug. Inserted wear bushing. Replaced 9 shaker screens.
21:00	4.00	19.00	01:00	Drilling	Handling BHA	No			PUMU 8.75" 2nd Intermediate directional assy. PU 6 3/4" 1.85°, 7/8 Lobe, 5.7 Stage, 0.23 RPG FBH Mud Motor. MU 8 3/4" TKC76 T1 bit. PUMU 8" stab, UBHO, & 2 NMDCs. Inserted MWD tool. Scribed assy. Tested assy at 400 GPM. Modified fillup manifold & installed x-o spool between orbit valve and flowline.
01:00	1.00	20.00	02:00	Drilling	Trip	No			TIH 2 stands of 6 3/4" DCs plus 8 stands of 5" HWDP to 1,010'.
02:00	2.00	22.00	04:00	Drilling	Cut off Drill Line	No			PU 4 1/2" handling tools. PUMU x-o sub plus 1 joint of 4 1/2" DP. Cut & slipped 100' of drill line.
04:00	2.00	24.00	06:00	Drilling	Trip	No			PUMU 4 1/2" PT43 DP From 1,010' to 2,250'.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lbf/100ft²)
	Salt Base		9.80	29	2.0	2.000
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Gel 30 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
1.000	1.000	1.000		1	9.0	8.0
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lbf/100ft²)
07:00	Salt Base	4,956.0	9.80	29	2.0	2.000
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Gel 30 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
1.000	1.000	1.000	100.0	1	9.0	8.0
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	0.0	92.0	120,000.000			

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

AFE Number T22DC006	
Start Depth (ftKB) 4,956.0	End Depth (ftKB) 4,956.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String Intermediate 1, 4,936.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600		
Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

2, Continental-Emsco, F-1600		
Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

3, Rostel, F-1600		
Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Blower Rental	55.00	1.0
Energy Surcharge	1.00	55.25
Engineering Service	1,050.00	1.0
Tax	1.00	81.22

Safety Checks		
Time	Type	Des
17:45	Pre Tour	Pre Tour Safety Meeting
05:45	Pre Tour	Pre Tour Safety Meeting

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Drill Strings							
BHA #<stringno>, <des>							
Bit Run	Drill Bit	IADC Bit Dull			TFA (incl Noz) (in ²)		
Nozzles (1/32")				String Length (ft)	String Wt (1000lbf)	BHA ROP (ft/hr)	
Drill String Components							
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread		
Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft ³ /min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...
Kicks							
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class			
Kill Notes							
Lost Circulation							
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date		
Interval Problems (NPT)							
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)	
Comment							
Interval Lessons							
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)	
Comment							
Safety Incidents							
Time	Category	Type	Subtype	Cause	Lost time?	Severity	

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 35.0	Road Condition Poor	Hole Condition Good
Operations at Report Time Drilling 8.75" 2nd Intermediate at 5,040'.		Planned Operations Drill 8 3/4" 2nd Intermediate.	
Operations Summary Pick Up Drill Pipe From 2,250' to 4,824'. Test Casing. Clean Out Transfer Tank, Suction Lines, and Discharge Lines. Replace Transfer Pump. Drill Shoe Track. Drill 8 3/4" 2nd Intermediate From 4,956' to 5,040'.			

Remarks

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
175.3	175.3	175.3	0.0	0.0	0.0	175.3

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	3.50	3.50	09:30	Drilling	Trip	No			PU 4 1/2" PT43 DP From 2,250' to 4,824'.
09:30	0.50	4.00	10:00	Drilling	RU Support Equipment	No			Pull Trip Nipple and Install Rotating Head.
10:00	2.00	6.00	12:00	Drilling	Pressure Test	No			Test Rotating Head / Orbit Valve to 400 PSI (Had to Replace Rotating Head Gasket). Close Annular and Flush Through Chokes. Pressure Test Casing to 1,500 PSI for 30 Minutes. Test Good. Open Annular.
12:00	0.50	6.50	12:30	Drilling	Rig Maintenance	No			Replace Swivel on Grasshopper.
12:30	9.50	16.00	22:00	Drilling	Rig Downtime	No			Transfer Tank Pumps Not Pumping. Clean Out Solids From Transfer Tank. Clean Out Debris From Pump Suction Line. Tested pumps. Suction line flange leaked on pump suction. Disassembled suction flange to pump. Found cracked flange on pump.
22:00	4.00	20.00	02:00	Drilling	Rig Downtime	No			Ordered a replacement 6x6" transfer pump. Ruptured 6" transfer hose on zig-zag suitcase while testing pump nearest reserve pit. After removal, observed 6" hose restricted with white canvas bag material. Replaced hose. Removed transfer pump nearest to the substructure.
02:00	2.00	22.00	04:00	Drilling	Rig Downtime	No			Installed 6x6" transfer pump.
04:00	1.50	23.50	05:30	Drilling	Reaming	No			Drilled out cement & shoe track 4,880' to 4,936'. Cleaned out rat hole to 4,956'.
05:30	0.50	24.00	06:00	Drilling	Drilling Ahead	No			Drill 8 3/4" Second Intermediate Hole from 4,956' to 5,040'.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
16:30	Salt Base	4,956.0	9.70	28	2.0	2.000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
1.000	1.000	1.000	100.0	1	10.0	6.0
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	0.0	94.0	140,000.000			

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #3, BHA #3, 2nd Intermediate (1st Run)			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
3	8 3/4in, TKC76-T1, A284123	2-3-BT-G-X-0-WT-PP	1.05
Nozzles (1/32")	String Length (ft)	String Wt (1000lb)	BHA ROP (ft/hr)
14/14/14/14/14/14	1,009.94	65	81.4

AFE Number T22DC006	
Start Depth (ftKB) 4,956.0	End Depth (ftKB) 5,040.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String Intermediate 1, 4,936.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
1	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
2	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
2,600.0	No	72	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
3	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
2,600.0	No	72	100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Blower Rental	55.00	1.0
DuoVis	222.89	1.0
Energy Surcharge	1.00	74.29
Engineering Service	1,050.00	1.0
Stellar PHPA	79.00	2.0
Tax	1.00	109.21

Safety Checks		
Time	Type	Des
17:45	Pre Tour	Pre Tour Safety Meeting
05:45	Pre Tour	Pre Tour Safety Meeting

Wellbores
 Wellbore Name
 Original Hole

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
Mud Motor - NOV 7:8 5.7 @ 1.83°, 8.25" NBS	1	6 3/4		31.88	NC 50
8" Stabilizer	1	6 3/4	2.88	4.65	NC 50
MWD - Directional	1	6 1/2	3.25	3.20	NC 50
NMDC	1	6 1/2	3.25	29.77	NC 50
NMDC	1	6 3/8	3.25	29.18	NC 50
Drill Collar	6	6 3/4	2.81	180.59	NC 50
HWDP	24	5	3.00	727.59	NC 50
NC 50 Pin x PT43 Box XO Sub	1	6 1/2	3.00	2.08	PT 43

Last Drilling Parameter							
Wellbore Original Hole	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
	4,956.0	5,040.0	84.00	0.50	0.50	168.0	600
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
30	60	2,600.0	165	175	155	9,000.0	4,500.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			105.0				

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Kill Notes

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)

Comment

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)

Comment

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 38.0	Road Condition Poor	Hole Condition Good
Operations at Report Time Drilling 8.75" 2nd Intermediate at 7,645'.		Planned Operations Drill 8 3/4" 2nd Intermediate. Possible Bit Trip	
Operations Summary Drill 8 3/4" 2nd Intermediate From 5,040' to 7,645'.			
Remarks No mud returns from 6,932' to 7,302'.			

Mud Volumes						
Active Volume (bbl) 253.7	Var Active Vol (bbl) 78.4	Balance (bbl) 78.4	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 253.7

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	9.50	9.50	15:30	Drillin g	Drilling Ahead	No			Drill from 5,040' to 6,475'. Slight flow on connections.
15:30	0.50	10.00	16:00	Drillin g	Rig Maintenance	No			Rig Service
16:00	4.00	14.00	20:00	Drillin g	Drilling Ahead	No			Drill from 6,475' to 6,932'. Lost all mud returns. 10.1 ppg.
20:00	1.00	15.00	21:00	Drillin g	Drilling Ahead	No			Removed RH rubber. Aligned plumbing and pumped 60 bbls FW down annulus - could not see fluid. Reinserted RH rubber.
21:00	3.50	18.50	00:30	Drillin g	Drilling Ahead	No			Drilled from 6,932' to 7,302' with no returns. Regained circulation @ 7,302'.
00:30	5.50	24.00	06:00	Drillin g	Drilling Ahead	No			Drilled from 7,302' to 7,645' w/ full returns plus from water flow. Well flowing on connections.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
16:30	Salt Base	6,560.0	9.90	30	3.0	1.000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
1.000	1.000	1.000	100.0	1	10.0	12.0
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
0.0	0.0	88.0	136,000.000			

Daily Mud Volumes			
Tank/Action/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #3, BHA #3, 2nd Intermediate (1st Run)			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
3	8 3/4in, TKC76-T1, A284123	2-3-BT-G-X-0-WT-PP	1.05
Nozzles (1/32")	String Length (ft)	String Wt (1000lbf)	BHA ROP (ft/hr)
14/14/14/14/14/14	1,009.94	65	81.4

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
Mud Motor - NOV 7:8 5.7 @ 1.83°, 8.25" NBS	1	6 3/4		31.88	NC 50
8" Stabilizer	1	6 3/4	2.88	4.65	NC 50
MWD - Directional	1	6 1/2	3.25	3.20	NC 50
NMDC	1	6 1/2	3.25	29.77	NC 50
NMDC	1	6 3/8	3.25	29.18	NC 50
Drill Collar	6	6 3/4	2.81	180.59	NC 50
HWDP	24	5	3.00	727.59	NC 50
NC 50 Pin x PT43 Box XO Sub	1	6 1/2	3.00	2.08	PT 43

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	7,628.0	7,645.0	2,689.00	0.50	23.00	34.0	600
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
35	60	2,700.0	210	225	195	10,000.0	5,500.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			109.0				

AFE Number T22DC006	
Start Depth (ftKB) 5,040.0	End Depth (ftKB) 7,645.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String Intermediate 1, 4,936.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
1	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
2,800.0	No	71	100

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
2	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
2,800.0	No	71	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
3	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
2,800.0	No	71	100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Blower Rental	55.00	1.0
DuoVis	222.89	7.0
Energy Surcharge	1.00	219.71
Engineering Service	1,050.00	1.0
Salt Gel	14.55	25.0
Soda Ash	18.56	11.0
Stellar Defoam A	87.00	8.0
Stellar Pac LV	155.00	3.0
Tax	1.00	322.97

Safety Checks		
Time	Type	Des
17:4	Pre Tour	Pre Tour Safety Meeting
05:4	Pre Tour	Pre Tour Safety Meeting

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Kicks						
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class		
Kill Notes						
Lost Circulation						
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date	
Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						
Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
Comment						
Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 39.0	Road Condition Poor	Hole Condition Good
Operations at Report Time Drilling 8.75" 2nd Intermediate at 8,750'.		Planned Operations Drill 8 3/4" 2nd Intermediate. Bit Trip.	
Operations Summary Drill 8 3/4" 2nd Intermediate From 7,645' to 8,750'.			
Remarks			

Mud Volumes						
Active Volume (bbl) 0.0	Var Active Vol (bbl) -253.7	Balance (bbl) -253.7	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 0.0

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	9.50	9.50	15:30	Drillin g	Drilling Ahead	No			Drilled from 7,645' to 8,159'. Well flowing on connections.
15:30	0.50	10.00	16:00	Drillin g	Rig Maintenance	No			Grease Top Drive, Blocks, Swivel Packing, and Crown. Get SPR's.
16:00	2.00	12.00	18:00	Drillin g	Drilling Ahead	No			Drilled from 8,159' to 8,255'. Well flowing on connections.
18:00	1.00	13.00	19:00	Drillin g	Rig Maintenance	No			Worked on shakers and gas trap.
19:00	11.00	24.00	06:00	Drillin g	Drilling Ahead	No			Drilled from 8,255' to 8,750'. Well flowing on connections.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
17:00	Salt Base	8,200.0	9.80	32	2.0	3.000
Gel 10 sec (lb/100ft²) 1.000	Gel 10 min (lb/100ft²) 1.000	Gel 30 min (lb/100ft²) 1.000	Filtrate (mL/30min) 60.0	Filter Cake (1/32") 1	pH 9.5	Solids (%) 9.5
MBT (lb/bbl)	Percent Oil (%) 0.0	Percent Water (%) 90.5	Chlorides (mg/L) 143,000.000	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #3, BHA #3, 2nd Intermediate (1st Run)			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
3	8 3/4in, TKC76-T1, A284123	2-3-BT-G-X-0-WT-PP	1.05
Nozzles (1/32") 14/14/14/14/14/14/14	String Length (ft) 1,009.94	String Wt (1000lb) 65	BHA ROP (ft/hr) 81.4

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
Mud Motor - NOV 7:8 5.7 @ 1.83°, 8.25" NBS	1	6 3/4		31.88	NC 50
8" Stabilizer	1	6 3/4	2.88	4.65	NC 50
MWD - Directional	1	6 1/2	3.25	3.20	NC 50
NMDC	1	6 1/2	3.25	29.77	NC 50
NMDC	1	6 3/8	3.25	29.18	NC 50
Drill Collar	6	6 3/4	2.81	180.59	NC 50
HWDP	24	5	3.00	727.59	NC 50
NC 50 Pin x PT43 Box XO Sub	1	6 1/2	3.00	2.08	PT 43

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	8,575.0	8,750.0	3,794.00	4.50	45.50	38.9	6,000
WOB (1000lb)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lb)	SO Str Wt (1000lb)	Drilling Torque	Off Btm Tq
35	60	2,700.0	220	245	205	10,000.0	5,500.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			128.0				

BHA #4, BHA #4, 2nd Intermediate (2nd Run)			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
4	8 3/4in, TKC76-T1, A284568	1-2-WT-S-X-0-CT-TD	1.05
Nozzles (1/32") 14/14/14/14/14/14/14	String Length (ft) 1,007.48	String Wt (1000lb) 65	BHA ROP (ft/hr) 56.9

AFE Number T22DC006	
Start Depth (ftKB) 7,645.0	End Depth (ftKB) 8,750.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String Intermediate 1, 4,936.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
1	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
2,700.0	No	71
Eff (%)		
100		

2, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
2	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
2,700.0	No	71
Eff (%)		
100		

3, Rostel, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
3	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
2,700.0	No	71
Eff (%)		
100		

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Blower Rental	55.00	1.0
Calcium Carbonate - M	12.25	20.0
DuoVis	222.89	17.0
Energy Surcharge	1.00	754.08
Engineering Service	1,050.00	1.0
Forklift	110.00	1.0
Fuel Surcharge	1.00	207.0
HyperSeal	47.56	25.0
Mica-Medium	17.89	18.0
Pecan Nut Plug	18.00	60.0
Salt Gel	14.55	150.0
Soda Ash	18.56	41.0
Stellar Defoam A	87.00	14.0
Stellar Pac LV	155.00	5.0
Stellar PHPA	79.00	12.0
Tax	1.00	1,108.5
Trucking	1.00	1,150.0

Safety Checks		
Time	Type	Des
17:45	Pre Tour	Pre Tour Safety Meeting

Well Name: UL 21 WAR-WINK 38-47 C 3H

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
Mud Motor - WBDS 7:8 6.4 @ 1.83°, 8.25" NBS	1	6 3/4		29.42	NC 50
8" Stabilizer	1	6 3/4	2.88	4.65	NC 50
MWD - Directional	1	6 1/2	3.25	3.20	NC 50
NMDC	1	6 1/2	3.25	29.77	NC 50
NMDC	1	6 3/8	3.25	29.18	NC 50
Drill Collar	6	6 3/4	2.81	180.59	NC 50
HWDP	24	5	3.00	727.59	NC 50
NC 50 Pin x PT43 Box XO Sub	1	6 1/2	3.00	2.08	PT 43

Last Drilling Parameter

Wellbore Original Hole	Start Depth (ftKB) 9,149.0	End Depth (ftKB) 9,209.0	Cum Depth (ft) 60.00	Drilling Time (hr) 1.00	Cum Drill Time (hr) 1.00	Interval ROP (ft/hr) 60.0	Flow Rate (gpm) 600
WOB (1000lbf) 35	RPM (rpm) 60	SPP (psi) 2,600.0	Drill Str Wt (1000...) 231	PU Str Wt (1000lbf) 270	SO Str Wt (1000lbf) 210	Drilling Torque 9,500.0	Off Btm Tq 5,500.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F) 134.0	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks

Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Kill Notes

Lost Circulation

Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)

Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)

Comment

Interval Lessons

Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)

Comment

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity

Safety Checks		
Time	Type	Des
05:45	Pre Tour	Pre Tour Safety Meeting

Wellbores

Wellbore Name Original Hole

Wellbore Kick Offs & Key Depths

Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 42.0	Road Condition Poor	Hole Condition Good
Operations at Report Time Drilling 8.75" 2nd Intermediate at 9,209'.		Planned Operations Drill 8 3/4" 2nd Intermediate	
Operations Summary Drilled 8 3/4" 2nd Intermediate From 8,750' to 8,823'. TOOH For BHA. Change BHA. TIH. Drilled 8 3/4" 2nd Intermediate From 8,823' to 9,209'			
Remarks			

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
0.0	0.0	0.0	0.0	0.0	0.0	0.0

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	2.00	2.00	08:00	Drilling	Drilling Ahead	No			Drilled from 8,750' to 8,823'. ROP Averaging 35 FPH. Increase MW From 9.7+ to 10.0+ While Drilling With Slight Losses. Flow Check. Well Static.
08:00	1.00	3.00	09:00	Drilling	Trip	No			TOOH Wet From 8,823' to 7,875' While Building Slug.
09:00	0.50	3.50	09:30	Drilling	Cond Mud & Circ	No			Pump Slug.
09:30	2.50	6.00	12:00	Drilling	Trip	No			TOOH From 7,875' to 1,009'. One Overpull at 7,489'.
12:00	1.00	7.00	13:00	Drilling	Handling BHA	No			Pull Rotating Head. Swap Elevators. TOOH with HWDP and 6.75" Collars From 1,009' to 99'.
13:00	1.00	8.00	14:00	Drilling	Handling BHA	No			LD NMDC. Unlock and Remove MWD. Drain Motor and Break Bit.
14:00	1.50	9.50	15:30	Drilling	Handling BHA	No			Make Up New WBDS 7/8 6.4 Motor at 1.83°. Make Up New Reed TKC 76 T1 Bit With 7x14's. Scribe Motor to UBHO. Install and Lock Down MWD. Pick Up NMDC.
15:30	1.50	11.00	17:00	Drilling	Handling BHA	No			TIH With 6.75 DC's and HWDP From 97' to 1,007'. Tested MWD at 365' - Test Good. Swap Elevators. Pull Trip Nipple and Install Rotating Head.
17:00	2.00	13.00	19:00	Drilling	Trip	No			TIH From 1,007' to 5,012'
19:00	1.00	14.00	20:00	Drilling	Cond Mud & Circ	No			Circulate Bottoms up, condition mud weight until 9.8 In/Out
20:00	1.00	15.00	21:00	Drilling	Trip	No			TIH From 5,012' to 7,500'
21:00	0.50	15.50	21:30	Drilling	Reaming	No			Break Circulation, Wash through tight spot at 7,500' continue wash to 7,600'
21:30	1.00	16.50	22:30	Drilling	Trip	No			TIH From 7,600' to 8,823', Wash down last stand of Drill pipe to bottom @ 8,823'
22:30	7.50	24.00	06:00	Drilling	Drilling Ahead	No			Drilled from 8,823' to 9,209'. Holding back pressure with Orbit Valve while drilling, closing Orbit on connections

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
17:00	Salt Base	8,823.0	10.05	31	3.0	3.000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
1.000	1.000	1.000	50.0	1	9.0	11.5
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	0.0	88.5	143,000.000			

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

AFE Number T22DC006	
Start Depth (ftKB) 8,750.0	End Depth (ftKB) 9,124.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String Intermediate 1, 4,936.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600		
Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi) 2,600.0	Slow Spd No	Strokes (s...) 71
		Eff (%) 100

2, Continental-Emsco, F-1600		
Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

3, Rostel, F-1600		
Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi) 2,600.0	Slow Spd No	Strokes (s...) 71
		Eff (%) 100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	36.0
Blower Rental	55.00	1.0
DuoVis	222.89	14.0
Energy Surcharge	1.00	1,040.5
Engineering Service	1,050.00	1.0
Fuel Surcharge	1.00	234.0
Lime	9.89	20.0
Salt Gel	14.55	90.0
Scale Charge	20.00	1.0
Soda Ash	18.56	20.0
Stellar Defoam A	87.00	6.0
Stellar Pac LV	155.00	12.0
Stellar PHPA	79.00	4.0
Tax	1.00	1,529.53
Tex Xan	218.00	7.0
Trucking	1.00	1,300.0

Safety Checks		
Time	Type	Des
17:45	Pre Tour	Pre Tour Safety Meeting

Well Name: UL 21 WAR-WINK 38-47 C 3H

Drill Strings							
BHA #3, BHA #3, 2nd Intermediate (1st Run)							
Bit Run	Drill Bit	IADC Bit Dull			TFA (incl Noz) (in ²)		
3	8 3/4in, TKC76-T1, A284123	2-3-BT-G-X-0-WT-PP			1.05		
Nozzles (1/32")		String Length (ft)	String Wt (1000lbf)	BHA ROP (ft/hr)			
14/14/14/14/14/14/14		1,009.94	65	81.4			
Drill String Components							
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread		
Mud Motor - NOV 7:8 5.7 @ 1.83°, 8.25" NBS	1	6 3/4		31.88	NC 50		
8" Stabilizer	1	6 3/4	2.88	4.65	NC 50		
MWD - Directional	1	6 1/2	3.25	3.20	NC 50		
NMDC	1	6 1/2	3.25	29.77	NC 50		
NMDC	1	6 3/8	3.25	29.18	NC 50		
Drill Collar	6	6 3/4	2.81	180.59	NC 50		
HWDP	24	5	3.00	727.59	NC 50		
NC 50 Pin x PT43 Box XO Sub	1	6 1/2	3.00	2.08	PT 43		
Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	8,750.0	8,823.0	3,867.00	2.00	47.50	36.5	600
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
35	60	2,600.0	220	350	205	8,500.0	5,500.0
Q Gas Inj (ft ³ /min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			134.0				
BHA #4, BHA #4, 2nd Intermediate (2nd Run)							
Bit Run	Drill Bit	IADC Bit Dull			TFA (incl Noz) (in ²)		
4	8 3/4in, TKC76-T1, A284568	1-2-WT-S-X-0-CT-TD			1.05		
Nozzles (1/32")		String Length (ft)	String Wt (1000lbf)	BHA ROP (ft/hr)			
14/14/14/14/14/14/14		1,007.48	65	56.9			
Drill String Components							
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread		
Mud Motor - WBDS 7:8 6.4 @ 1.83°, 8.25" NBS	1	6 3/4		29.42	NC 50		
8" Stabilizer	1	6 3/4	2.88	4.65	NC 50		
MWD - Directional	1	6 1/2	3.25	3.20	NC 50		
NMDC	1	6 1/2	3.25	29.77	NC 50		
NMDC	1	6 3/8	3.25	29.18	NC 50		
Drill Collar	6	6 3/4	2.81	180.59	NC 50		
HWDP	24	5	3.00	727.59	NC 50		
NC 50 Pin x PT43 Box XO Sub	1	6 1/2	3.00	2.08	PT 43		
Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	8,823.0	9,124.0	361.00	4.50	5.50	66.9	600
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
35	60	2,600.0	231	270	210	9,500.0	5,500.0
Q Gas Inj (ft ³ /min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			134.0				
Kicks							
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class			
Kill Notes							
Lost Circulation							
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date		
Interval Problems (NPT)							
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)	
Comment							
Interval Lessons							
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)	
Comment							
Safety Incidents							
Time	Category	Type	Subtype	Cause	Lost time?	Severity	

Safety Checks		
Time	Type	Des
05:4	Pre Tour	Pre Tour
5		Safety Meeting
Wellbores		
Wellbore Name		
Original Hole		
Wellbore Kick Offs & Key Depths		
Type	Top Depth (ftKB)	
Kick Off	10,855.0	
Heel	11,760.0	

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 42.0	Road Condition Poor	Hole Condition Good
Operations at Report Time Drilling 8.75" 2nd Intermediate at 10,607'.		Planned Operations Drill 8 3/4" 2nd Intermediate to +/- 10,725. Circulate Sweep Around. TOOH. LD BHA. RU and Run 7 5/8" Casing.	

