



Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 5.0, DFS: 3.25  
Report Start Date: 5/24/2023 06:00  
Report End Date: 5/25/2023 06:00  
Depth Progress: 0.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366			
Orig KB Elev (ft) 3,030.00		Gr Elev (ft) 3,000.00		KB-Grd (ft) 30.00		Total Depth (MD) (ftKB) 1,874.0		Total Depth (TVD) (ftKB) Original Hole - 1,874.0		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- RIG --				
Contractor H&P	Rig Number 540	Rig Type Triple - Diesel	Max Hook Load (1000lbf) 750	Max Torque (ft*lb) 53,000
AFE Number 23213342D	Job AFE Amt (Cost) \$3,535,700	Total AFE Supplemental Amount (Cost) \$0	Total AFE + Supp Amount (Cost) 3,535,700.00	Total Final Invoice (Cost) \$469,023

-- OPERATIONS SUMMARY --					
Start Depth (ftKB) 1,