Operations Summary
Drilled 8 3/4" 2nd Intermediate From 9,209' to 10,607'.

Remarks

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
342.9	342.9	342.9	0.0	0.0	0.0	342.9

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	10.00	10.00	16:00	Drillin g	Drilling Ahead	No			Drilled from 9,209' to 9,877'. Holding back pressure with Orbit Valve while drilling, closing Orbit on connections
16:00	0.50	10.50	16:30	Drillin g	Rig Maintenance	No			Grease Top Drive, Blocks, and Swivel Packing. Check Fluid Levels. Get SPR's.
16:30	13.50	24.00	06:00	Drillin g	Drilling Ahead	No			Drilled from 9,877' to 10,607'. Holding back pressure with Orbit Valve while drilling, closing Orbit on connections

Daily Mud Checks							
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lbf/100ft²)	
16:30	Salt Base	9,910.0	9.85	33	3.0	3.000	
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Gel 30 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)	
1.000	1.000	1.000	40.0	1	10.0	10.0	
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)	
0.0	0.0	90.0	145,000.000				

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #4, BHA #4, 2nd Intermediate (2nd Run)			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
4	8 3/4in, TKC76-T1, A284568	1-2-WT-S-X-0-CT-TD	1.05
Nozzles (1/32")	String Length (ft)	String Wt (1000lbf)	BHA ROP (ft/hr)
14/14/14/14/14/14/14	1,007.48	65	56.9

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
Mud Motor - WBDS 7:8 6.4 @ 1.83°, 8.25" NBS	1	6 3/4		29.42	NC 50
8" Stabilizer	1	6 3/4	2.88	4.65	NC 50
MWD - Directional	1	6 1/2	3.25	3.20	NC 50
NMDC	1	6 1/2	3.25	29.77	NC 50
NMDC	1	6 3/8	3.25	29.18	NC 50
Drill Collar	6	6 3/4	2.81	180.59	NC 50
HWDP	24	5	3.00	727.59	NC 50
NC 50 Pin x PT43 Box XO Sub	1	6 1/2	3.00	2.08	PT 43

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	9,877.0	10,607.0	1,784.00	13.50	31.00	54.1	600
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
35	60	2,780.0	258	230	9,000.0	5,500.0	
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			138.0				

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
Kill Notes				

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

AFE Number T22DC006	
Start Depth (ftKB) 9,209.0	End Depth (ftKB) 10,607.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String Intermediate 1, 4,936.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
1	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
2,780.0	No	73
		Eff (%)
		100

2, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
2	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
2,780.0	No	72
		Eff (%)
		100

3, Rostel, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
3	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Blower Rental	55.00	1.0
Energy Surcharge	1.00	759.8
Engineering Service	1,050.00	1.0
Fuel Surcharge	1.00	468.0
Lime	9.89	34.0
Restocking Fee	1.05	87.0
Salt Gel	14.55	20.0
Scale Charge	20.00	2.0
Soda Ash	18.56	15.0
Stellar Defoam A	87.00	4.0
Stellar Pac LV	155.00	26.0
Stellar PHPA	79.00	2.0
Tax	1.00	1,116.91
Tex Xan	218.00	25.0
Trucking	1.00	2,600.00

Safety Checks		
Time	Type	Des
17:4	Pre Tour	Pre Tour Safety Meeting
05:4	Pre Tour	Pre Tour Safety Meeting

Well Name: UL 21 WAR-WINK 38-47 C 3H

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Wellbores	
Wellbore Name	
Original Hole	

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 30.0	Road Condition Poor	Hole Condition Good
Operations at Report Time Running 7 5/8" Casing at 540'.		Planned Operations Run 7 5/8" Casing to 10,708'. Circulate Prior to Cementing. Cement Casing. Install and Test Packoff.	

Operations Summary
Drilled 8 3/4" 2nd Intermediate From 10,607' to 10,728'. Circulated Sweep Around. Short Trip. Circulated Hole Clean. TOO. LD BHA. RU Casing Crew. Run 7 5/8" Casing From Surface to 540'.

Remarks
Notified Gabby with TRRC of Intent to Run and Cement 7 5/8" Casing at 15:00 on 1/12/2023.

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
346.6	3.6	3.6	0.0	0.0	0.0	346.6

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	2.50	2.50	08:30	Drilling	Drilling Ahead	No			Drilled from 10,607' to 10,728'. Holding back pressure with Orbit Valve while drilling, closing Orbit on connections
08:30	1.50	4.00	10:00	Drilling	Cond Mud & Circ	No			Pump High Vis Sweep and Circulate Around. Increase MW to 10.2 ppg
10:00	1.50	5.50	11:30	Drilling	Wiper/Condition Trip	No			Short Trip Out Wet to 8,731'. Filling Hole Through Kill Line with Calculated Strokes. Hole Slick.
11:30	1.00	6.50	12:30	Drilling	Wiper/Condition Trip	No			Short Trip In to 10,672'. Hole Slick. Fill Pipe and Wash to Bottom. No Fill.
12:30	2.00	8.50	14:30	Drilling	Cond Mud & Circ	No			Raise MW to 10.3 ppg - began losing fluid (75 bbl Losses). Flow Check, Well Static. Pump Slug.
14:30	2.00	10.50	16:30	Drilling	Trip	No			TOOH From 10,728' to 7,400'. Filling Hole With Trip Tank and Orbit Valve Closed.
16:30	1.50	12.00	18:00	Drilling	RU Support Equipment	No			Rotating Head Gasket Leaking. Replace Gasket. Pump Out Cellar.
18:00	2.00	14.00	20:00	Drilling	Trip	No			TOOH From 7,400' to 4,893' holding 40 psi annular pressure to keep from flowing.
20:00	1.00	15.00	21:00	Drilling	Cond Mud & Circ	No			Pump 60 bbl 11.5 ppg mud down annulus. Pressure dropped from 40 psi to 0.
21:00	3.00	18.00	00:00	Drilling	Trip	No			TOOH From 4893' to 1,039' Pull Rotating head rubber, Install Trip Nipple, Swap out elevators @ HWDP. Continue TOO to 277'
00:00	1.00	19.00	01:00	Drilling	Trip	No			Lay Down 6" Drill Collars, From 277' to 97'
01:00	1.00	20.00	02:00	Drilling	Handling BHA	No			LD NMDC. Unlock and Remove MWD. Drain Motor and Break Bit.
02:00	0.50	20.50	02:30	Drilling	RD Support Equipment	No			Swap Out Elevators, Pull Wear Bushing
02:30	1.50	22.00	04:00	Drilling	RU Support Equipment	No			PJSM, Rig Up Butch's Casing Crew Equipment
04:00	1.00	23.00	05:00	Drilling	Run CSG	No			Make Up Shoe, 2 Joints 7 5/8" Casing, and Float Collar. Thread Locked to Top of Float Collar. Test Floats. Function Annular.
05:00	1.00	24.00	06:00	Drilling	Run CSG	No			Run 7 5/8" 29.7# P110 HC Cobra SP Casing From Surface to 540'.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
17:00	Salt Base	10,728.0	10.35	33	5.0	4.000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
1.000	1.000	1.000	40.0	1	9.5	14.0
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	0.0	86.0	151,000.000			

AFE Number T22DC006	
Start Depth (ftKB)	End Depth (ftKB)
10,607.0	10,728.0
Target Formation Wolfcamp	Target Depth (ftKB)
	22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
1	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
2	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
2,800.0	No	72	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
3	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
2,800.0	No	72	100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	21.48
Blower Rental	55.00	1.0
Energy Surcharge	1.00	601.14
Engineering Service	1,050.00	1.0
Lime	9.89	8.0
Salt Gel	14.55	10.0
Soda Ash	18.56	20.0
Stellar Defoam A	87.00	5.0
Stellar Pac LV	155.00	5.0
Stellar PHPA	79.00	3.0
Tax	1.00	883.68
Tex Xan	218.00	17.0

Safety Checks		
Time	Type	Des
17:45	Pre Tour	Pre Tour Safety Meeting
03:45	PJSM	PJSM on Running Casing
05:45	Pre Tour	Pre Tour Safety Meeting

Wellbores	
Wellbore Name	Original Hole

Well Name: UL 21 WAR-WINK 38-47 C 3H

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Drill Strings			
BHA #4, BHA #4, 2nd Intermediate (2nd Run)			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in ²)
4	8 3/4in, TKC76-T1, A284568	1-2-WT-S-X-0-CT-TD	1.05
Nozzles (1/32")		String Length (ft)	String Wt (1000lbf)
14/14/14/14/14/14		1,007.48	65
			BHA ROP (ft/hr)
			56.9

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
Mud Motor - WBDS 7:8 6.4 @ 1.83°, 8.25" NBS	1	6 3/4		29.42	NC 50
8" Stabilizer	1	6 3/4	2.88	4.65	NC 50
MWD - Directional	1	6 1/2	3.25	3.20	NC 50
NMDC	1	6 1/2	3.25	29.77	NC 50
NMDC	1	6 3/8	3.25	29.18	NC 50
Drill Collar	6	6 3/4	2.81	180.59	NC 50
HWDP	24	5	3.00	727.59	NC 50
NC 50 Pin x PT43 Box XO Sub	1	6 1/2	3.00	2.08	PT 43

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	10,607.0	10,728.0	1,905.00	2.50	33.50	48.4	600
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
35	60	2,800.0	258	285	230	10,000.0	6,000.0
Q Gas Inj (ft ³ /min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			138.0				

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Kill Notes

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Partly Cloudy	Temperature (°F) 36.0	Road Condition Poor	Hole Condition Good
Operations at Report Time RD Cement Equipment		Planned Operations Back Out Landing Joint. Install and Test Packoff. Release Rig to UL 21 War-Wink 38-47 2H.	

Operations Summary
 Run 7 5/8" Casing From 540' to 10,708'. Circulate Prior to Cementing. Cement Casing.

Remarks

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
0.0	-346.6	-346.6	0.0	0.0	0.0	0.0

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	7.50	7.50	13:30	Drillin g	Run CSG	No			Run 7 5/8" Cobra SP 29.7# P-110HC Casing From 540' to 6,236'. No Returns. Fill Pipe With Calculated Volume Every 30 Joints.
13:30	4.00	11.50	17:30	Drillin g	Rig Downtime	No			Troubleshoot Catwalk Skate. Wait on Solenoid. Replace Solenoid.
17:30	0.50	12.00	18:00	Drillin g	Run CSG	No			Run 7 5/8" Cobra SP 29.7# P-110HC Casing From 6,236' to 6,561'. Well flowing @ 2 bbl/min
18:00	1.00	13.00	19:00	Drillin g	Cond Mud & Circ	No			Pump 70 BBLs, 12.0 ppg mud down annulus.
19:00	4.50	17.50	23:30	Drillin g	Run CSG	No			Run 7 5/8" Cobra SP 29.7# P-110HC Casing From 6,561' to 10,708'. Land Casing Hanger in Wellhead. Shoe Set at 10,708'. Top of FC at 10,620'. Total of 258 Joints in String.
23:30	1.00	18.50	00:30	Drillin g	Cond Mud & Circ	No			Rig Down Casing Crew. Hold PJSM with American Cement and Precision. Rig Down CRT and Install Cement Head and Iron.
00:30	4.00	22.50	04:30	Drillin g	Cementing	No			Test Lines To 6,000 PSI. Pump 30 BBLs Spacer at 10.5 ppg at 5 BPM. Mix and Pump 136 BBLs (257 sks) 11.0 ppg Class C Lead Cement at 5 BPM. Yield of 2.97 ft3/sk. Mix and Pump 61 BBLs (294 sks) 14.2 ppg Class H Tail Cement at 5 BPM. Yield of 1.17 ft3/sk. Released Top Plug. Displaced With 488 BBLs FW + Biocide + Corrosion Inhibitor at 5 BPM. Bumped Plug From 1,800 to 2,460 PSI at 4.0 BPM. Bled Back 4.5 BBLs. Floats Held. No Returns.
04:30	1.50	24.00	06:00	Drillin g	Cementing	No			Tie Cement Lines Into Kill Line. Close Annular. Mix and Pump 68 BBLs (289 sks) 14.8 ppg Class H Cement Down Backside. Chase with 20 BBLs 10.0 ppg mud.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
17:30	Salt Base	10,728.0	10.00	31	4.0	3.000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
1.000	1.000	1.000	64.0	1	9.5	11.0
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
0.0	0.0	89.0	150,000.000			

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

AFE Number T22DC006	
Start Depth (ftKB) 10,728.0	End Depth (ftKB) 10,728.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600			
Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

2, Continental-Emsco, F-1600			
Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

3, Rostel, F-1600			
Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	22.18
Blower Rental	55.00	1.0
Energy Surcharge	1.00	488.46
Engineering Service	1,050.00	1.0
Fuel Surcharge	1.00	444.8
Scale Charge	20.00	2.0
Soda Ash	18.56	3.0
Tax	1.00	575.46
Trucking	1.00	2,065.0

Safety Checks		
Time	Type	Des
17:45	Pre Tour	Pre Tour
5	Pre Tour	Safety Meeting
05:45	Pre Tour	Pre Tour
5	Pre Tour	Safety Meeting

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Drill Strings							
BHA #<stringno>, <des>							
Bit Run	Drill Bit	IADC Bit Dull			TFA (incl Noz) (in ²)		
Nozzles (1/32")				String Length (ft)	String Wt (1000lbf)	BHA ROP (ft/hr)	
Drill String Components							
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread		
Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft ³ /min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...
Kicks							
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class			
Kill Notes							
Lost Circulation							
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date		
Interval Problems (NPT)							
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)	
Comment							
Interval Lessons							
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)	
Comment							
Safety Incidents							
Time	Category	Type	Subtype	Cause	Lost time?	Severity	

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 63.0	Road Condition Poor	Hole Condition Good
Operations at Report Time Suspended Ops		Planned Operations	

Operations Summary
 Back Out Landing Joint. Install and Test Packoff. ND BOPs. Install TA Cap. Release Rig to UL 21 War-Wink 38-47 2H.

Remarks
 Rig Released to UL 21 War-Wink 38-47 2H at 12:00 on 1/14/2023.

Mud Volumes

Active Volume (bbl) 0.0	Var Active Vol (bbl) 0.0	Balance (bbl) 0.0	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 0.0
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Daily Time Log

Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	1.50	1.50	07:30	Drilling	Rig up / Tear Down	No			Rig Down Cement Head and Lines. Back Out Landing Joint. Flush Through Choke Manifold.
07:30	1.50	3.00	09:00	Drilling	RU Support Equipment	No			Pick Up Cactus Packoff Run In Wellhead. Test Top Seals to 10K. Perform 40K Overpull Test. Test Bottom Seals to 5K. Verified By ACR. Lay Out Running Tool.
09:00	1.50	4.50	10:30	Drilling	NU/ND	No			Loosen Turnbuckles. Close Bottom Rams on BOP Mandrel. Break Quick Attach Pins. Lift Stack.
10:30	1.50	6.00	12:00	Drilling	NU/ND	No			Install Cactus TA Cap. Release Rig to UL 21 War-Wink 38-47 2H at 12:00 on 1/14/2023.

Daily Mud Checks

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lbf/100ft²)
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Gel 30 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)

Daily Mud Volumes

Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings

BHA #<stringno>, <des>

Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
Nozzles (1/32")		String Length (ft)	String Wt (1000lbf)
		BHA ROP (ft/hr)	

Drill String Components

Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread

Last Drilling Parameter

Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks

Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
Kill Notes				

Lost Circulation

Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date
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Interval Problems (NPT)

Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						

AFE Number T22DC006	
Start Depth (ftKB) 10,728.0	End Depth (ftKB) 10,728.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts

Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs

Precision Drilling, 553

Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600

Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

2, Continental-Emsco, F-1600

Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

3, Rostel, F-1600

Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

Mud Additive Amounts

Des	Field Est (Cost/unit)	Consumed
Energy Surcharge	1.00	-
		1,637.45
Energy Surcharge	1.00	85.2
SAPP Sticks	10.00	72.0
Shrink Wrap	22.00	12.0
Soap Sticks	10.00	72.0
Tax	1.00	125.24

Safety Checks

Time	Type	Des

Wellbores

Wellbore Name
Original Hole

Wellbore Kick Offs & Key Depths

Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Partly Cloudy	Temperature (°F) 51.0	Road Condition Good	Hole Condition Good
Operations at Report Time Test BOP	Planned Operations Finish Testing BOP,PU BHA. TIH. Test Casing. Drill Shoe Track.Perform FIT, Drill to KOP, Build Curve		

Operations Summary
Walk Rig From UL 21 War-Wink 38-47 2H. NU BOPs., Test BOP

Remarks
Operations Resumed at 00:00 hrs on 3/8/2023.

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
0.0	0.0	0.0	0.0	0.0	0.0	0.0

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
00:00	1.50	1.50	01:30	Drillin g	Walk Rig	No			Walk Rig from UL 21 War Wink 38-47 2H
01:30	1.50	3.00	03:00	Drillin g	NU/ND	No			Remove TA Cap on 3H. Nipple Up BOPs, Install Test plug
03:00	3.00	6.00	06:00	Drillin g	Pressure Test	No			Pressure Test BOPs, floor valves and choke manifold to 250/5000 psi, Test Annular to 250/3500 psi. Pressure Test Back to pumps 250/5000 psi. Remove Test Plug

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lbf/100ft²)
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Gel 30 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #<stringno>, <des>			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
Nozzles (1/32")		String Length (ft)	String Wt (1000lbf)
		BHA ROP (ft/hr)	

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Kill Notes

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)

Comment

AFE Number T22DC006	
Start Depth (ftKB) 10,728.0	End Depth (ftKB) 10,728.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600		
Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

2, Continental-Emsco, F-1600		
Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

3, Rostel, F-1600		
Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed

Safety Checks		
Time	Type	Des
05:4	Safety Meeting	Pre-Tour Safety Meeting

Wellbores
Wellbore Name
Original Hole

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Partly Cloudy	Temperature (°F) 48.0	Road Condition Good	Hole Condition Good
Operations at Report Time Performing FIT		Planned Operations Drill 6.75" Curve	
Operations Summary Test BOPs. Install Wear Bushing. Rig Up Back Yard. PU BHA. TIH. Test Casing. Drill Shoe Track. Perform FIT.			
Remarks			

Mud Volumes						
Active Volume (bbl) 0.0	Var Active Vol (bbl) 0.0	Balance (bbl) 0.0	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 0.0

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	2.50	2.50	08:30	Drilling	Pressure Test	No			Pressure Test BOPs, floor valves and choke manifold to 250/5000 psi, Test Annular to 250/3500 psi. Pressure Test Back to pumps 250/5000 psi. Rig Down Testers. Remove Test Plug
08:30	0.50	3.00	09:00	Drilling	RU Support Equipment	No			Install Wear Bushing. Close Top Casing Valve.
09:00	0.50	3.50	09:30	Drilling	Rig Maintenance	No			Remove Swivel Packing and Inspect Top Drive End Play.
09:30	5.00	8.50	14:30	Drilling	RU Support Equipment	No			Set in Dryer Shakers. Install Flare and Panic Line. Rig Up Back Yard. Lay Out BHA.
14:30	0.50	9.00	15:00	Drilling	RU Support Equipment	No			Center and Level Rig.
15:00	3.50	12.50	18:30	Drilling	Handling BHA	No			Pick Up WBDS 6/7 8.8 Motor at 1.83° FBH (.66 RPG), UBHO, NM Stab, and NMDC. Scribe Motor to UBHO. Install and Lock Down MWD. Make Up Halliburton GTD64DM W/ 6x12's (.66 TFA). Make Up NMDC and XO. Test BHA - Test Good.
18:30	6.00	18.50	00:30	Drilling	Trip	No			Trip in the hole from 98' to 2103'. Test prior to and after picking up Agitator. Pressure drop across Agitator: 250 psi. Continue to TIH to 10,525'
00:30	1.00	19.50	01:30	Drilling	Pressure Test	No			Fill Pipe, Test Casing to 2000 psi for 30 minutes
01:30	1.50	21.00	03:00	Drilling	Cut off Drill Line	No			Slip and Cut Drilling Line
03:00	2.50	23.50	05:30	Drilling	Drilling Ahead	No			Perform Drill Out operations. Displace with OBM. Tag Cement at 10525', Tagged Float Collar at 10,620', Shoe at 10,708'. Dress Rat Hole to 10728'
05:30	0.50	24.00	06:00	Drilling	Pressure Test	No			Circulate Trough Gas Buster. Perform F.I.T. to 13.5 ppg EMW with 11.1# Mud + 1,330 PSI.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lbf/100ft²)
17:00	Oil Base	10,728.0	11.30	65	19.0	12.000
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Gel 30 min (lbf/100ft²)	Filterate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
8.000	10.000	13.000				19.7
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	63.8	16.5	50,000.000			501.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #<stringno>, <des>			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
Nozzles (1/32")		String Length (ft)	String Wt (1000lb)
		BHA ROP (ft/hr)	

AFE Number T22DC006	
Start Depth (ftKB) 10,728.0	End Depth (ftKB) 10,728.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
1	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
2	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

3, Rostel, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
3	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Blower Rental	55.00	1.0
Energy Surcharge	1.00	430.22
Engineering Service	1,050.00	1.0
Forklift	110.00	1.0
Fuel Surcharge	1.00	189.75
OBM Rental	3.00	1,903.00
Tax	1.00	608.58
Trucking	1.00	1,150.00

Safety Checks		
Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
05:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Drill String Components							
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread		
Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...
Kicks							
Kick Date	Kick Depth (ftKB)	Control Date		Control Depth (ftKB)	Kick Class		
Kill Notes							
Lost Circulation							
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date		
Interval Problems (NPT)							
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)	
Comment							
Interval Lessons							
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)	
Comment							
Safety Incidents							
Time	Category	Type	Subtype	Cause	Lost time?	Severity	

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 46.0	Road Condition Good	Hole Condition Good
Operations at Report Time Drilling 6.75" Curve at 11,712'.		Planned Operations Drill 6.75" Curve. Drill 6.75" Lateral. Possible Bit Trip.	
Operations Summary Drill to KOP at 10,855'. Drill 6 3/4" Curve From 10,855' to 11,712'.			
Remarks New Drill Target Line: 11,393' TVD @ 0' VS; 91.64°.			

Mud Volumes						
Active Volume (bbl) 260.7	Var Active Vol (bbl) 260.7	Balance (bbl) 260.7	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 260.7

Daily Time Log										
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com	
06:00	3.00	3.00	09:00	Drilling	Drilling Ahead	No			Drill From 10,728' to KOP at 10,855'.	
09:00	21.00	24.00	06:00	Drilling	Drilling Ahead	No			Drill Curve From 10,855' to 11,712'. Increase MW to 11.7#.	

Daily Mud Checks						
Time 17:00	Type Oil Base	Depth (ftKB) 11,140.0	Density (lb/gal) 11.00	Funnel Viscosity (s/qt) 64	PV Calc (cP) 18.0	YP Calc (lbf/100ft²) 11.000
Gel 10 sec (lbf/100ft²) 7.000	Gel 10 min (lbf/100ft²) 10.000	Gel 30 min (lbf/100ft²) 12.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 19.0
MBT (lb/bbl)	Percent Oil (%) 63.5	Percent Water (%) 17.5	Chlorides (mg/L) 48,000.000	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V) 548.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #5, BHA #5 Production Curve			
Bit Run 5	Drill Bit 6 3/4in, GTD63DM, 13297358	IADC Bit Dull 1-2-WT-S-X-0-WT-PR	TFA (incl Noz) (in²) 0.66
Nozzles (1/32") 12/12/12/12/12/12		String Length (ft) 2,134.21	BHA ROP (ft/hr) 41.0

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
5" 1.83° 6/7 8.8 W/ 6 1/4" NBS Stab (FBH)	1	5		30.65	XT 39
MWD UBHO	1	5 1/4	2.75	3.05	XT 39
Stabilizer - Non Mag	1	5	2.50	3.43	XT 39
NMDC	1	5 1/4	2.75	31.12	XT 39
NMDC	1	5 1/4	2.75	31.27	XT 39
XO Sub	1	5	2.38	2.85	Ptech 43
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43
XO Sub	1	5	2.81	3.38	XT 39
Agitator	1	5	2.00	23.08	XT 39
XO Sub	1	5	2.81	3.47	Ptech 43

Last Drilling Parameter							
Wellbore Original Hole	Start Depth (ftKB) 11,682.0	End Depth (ftKB) 11,712.0	Cum Depth (ft) 984.00	Drilling Time (hr) 1.00	Cum Drill Time (hr) 24.00	Interval ROP (ft/hr) 30.0	Flow Rate (gpm) 350
WOB (1000lbf) 35	RPM (rpm) 0	SPP (psi) 4,500.0	Drill Str Wt (1000...) 202	PU Str Wt (1000lbf) 240	SO Str Wt (1000lbf) 200	Drilling Torque 0.0	Off Btm Tq 0.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F) 150.0	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
Kill Notes				

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

AFE Number T22DC006	
Start Depth (ftKB) 10,728.0	End Depth (ftKB) 11,712.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600			
Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

2, Continental-Emsco, F-1600			
Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi) 4,500.0	Slow Spd No	Strokes (s...) 60	Eff (%) 100

3, Rostel, F-1600			
Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi) 4,500.0	Slow Spd No	Strokes (s...) 60	Eff (%) 100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Blower Rental	55.00	1.0
Calcium Chloride	19.45	21.0
Energy Surcharge	1.00	217.51
Engineering Service	1,050.00	1.0
Lime	9.89	25.0
Stellar Mul P Gal	16.89	50.0
Stellar Mul S Gal	17.45	100.0
Tax	1.00	319.74

Safety Checks		
Time	Type	Des
17:4	Safety Meeting	Pre-Tour Safety Meeting
05:4	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)

Comment

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)

Comment

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 49.0	Road Condition Good	Hole Condition Good
Operations at Report Time Drilling 6 3/4" Lateral at 12,746'		Planned Operations Drill 6.75" Lateral. Possible Bit Trip.	
Operations Summary Drill 6 3/4" Curve From 11,712' to 11,760'. Drill 6 3/4" Lateral From 11,760' to 12,746'.			
Remarks			

Mud Volumes						
Active Volume (bbl) 281.3	Var Active Vol (bbl) 20.7	Balance (bbl) 20.7	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 281.3

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	1.00	1.00	07:00	Drilling	Drilling Ahead	No			Drill 6 3/4" Curve From 11,712' to 11,760'.
07:00	9.00	10.00	16:00	Drilling	Drilling Ahead	No			Drill 6 3/4" Lateral From 11,760' to 12,237'. Increase MW to 11.9#.
16:00	0.50	10.50	16:30	Drilling	Rig Maintenance	No			Rig Service. Grease Top Drive, Swivel Packing, and Blocks. Check Fluid Levels. Get SPR's.
16:30	13.50	24.00	06:00	Drilling	Drilling Ahead	No			Drill 6 3/4" Lateral From 12,237' to 12,746'.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
16:00	Oil Base	12,230.0	11.90	65	23.0	12.000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filterate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
8.000	10.000	13.000				22.2
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	60.5	17.5	50,000.000			519.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #5, BHA #5 Production Curve			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
5	6 3/4in, GTD63DM, 13297358	1-2-WT-S-X-0-WT-PR	0.66
Nozzles (1/32")	String Length (ft)	String Wt (1000lb)	BHA ROP (ft/hr)
12/12/12/12/12/12	2,134.21	41	41.0

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
5" 1.83° 6/7 8.8 W/ 6 1/4" NBS Stab (FBH)	1	5		30.65	XT 39
MWD UBHO	1	5 1/4	2.75	3.05	XT 39
Stabilizer - Non Mag	1	5	2.50	3.43	XT 39
NMDC	1	5 1/4	2.75	31.12	XT 39
NMDC	1	5 1/4	2.75	31.27	XT 39
XO Sub	1	5	2.38	2.85	Ptech 43
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43
XO Sub	1	5	2.81	3.38	XT 39
Agitator	1	5	2.00	23.08	XT 39
XO Sub	1	5	2.81	3.47	Ptech 43

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	12,721.0	12,746.0	2,018.00	1.00	47.50	25.0	350
WOB (1000lb)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lb)	SO Str Wt (1000lb)	Drilling Torque	Off Btm Tq
35	0	4,580.0	205	240	200	0.0	0.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			168.0				

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Kill Notes		

AFE Number T22DC006	
Start Depth (ftKB) 11,712.0	End Depth (ftKB) 12,746.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
1	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,700.0	No	60	100

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
2	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,700.0	No	60	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
3	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite	16.00	40.0
Barite Bulk	248.00	50.0
Blower Rental	55.00	1.0
Calcium Chloride	19.45	35.0
Energy Surcharge	1.00	1,139.2
Engineering Service	1,050.00	1.0
Fuel Surcharge	1.00	429.0
Lime	9.89	50.0
Rig Wash	535.00	1.0
Scale Charge	20.00	2.0
Stellar Mul OW gal	17.00	25.0
Stellar Mul P Gal	16.89	100.0
Stellar Mul S Gal	17.45	100.0
Tax	1.00	1,674.53
Trucking	1.00	2,600.0

Safety Checks		
Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
05:45	Safety Meeting	Pre-Tour Safety Meeting

Well Name: UL 21 WAR-WINK 38-47 C 3H

Lost Circulation

Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date
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Interval Problems (NPT)

Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
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Comment

Interval Lessons

Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
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Comment

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity

Wellbores

Wellbore Name
Original Hole

Wellbore Kick Offs & Key Depths

Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Partly Cloudy	Temperature (°F) 58.0	Road Condition Good	Hole Condition Good
Operations at Report Time Reaming Curve at 11,403'		Planned Operations TIH. Drill 6.75" Lateral.	
Operations Summary Drill 6 3/4" Lateral From 12,746' to 12,902'. Circulate to TOOH. TOOH. Change BHA. TIH. Ream Curve From 10,855' to 11,403'.			
Remarks			

Mud Volumes						
Active Volume (bbl) 284.5	Var Active Vol (bbl) 3.1	Balance (bbl) 3.1	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 284.5

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	5.50	5.50	11:30	Drillin g	Drilling Ahead	No			Drill 6 3/4" Lateral From 12,746' to 12,902'. Increase MW to 12.1#. ROP Below 30 Ft/Hr.
11:30	0.50	6.00	12:00	Drillin g	Cond Mud & Circ	No			Circulate To TOOH. Pump Slug.
12:00	6.50	12.50	18:30	Drillin g	Trip	No			TOOH From 12,902' to 102'. Break off bit, LD WBD Motor. Hole Slick. Fill as Calculated.
18:30	2.50	15.00	21:00	Drillin g	Handling BHA	No			Pick Up NOV 6/7 8.8 Motor at 1.83° FBH (.58 RPG), UBHO, NM Stab, and NMDC. Scribe Motor to UBHO. Install and Lock Down MWD. Make Up Reed TKC-63 S-1 W/ 6x12's (.66 TFA). Make Up NMDC and XO. Test BHA - Test Good.
21:00	7.50	22.50	04:30	Drillin g	Trip	No			Trip in the hole from 103' to 2,103'. Test prior to and after picking up Agitator. Pressure drop across Agitator: 250 psi. Continue to TIH to 10,855'. Pull Trip Nipple and Install Rotating Head. Lost 1 Hour Due to Daylight Savings Time.
04:30	1.50	24.00	06:00	Drillin g	Reaming	No			Fill pipe, Ream Curve From 10,855' to 11,403'. 320 GPM, 3500 PSI, 30 RPM, 5K TQ. Bottoms up from the top of the curve had 20 bbl temporary gain with 20 - 25' flare - no H2S readings.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lbf/100ft²)
16:30	Oil Base	12,902.0	12.15	66	24.0	14.000
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Gel 30 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
9.000	12.000	14.000				23.5
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	60.0	16.5	53,000.000			488.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #5, BHA #5 Production Curve			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
5	6 3/4in, GTD63DM, 13297358	1-2-WT-S-X-0-WT-PR	0.66
Nozzles (1/32")	String Length (ft)	String Wt (1000lbf)	BHA ROP (ft/hr)
12/12/12/12/12/12	2,134.21	41	41.0

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
5" 1.83° 6/7 8.8 W/ 6 1/4" NBS Stab (FBH)	1	5		30.65	XT 39
MWD UBHO	1	5 1/4	2.75	3.05	XT 39
Stabilizer - Non Mag	1	5	2.50	3.43	XT 39
NMDC	1	5 1/4	2.75	31.12	XT 39

AFE Number T22DC006	
Start Depth (ftKB) 12,746.0	End Depth (ftKB) 12,902.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
1	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,500.0	No	60	100

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
2	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,500.0	No	60	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
3	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,500.0	No	60	100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	44.57
Blower Rental	55.00	1.0
Calcium Chloride	19.45	38.0
Energy Surcharge	1.00	892.6
Engineering Service	1,050.00	1.0
Fuel Surcharge	1.00	214.5
Scale Charge	20.00	1.0
Stellar Mul P Gal	16.89	125.0
Stellar Mul S Gal	17.45	75.0
Tax	1.00	1,312.12
Trucking	1.00	1,300.0

Safety Checks		
Time	Type	Des
17:4	Safety Meeting	Pre-Tour Safety Meeting
5	Safety Meeting	Pre-Tour Safety Meeting
05:4	Safety Meeting	Pre-Tour Safety Meeting
5	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
NMDC	1	5 1/4	2.75	31.27	XT 39
XO Sub	1	5	2.38	2.85	Ptech 43
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43
XO Sub	1	5	2.81	3.38	XT 39
Agitator	1	5	2.00	23.08	XT 39
XO Sub	1	5	2.81	3.47	Ptech 43

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Heel	11,760.0

Last Drilling Parameter							
Wellbore Original Hole	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
	12,746.0	12,902.0	2,174.00	5.50	53.00	28.4	350
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
25	60	4,450.0	205	240	200	8,500.0	6,000.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			168.0				

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Kill Notes					

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 44.0	Road Condition Good	Hole Condition Good
Operations at Report Time Drilling 6 3/4" Lateral at 13,940'		Planned Operations Drill 6.75" Lateral.	
Operations Summary Ream in Hole From 11,403' to 12,902'. Drill 6 3/4" Lateral From 12,902' to 13,940'.			
Remarks			

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
290.7	6.2	6.2	0.0	0.0	0.0	290.7

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	3.50	3.50	09:30	Drilling	Reaming	No			Ream Curve From 11,403' to 11,760'. Not Able to Trip Through Lateral on Elevators. Ream Lateral From 11,760' to 12,902'. 320 GPM, 3,800 PSI, 30 RPM, 5K TQ.
09:30	6.00	9.50	15:30	Drilling	Drilling Ahead	No			Drill 6 3/4" Lateral From 12,902' to 13,285'.
15:30	0.50	10.00	16:00	Drilling	Rig Maintenance	No			Rig Service
16:00	14.00	24.00	06:00	Drilling	Drilling Ahead	No			Drill 6 3/4" Lateral From 13,285' to 13,940'.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lbf/100ft²)
17:00	Oil Base	13,400.0	12.05	64	23.0	12,000
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Gel 30 min (lbf/100ft²)	Filterate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
8.000	11.000	14.000				22.5
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	60.0	17.5	54,000.000			580.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #6, BHA #6 Production Lateral			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
6	6 3/4in, TKC63 S1, A286090	2-6-BT-S-X-2-WT-PR	0.66
Nozzles (1/32")		String Length (ft)	BHA ROP (ft/hr)
12/12/12/12/12/12		2,134.94	41

Drill String Components						
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread	
5.125" 1.83° 6/7 7.8 W/ 6 1/4" NBS Stab (FBH)	1	5 1/8		29.87	XT 39	
MWD UBHO	1	5 1/4	2.75	3.05	XT 39	
Stabilizer - Non Mag	1	5	2.50	3.43	XT 39	
NMDC	1	5 1/4	2.75	31.12	XT 39	
NMDC	1	5 1/4	2.75	30.27	XT 39	
Float Sub	1	5 1/8	2.75	2.51	XT 39	
XO Sub	1	5	2.38	2.85	Ptech 43	
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43	
XO Sub	1	5	2.81	3.38	XT 39	
Agitator	1	5	2.00	23.08	XT 39	
XO Sub	1	5	2.81	3.47	Ptech 43	

Last Drilling Parameter							
Wellbore Original Hole	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
	13,915.0	13,940.0	1,038.00	1.00	20.00	25.0	330
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
32	0	4,400.0	205	240	190	0.0	0.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			168.0				

AFE Number T22DC006	
Start Depth (ftKB)	End Depth (ftKB)
12,902.0	13,940.0
Target Formation Wolfcamp	Target Depth (ftKB)
	22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
1	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,700.0	No	57	100

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
2	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,700.0	No	57	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
3	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,700.0	No	57	100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	9.6
Blower Rental	55.00	1.0
Calcium Chloride	19.45	25.0
Energy Surcharge	1.00	636.96
Engineering Service	1,050.00	1.0
Fuel Surcharge	1.00	429.0
Lime	9.89	5.0
Scale Charge	20.00	2.0
Stellar Mul OW gal	17.00	50.0
Stellar Mul S Gal	17.45	275.0
Tax	1.00	936.33
Trucking	1.00	2,600.00

Safety Checks		
Time	Type	Des
17:4	Safety Meeting	Pre-Tour Safety Meeting
5		
05:4	Safety Meeting	Pre-Tour Safety Meeting
5		

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Kicks

Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
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Kill Notes

Lost Circulation

Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date
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Interval Problems (NPT)

Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
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Comment

Interval Lessons

Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
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Comment

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity

Wellbore Kick Offs & Key Depths

Type	Top Depth (ftKB)
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Heel	11,760.0
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Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Partly Cloudy	Temperature (°F) 48.0	Road Condition Good	Hole Condition Good
Operations at Report Time TOOH @ 5,765'		Planned Operations TOOH.Change BHA. TIH. Drill 6.75" Lateral	
Operations Summary Drill 6 3/4" Lateral From 13,940' to 14,493', Pump Slug, TOOH to 5,765'.			
Remarks			

Mud Volumes						
Active Volume (bbl) 301.0	Var Active Vol (bbl) 10.4	Balance (bbl) 10.4	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 301.0

Daily Time Log										
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com	
06:00	9.50	9.50	15:30	Drillin g	Drilling Ahead	No			Drill 6 3/4" Lateral From 13,940' to 14,232'.	
15:30	0.50	10.00	16:00	Drillin g	Rig Maintenance	No			Rig Service	
16:00	9.50	19.50	01:30	Drillin g	Drilling Ahead	No			Drill 6 3/4" Lateral From 14,232' to 14,493'. Increase MW to 12.4#. ROP Below 20 Ft/Hr.	
01:30	4.50	24.00	06:00	Drillin g	Trip	No			Pump Slug, TOOH From 14,493' to 5,765'. Hole Slick. Fill as Calculated.	

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
16:30	Oil Base	14,260.0	12.10	67	25.0	17.000
Gel 10 sec (lb/100ft²) 11.000	Gel 10 min (lb/100ft²) 16.000	Gel 30 min (lb/100ft²) 21.000	Filterate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 22.5
MBT (lb/bbl)	Percent Oil (%) 59.5	Percent Water (%) 18.0	Chlorides (mg/L) 53,000.000	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V) 578.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #6, BHA #6 Production Lateral			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
6	6 3/4in, TKC63 S1, A286090	2-6-BT-S-X-2-WT-PR	0.66
Nozzles (1/32")	String Length (ft)	String Wt (1000lb)	BHA ROP (ft/hr)
12/12/12/12/12/12	2,134.94	41	40.8

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
5.125" 1.83° 6/7 7.8 W/ 6 1/4" NBS Stab (FBH)	1	5 1/8		29.87	XT 39
MWD UBHO	1	5 1/4	2.75	3.05	XT 39
Stabilizer - Non Mag	1	5	2.50	3.43	XT 39
NMDC	1	5 1/4	2.75	31.12	XT 39
NMDC	1	5 1/4	2.75	30.27	XT 39
Float Sub	1	5 1/8	2.75	2.51	XT 39
XO Sub	1	5	2.38	2.85	Ptech 43
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43
XO Sub	1	5	2.81	3.38	XT 39
Agitator	1	5	2.00	23.08	XT 39
XO Sub	1	5	2.81	3.47	Ptech 43

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	14,270.0	14,493.0	1,591.00	7.50	39.00	29.7	330
WOB (1000lb)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lb)	SO Str Wt (1000lb)	Drilling Torque	Off Btm Tq
25	60	5,000.0	203	240	185	9,000.0	6,000.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			172.0				

Kicks					
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class	

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

AFE Number T22DC006	
Start Depth (ftKB) 13,940.0	End Depth (ftKB) 14,493.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
1	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
5,000.0	No	57	100

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
2	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
5,000.0	No	57	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
3	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

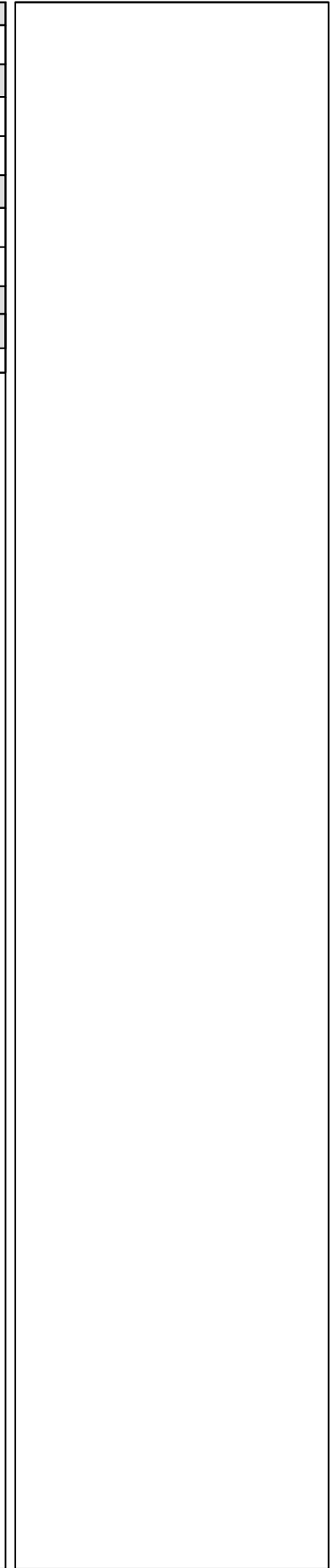
Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	8.0
Blower Rental	55.00	1.0
Calcium Chloride	19.45	28.0
Energy Surcharge	1.00	191.57
Engineering Service	1,050.00	1.0
Lime	9.89	20.0
Tax	1.00	281.61

Safety Checks		
Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
05:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name	Original Hole

Well Name: UL 21 WAR-WINK 38-47 C 3H

Lost Circulation						
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date	
Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						
Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)
Comment						
Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity



Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 50.0	Road Condition Good	Hole Condition Good
Operations at Report Time Drilling 6 3/4" Lateral at 14,807'		Planned Operations TIH. Drill 6.75" Lateral.	
Operations Summary TOOH From 5,765' to Surface. Change BHA. TIH to 10,720'. Circulate Bottoms Up. Cut Drill Line. TIH to 14,493'. Drill 6 3/4" Lateral From 14,493' to 14,807'			
Remarks			

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
306.9	5.9	5.9	0.0	0.0	0.0	306.9

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	3.00	3.00	09:00	Drillin g	Trip	No			TOOH From 5,765' to Surface'. Fill as Calculated.
09:00	1.00	4.00	10:00	Drillin g	Handling BHA	No			Lay Down NMDC. Drain Motor and Break Bit. Unlock and Remove MWD. Clean and Clear Rig Floor.
10:00	1.50	5.50	11:30	Drillin g	Handling BHA	No			Pick Up WBDS 6/7 8.8 Stage Motor at 1.83° FBH. Scribe Motor to UBHO. Install and Lock MWD. Make Up Baker Huges DD406VTWH Bit with 6x12's (.66 TFA). Pick Up NMDC. Surface Test BHA - Test Good.
11:30	7.00	12.50	18:30	Drillin g	Trip	No			Trip in Hole From Surface to 10720'.
18:30	1.00	13.50	19:30	Drillin g	Cond Mud & Circ	No			Circulate Bottoms Up at casing shoe. 20 - 30' flare
19:30	2.00	15.50	21:30	Drillin g	Cut off Drill Line	No			Slip And Cut Drilling Line. Monitor Well on Trip Tank
21:30	3.50	19.00	01:00	Drillin g	Trip	No			Trip in Hole From 10,720' to 14,404'. Ream Lateral From 14,404' to 14,493'.
01:00	5.00	24.00	06:00	Drillin g	Drilling Ahead	No			Drill 6 3/4" Lateral From 14,493' to 14,807'. 25 - 30' flare on bottoms up.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lbf/100ft²)
09:00	Oil Base	14,493.0	12.40	69	25.0	17.000
	Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Gel 30 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH
	14.000	18.000	22.000			24.0
	MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)
	58.5	17.5		53,000.000		541.0
						Electric Stab (V)
						541.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #7, BHA #7 Production Lateral			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
7	6 3/4in, DD406VTWH, 5339309	3-8-RO-S-X-2-CT-BHA	0.66
Nozzles (1/32")	String Length (ft)	String Wt (1000lbf)	BHA ROP (ft/hr)
12/12/12/12/12/12	2,138.78	41	36.2

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
5" 1.83° 6/7 8.8 W/ 6 1/4" NBS Stab (FBH)	1	5 1/8		34.11	XT 39
MWD UBHO	1	5 1/4	2.75	3.05	XT 39
Stabilizer - Non Mag	1	5	2.50	3.43	XT 39
NMDC	1	5 1/4	2.75	31.12	XT 39
NMDC	1	5 1/4	2.75	30.27	XT 39
Float Sub	1	5 1/8	2.75	2.51	XT 39
XO Sub	1	5	2.38	2.85	Ptech 43
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43
XO Sub	1	5	2.81	3.38	XT 39
Agitator	1	5	2.00	22.68	XT 39

AFE Number T22DC006	
Start Depth (ftKB) 14,493.0	End Depth (ftKB) 14,807.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Lloyd Dolen, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
1	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,600.0	No	50	100

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
2	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,600.0	No	48	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
3	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,600.0	No	48	100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	22.52
Blower Rental	55.00	1.0
Energy Surcharge	1.00	453.72
Engineering Service	1,050.00	0
Fuel Surcharge	1.00	214.5
Scale Charge	20.00	1.0
Stellar Mul OW gal	17.00	50.0
Tax	1.00	666.97
Trucking	1.00	1,300.00

Safety Checks		
Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
05:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name	
Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Drill String Components							
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread		
XO Sub	1	5	2.81	3.47	Ptech 43		
Last Drilling Parameter							
Wellbore Original Hole	Start Depth (ftKB) 14,493.0	End Depth (ftKB) 14,807.0	Cum Depth (ft) 314.00	Drilling Time (hr) 5.00	Cum Drill Time (hr) 5.00	Interval ROP (ft/hr) 62.8	Flow Rate (gpm) 330
WOB (1000lbf) 25	RPM (rpm) 60	SPP (psi) 5,250.0	Drill Str Wt (1000...) 200	PU Str Wt (1000lbf) 240	SO Str Wt (1000lbf) 170	Drilling Torque 11,000.0	Off Btm Tq 6,000.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F) 168.0	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...
Kicks							
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class			
Kill Notes							
Lost Circulation							
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date		
Interval Problems (NPT)							
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)	
Comment							
Interval Lessons							
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)	
Comment							
Safety Incidents							
Time	Category	Type	Subtype	Cause	Lost time?	Severity	

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 55.0	Road Condition Good	Hole Condition Good
Operations at Report Time TOOH @ 800'		Planned Operations TOOH, Change BHA. TIH to 10,708'. Circulate Bottoms Up. TIH to 15,235'. Drill 6 3/4" Lateral	

Operations Summary
Drill 6 3/4" Lateral from 14,807' to 15,235', TOOH From 15,235' to 800'

Remarks

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
315.0	8.0	8.0	0.0	0.0	0.0	315.0

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	16.00	16.00	22:00	Drilling	Drilling Ahead	No			Drill 6 3/4" Lateral From 15,190' to 15,235'. P-rate decreased and motor stalled - indicative of an under gauge bit.
22:00	8.00	24.00	06:00	Drilling	Trip	No			Pump Slug, TOOH From 15,235' to 800'. Hole Slick. Fill as Calculated.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
17:00	Oil Base	15,190.0	12.40	64	24.0	13.000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
12.000	15.000	18.000				24.0
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	59.0	17.0	54,000.000			549.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #7, BHA #7 Production Lateral			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
7	6 3/4in, DD406VTWH, 5339309	3-8-RO-S-X-2-CT-BHA	0.66
Nozzles (1/32")		String Length (ft)	String Wt (1000lb)
12/12/12/12/12		2,138.78	41
			BHA ROP (ft/hr)
			36.2

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
5" 1.83° 6/7 8.8 W/ 6 1/4" NBS Stab (FBH)	1	5 1/8		34.11	XT 39
MWD UBHO	1	5 1/4	2.75	3.05	XT 39
Stabilizer - Non Mag	1	5	2.50	3.43	XT 39
NMDC	1	5 1/4	2.75	31.12	XT 39
NMDC	1	5 1/4	2.75	30.27	XT 39
Float Sub	1	5 1/8	2.75	2.51	XT 39
XO Sub	1	5	2.38	2.85	Ptech 43
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43
XO Sub	1	5	2.81	3.38	XT 39
Agitator	1	5	2.00	22.68	XT 39
XO Sub	1	5	2.81	3.47	Ptech 43

Last Drilling Parameter							
Wellbore Original Hole	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
	15,223.0	15,235.0	742.00	0.50	20.50	24.0	315
WOB (1000lb)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lb)	SO Str Wt (1000lb)	Drilling Torque	Off Btm Tq
28	50	4,800.0	200	265	170	115,000.0	6,000.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			178.0				

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Kill Notes

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

AFE Number T22DC006	
Start Depth (ftKB) 14,807.0	End Depth (ftKB) 15,235.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Lloyd Dolen, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
1	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

2, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
2	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
4,600.0	No	55
		Eff (%)
		100

3, Rostel, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
3	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
4,600.0	No	55
		Eff (%)
		100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	10.9
Blower Rental	55.00	1.0
Calcium Chloride	19.45	28.0
Energy Surcharge	1.00	493.52
Engineering Service	1,050.00	1.0
Fuel Surcharge	1.00	214.5
Lime	9.89	10.0
Scale Charge	20.00	1.0
Stellar Mul P Gal	16.89	75.0
Stellar Mul S Gal	17.45	150.0
Tax	1.00	725.48
Trucking	1.00	1,300.0

Safety Checks		
Time	Type	Des
17:4	Safety Meeting	Pre-Tour Safety Meeting
05:4	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Cloudy	Temperature (°F) 37.0	Road Condition Good	Hole Condition Good
Operations at Report Time Drilling 6.75" Lateral @ 15,711'		Planned Operations Drill 6.75" Lateral	
Operations Summary TOOH, Handle BHA. TIH to Shoe. Circulate Bottoms Up. TIH. Drill 6.75" Lateral Section From 15,235' to 15,711'			
Remarks			

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
323.9	8.9	8.9	0.0	0.0	0.0	323.9

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	3.50	3.50	09:30	Drilling	Handling BHA	No			Break down BHA. Lay out Motor, MWD, UBHO Sub and IBS. Make up BHA. Ran WBDS 5" 6/7 Lobe, 8.8 Stage Motor S/N: WBDS5010. Bit to bend: 3.76', Bit to Gamma: 52', Bit to Survey: 66'. Flow Range: 150 - 400 GPM, Speed Ratio: 0.66 rev/gal.
09:30	5.50	9.00	15:00	Drilling	Trip	No			Trip in the hole from 110' to 2,111'. Test prior to and after picking up Agitator. 290 psi Pressure Drop at 250 GPM. Continue to trip in the hole from 2,141' to 10,950'
15:00	1.50	10.50	16:30	Drilling	Cond Mud & Circ	No			Circulate bottoms up. No flare, Maximum gas: 884 units
16:30	3.00	13.50	19:30	Drilling	Trip	No			Trip in Hole From 10,950' to 14,368'. Ream Lateral From 14,368' to 15,235'. 5' flare on bottoms up. Max. Gas: 850 Units
19:30	10.50	24.00	06:00	Drilling	Drilling Ahead	No			Drill 6 3/4" Lateral From 15,235' to 15,711'

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
16:30	Oil Base	15,235.0	12.40	67	24.0	13.000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
12.000	15.000	18.000				23.8
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	59.2	17.0	54,000.000			563.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #8, BHA #8 Production Lateral			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
8	6 3/4in, TKC63 S-1, A393902	3-4-CT-S,G-X-1-BT-DTF	0.66
Nozzles (1/32")		String Length (ft)	String Wt (1000lb)
12/12/12/12/12/12		2,141.32	41
		BHA ROP (ft/hr)	31.6

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
5" 1.83° 6/7 8.8 W/ 6 1/4" NBS Stab (FBH)	1	5 1/8		34.32	XT 39
Stabilizer 6.25" Steel	1	5	2.75	5.67	XT 39
MWD UBHO	1	5 1/4	2.75	3.14	XT 39
NMDC	1	5 1/4	2.75	31.12	XT 39
NMDC	1	5 1/4	2.75	30.27	XT 39
Float Sub	1	5 1/8	2.75	2.51	XT 39
XO Sub	1	5	2.38	2.85	Ptech 43
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43
XO Sub	1	5	2.81	3.38	XT 39
Agitator	1	5	2.00	22.68	XT 39
XO Sub	1	5	2.81	3.47	Ptech 43

AFE Number T22DC006	
Start Depth (ftKB) 15,235.0	End Depth (ftKB) 15,711.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	
Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Lloyd Dolen, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
1	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,600.0	No	51	100

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
2	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,600.0	No	54	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
3	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,600.0	No	54	100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	5.0
Blower Rental	55.00	1.0
Energy Surcharge	1.00	117.25
Engineering Service	1,050.00	1.0
Tax	1.00	172.36

Safety Checks		
Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
05:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Last Drilling Parameter

Wellbore Original Hole	Start Depth (ftKB) 15,382.0	End Depth (ftKB) 15,711.0	Cum Depth (ft) 476.00	Drilling Time (hr) 6.00	Cum Drill Time (hr) 10.00	Interval ROP (ft/hr) 54.8	Flow Rate (gpm) 305
WOB (1000lbf) 20	RPM (rpm) 50	SPP (psi) 4,600.0	Drill Str Wt (1000...) 200	PU Str Wt (1000lbf) 240	SO Str Wt (1000lbf) 170	Drilling Torque 12,000.0	Off Btm Tq 6,000.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F) 174.0	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks

Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
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Kill Notes

Lost Circulation

Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date
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Interval Problems (NPT)

Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
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Comment

Interval Lessons

Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
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Comment

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity
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Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 38.0	Road Condition Good	Hole Condition Good
Operations at Report Time Drilling 6.75" Lateral @16,526'		Planned Operations Drill 6.75" Lateral	

Operations Summary
Drill 6.75" Lateral Section from 15,711' to 16,430', Circulate, Check Mud Weight's In and Out, Drill 6.75" Lateral from 16,430' to 16,526'

Remarks

Mud Volumes						
Active Volume (bbl) 339.2	Var Active Vol (bbl) 15.3	Balance (bbl) 15.3	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 339.2

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	11.00	11.00	17:00	Drillin g	Drilling Ahead	No			Drill Lateral from 15,711' to 16,147'
17:00	0.50	11.50	17:30	Drillin g	Rig Maintenance	No			Rig Service. Lubricate Top Drive, Draw Works, and Travelling Blocks.
17:30	8.00	19.50	01:30	Drillin g	Drilling Ahead	Yes	0.50		Drill Lateral from 16,147' to 16430' - Had 50 bbls of seepage losses in an hour starting @ 16,395'
01:30	1.00	20.50	02:30	Drillin g	Circulating	Yes	1.00		Reduced pump rate to 50 SPM and staged up to 100 SPM while constantly checking MW in and out for a full circulation. Max MW: 12.4 ppg. Began having seepage losses at 100 SPM with calculated ECD of 13.7 ppg.
02:30	3.50	24.00	06:00	Drillin g	Drilling Ahead	Yes	3.50		Drill Lateral from 16,430' to 16,526', Lower Mud Weight to 12.3 in/out

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
17:00	Oil Base	16,160.0	12.40	67	23.0	12,000
Gel 10 sec (lb/100ft²) 10.000	Gel 10 min (lb/100ft²) 13.000	Gel 30 min (lb/100ft²) 15.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 24.0
MBT (lb/bbl)	Percent Oil (%) 60.0	Percent Water (%) 16.0	Chlorides (mg/L) 54,000.000	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V) 624.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #8, BHA #8 Production Lateral			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
8	6 3/4in, TKC63 S-1, A393902	3-4-CT-S,G-X-1-BT-DTF	0.66
Nozzles (1/32")	String Length (ft)	String Wt (1000lbf)	BHA ROP (ft/hr)
12/12/12/12/12/12	2,141.32	41	31.6

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
5" 1.83° 6/7 8.8 W/ 6 1/4" NBS Stab (FBH)	1	5 1/8		34.32	XT 39
Stabilizer 6.25" Steel	1	5	2.75	5.67	XT 39
MWD UBHO	1	5 1/4	2.75	3.14	XT 39
NMDC	1	5 1/4	2.75	31.12	XT 39
NMDC	1	5 1/4	2.75	30.27	XT 39
Float Sub	1	5 1/8	2.75	2.51	XT 39
XO Sub	1	5	2.38	2.85	Ptech 43
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43
XO Sub	1	5	2.81	3.38	XT 39
Agitator	1	5	2.00	22.68	XT 39
XO Sub	1	5	2.81	3.47	Ptech 43

AFE Number T22DC006	
Start Depth (ftKB) 15,711.0	End Depth (ftKB) 16,526.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Lloyd Dolen, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
1	1,600.0	12.00	0.069
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	Eff (%)
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
2	1,600.0	12.00	0.069
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	Eff (%)
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
3,950.0	No	100	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
3	1,600.0	12.00	0.069
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	Eff (%)
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	14.0
Blower Rental	55.00	1.0
Calcium Chloride	19.45	42.0
Energy Surcharge	1.00	319.45
Engineering Service	1,050.00	1.0
Lime	9.89	40.0
Stellar Mul P Gal	16.89	20.0
Stellar Mul S Gal	17.45	15.0
Tax	1.00	469.6

Safety Checks		
Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
05:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Last Drilling Parameter

Wellbore Original Hole	Start Depth (ftKB) 16,430.0	End Depth (ftKB) 16,526.0	Cum Depth (ft) 1,291.00	Drilling Time (hr) 3.50	Cum Drill Time (hr) 33.00	Interval ROP (ft/hr) 27.4	Flow Rate (gpm) 290
WOB (1000lbf) 20	RPM (rpm) 50	SPP (psi) 3,950.0	Drill Str Wt (1000...) 200	PU Str Wt (1000lbf) 240	SO Str Wt (1000lbf) 170	Drilling Torque 12,000.0	Off Btm Tq 6,000.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F) 170.0	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks

Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
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Kill Notes

Lost Circulation

Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date
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Interval Problems (NPT)

Problem Type Wellbore	Problem Subtype Instability	Start Date 3/18/2023	Start Depth (ftKB) 16,390.0	End Depth (ftKB) 16,579.0	Est Cost (Cost)	Est Lost Time (hr)
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Comment

Interval Lessons

Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
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Comment

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

Table with 4 columns: API/UWI, Surface Legal Location, License #, State/Province; Spud Date, Rig Release Date, KB-Ground Distance (ft), KB-Casing Flange Distance (ft); Weather, Temperature (°F), Road Condition, Hole Condition; Operations at Report Time, Planned Operations; Operations Summary; Remarks.

Mud Volumes table with 7 columns: Active Volume (bbl), Var Active Vol (bbl), Balance (bbl), Tank Volume (bbl), Additions (bbl), Losses (bbl), Hole Volume (bbl).

Daily Time Log table with 10 columns: Start Time, Dur (hr), Cum Dur (hr), End Time, Code 1, Code 2, Problem?, Prob Hrs (hr), Prob Ref #, Com.

Daily Mud Checks table with 7 columns: Time, Type, Depth (ftKB), Density (lb/gal), Funnel Viscosity (s/qt), PV Calc (cP), YP Calc (lbf/100ft²).

Daily Mud Volumes table with 4 columns: Tank/Addition/Loss, Type, Volume (bbl), Subtype.

Drill Strings table with 4 columns: Bit Run, Drill Bit, IADC Bit Dull, TFA (incl Noz) (in²); Nozzles (1/32"), String Length (ft), String Wt (1000lbf), BHA ROP (ft/hr).

Drill String Components table with 6 columns: Item Des, Jts, OD (in), ID (in), Len (ft), Top Thread.

Last Drilling Parameter table with 8 columns: Wellbore, Start Depth (ftKB), End Depth (ftKB), Cum Depth (ft), Drilling Time (hr), Cum Drill Time (hr), Interval ROP (ft/hr), Flow Rate (gpm).

Kicks table with 5 columns: Kick Date, Kick Depth (ftKB), Control Date, Control Depth (ftKB), Kick Class.

Lost Circulation table with 6 columns: Start Date, Top Depth (ftKB), Bottom Depth (ftKB), Ops In Prog, Vol Lost Tot (bbl), End Date.

AFE Number, T22DC006; Start Depth (ftKB), End Depth (ftKB); Target Formation, Target Depth (ftKB); Last Casing String, 2nd Intermediate, 10,708.0ftKB.

Daily Contacts table with 2 columns: Job Contact, Mobile.

Rigs table with 2 columns: Contractor, Rig Number; Rig Supervisor, Phone Mobile.

1, Continental-Emsco, F-1600 table with 3 columns: Pump #, Pwr (hp), Rod Dia (in); Liner Size (in), Stroke (in), Vol/Stk OR (b...); P (psi), Slow Spd, Strokes (s...), Eff (%).

2, Continental-Emsco, F-1600 table with 3 columns: Pump #, Pwr (hp), Rod Dia (in); Liner Size (in), Stroke (in), Vol/Stk OR (b...); P (psi), Slow Spd, Strokes (s...), Eff (%).

3, Rostel, F-1600 table with 3 columns: Pump #, Pwr (hp), Rod Dia (in); Liner Size (in), Stroke (in), Vol/Stk OR (b...); P (psi), Slow Spd, Strokes (s...), Eff (%).

Mud Additive Amounts table with 3 columns: Des, Field Est (Cost/unit), Consumed.

Safety Checks table with 3 columns: Time, Type, Des.

Wellbores table with 2 columns: Wellbore Name, Original Hole; Wellbore Kick Offs & Key Depths table with 2 columns: Type, Top Depth (ftKB).

Well Name: UL 21 WAR-WINK 38-47 C 3H

Interval Problems (NPT)

Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Wellbore	Instability	3/18/2023	16,390.0	16,579.0		

Comment

Interval Lessons

Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)

Comment

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 37.0	Road Condition Good	Hole Condition Good
Operations at Report Time Circulate Bottoms Up @ 10,814'		Planned Operations Circulate Bottoms Up, Slip and Cut Drilling Line, TIH, Drill 6.75" Lateral	

Operations Summary
Drill 6.75" Lateral Section from 17,115' to 17,194'. TOO, Change Out BHA. TIH to 10,814'. Circulate Bottoms Up

Remarks

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
351.7	1.5	1.5	0.0	0.0	0.0	351.7

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	5.50	5.50	11:30	Drilling	Drilling Ahead	No			Drill Lateral from 17,115' to 17,194'
11:30	8.00	13.50	19:30	Drilling	Trip	No			Pump Slug and Trip for BHA from 17,194' to 10,687'. Well taking correct fill. Flow Check at 10,687'; wellbore static. Continue to TOO from 10,687' to 110'.
19:30	1.00	14.50	20:30	Drilling	Handling BHA	No			Lay Down NMDC. Drain Motor and Break Bit. Unlock and Remove MWD. Clean and Clear Rig Floor.
20:30	2.50	17.00	23:00	Drilling	Handling BHA	No			Pick Up NOV 6/7 7.8 Stage Motor at 1.83° FBH. Surface Test BHA
23:00	6.50	23.50	05:30	Drilling	Trip	No			Trip in the hole from 110' to 2,133'. Test prior to and after picking up Agitator. 300 psi Pressure Drop at 250 GPM. Continue to trip in the hole from 2,133' to 10,814'
05:30	0.50	24.00	06:00	Drilling	Cond Mud & Circ	No			Circulate Bottoms up at 10,814', 300 GPM

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lbf/100ft²)
18:00	Oil Base	17,194.0	12.40	69	24.0	13.000
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Gel 30 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
8.000	11.000	14.000				24.7
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	59.3	16.0	49,000.000			611.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings		
BHA #8, BHA #8 Production Lateral		
Bit Run	Drill Bit	IADC Bit Dull
8	6 3/4in, TKC63 S-1, A393902	3-4-CT-S,G-X-1-BT-DTF
		TFA (incl Noz) (in²)
		0.66
Nozzles (1/32")	String Length (ft)	String Wt (1000lb)
12/12/12/12/12/12	2,141.32	41
		BHA ROP (ft/hr)
		31.6

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
5" 1.83° 6/7 8.8 W/ 6 1/4" NBS Stab (FBH)	1	5 1/8		34.32	XT 39
Stabilizer 6.25" Steel	1	5	2.75	5.67	XT 39
MWD UBHO	1	5 1/4	2.75	3.14	XT 39
NMDC	1	5 1/4	2.75	31.12	XT 39
NMDC	1	5 1/4	2.75	30.27	XT 39
Float Sub	1	5 1/8	2.75	2.51	XT 39
XO Sub	1	5	2.38	2.85	Ptech 43
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43
XO Sub	1	5	2.81	3.38	XT 39
Agitator	1	5	2.00	22.68	XT 39
XO Sub	1	5	2.81	3.47	Ptech 43

AFE Number T22DC006	
Start Depth (ftKB) 17,115.0	End Depth (ftKB) 17,194.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Lloyd Dolen, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
1	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

2, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
2	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

3, Rostel, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
3	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	18.0
Blower Rental	55.00	1.0
Calcium Chloride	19.45	28.0
Energy Surcharge	1.00	554.27
Engineering Service	1,050.00	1.0
Lime	9.89	25.0
Stellar Mul Mod	1,285.00	1.0
Stellar Mul P Gal	16.89	90.0
Stellar Mul S Gal	17.45	110.0
Tax	1.00	814.78

Safety Checks		
Time	Type	Des
17:4	Safety Meeting	Pre-Tour Safety Meeting
5		
05:4	Safety Meeting	Pre-Tour Safety Meeting
5		

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Last Drilling Parameter

Wellbore Original Hole	Start Depth (ftKB) 17,133.0	End Depth (ftKB) 17,194.0	Cum Depth (ft) 1,959.00	Drilling Time (hr) 3.00	Cum Drill Time (hr) 62.00	Interval ROP (ft/hr) 20.3	Flow Rate (gpm) 320
WOB (1000lbf) 25	RPM (rpm) 50	SPP (psi) 4,600.0	Drill Str Wt (1000...) 205	PU Str Wt (1000lbf) 230	SO Str Wt (1000lbf) 185	Drilling Torque 13,000.0	Off Btm Tq 6,000.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F) 179.0	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks

Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
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Kill Notes

Lost Circulation

Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date
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Interval Problems (NPT)

Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
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Comment

Interval Lessons

Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
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Comment

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Partly Cloudy	Temperature (°F) 48.0	Road Condition Good	Hole Condition Good
Operations at Report Time Troubleshoot Surface Equipment Due to Pressure Loss		Planned Operations Finish Troubleshooting Surface Equipmant,Drill 6.75" Lateral	
Operations Summary Circulate B/U at Shoe. Cut and Slip Drill Line. TIH to 16,806'. Wash & Ream to 17,194'. Drill Lateral from 17,194' to 17,718', Troubleshoot Surface Equipment for Pressure Loss.			
Remarks			

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
361.5	9.8	9.8	0.0	0.0	0.0	361.5

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	1.00	1.00	07:00	Drilling	Cond Mud & Circ	No			Circulate bottoms up at 10,717'. Max Gas: 1404 Units with 25' Flare.
07:00	1.50	2.50	08:30	Drilling	Cut off Drill Line	No			Slip and Cut Drill Line. Monitoring Wellbore on Trip Tank. No gains. Wellbore Static.
08:30	4.00	6.50	12:30	Drilling	Trip	No			Trip in the hole from 10,717' to 16,828'. Wash in hole from 16,828' to 17,194'
12:30	10.00	16.50	22:30	Drilling	Drilling Ahead	No			Drill 6.75" Lateral Section from 17,194' to 17,569'
22:30	0.50	17.00	23:00	Drilling	Rig Maintenance	No			Rig Service
23:00	5.50	22.50	04:30	Drilling	Drilling Ahead	No			Drill 6.75" Lateral Section from 17,569' to 17,718'
04:30	1.50	24.00	06:00	Drilling	NPT	No			Troubleshoot Pressure Loss on Surface Equipment

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lbf/100ft²)
17:00	Oil Base	17,235.0	12.45	69	24.0	13.000
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Gel 30 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
8.000	11.000	14.000				25.0
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	58.0	17.0	49,000.000			588.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #9, BHA #9 Production Lateral			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
9	6 3/4in, TKC63 S-1, A295449	1-1-WT-A-X-I-NO-DSF	0.66
Nozzles (1/32")	String Length (ft)	String Wt (1000lb)	BHA ROP (ft/hr)
12/12/12/12/12	2,134.48	41	33.8

Drill String Components						
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread	
5.125" 1.83° 6/7 7.8 W/ 6 1/4" NBS Stab (FBH)	1	5 1/8		30.45	XT 39	
MWD UBHO	1	5 1/4	2.75	3.14	XT 39	
Stabilizer - Non Mag	1	5	2.75	3.33	XT 39	
NMDC	1	5 1/4	2.75	31.12	XT 39	
NMDC	1	5 1/4	2.75	30.27	XT 39	
Float Sub	1	5 1/8	2.75	2.51	XT 39	
XO Sub	1	5	2.38	2.85	Ptech 43	
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43	
XO Sub	1	5	2.81	3.38	XT 39	
Agitator	1	5	2.00	22.05	XT 39	
XO Sub	1	5	2.81	3.47	Ptech 43	

AFE Number T22DC006	
Start Depth (ftKB) 17,194.0	End Depth (ftKB) 17,718.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Lloyd Dolen, ACR	432-556-0770
Ray Gonzalez, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
1	1,600.0	12.00	0.069
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,600.0	No	52	100

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
2	1,600.0	12.00	0.069
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,600.0	No	52	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
3	1,600.0	12.00	0.069
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,600.0	No	53	100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	15.0
Blower Rental	55.00	1.0
Calcium Chloride	19.45	14.0
Claytone	112.32	9.0
Energy Surcharge	1.00	466.64
Engineering Service	1,050.00	1.0
Forklift	110.00	1.0
Fuel Surcharge	1.00	189.75
Lime	9.89	10.0
Oil Dry	13.00	12.0
Stellar Mul P Gal	16.89	90.0
Tax	1.00	685.97
Trucking	1.00	1,150.00

Safety Checks		
Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
05:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name	Original Hole

Well Name: UL 21 WAR-WINK 38-47 C 3H

Last Drilling Parameter

Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	17,679.0	17,718.0	524.00	1.00	15.50	39.0	305
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
25	50	4,200.0	205	230	185	12,000.0	6,000.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			181.0				

Wellbore Kick Offs & Key Depths

Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Kicks

Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
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Kill Notes

Lost Circulation

Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date
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Interval Problems (NPT)

Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
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Comment

Interval Lessons

Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
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Comment

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Partly Cloudy	Temperature (°F) 57.0	Road Condition Good	Hole Condition Good
Operations at Report Time TIH at 10,780'	Planned Operations Circulate Bottoms Up. TIH to 17,718'. Drill 6.75" Lateral.		
Operations Summary Trouble Shoot Pressure Loss. Screw Into String. TOOH to Washout. Circulate Bottoms Up. TOOH. Change BHA. TIH to 10,780'.			
Remarks			

Mud Volumes

Active Volume (bbl) 0.0	Var Active Vol (bbl) -361.5	Balance (bbl) -361.5	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 0.0
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Daily Time Log

Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	3.00	3.00	09:00	Drilling	NPT	No			Continue Trouble Shooting Pressure Loss. Change 4" on Mud Pump 1 and Clean Pump Suction Screens With Same Results. Pressure Test Surface Equipment With No Leak Off. Close Annular And Pump Through Kill Line with Immediate Returns Through Drill Pipe - Indicating a Wash In String.
09:00	1.50	4.50	10:30	Drilling	Cond Mud & Circ	No			While Picking Up to TOOH, String Parted and Hookload Dropped From 270K to 140K Pounds. Calculated Top of Fish at 5,500'. Circulate Bottoms Up. Push Fish to Bottom and Screw Into It. Torque Up String to 16K Ft*Lbs.
10:30	4.50	9.00	15:00	Drilling	Trip	No			TOOH Wet From 17,718' to 12,330'. Hole Slick. Fill as Calculated. Found Washed Pin and Box Between Stands 57 and 58. Lay Out Damaged Joints.
15:00	1.50	10.50	16:30	Drilling	Cond Mud & Circ	No			Circulate Bottoms Up. 1,040 Units of Gas, Mud Cut to 12.2#. Mix and Pump Slug.
16:30	6.00	16.50	22:30	Drilling	Trip	No			TOOH From 12,330' to 100'. Flow Check at 8,400'; Wellbore Static
22:30	2.00	18.50	00:30	Drilling	Handling BHA	No			Change out BHA. Run NOV 5.125" 6/7 Lobe, 7.8 Stage 1.83° FBH Motor S/N: 513-36E-0099. Bit to bend: 5.09', Bit to Gamma: 42, Bit to Survey: 56'. Speed Ratio: 0.58 rev/gal
00:30	5.50	24.00	06:00	Drilling	Trip	No			Trip in the hole to 2105'. Change out Agitator. Pressure drop across Agitator: 230 psi @ 200 GPM. TIH to 10,811'. Pull Trip Nipple and Install Rotating Head.

Daily Mud Checks

Time 16:30	Type Oil Base	Depth (ftKB) 17,718.0	Density (lb/gal) 12.40	Funnel Viscosity (s/qt) 66	PV Calc (cP) 22.0	YP Calc (lb/100ft²) 12.400
Gel 10 sec (lb/100ft²) 8.000	Gel 10 min (lb/100ft²) 10.000	Gel 30 min (lb/100ft²) 13.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 24.5
MBT (lb/bbl)	Percent Oil (%) 59.0	Percent Water (%) 16.5	Chlorides (mg/L) 50,000.000	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V) 533.0

Daily Mud Volumes

Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings

BHA #<stringno>, <des>

Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
Nozzles (1/32")		String Length (ft)	String Wt (1000lb)
		BHA ROP (ft/hr)	

Drill String Components

Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread

AFE Number T22DC006	
Start Depth (ftKB) 17,718.0	End Depth (ftKB) 17,718.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts

Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Lloyd Dolen, ACR	432-556-0770
Nathan Barnes, ACR	432-556-0770

Rigs

Precision Drilling, 553

Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600

Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi) 4,600.0	Slow Spd No	Strokes (s...) 103
		Eff (%) 100

2, Continental-Emsco, F-1600

Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

3, Rostel, F-1600

Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

Mud Additive Amounts

Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	10.22
Blower Rental	55.00	1.0
Energy Surcharge	1.00	258.7
Engineering Service	1,050.00	1.0
Fuel Surcharge	1.00	214.5
Scale Charge	20.00	1.0
Tax	1.00	380.29
Trucking	1.00	1,300.0

Safety Checks

Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
05:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores

Wellbore Name Original Hole

Wellbore Kick Offs & Key Depths

Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...

Kicks					
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class	

Kill Notes

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 62.0	Road Condition Good	Hole Condition Good
Operations at Report Time Drilling 6.75" Lateral @ 18,522'		Planned Operations Drill 6.75" Lateral	
Operations Summary Circulate Bottoms Up. TIH From 10,780' to 17,718'. Drill 6.75" Lateral From 17,718' to 18,522'.			
Remarks			

Mud Volumes						
Active Volume (bbl) 376.6	Var Active Vol (bbl) 376.6	Balance (bbl) 376.6	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 376.6

Daily Time Log										
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com	
06:00	1.50	1.50	07:30	Drilling	Cond Mud & Circ	No			Circulate Bottoms Up at 10,811'. 1,172 Units of Gas, Mud Cut to 12.2#.	
07:30	4.00	5.50	11:30	Drilling	Trip	No			Trip In Hole From 10,811' to 17,520'. Shoot surveys and wash last 2 stands in the hole. Hole Slick. Displacement as Calculated.	
11:30	5.00	10.50	16:30	Drilling	Drilling Ahead	No			Drill 6.75" Lateral Section from 17,718' to 17,950'.	
16:30	0.50	11.00	17:00	Drilling	Rig Maintenance	No			Rig Service	
17:00	13.00	24.00	06:00	Drilling	Drilling Ahead	No			Drill 6.75" Lateral Section from 17,950' to 18,522'.	

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
16:30	Oil Base	17,970.0	12.40	68	22.0	12,000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
8.000	10.000	13.000				24.5
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	58.0	17.5	49,000.000			550.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #10, BHA #10 Production Lateral			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
10	6 3/4in, TKC63 S-1, A294899	1-2-CT-S-X-I-WT-DMF	0.66
Nozzles (1/32")		String Length (ft)	String Wt (1000lbf)
12/12/12/12/12/12		2,134.63	41
			BHA ROP (ft/hr)
			36.2

Drill String Components						
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread	
5.125" 1.83° 6/7 7.8 W/ 6 1/4" NBS Stab (FBH)	1	5 1/8		29.92	XT 39	
MWD UBHO	1	5 1/4	2.75	3.14	XT 39	
Stabilizer - Non Mag	1	5	2.75	3.33	XT 39	
NMDC	1	5 1/4	2.75	31.12	XT 39	
NMDC	1	5 1/4	2.75	30.27	XT 39	
Float Sub	1	5 1/8	2.75	2.51	XT 39	
XO Sub	1	5	2.38	2.85	Ptech 43	
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43	
XO Sub	1	5	2.81	3.38	XT 39	
Agitator	1	5	2.00	22.73	XT 39	
XO Sub	1	5	2.81	3.47	Ptech 43	

Last Drilling Parameter							
Wellbore Original Hole	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
	18,473.0	18,522.0	804.00	1.00	18.00	49.0	305
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
25	50	4,600.0	201	230	180	12,000.0	7,000.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			186.0				

AFE Number T22DC006	
Start Depth (ftKB) 17,718.0	End Depth (ftKB) 18,522.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Lloyd Dolen, ACR	432-556-0770
Nathan Barnes, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
1	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
2	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,600.0	No	52	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
3	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,600.0	No	53	100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	5.69
Blower Rental	55.00	1.0
Calcium Chloride	19.45	14.0
Energy Surcharge	1.00	372.65
Engineering Service	1,050.00	1.0
Fuel Surcharge	1.00	214.5
Lime	9.89	10.0
Scale Charge	20.00	1.0
Stellar Mul OW gal	17.00	50.0
Stellar Mul S Gal	17.45	125.0
Tax	1.00	547.8
Trucking	1.00	1,300.0

Safety Checks		
Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
05:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 54.0	Road Condition Good	Hole Condition Good
Operations at Report Time Drilling 6.75" Lateral @ 19,270'.		Planned Operations Drill 6.75" Lateral. Possible Bit Trip.	
Operations Summary Drill 6.75" Lateral From 18,522' to 19,270'.			
Remarks			

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
390.6	14.0	14.0	0.0	0.0	0.0	390.6

Daily Time Log										
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com	
06:00	7.50	7.50	13:30	Drilling	Drilling Ahead	No			Drill 6.75" Lateral Section from 18,522' to 18,807'.	
13:30	0.50	8.00	14:00	Drilling	Rig Maintenance	No			Rig Service	
14:00	16.00	24.00	06:00	Drilling	Drilling Ahead	No			Drill 6.75" Lateral Section from 18,807' to 19,270'.	

Daily Mud Checks						
Time 17:00	Type Oil Base	Depth (ftKB) 18,935.0	Density (lb/gal) 12.40	Funnel Viscosity (s/qt) 58	PV Calc (cP) 21.0	YP Calc (lbf/100ft²) 11.000
Gel 10 sec (lbf/100ft²) 7.000	Gel 10 min (lbf/100ft²) 10.000	Gel 30 min (lbf/100ft²) 12.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 23.8
MBT (lb/bbl)	Percent Oil (%) 59.0	Percent Water (%) 17.2	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V) 505.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #10, BHA #10 Production Lateral			
Bit Run 10	Drill Bit 6 3/4in, TKC63 S-1, A294899	IADC Bit Dull 1-2-CT-S-X-I-WT-DMF	TFA (incl Noz) (in²) 0.66
Nozzles (1/32") 12/12/12/12/12	String Length (ft) 2,134.63	String Wt (1000lb) 41	BHA ROP (ft/hr) 36.2

Drill String Components						
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread	
5.125" 1.83° 6/7 7.8 W/ 6 1/4" NBS Stab (FBH)	1	5 1/8		29.92	XT 39	
MWD UBHO	1	5 1/4	2.75	3.14	XT 39	
Stabilizer - Non Mag	1	5	2.75	3.33	XT 39	
NMDC	1	5 1/4	2.75	31.12	XT 39	
NMDC	1	5 1/4	2.75	30.27	XT 39	
Float Sub	1	5 1/8	2.75	2.51	XT 39	
XO Sub	1	5	2.38	2.85	Ptech 43	
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43	
XO Sub	1	5	2.81	3.38	XT 39	
Agitator	1	5	2.00	22.73	XT 39	
XO Sub	1	5	2.81	3.47	Ptech 43	

Last Drilling Parameter							
Wellbore Original Hole	Start Depth (ftKB) 19,248.0	End Depth (ftKB) 19,270.0	Cum Depth (ft) 1,552.00	Drilling Time (hr) 1.00	Cum Drill Time (hr) 41.50	Interval ROP (ft/hr) 22.0	Flow Rate (gpm) 305
WOB (1000lbf) 25	RPM (rpm) 5	SPP (psi) 4,600.0	Drill Str Wt (1000...) 201	PU Str Wt (1000lbf) 235	SO Str Wt (1000lbf) 175	Drilling Torque 12,500.0	Off Btm Tq 7,800.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F) 190.0	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Kill Notes

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

AFE Number T22DC006	
Start Depth (ftKB) 18,522.0	End Depth (ftKB) 19,270.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Lloyd Dolen, ACR	432-556-0770
Nathan Barnes, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600		
Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

2, Continental-Emsco, F-1600		
Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

3, Rostel, F-1600		
Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	15.0
Blower Rental	55.00	1.0
Calcium Chloride	19.45	28.0
Energy Surcharge	1.00	278.37
Engineering Service	1,050.00	1.0
Lime	9.89	20.0
Tax	1.00	409.2

Safety Checks		
Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
05:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name Original Hole	

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)

Comment

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)

Comment

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Partly Cloudy	Temperature (°F) 47.0	Road Condition Good	Hole Condition Good
Operations at Report Time Circulate Bottoms Up		Planned Operations Slip and Cut Drill Line. TIH. Drill 6.75" Lateral.	
Operations Summary Drill 6.75" Lateral From 19,270' to 19,473'. TOOH. Change BHA. TIH to 10,718'. Circulate Bottoms Up.			
Remarks			

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
394.4	3.8	3.8	0.0	0.0	0.0	394.4

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	7.00	7.00	13:00	Drilling	Drilling Ahead	No			Drill 6.75" Lateral Section from 19,270' to 19,473'. Motor Stalling While Sliding. Attempt Rotating With Reduced Parameters With Same Results.
13:00	8.50	15.50	21:30	Drilling	Trip	No			Pump Slug. Trip Out of Hole From 19,473' to 100'. Hole Slick. Calculated Hole Fill.
21:30	2.00	17.50	23:30	Drilling	Handling BHA	No			Change out BHA. Motor would not drain. Run NOV 5.125" 6/7 Lobe, 7.8 Stage 1.75° FBH Motor S/N: 513-36E-0096. Bit to bend: 5.09', Bit to Gamma: 43', Bit to Survey: 57'. Speed Ratio: 0.58 Rev/gal.
23:30	5.50	23.00	05:00	Drilling	Trip	No			TIH from 104' to 2106'. Pick up Agitator S/N: W1857345-1. Pressure drop across Agitator 315 psi @ 250 GPM. Continue to TIH from 2136' to 10,718'
05:00	1.00	24.00	06:00	Drilling	Cond Mud & Circ	No			Circulate Bottoms Up. 935 Units of Gas. Mud Cut to 12.1#. No Flare.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
14:00	Oil Base	19,473.0	12.40	60	22.0	11.000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
7.000	10.000	12.000				23.5
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	59.0	17.5	49,000.000			571.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #10, BHA #10 Production Lateral			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
10	6 3/4in, TKC63 S-1, A294899	1-2-CT-S-X-I-WT-DMF	0.66
Nozzles (1/32")	String Length (ft)	String Wt (1000lb)	BHA ROP (ft/hr)
12/12/12/12/12	2,134.63	41	36.2

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
5.125" 1.83° 6/7 7.8 W/ 6 1/4" NBS Stab (FBH)	1	5 1/8		29.92	XT 39
MWD UBHO	1	5 1/4	2.75	3.14	XT 39
Stabilizer - Non Mag	1	5	2.75	3.33	XT 39
NMDC	1	5 1/4	2.75	31.12	XT 39
NMDC	1	5 1/4	2.75	30.27	XT 39
Float Sub	1	5 1/8	2.75	2.51	XT 39
XO Sub	1	5	2.38	2.85	Ptech 43
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43
XO Sub	1	5	2.81	3.38	XT 39
Agitator	1	5	2.00	22.73	XT 39
XO Sub	1	5	2.81	3.47	Ptech 43

AFE Number T22DC006	
Start Depth (ftKB) 19,270.0	End Depth (ftKB) 19,473.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Lloyd Dolen, ACR	432-556-0770
Nathan Barnes, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
1	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
2	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,650.0	No	53	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
3	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,650.0	No	52	100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	31.41
Blower Rental	55.00	1.0
Calcium Chloride	19.45	49.0
Energy Surcharge	1.00	894.37
Engineering Service	1,050.00	1.0
Fuel Surcharge	1.00	429.0
Lime	9.89	50.0
Rig Wash	535.00	1.0
Scale Charge	20.00	2.0
Stellar Mul P Plus	17.65	75.0
Stellar Mul S Gal	17.45	150.0
Tax	1.00	1,314.73
Trucking	1.00	2,600.0

Safety Checks		
Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
5		
05:45	Safety Meeting	Pre-Tour Safety Meeting
5		

Wellbores	
Wellbore Name	Original Hole

Well Name: UL 21 WAR-WINK 38-47 C 3H

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	19,467.0	19,473.0	1,755.00	0.50	48.50	12.0	305
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
20	50	4,500.0	200	235	175	13,000.0	8,000.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			190.0				

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Kill Notes

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Partly Cloudy	Temperature (°F) 49.0	Road Condition Good	Hole Condition Good
Operations at Report Time Drilling 6.75" Lateral @ 20,100'.		Planned Operations Drill 6.75" Lateral	

Operations Summary
Slip and Cut Drill Line. TIH. Drill 6.75" Lateral From 19,473' to 20,100'.

Remarks

Mud Volumes						
Active Volume (bbl) 406.1	Var Active Vol (bbl) 11.8	Balance (bbl) 11.8	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 406.1

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	1.50	1.50	07:30	Drilling	Cut off Drill Line	No			Slip and Cut 128' of Drill Line. Check C.O.M.
07:30	4.50	6.00	12:00	Drilling	Trip	No			Trip in Hole From 10,718' to 19,380'. Hole Slick Except for One Bobble at 15,900'. Displacement as Calculated.
12:00	4.00	10.00	16:00	Drilling	Drilling Ahead	No			Fill Pipe and Wash to Bottom. Drill 6.75" Lateral Section from 19,473' to 19,567'. 1,082 Units of Trip Gas with Mud Cut to 12.2# and Brief 10' Flare.
16:00	0.50	10.50	16:30	Drilling	Rig Maintenance	No			Rig Service.
16:30	13.50	24.00	06:00	Drilling	Drilling Ahead	No			Drill 6.75" Lateral Section from 19,567' to 20,100'.

Daily Mud Checks						
Time 16:45	Type Oil Base	Depth (ftKB) 19,600.0	Density (lb/gal) 12.30	Funnel Viscosity (s/qt) 63	PV Calc (cP) 21.0	YP Calc (lb/100ft²) 12,000
Gel 10 sec (lb/100ft²) 8.000	Gel 10 min (lb/100ft²) 10.000	Gel 30 min (lb/100ft²) 12.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 23.5
MBT (lb/bbl)	Percent Oil (%) 59.0	Percent Water (%) 17.5	Chlorides (mg/L) 48,000.000	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V) 545.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #11, BHA #11 Production Lateral			
Bit Run 11	Drill Bit 6 3/4in, TKC63 S-1, A295643	IADC Bit Dull 1-4-CT-T-X-I-WT-TD	TFA (incl Noz) (in²) 0.66
Nozzles (1/32") 12/12/12/12/12/12	String Length (ft) 2,136.16	String Wt (1000lb) 41	BHA ROP (ft/hr) 34.1

Drill String Components						
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread	
5.125" 1.75° 6/7 7.8 W/ 6 1/4" NBS Stab (FBH)	1	5 1/8		31.01	XT 39	
MWD UBHO	1	5 1/4	2.75	3.14	XT 39	
Stabilizer - Non Mag	1	5	2.75	3.33	XT 39	
NMDC	1	5 1/4	2.75	31.12	XT 39	
NMDC	1	5 1/4	2.75	30.27	XT 39	
Float Sub	1	5 1/8	2.75	2.51	XT 39	
XO Sub	1	5	2.38	2.85	Ptech 43	
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43	
XO Sub	1	5	2.81	3.38	XT 39	
Agitator	1	5	2.00	23.17	XT 39	
XO Sub	1	5	2.81	3.47	Ptech 43	

Last Drilling Parameter							
Wellbore Original Hole	Start Depth (ftKB) 20,085.0	End Depth (ftKB) 20,100.0	Cum Depth (ft) 627.00	Drilling Time (hr) 0.50	Cum Drill Time (hr) 17.50	Interval ROP (ft/hr) 30.0	Flow Rate (gpm) 305
WOB (1000lb) 25	RPM (rpm) 50	SPP (psi) 4,800.0	Drill Str Wt (1000...) 203	PU Str Wt (1000lb) 235	SO Str Wt (1000lb) 165	Drilling Torque 13,500.0	Off Btm Tq 9,500.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F) 188.0	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

AFE Number T22DC006	
Start Depth (ftKB) 19,473.0	End Depth (ftKB) 20,100.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Lloyd Dolen, ACR	432-556-0770
Nathan Barnes, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600			
Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

2, Continental-Emsco, F-1600			
Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi) 4,900.0	Slow Spd No	Strokes (s...) 53	Eff (%) 100

3, Rostel, F-1600			
Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi) 4,900.0	Slow Spd No	Strokes (s...) 52	Eff (%) 100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Blower Rental	55.00	1.0
Calcium Chloride	19.45	28.0
Energy Surcharge	1.00	286.55
Engineering Service	1,050.00	1.0
Forklift	110.00	1.0
Fuel Surcharge	1.00	404.25
Lime	9.89	25.0
Scale Charge	20.00	1.0
Stellar Mul OW gal	17.00	50.0
Tax	1.00	421.24
Trucking	1.00	2,450.00

Safety Checks		
Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
05:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Kicks

Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
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Kill Notes

Lost Circulation

Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date
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Interval Problems (NPT)

Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
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Comment

Interval Lessons

Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
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Comment

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity

Large empty area for detailed notes or data entry.

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Partly Cloudy	Temperature (°F) 50.0	Road Condition Good	Hole Condition Good
Operations at Report Time Drilling 6.75" Lateral @ 20,900'.		Planned Operations Drill 6.75" Lateral	
Operations Summary Drill 6.75" Lateral From 20,100' to 20,900'.			
Remarks			

Mud Volumes						
Active Volume (bbl) 421.1	Var Active Vol (bbl) 15.0	Balance (bbl) 15.0	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 421.1

Daily Time Log										
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com	
06:00	6.50	6.50	12:30	Drilling	Drilling Ahead	No			Drill 6.75" Lateral Section from 20,100' to 20,335'.	
12:30	0.50	7.00	13:00	Drilling	Wiper/Condition on Trip	No			Short Trip Out From 20,335' to 20,045' Due to Ash Content. One 20K Pull at 20,060'. Short Trip In with No Problems.	
13:00	6.00	13.00	19:00	Drilling	Drilling Ahead	No			Drill 6.75" Lateral Section from 20,335' to 20,525'.	
19:00	0.50	13.50	19:30	Drilling	Rig Maintenance	No			Rig Service. Take SPR's	
19:30	10.50	24.00	06:00	Drilling	Drilling Ahead	No			Drill 6.75" Lateral Section from 20,525' to 20,900'.	

Daily Mud Checks						
Time 17:00	Type Oil Base	Depth (ftKB) 20,480.0	Density (lb/gal) 12.30	Funnel Viscosity (s/qt) 64	PV Calc (cP) 23.0	YP Calc (lbf/100ft²) 12,000
Gel 10 sec (lbf/100ft²) 8.000	Gel 10 min (lbf/100ft²) 11.000	Gel 30 min (lbf/100ft²) 13.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 23.5
MBT (lb/bbl)	Percent Oil (%) 59.0	Percent Water (%) 17.5	Chlorides (mg/L) 50,000.000	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V) 544.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #11, BHA #11 Production Lateral			
Bit Run 11	Drill Bit 6 3/4in, TKC63 S-1, A295643	IADC Bit Dull 1-4-CT-T-X-I-WT-TD	TFA (incl Noz) (in²) 0.66
Nozzles (1/32") 12/12/12/12/12/12		String Length (ft) 2,136.16	String Wt (1000lbf) 41
		BHA ROP (ft/hr) 34.1	

Drill String Components						
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread	
5.125" 1.75° 6/7 7.8 W/ 6 1/4" NBS Stab (FBH)	1	5 1/8		31.01	XT 39	
MWD UBHO	1	5 1/4	2.75	3.14	XT 39	
Stabilizer - Non Mag	1	5	2.75	3.33	XT 39	
NMDC	1	5 1/4	2.75	31.12	XT 39	
NMDC	1	5 1/4	2.75	30.27	XT 39	
Float Sub	1	5 1/8	2.75	2.51	XT 39	
XO Sub	1	5	2.38	2.85	Ptech 43	
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43	
XO Sub	1	5	2.81	3.38	XT 39	
Agitator	1	5	2.00	23.17	XT 39	
XO Sub	1	5	2.81	3.47	Ptech 43	

Last Drilling Parameter							
Wellbore Original Hole	Start Depth (ftKB) 20,750.0	End Depth (ftKB) 20,900.0	Cum Depth (ft) 1,427.00	Drilling Time (hr) 4.50	Cum Drill Time (hr) 40.50	Interval ROP (ft/hr) 33.3	Flow Rate (gpm) 305
WOB (1000lbf) 25	RPM (rpm) 50	SPP (psi) 4,900.0	Drill Str Wt (1000...) 200	PU Str Wt (1000lbf) 255	SO Str Wt (1000lbf) 150	Drilling Torque 14,000.0	Off Btm Tq 9,000.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F) 190.0	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

AFE Number T22DC006	
Start Depth (ftKB) 20,100.0	End Depth (ftKB) 20,900.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Lloyd Dolen, ACR	432-556-0770
Nathan Barnes, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600			
Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi) 4,900.0	Slow Spd No	Strokes (s...) 52	Eff (%) 100

2, Continental-Emsco, F-1600			
Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi) 4,900.0	Slow Spd No	Strokes (s...) 53	Eff (%) 100

3, Rostel, F-1600			
Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	8.43
Blower Rental	55.00	1.0
Calcium Chloride	19.45	56.0
Energy Surcharge	1.00	238.96
Engineering Service	1,050.00	1.0
Lime	9.89	50.0
Tax	1.00	351.28

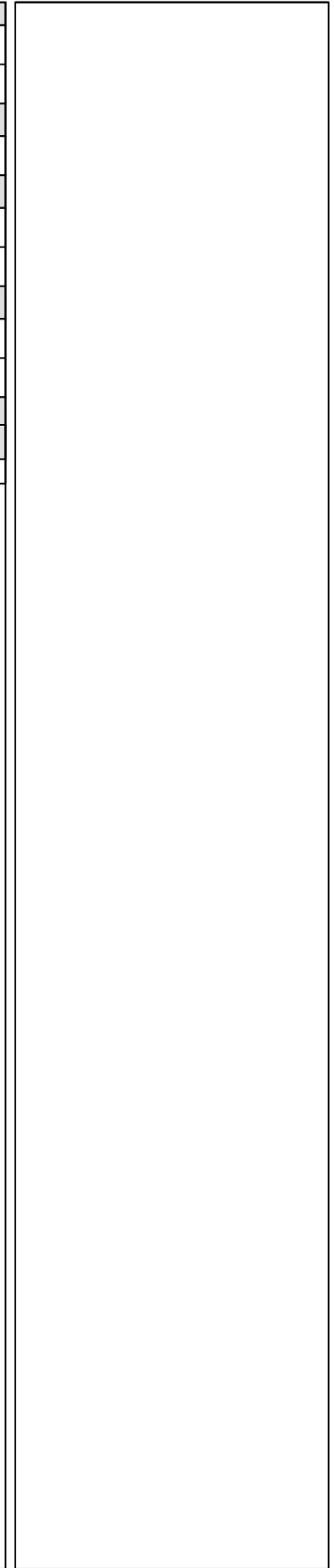
Safety Checks		
Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
05:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name	Original Hole

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Kicks						
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class		
Kill Notes						
Lost Circulation						
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date	
Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						
Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
Comment						
Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity



Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Partly Cloudy	Temperature (°F) 51.0	Road Condition Good	Hole Condition Good
Operations at Report Time Drilling 6.75" Lateral @ 21,700'.		Planned Operations Drill 6.75" Lateral to +/- 20,901'. Circulate Hole Clean. TOOH. LD BHA. Test BOPs.	
Operations Summary Drill 6.75" Lateral From 20,900' to 21,700'.			
Remarks			

Mud Volumes						
Active Volume (bbl) 436.1	Var Active Vol (bbl) 15.0	Balance (bbl) 15.0	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 436.1

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	9.00	9.00	15:00	Drilling	Drilling Ahead	No			Drill 6.75" Lateral Section from 20,900' to 21,193'.
15:00	0.50	9.50	15:30	Drilling	Rig Maintenance	No			Rig Service. Get SPR's.
15:30	14.50	24.00	06:00	Drilling	Drilling Ahead	No			Drill 6.75" Lateral Section from 21,193' to 21,700'.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
17:30	Oil Base	21,300.0	12.40	64	22.0	12,000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
8.000	10.000	13.000				23.8
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	58.2	18.0	50,000.000			501.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #11, BHA #11 Production Lateral			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
11	6 3/4in, TKC63 S-1, A295643	1-4-CT-T-X-I-WT-TD	0.66

Nozzles (1/32")	String Length (ft)	String Wt (1000lbf)	BHA ROP (ft/hr)
12/12/12/12/12/12	2,136.16	41	34.1

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
5.125" 1.75° 6/7 7.8 W/ 6 1/4" NBS Stab (FBH)	1	5 1/8		31.01	XT 39
MWD UBHO	1	5 1/4	2.75	3.14	XT 39
Stabilizer - Non Mag	1	5	2.75	3.33	XT 39
NMDC	1	5 1/4	2.75	31.12	XT 39
NMDC	1	5 1/4	2.75	30.27	XT 39
Float Sub	1	5 1/8	2.75	2.51	XT 39
XO Sub	1	5	2.38	2.85	Ptech 43
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43
XO Sub	1	5	2.81	3.38	XT 39
Agitator	1	5	2.00	23.17	XT 39
XO Sub	1	5	2.81	3.47	Ptech 43

Last Drilling Parameter							
Wellbore Original Hole	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
	21,193.0	21,700.0	2,227.00	14.50	64.00	35.0	305
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
26	50	5,000.0	198	265	140	15,500.0	9,500.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)
			190.0				

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Lost Circulation	
Start Date	Top Depth (ftKB)

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

AFE Number T22DC006	
Start Depth (ftKB) 20,900.0	End Depth (ftKB) 21,700.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Lloyd Dolen, ACR	432-556-0770
Nathan Barnes, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
1	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
	No	

2, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
2	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
5,000.0	No	53
Eff (%)		100

3, Rostel, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
3	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
5,000.0	No	53
Eff (%)		100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	33.0
Blower Rental	55.00	1.0
Calcium Chloride	19.45	63.0
Energy Surcharge	1.00	855.0
Engineering Service	1,050.00	1.0
Lime	9.89	35.0
Stellar Mul Mod	1,285.00	1.0
Stellar Mul OW gal	17.00	75.0
Stellar Mul P Plus	17.65	75.0
Stellar Mul S Gal	17.45	135.0
Tax	1.00	1,256.85

Safety Checks		
Time	Type	Des
17:4	Safety Meeting	Pre-Tour Safety Meeting
5		
05:4	Safety Meeting	Pre-Tour Safety Meeting
5		

Wellbores	
Wellbore Name	
Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 43.0	Road Condition Good	Hole Condition Good
Operations at Report Time Testing BOPs	Planned Operations Test BOPs. Pick Up ThruBit BHA. TIH. Circulate Hole Clean. Deploy Logging Tools. TOOH Logging.		

Operations Summary
Drill 6.75" Lateral From 21,700' to 21,860'. Circulate Hole Clean. TOOH. LD BHA.

Remarks
TD UL 21 War-Wink 38-47 3H at 21,860' at 12:00 on 3/28/2023.

Mud Volumes							
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)	
439.1	3.0	3.0	0.0	0.0	0.0	439.1	

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	6.00	6.00	12:00	Drillin g	Drilling Ahead	No			Drill 6.75" Lateral Section from 21,700' to 21,860'.
12:00	2.50	8.50	14:30	Drillin g	Cond Mud & Circ	No			Circulate 1.5 Bottoms Up at 330 GPM, 5,200 PSI, 60 RPM, 9,000 TQ. Pump Slug and Drop Schlumberger Rabbit.
14:30	9.50	18.00	00:00	Drillin g	Trip	No			TOOH from 21,860' to 2,136'. Checked flow twice. Fill was as calculated. Removed drift with wire tail. Laid down xo subs and agitator. Redropped drift with wire tail. Resumed TOOH to 105'. Some Tight Spots Between 20,350' and 20,040'.
00:00	1.50	19.50	01:30	Drillin g	Handling BHA	No			Pulled MWD tool. Drained MM. Laid down WBS directional assy & bit. Began testing choke manifold.
01:30	1.00	20.50	02:30	Drillin g	Pressure Test	No			Retrieved wear bushing. Opened top casing valve. Inserted test plug. Filled BOP stack with fresh water. Finished testing choke manifold to 250/5000 psi.
02:30	3.50	24.00	06:00	Drillin g	Pressure Test	No			Replaced leaking ODS bonnet seal on blind ram. Pressure Tested Blinds to 250 Low, 5,000 High.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
17:00	Oil Base	21,860.0	12.45	66	23.0	12.000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
8.000	10.000	13.000				24.5
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	56.5	19.0	51,000.000			555.0

Daily Mud Volumes			
Tank/Action/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #11, BHA #11 Production Lateral			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
11	6 3/4in, TKC63 S-1, A295643	1-4-CT-T-X-I-WT-TD	0.66
Nozzles (1/32")	String Length (ft)	String Wt (1000lb)	BHA ROP (ft/hr)
12/12/12/12/12/12	2,136.16	41	34.1

Drill String Components						
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread	
5.125" 1.75° 6/7 7.8 W/ 6 1/4" NBS Stab (FBH)	1	5 1/8		31.01	XT 39	
MWD UBHO	1	5 1/4	2.75	3.14	XT 39	
Stabilizer - Non Mag	1	5	2.75	3.33	XT 39	
NMDC	1	5 1/4	2.75	31.12	XT 39	
NMDC	1	5 1/4	2.75	30.27	XT 39	
Float Sub	1	5 1/8	2.75	2.51	XT 39	
XO Sub	1	5	2.38	2.85	Ptech 43	

AFE Number T22DC006	
Start Depth (ftKB) 21,700.0	End Depth (ftKB) 21,860.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
1	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
2	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
5,200.0	No	56	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
3	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
5,200.0	No	48	100

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	31.12
Blower Rental	55.00	1.0
Calcium Chloride	19.45	56.0
Energy Surcharge	1.00	757.98
Engineering Service	1,050.00	1.0
Fuel Surcharge	1.00	214.5
Lime	9.89	50.0
Scale Charge	20.00	1.0
Stellar Mul OW gal	17.00	50.0
Stellar Mul P Plus	17.65	65.0
Stellar Mul S Gal	17.45	70.0
Tax	1.00	1,114.24
Trucking	1.00	1,300.0

Safety Checks		
Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
5		Safety Meeting
05:45	Safety Meeting	Pre-Tour Safety Meeting
5		Safety Meeting

Wellbores	
Wellbore Name	Original Hole

Well Name: UL 21 WAR-WINK 38-47 C 3H

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
Drill Pipe	63	4 1/2	3.76	2,001.41	Ptech 43
XO Sub	1	5	2.81	3.38	XT 39
Agitator	1	5	2.00	23.17	XT 39
XO Sub	1	5	2.81	3.47	Ptech 43

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	21,700.0	21,860.0	2,387.00	6.00	70.00	26.7	305
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
26	50	5,000.0	198	270	135	14,000.0	9,500.0
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...
			190.0				

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Kill Notes

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)

Comment

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)

Comment

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Partly Cloudy	Temperature (°F) 52.0	Road Condition Good	Hole Condition Good
Operations at Report Time Deploying Logging Tools		Planned Operations Log / Trip Out of Hole to Surface. LD Logging Tools and BHA. P/U Cleanout BHA. TIH. Cut Drill Line. Circulate Hole Clean.	

Operations Summary
 Test BOPs. P/U Logging BHA. TIH to 12,310'. Circulate Bottoms Up. TIH to 21,860'. Circulate. Deploy Logging Tools.

Remarks

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
0.0	-439.1	-439.1	0.0	0.0	0.0	0.0

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	2.00	2.00	08:00	Drilling	Pressure Test	No			Test Pipe Rams and Valves to 250 Low, 5,000 High. Test Annular to 250 Low, 3,500 High.
08:00	0.50	2.50	08:30	Drilling	RU Support Equipment	No			Remove Test Plug and Install Wear Bushing. Close Casing Valve. Verify Choke and BOP Valve Alignment.
08:30	1.00	3.50	09:30	Drilling	Handling BHA	No			Make Up Schlumberger ThruBit BHA.
09:30	6.00	9.50	15:30	Drilling	Wiper/Condition Trip	No			TIH From Surface to 12,310'. Hole Slick. Calculated Pipe Displacement.
15:30	1.50	11.00	17:00	Drilling	Cond Mud & Circ	No			Circulate Bottoms Up through open choke at 12,310'. 955 Units of Gas with temporary 30 bbl gain and 15 - 25' Flare.
17:00	3.00	14.00	20:00	Drilling	Wiper/Condition Trip	No			TIH From 12,310' to 19,950'. Hole Slick. Filled DP at 30 to 40 stand intervals. Calculated Pipe Displacement.
20:00	2.00	16.00	22:00	Drilling	Reaming	No			Precautionary washed/reamed 19,950' to 20,405'. Pulled same 5 stands out on elevators. Hole was slick.
22:00	1.50	17.50	23:30	Drilling	Wiper/Condition Trip	No			TIH From 19,950' to 21,860' TD. Hole was Slick. Filled DP. Calculated Pipe Displacement.
23:30	2.50	20.00	02:00	Drilling	Cond Mud & Circ	No			Circulated Bottoms Up X2 at 350 GPM from TD while reciprocated 90' stroke and rotated 60 RPM. 1120 Units of Trip Gas. Pulled out 2 stands DP. Bit depth at 21,673'.
02:00	4.00	24.00	06:00	Drilling	E-Logging	No			PUMU Schlumberger ThruBit memory logging tools into DP. Tested tool string. RU lubricator & grease head injection unit. RU pump plumbing to side outlet. RIH on WL to 10,000'.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
16:30	Oil Base	21,860.0	12.45	66	23.0	12.000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
8.000	10.000	13.000				24.5
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	57.0	18.5	51,000.000			555.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #12, BHA #12 ThruBit Logging			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
12	6 3/4in, ThruBit, JJ1681	0-0-NO-X-X-I-NO-LOG	28.00
Nozzles (1/32")		String Length (ft)	String Wt (1000lbft)
		13.10	1
			BHA ROP (ft/hr)

AFE Number T22DC006	
Start Depth (ftKB) 21,860.0	End Depth (ftKB) 21,860.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
1	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
4,000.0	No	60
		Eff (%)
		100

2, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
2	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
4,000.0	No	60
		Eff (%)
		100

3, Rostel, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
3	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Blower Rental	55.00	1.0
Energy Surcharge	1.00	246.0
Engineering Service	1,050.00	1.0
Fuel Surcharge	1.00	214.5
Scale Charge	20.00	1.0
Stellar Mul P Plus	17.65	60.0
Stellar Mul S Gal	17.45	70.0
Tax	1.00	361.62
Trucking	1.00	1,300.0

Safety Checks		
Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
5		
05:45	Safety Meeting	Pre-Tour Safety Meeting
5		

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Drill String Components						
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread	
Bit Sub	1	4 3/4	2.75	2.99	3 1/2 IF	
Float Sub	1	5 3/16	2.50	5.18	4 FH	
XO Sub	1	5 3/16	2.81	1.74	3 1/2 IF	
XO Sub	1	5 1/4	2.50	2.69	PT 43	

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	21,860.0	21,860.0					
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
Kill Notes				

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 51.0	Road Condition Good	Hole Condition Good
Operations at Report Time LD Logging Tools		Planned Operations LD Logging Tools. Pick Up Clean Out BHA. TIH. Circulate Hole Clean. LD Drill Pipe.	

Operations Summary
 Deploy ThruBit Logging Tools. TOOH Logging From 21,672' to 4,940'. TOOH to Surface.

Remarks

Mud Volumes						
Active Volume (bbl) 0.0	Var Active Vol (bbl) 0.0	Balance (bbl) 0.0	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 0.0

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	1.50	1.50	07:30	Drillin g	E-Logging	No			Pump Down ThruBit Logging Tools From 10,000' to 21,672'; 300 GPM, 3,200 PSI. Test Tool String and Release Wireline.
07:30	1.50	3.00	09:00	Drillin g	E-Logging	No			Pull Wireline Out From 21,672' to Surface.
09:00	1.00	4.00	10:00	Drillin g	E-Logging	No			Remove Grease Head, Circulating Iron, and Crossover. Rig Down Wireline Sheaves and Wireline.
10:00	11.00	15.00	21:00	Drillin g	E-Logging	No			Trip Out of Hole Logging at 30 FPM From 21,672' to 10,848'. Tight spot @ 20,197'
21:00	1.00	16.00	22:00	Drillin g	Cond Mud & Circ	No			Circ out gas and slug from 10,848'. Recorded 1,018 max gas. Pumped fresh slug.
22:00	5.50	21.50	03:30	Drillin g	E-Logging	No			Trip Out of Hole Logging at 30 FPM From 10,848' to 4,940'.
03:30	2.50	24.00	06:00	Drillin g	Trip	No			Replaced RH rubber with trip nipple. Finished Trip Out of Hole 100 FPM from 4,940' to surface.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
16:30	Oil Base	21,860.0	12.40	66	23.0	12.000
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
8.000	10.000	13.000				24.5
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	57.0	18.5	51,000.000			536.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #12, BHA #12 ThruBit Logging			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
12	6 3/4in, ThruBit, JJ1681	0-0-NO-X-X-I-NO-LOG	28.00
Nozzles (1/32")		String Length (ft)	String Wt (1000lbf)
		13.10	1
		BHA ROP (ft/hr)	

Drill String Components						
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread	
Bit Sub	1	4 3/4	2.75	2.99	3 1/2 IF	
Float Sub	1	5 3/16	2.50	5.18	4 FH	
XO Sub	1	5 3/16	2.81	1.74	3 1/2 IF	
XO Sub	1	5 1/4	2.50	2.69	PT 43	

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	21,860.0	21,860.0					
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

AFE Number T22DC006	
Start Depth (ftKB) 21,860.0	End Depth (ftKB) 21,860.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
1	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
3,200.0	No	60	100

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
2	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
3,200.0	No	40	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Rod Dia (in)	
3	1,600.0		
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)	
5	12.00	0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
3,200.0	No	40	100

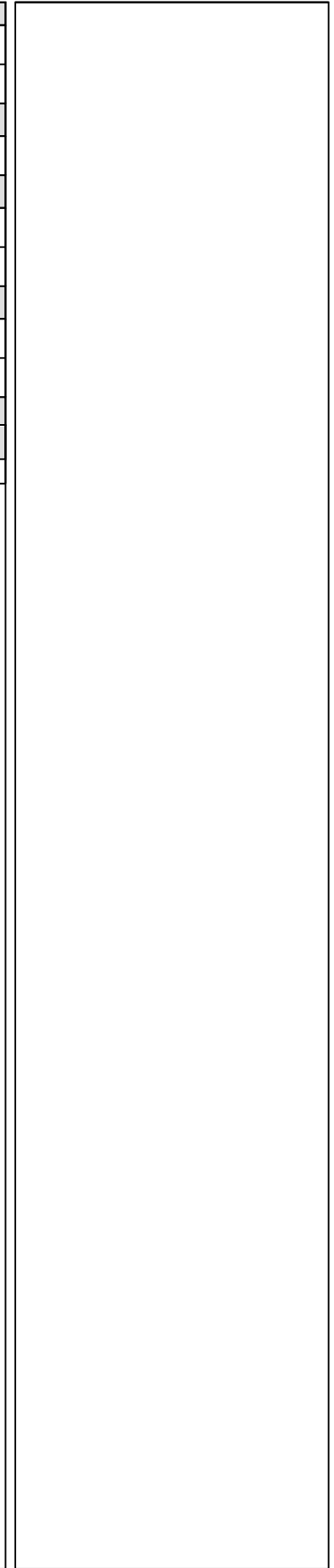
Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	6.4
Blower Rental	55.00	1.0
Energy Surcharge	1.00	134.61
Engineering Service	1,050.00	1.0
	0	
Tax	1.00	197.88

Safety Checks		
Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
05:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Kicks						
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class		
Kill Notes						
Lost Circulation						
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date	
Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						
Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
Comment						
Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity



Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Partly Cloudy	Temperature (°F) 42.0	Road Condition Good	Hole Condition Good
Operations at Report Time LD Drill Pipe at 15,000'.		Planned Operations LD DP to 12,000'. Circulate BU. TOOH to Surface. LD BHA. Rig Up and Run Production Casing.	

Operations Summary
 LD Logging Tools. LD Logging BHA. PU Cleanout BHA. TIH to 10,684'. Circulate Bottoms Up. Cut Drill Line. TIH to 21,860'. Circulate Hole Clean. LD Drill Pipe From 21,860' to 15,000'.

Remarks

Mud Volumes						
Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
0.0	0.0	0.0	0.0	0.0	0.0	0.0

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	1.00	1.00	07:00	Drilling	E-Logging	No			Lay Down Schlumberger ThruBit Triple Combo and Sonic Tools.
07:00	1.00	2.00	08:00	Drilling	Handling BHA	No			Lay Down Schlumberger ThruBit BHA. Make Up Reed TKC 63, Bit Sub, and XO.
08:00	5.50	7.50	13:30	Drilling	Trip	No			Trip In Hole From Surface to 10,683' with Calculated Displacement. Fill Pipe Every 30 Stands. Pull Trip Nipple and Install Rotating Head.
13:30	1.00	8.50	14:30	Drilling	Cond Mud & Circ	No			Circulate Bottoms Up. 320 GPM, 2030 PSI. 1,029 Units of Gas. No Flare.
14:30	1.50	10.00	16:00	Drilling	Cut off Drill Line	No			Hang Blocks. Slip and Cut 14 Wraps of Drill Line. Calibrate Blocks. Check C.O.M.
16:00	5.00	15.00	21:00	Drilling	Wiper/Condition Trip	No			Trip In Hole From 10,683' to 21,860' TD with Calculated Displacement. Hole Slick. Fill Pipe Every 30 Stands.
21:00	2.00	17.00	23:00	Drilling	Cond Mud & Circ	No			Circulate Bottoms Up 1.5X at 320 - 350 GPM. Some mud lost at 350 GPM. 1,306 Units of Gas. No Flare.
23:00	7.00	24.00	06:00	Drilling	LDDP	No			Pumped slug. Laid down 4 1/2" DP 21,860' to 15,000'. Hole slick. Fill ups averaged 3.3 bbls per 5 stands.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
16:00	Oil Base	21,860.0	12.40	68	23.0	12.000
8.000	Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	Solids (%)
	8.000	10.000	13.000			24.5
	MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)
		57.0	18.5	51,000.000		528.0
						Electric Stab (V)
						528.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #13, BHA #13 Clean Out Run			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
13	6 3/4in, TKC63 S-1, A295449	1-1-WT-A-X-I-NO-TD	0.66
Nozzles (1/32")		String Length (ft)	String Wt (1000lbf)
12/12/12/12/12/12		5.64	0
Drill String Components			
Item Des	Jts	OD (in)	ID (in)
Bit Sub	1	4 3/4	2.50
XO Sub	1	5 1/8	2.50

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	21,860.0	21,860.0		0.00			
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

AFE Number T22DC006	
Start Depth (ftKB) 21,860.0	End Depth (ftKB) 21,860.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 2nd Intermediate, 10,708.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
1	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,100.0	No	60	100

2, Continental-Emsco, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
2	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,100.0	No	60	100

3, Rostel, F-1600			
Pump #	Pwr (hp)	Stroke (in)	Vol/Stk OR (b...)
3	1,600.0	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)	Eff (%)
4,100.0	No	60	100

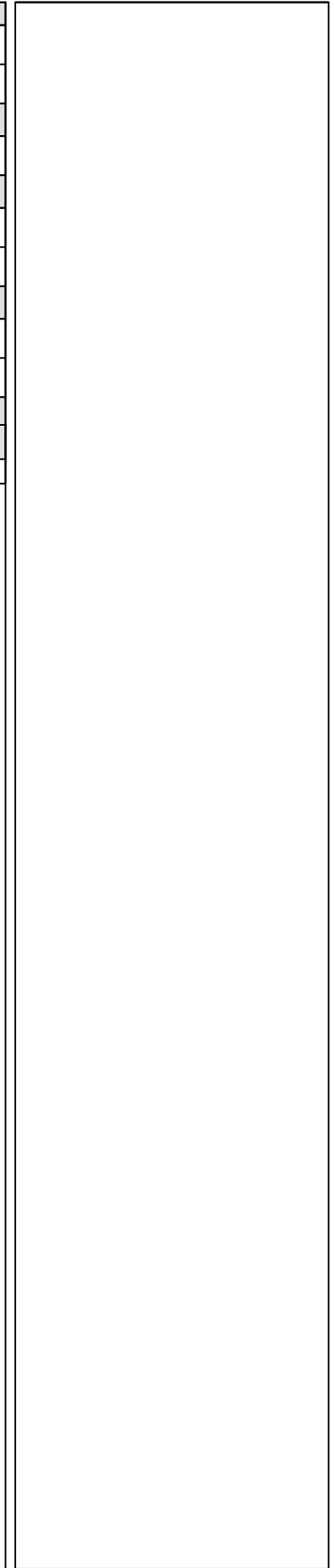
Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Barite Bulk	248.00	3.0
Blower Rental	55.00	1.0
Energy Surcharge	1.00	92.45
Engineering Service	1,050.00	1.0
Tax	1.00	135.9

Safety Checks		
Time	Type	Des
06:10	PJSM	PJSM on LD Logging Tools
17:45	Safety Meeting	Pre-Tour Safety Meeting
05:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Original Hole	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Kicks						
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class		
Kill Notes						
Lost Circulation						
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date	
Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						
Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
Comment						
Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity



Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Partly Cloudy	Temperature (°F) 55.0	Road Condition Good	Hole Condition Good
Operations at Report Time Running Production Casing at 11,355'.		Planned Operations Run Production Casing to 21,829'. Circulate Prior to Cementing. Cement Production Casing.	

Operations Summary
 LD Drill Pipe From 15,000' to 12,000'. Circulate Surface to Surface. LD Drill Pipe to 9,900'. TOOH to Surface. Pull Wear Bushing. Rig Up Casing Crew. Run Production Casing From Surface to 11,355'.

Remarks
 Notified Jeanette (Operator #13), of Intent to Run and Cement Production Casing at 09:00 on 4/1/2023.

Mud Volumes

Active Volume (bbl)	Var Active Vol (bbl)	Balance (bbl)	Tank Volume (bbl)	Additions (bbl)	Losses (bbl)	Hole Volume (bbl)
0.0	0.0	0.0	0.0	0.0	0.0	0.0

Daily Time Log

Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	3.00	3.00	09:00	Drilling	Trip	No			Lay Down Drill Pipe From 15,000' to 12,000'. Hole Slick. Calculated Fill.
09:00	1.00	4.00	10:00	Drilling	Cond Mud & Circ	No			Circulate Bottoms Up. 1,184 Units of Gas. 0.1# Mud Cut. No Flare. Circulate Out Previous Slug. Pump Slug.
10:00	2.00	6.00	12:00	Drilling	Trip	No			Lay Down Drill Pipe From 12,000' to 9,900'. Hole Slick. Calculated Fill. Pull Trip Nipple and Install Rotating Head.
12:00	4.00	10.00	16:00	Drilling	Trip	No			Trip Out of Hole From 9,900' to Surface with Calculated Fill.
16:00	1.00	11.00	17:00	Drilling	RD Support Equipment	No			LD BHA. Pull Wear Bushing. Clean and Clear Rig Floor.
17:00	1.00	12.00	18:00	Drilling	RU Support Equipment	No			Rig Up Internal CRT, Power Tongs, Torque Turn, Bail Extensions and 5" Casing Elevators. Hold PJSM with Precision, Butch's, VAM, and Innovex on Running Casing. Make Up Well Control Safety Valves.
18:00	1.00	13.00	19:00	Drilling	Run CSG	No			Make Up Shoe, 1 Joint 5" Casing, Latch Collar, 1 Joint 5" Casing, Toe Sleeve, Pup Joint, and Toe Sleeve. Test Floats. Function Tested Annular.
19:00	6.50	19.50	01:30	Drilling	Run CSG	No			Run 5" 18# P110 RY VAM Sprint SF From Surface to 7,966'. Fill on the Fly and Top Off As Needed. Calculated Displacement Returned. Cut Mud Wt to 12.3 with Diesel.
01:30	2.50	22.00	04:00	Drilling	Run CSG	No			Run 5" 18# P110 CY ANACONDA SP From 7,966' to 9,966'. Fill on the Fly and Top Off As Needed. Calculated Displacement Returned. Cut Mud Wt to 12.3 with Diesel.
04:00	2.00	24.00	06:00	Drilling	Run CSG	No			Run 5" 18# P110 RY VAM Sprint SF from 9,966' to 11,355'. Removed trip nipple. Inserted RH rubber. Fill on the Fly and Top Off As Needed. Calculated Displacement Returned. Cut Mud Wt to 12.3 with Diesel.

Daily Mud Checks

Time 16:30	Type Oil Base	Depth (ftKB) 21,860.0	Density (lb/gal) 12.50	Funnel Viscosity (s/qt) 70	PV Calc (cP) 24.0	YP Calc (lbf/100ft²) 12.000
Gel 10 sec (lbf/100ft²) 8.000	Gel 10 min (lbf/100ft²) 10.000	Gel 30 min (lbf/100ft²) 13.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 25.0
MBT (lb/bbl)	Percent Oil (%) 57.0	Percent Water (%) 18.0	Chlorides (mg/L) 50,000.000	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V) 511.0

Daily Mud Volumes

Tank/Addition/Loss	Type	Volume (bbl)	Subtype

AFE Number T22DC006	
Start Depth (ftKB) 21,860.0	End Depth (ftKB) 21,860.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 5" X 5.5" Production Casing, 21,829.0ftKB	

Daily Contacts

Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770

Rigs

Precision Drilling, 553

Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600

Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

2, Continental-Emsco, F-1600

Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

3, Rostel, F-1600

Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b...) 0.069
P (psi)	Slow Spd	Strokes (s...) Eff (%)

Mud Additive Amounts

Des	Field Est (Cost/unit)	Consumed
Blower Rental	55.00	1.0
Drum Disposal	50.00	8.0
Energy Surcharge	1.00	294.55
Engineering Service	1,050.00	1.0
Oil Dry	13.00	21.0
Shrink Wrap	22.00	24.0
Stellar Mul OW gal	17.00	150.0
Tax	1.00	432.99
Tote Disposal	115.00	9.0

Safety Checks

Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
18:00	PJSM	PJSM on Running Casing
05:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores

Wellbore Name
Original Hole

Wellbore Kick Offs & Key Depths

Type	Top Depth (ftKB)
Kick Off	10,855.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Drill Strings

BHA #13, BHA #13 Clean Out Run

Bit Run 13	Drill Bit 6 3/4in, TKC63 S-1, A295449	IADC Bit Dull 1-1-WT-A-X-I-NO-TD	TFA (incl Noz) (in²) 0.66
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Nozzles (1/32") 12/12/12/12/12/12	String Length (ft) 5.64	String Wt (1000lbf) 0	BHA ROP (ft/hr)
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Drill String Components

Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread
Bit Sub	1	4 3/4	2.50	2.29	XT39
XO Sub	1	5 1/8	2.50	2.85	PT 43

Last Drilling Parameter

Wellbore Original Hole	Start Depth (ftKB) 21,860.0	End Depth (ftKB) 21,860.0	Cum Depth (ft)	Drilling Time (hr) 0.00	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks

Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
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Kill Notes

Lost Circulation

Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date
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Interval Problems (NPT)

Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
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Comment

Interval Lessons

Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
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Comment

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity
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Wellbore Kick Offs & Key Depths

Type	Top Depth (ftKB)
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 50.0	Road Condition Good	Hole Condition Good
Operations at Report Time Waiting On Cement		Planned Operations WOC. ND BOPs. Set casing hanger and packoff. Install well cap. LDDP from derrick. Clean mud tanks.	

Operations Summary
 Circulate Bottoms Up. Run 5.5" Production Casing to 21,829'. Circulate Prior to Cementing. Cement Casing. WOC.

Remarks

Mud Volumes						
Active Volume (bbl) 0.0	Var Active Vol (bbl) 0.0	Balance (bbl) 0.0	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 0.0

Daily Time Log

Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	1.00	1.00	07:00	Drillin g	Run CSG	No			Swap Elevators, Slips, and Tong Dies to 5 1/2". Make Up 5" x 5 1/2" Crossover. Run 5 1/2" Casing 11,450'.
07:00	1.00	2.00	08:00	Drillin g	Cond Mud & Circ	No			Engage CRT. Fill Pipe and Break Circulate. Stage Up to 260 GPM and Circulate Bottoms Up. 1,155 Units of Gas. 0.6# Mud Cut. No Flare.
08:00	10.00	12.00	18:00	Drillin g	Run CSG	No			Run 5 1/2" 23# P110 MS VAM Sprint SF Casing From 11,450' to 21,829'. Fill Pipe on the Fly and Top Off as Needed. Calculated Displacement. Continue Cutting MW to 12.3 ppg. Shoe Set at 21,829', Top of FC at 21,777', Top of 5" x 5.5" XO at 10,473'.
18:00	1.00	13.00	19:00	Drillin g	RU Support Equipment	No			Rig Down Casing Crew. Install Cement Head.
19:00	2.00	15.00	21:00	Drillin g	Cond Mud & Circ	No			Stage pump rate up from 130 to 210 gpm - seepage losses started @ 210 gpm. Backed off rate to 180 gpm and circulated 1.5X bottoms up. 1,006 units of TG.
21:00	2.50	17.50	23:30	Drillin g	Cond Mud & Circ	No			Continued circulating while wait on backup pump truck from American Cementing. Laid down 13 stands DP from derrick
23:30	3.50	21.00	03:00	Drillin g	Cementing	No			Tested P&L to 7,500 PSI. Pump 30 bbls 12.4 ppg IntegraGuard EZ Spacer Mix & Pump 368 bbls (1,477 sks) IntegraCem P50H 14.5 ppg cement at 5.0 bpm. Yield of 1.40. Displace with 20 bbls of Sugar Water and 403 bbls of freshwater + Clay Stabilizer + Biocide at 5 - 6 bpm. Bump plug w/ 1,000 psi over at 4,900 psi. Floats Holding. Good Returns until 125 bbls into displacement. Returns diminished to 0.5 bbl/min at plug bump. Lost 150 bbls of cement. Est. TOC: 11,500'
03:00	1.50	22.50	04:30	Drillin g	Cementing	No			Shut well in on annular. Establish injection in 7 5/8 X 5 1/2 annulus w/ 15 bbl water. Mix & Pump 249 bbs (1,000 sks) Class P50H 14.5# Tail Cement at 6.0 bpm. Yield of 1.40. Displaced with 20 bbls of water and 90 bbls mud. TOC @ 6,400'.
04:30	1.50	24.00	06:00	Drillin g	Wait on Cement	No			Wait on Cement. SICP stabilized at 650 psi (13.7 EMW). RD Cementers. Lay down DP in mousehole.

AFE Number T22DC006	
Start Depth (ftKB) 21,860.0	End Depth (ftKB) 21,860.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 5" X 5.5" Production Casing, 21,829.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600			
Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b... 0.069	
P (psi) 1,120.0	Slow Spd No	Strokes (s... 62	Eff (%) 100

2, Continental-Emsco, F-1600			
Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b... 0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

3, Rostel, F-1600			
Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b... 0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Blower Rental	55.00	1.0
Energy Surcharge	1.00	55.25
Engineering Service	1,050.00	1.0
Tax	1.00	81.22

Safety Checks		
Time	Type	Des
17:45	Safety Meeting	Pre-Tour Safety Meeting
05:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name Original Hole	
Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Daily Mud Checks							
Time 16:30	Type Oil Base	Depth (ftKB) 21,860.0	Density (lb/gal) 12.35	Funnel Viscosity (s/qt) 68	PV Calc (cP) 22.0	YP Calc (lb/100ft²) 10.000	
Gel 10 sec (lb/100ft²) 8.000	Gel 10 min (lb/100ft²) 10.000	Gel 30 min (lb/100ft²) 13.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 24.4	
MBT (lb/bbl)	Percent Oil (%) 57.6	Percent Water (%) 18.0	Chlorides (mg/L) 50,000.000	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V) 518.0	
Daily Mud Volumes							
Tank/Addition/Loss	Type	Volume (bbl)	Subtype				
Drill Strings							
BHA #<stringno>, <des>							
Bit Run	Drill Bit	IADC Bit Dull			TFA (incl Noz) (in²)		
Nozzles (1/32")				String Length (ft)	String Wt (1000lbf)	BHA ROP (ft/hr)	
Drill String Components							
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread		
Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...
Kicks							
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class			
Kill Notes							
Lost Circulation							
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date		
Interval Problems (NPT)							
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)	
Comment							
Interval Lessons							
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)	
Comment							
Safety Incidents							
Time	Category	Type	Subtype	Cause	Lost time?	Severity	

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Partly Cloudy	Temperature (°F) 60.0	Road Condition Good	Hole Condition Good
Operations at Report Time Changing BOP Rams		Planned Operations Swap BOP Elements. Prepare for Rig Down.	
Operations Summary WOC. ND BOPs. Set Casing Slips and Packoff. Flush Lines and Clean Mud Pits. LD Remaining Drill Pipe. Begin Changing BOP Components.			
Remarks			

Mud Volumes						
Active Volume (bbl) 0.0	Var Active Vol (bbl) 0.0	Balance (bbl) 0.0	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 0.0

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	5.50	5.50	11:30	Drilling	Wait on Cement	No			Wait On Cement. Lay Down Drill Pipe In Mousehole. Remove Subs and Misc. From Rig Floor. Rig Down Shakers. SICP at 850 PSI.
11:30	1.00	6.50	12:30	Drilling	NU/ND	No			Remove Mousehole and Install BOP Handler. Remove Turnbuckles.
12:30	6.50	13.00	19:00	Drilling	NU/ND	No			Bleed Off Pressure and Open Up Well. No Flow. Nipple Down and Liift BOPs. Set Casing Slips with 160K String Weight. Remove Cement Head and XO's. Cut Casing and Lay Down Cut Joint. Dress Casing Stump and Packoff. Test Seals to 10,000 psi. Install Back Pressure Valve. Lower BOPs Back Onto Wellhead.
19:00	2.00	15.00	21:00	Drilling	Rig Maintenance	No			Inserted mouse hole. Flushed all rig plumbing with 70 bbls diesel, then 137 bbls FW. Cleaned out mud tanks and washed on rig.
21:00	8.00	23.00	05:00	Drilling	LDDP	No			Finished LD 4 1/2" DP from derrick utilizing mouse hole. Cleaned out mud tanks and washed on rig.
05:00	1.00	24.00	06:00	Drilling	RD Support Equipment	No			Opened lower BOP doors to replace 4 1/2" ram blocks. Cleaned out mud tanks and washed on rig.

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
08:00	Oil Base	21,860.0	11.85	67	22.0	10.000
Gel 10 sec (lb/100ft²) 7.000	Gel 10 min (lb/100ft²) 10.000	Gel 30 min (lb/100ft²) 12.000	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%) 22.0
MBT (lb/bbl) 60.5	Percent Oil (%) 60.5	Percent Water (%) 17.5	Chlorides (mg/L) 48,000.000	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V) 522.0

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #<stringno>, <des>			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
Nozzles (1/32")		String Length (ft)	String Wt (1000lbf)
BHA ROP (ft/hr)			

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

AFE Number T22DC006	
Start Depth (ftKB) 21,860.0	End Depth (ftKB) 21,860.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 5" X 5.5" Production Casing, 21,829.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor	Rig Number
Precision Drilling	553
Rig Supervisor	Phone Mobile
Albert Cruz, Rig Manager	432-227-3620

1, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
1	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

2, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
2	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

3, Rostel, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
3	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed
Blower Rental	55.00	2.0
Energy Surcharge	1.00	735.03
Engineering Service	1,050.00	2.0
Forklift	110.00	1.0
Fuel Surcharge	1.00	735.0
Restocking Fee	1.05	1,903.0
Scale Charge	20.00	2.0
Standby	95.00	14.5
Tax	1.00	1,050.4
Trucking	1.00	7,800.0

Safety Checks		
Time	Type	Des
12:00	Permit to Work	Confined and Hot Work Permit on Wellhead
15:00	Permit to Work	Confined Space to Clean Pits
17:45	Safety Meeting	Pre-Tour Safety Meeting

Well Name: UL 21 WAR-WINK 38-47 C 3H

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class
Kill Notes				

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co...)	Est Time Saving (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Safety Checks		
Time	Type	Des
05:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name	Original Hole

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Table with 4 columns: API/UWI, Surface Legal Location, License #, State/Province; Spud Date, Rig Release Date, KB-Ground Distance, KB-Casing Flange Distance; Weather, Temperature, Road Condition, Hole Condition; Operations at Report Time, Planned Operations; Operations Summary; Remarks.

Mud Volumes table with 7 columns: Active Volume (bbl), Var Active Vol (bbl), Balance (bbl), Tank Volume (bbl), Additions (bbl), Losses (bbl), Hole Volume (bbl).

Daily Time Log table with 10 columns: Start Time, Dur (hr), Cum Dur (hr), End Time, Code 1, Code 2, Problem?, Prob Hrs (hr), Prob Ref #, Com.

Daily Mud Checks table with 7 columns: Time, Type, Depth (ftKB), Density (lb/gal), Funnel Viscosity (s/qt), PV Calc (cP), YP Calc (lb/100ft²).

Daily Mud Volumes table with 4 columns: Tank/Addition/Loss, Type, Volume (bbl), Subtype.

Drill Strings table with 4 columns: Bit Run, Drill Bit, IADC Bit Dull, TFA (incl Noz) (in²).

Drill String Components table with 6 columns: Item Des, Jts, OD (in), ID (in), Len (ft), Top Thread.

Last Drilling Parameter table with 8 columns: Wellbore, Start Depth (ftKB), End Depth (ftKB), Cum Depth (ft), Drilling Time (hr), Cum Drill Time (hr), Interval ROP (ft/hr), Flow Rate (gpm).

Kicks table with 5 columns: Kick Date, Kick Depth (ftKB), Control Date, Control Depth (ftKB), Kick Class.

Lost Circulation table with 6 columns: Start Date, Top Depth (ftKB), Bottom Depth (ftKB), Ops In Prog, Vol Lost Tot (bbl), End Date.

Interval Problems (NPT) table with 7 columns: Problem Type, Problem Subtype, Start Date, Start Depth (ftKB), End Depth (ftKB), Est Cost (Cost), Est Lost Time (hr).

Interval Lessons table with 6 columns: Lesson Type, Start Date, End Date, Start Depth (ftKB), End Depth (ftKB), Est Cost Saving (Co...), Est Time Saving (hr).

AFE Number, Start Depth (ftKB), End Depth (ftKB), Target Formation, Target Depth (ftKB), Last Casing String.

Daily Contacts table with 2 columns: Job Contact, Mobile.

Rigs table with 2 columns: Precision Drilling, 553; Contractor, Rig Number; Rig Supervisor, Phone Mobile.

1, Continental-Emsco, F-1600 table with 3 columns: Pump #, Pwr (hp), Rod Dia (in); Liner Size (in), Stroke (in), Vol/Stk OR (b...); P (psi), Slow Spd, Strokes (s...), Eff (%).

2, Continental-Emsco, F-1600 table with 3 columns: Pump #, Pwr (hp), Rod Dia (in); Liner Size (in), Stroke (in), Vol/Stk OR (b...); P (psi), Slow Spd, Strokes (s...), Eff (%).

3, Rostel, F-1600 table with 3 columns: Pump #, Pwr (hp), Rod Dia (in); Liner Size (in), Stroke (in), Vol/Stk OR (b...); P (psi), Slow Spd, Strokes (s...), Eff (%).

Mud Additive Amounts table with 3 columns: Des, Field Est (Cost/unit), Consumed.

Safety Checks table with 3 columns: Time, Type, Des.

Wellbores table with 2 columns: Wellbore Name, Original Hole.

Wellbore Kick Offs & Key Depths table with 2 columns: Type, Top Depth (ftKB).

Well Name: UL 21 WAR-WINK 38-47 C 3H

Safety Incidents

Time	Category	Type	Subtype	Cause	Lost time?	Severity

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Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Partly Cloudy	Temperature (°F) 46.0	Road Condition Good	Hole Condition Good
Operations at Report Time Rigging Down		Planned Operations Rig Down, Wash, and Stack on Location.	
Operations Summary Rig Down. Move Out Third Party Equipment.			
Remarks			

Mud Volumes						
Active Volume (bbl) 0.0	Var Active Vol (bbl) 0.0	Balance (bbl) 0.0	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 0.0

Daily Time Log									
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com
06:00	12.00	12.00	18:00	Drilling	Rig up / Tear Down	No			Lay Over BOP and Install T/A Cap. Pin Blocks and Split Top Drive. Rig Down Floor, Walking Packing, Shaker Tank, and Pits. Unspool Draw Works. Wash and Load Out Third Party Frac Tanks, 4.5" Drill Pipe. Solids Control Equipment, Barite Tanks, and Battalion Camp. Pick Up Water Line.
18:00	12.00	24.00	06:00	Drilling	Rig up / Tear Down	No			SDFN

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #<stringno>, <des>			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
Nozzles (1/32")		String Length (ft)	String Wt (1000lb)
		BHA ROP (ft/hr)	

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks				
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class

Kill Notes

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)

Comment

AFE Number T22DC006	
Start Depth (ftKB) 21,860.0	End Depth (ftKB) 21,860.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 5" X 5.5" Production Casing, 21,829.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770
Eugene Parker, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
1	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

2, Continental-Emsco, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
2	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

3, Rostel, F-1600		
Pump #	Pwr (hp)	Rod Dia (in)
3	1,600.0	
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
5	12.00	0.069
P (psi)	Slow Spd	Strokes (s...)
		Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed

Safety Checks		
Time	Type	Des
06:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Type	Top Depth (ftKB)
Wellbore Name Original Hole	
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

Table with 4 columns: API/UWI, Surface Legal Location, License #, State/Province. Includes Spud Date, Rig Release Date, KB-Ground Distance, KB-Casing Flange Distance, Weather, Temperature, Road Condition, Hole Condition, Operations at Report Time, Planned Operations, Rigging Down, Operations Summary, Remarks.

Mud Volumes table with 7 columns: Active Volume (bbl), Var Active Vol (bbl), Balance (bbl), Tank Volume (bbl), Additions (bbl), Losses (bbl), Hole Volume (bbl).

Daily Time Log table with 10 columns: Start Time, Dur (hr), Cum Dur (hr), End Time, Code 1, Code 2, Problem?, Prob Hrs (hr), Prob Ref #, Com. Includes entries for 06:00, 07:00, and 19:00.

Daily Mud Checks table with 7 columns: Time, Type, Depth (ftKB), Density (lb/gal), Funnel Viscosity (s/qt), PV Calc (cP), YP Calc (lb/100ft²). Includes Gel 10 sec, Gel 10 min, Gel 30 min, Filtrate, Filter Cake, pH, Solids, MBT, Percent Oil, Percent Water, Chlorides, Calcium, Potassium, Electric Stab.

Daily Mud Volumes table with 4 columns: Tank/Addition/Loss, Type, Volume (bbl), Subtype.

Drill Strings table with 4 columns: BHA #, Drill Run, Drill Bit, IADC Bit Dull, TFA (incl Noz) (in²), Nozzles (1/32"), String Length (ft), String Wt (1000lbf), BHA ROP (ft/hr).

Drill String Components table with 6 columns: Item Des, Jts, OD (in), ID (in), Len (ft), Top Thread.

Last Drilling Parameter table with 8 columns: Wellbore, Start Depth (ftKB), End Depth (ftKB), Cum Depth (ft), Drilling Time (hr), Cum Drill Time (hr), Interval ROP (ft/hr), Flow Rate (gpm). Includes WOB, RPM, SPP, Drill Str Wt, PU Str Wt, SO Str Wt, Drilling Torque, Off Btm Tq, Q Gas Inj, T Inj, P BH Ann, T BH, P Surf Annulus, T Surf Annulus, Q Liq Return, Q Gas Return.

Kicks table with 5 columns: Kick Date, Kick Depth (ftKB), Control Date, Control Depth (ftKB), Kick Class. Includes Kill Notes.

Lost Circulation table with 6 columns: Start Date, Top Depth (ftKB), Bottom Depth (ftKB), Ops In Prog, Vol Lost Tot (bbl), End Date.

Interval Problems (NPT) table with 7 columns: Problem Type, Problem Subtype, Start Date, Start Depth (ftKB), End Depth (ftKB), Est Cost (Cost), Est Lost Time (hr). Includes Comment.

AFE Number T22DC006. Start Depth (ftKB) 21,860.0, End Depth (ftKB) 21,860.0. Target Formation Wolfcamp, Target Depth (ftKB) 22,010.0. Last Casing String 5" X 5.5" Production Casing, 21,829.0ftKB.

Daily Contacts table with 2 columns: Job Contact, Mobile. Includes Scott Palmer, Superintendent (713-907-5875), Nathan Barnes, ACR (432-556-0770), Eugene Parker, ACR (432-556-0770).

Rigs section: Precision Drilling, 553. Contractor Precision Drilling, Rig Number 553. Rig Supervisor Albert Cruz, Rig Manager, Phone Mobile 432-227-3620.

1, Continental-Emsco, F-1600. Pump # 1, Pwr (hp) 1,600.0, Rod Dia (in) 5. Liner Size (in) 5, Stroke (in) 12.00, Vol/Stk OR (b...) 0.069. P (psi), Slow Spd, Strokes (s...) Eff (%).

2, Continental-Emsco, F-1600. Pump # 2, Pwr (hp) 1,600.0, Rod Dia (in) 5. Liner Size (in) 5, Stroke (in) 12.00, Vol/Stk OR (b...) 0.069. P (psi), Slow Spd, Strokes (s...) Eff (%).

3, Rostel, F-1600. Pump # 3, Pwr (hp) 1,600.0, Rod Dia (in) 5. Liner Size (in) 5, Stroke (in) 12.00, Vol/Stk OR (b...) 0.069. P (psi), Slow Spd, Strokes (s...) Eff (%).

Mud Additive Amounts table with 3 columns: Des, Field Est (Cost/unit), Consumed.

Safety Checks table with 3 columns: Time, Type, Des. Includes 06:4 Safety Meeting, 5 Pre-Tour Safety Meeting.

Wellbores section: Wellbore Name Original Hole. Wellbore Kick Offs & Key Depths table with 2 columns: Type, Top Depth (ftKB). Includes Kick Off (10,855.0), Heel (11,760.0).

Well Name: UL 21 WAR-WINK 38-47 C 3H

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

API/UWI 42-495-34833	Surface Legal Location University Lands Blk 21 Sec 35	License # 886156	State/Province Texas
Spud Date 12/19/2022 08:00	Rig Release Date 4/7/2023 18:00	KB-Ground Distance (ft) 27.00	KB-Casing Flange Distance (ft)
Weather Clear	Temperature (°F) 45.0	Road Condition Good	Hole Condition Good
Operations at Report Time Rig on Standby		Planned Operations Rig on Standby. Clean Cellars.	
Operations Summary Rig Down, Wash, and Stack on Location			
Remarks Rig Released to Standby Rate at 18:00 on 4/7/2023.			

Mud Volumes						
Active Volume (bbl) 0.0	Var Active Vol (bbl) 0.0	Balance (bbl) 0.0	Tank Volume (bbl) 0.0	Additions (bbl) 0.0	Losses (bbl) 0.0	Hole Volume (bbl) 0.0

Daily Time Log										
Start Time	Dur (hr)	Cum Dur (hr)	End Time	Code 1	Code 2	Problem?	Prob Hrs (hr)	Prob Ref #	Com	
06:00	1.00	1.00	07:00	Drillin g	Rig up / Tear Down	No			SDFN. Hold Pre Job Safety Meeting.	
07:00	11.00	12.00	18:00	Drillin g	Rig up / Tear Down	No			Split Derrick. Remove Top Drive. Split Substructures and Center Steel. Wash Rig Components. Haul Battalion Owned Equipment to Stack Yard. Rig 100% Rigged Down and Stacked. Release to Standby Rate at 18:00 on 4/7/2023.	
18:00	12.00	24.00	06:00	Drillin g	Rig up / Tear Down	No			SDFN.	

Daily Mud Checks						
Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lb/100ft²)
Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)	Gel 30 min (lb/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Solids (%)
MBT (lb/bbl)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)

Daily Mud Volumes			
Tank/Addition/Loss	Type	Volume (bbl)	Subtype

Drill Strings			
BHA #<stringno>, <des>			
Bit Run	Drill Bit	IADC Bit Dull	TFA (incl Noz) (in²)
Nozzles (1/32")		String Length (ft)	BHA ROP (ft/hr)

Drill String Components					
Item Des	Jts	OD (in)	ID (in)	Len (ft)	Top Thread

Last Drilling Parameter							
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Drilling Time (hr)	Cum Drill Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000...)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Btm Tq
Q Gas Inj (ft³/min)	T Inj (°F)	P BH Ann (psi)	T BH (°F)	P Surf Annulus (p...)	T Surf Annulus (°F)	Q Liq Return (gpm)	Q Gas Return (f...)

Kicks					
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Kick Class	

Lost Circulation					
Start Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Ops In Prog	Vol Lost Tot (bbl)	End Date

Interval Problems (NPT)						
Problem Type	Problem Subtype	Start Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost (Cost)	Est Lost Time (hr)
Comment						

AFE Number T22DC006	
Start Depth (ftKB) 21,860.0	End Depth (ftKB) 21,860.0
Target Formation Wolfcamp	Target Depth (ftKB) 22,010.0
Last Casing String 5" X 5.5" Production Casing, 21,829.0ftKB	

Daily Contacts	
Job Contact	Mobile
Scott Palmer, Superintendent	713-907-5875
Nathan Barnes, ACR	432-556-0770

Rigs	
Precision Drilling, 553	
Contractor Precision Drilling	Rig Number 553
Rig Supervisor Albert Cruz, Rig Manager	Phone Mobile 432-227-3620

1, Continental-Emsco, F-1600			
Pump # 1	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b... 0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

2, Continental-Emsco, F-1600			
Pump # 2	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b... 0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

3, Rostel, F-1600			
Pump # 3	Pwr (hp) 1,600.0	Rod Dia (in)	
Liner Size (in) 5	Stroke (in) 12.00	Vol/Stk OR (b... 0.069	
P (psi)	Slow Spd	Strokes (s...)	Eff (%)

Mud Additive Amounts		
Des	Field Est (Cost/unit)	Consumed

Safety Checks		
Time	Type	Des
06:45	Safety Meeting	Pre-Tour Safety Meeting

Wellbores	
Wellbore Name Original Hole	

Wellbore Kick Offs & Key Depths	
Type	Top Depth (ftKB)
Kick Off	10,855.0
Heel	11,760.0

Well Name: UL 21 WAR-WINK 38-47 C 3H

Interval Lessons						
Lesson Type	Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Est Cost Saving (Co..)	Est Time Saving (hr)
Comment						

Safety Incidents						
Time	Category	Type	Subtype	Cause	Lost time?	Severity

Well Name: UL 21 WAR-WINK 38-47 C 3H

Table with 4 columns: API/UWI, Surface Legal Location, License #, State/Province; Spud Date, Rig Release Date, KB-Ground Distance (ft), KB-Casing Flange Distance (ft); Weather, Temperature (°F), Road Condition, Hole Condition; Operations at Report Time, Planned Operations.

Operations Summary
Wash rig and clean cellars. Install cattle panels around wells.

Remarks
Final Report. Rig to be moved off pad beginning 4/13/2023

Mud Volumes table with 7 columns: Active Volume (bbl), Var Active Vol (bbl), Balance (bbl), Tank Volume (bbl), Additions (bbl), Losses (bbl), Hole Volume (bbl).

Daily Time Log table with 10 columns: Start Time, Dur (hr), Cum Dur (hr), End Time, Code 1, Code 2, Problem?, Prob Hrs (hr), Prob Ref #, Com.

Daily Mud Checks table with 7 columns: Time, Type, Depth (ftKB), Density (lb/gal), Funnel Viscosity (s/qt), PV Calc (cP), YP Calc (lbf/100ft²).

Daily Mud Volumes table with 4 columns: Tank/Addition/Loss, Type, Volume (bbl), Subtype.

Drill Strings table with 4 columns: BHA #, Drill Bit, IADC Bit Dull, TFA (incl Noz) (in²).

Drill String Components table with 6 columns: Item Des, Jts, OD (in), ID (in), Len (ft), Top Thread.

Last Drilling Parameter table with 8 columns: Wellbore, Start Depth (ftKB), End Depth (ftKB), Cum Depth (ft), Drilling Time (hr), Cum Drill Time (hr), Interval ROP (ft/hr), Flow Rate (gpm).

Kicks table with 5 columns: Kick Date, Kick Depth (ftKB), Control Date, Control Depth (ftKB), Kick Class.

Kill Notes

Lost Circulation table with 6 columns: Start Date, Top Depth (ftKB), Bottom Depth (ftKB), Ops In Prog, Vol Lost Tot (bbl), End Date.

Interval Problems (NPT) table with 7 columns: Problem Type, Problem Subtype, Start Date, Start Depth (ftKB), End Depth (ftKB), Est Cost (Cost), Est Lost Time (hr).

Comment

Interval Lessons table with 6 columns: Lesson Type, Start Date, End Date, Start Depth (ftKB), End Depth (ftKB), Est Cost Saving (Co.), Est Time Saving (hr).

Comment

Safety Incidents table with 7 columns: Time, Category, Type, Subtype, Cause, Lost time?, Severity.

AFE Number T22DC006; Start Depth (ftKB) 21,860.0; End Depth (ftKB) 21,860.0; Target Formation Wolfcamp; Target Depth (ftKB) 22,010.0; Last Casing String 5" X 5.5" Production Casing, 21,829.0ftKB.

Daily Contacts table with 2 columns: Job Contact, Mobile.

Rigs table with 2 columns: Contractor, Rig Number.

1, Continental-Emsco, F-1600 table with 3 columns: Pump #, Pwr (hp), Rod Dia (in).

2, Continental-Emsco, F-1600 table with 3 columns: Pump #, Pwr (hp), Rod Dia (in).

3, Rostel, F-1600 table with 3 columns: Pump #, Pwr (hp), Rod Dia (in).

Mud Additive Amounts table with 3 columns: Des, Field Est (Cost/unit), Consumed.

Safety Checks table with 3 columns: Time, Type, Des.

Wellbores
Wellbore Name
Original Hole

Wellbore Kick Offs & Key Depths table with 2 columns: Type, Top Depth (ftKB).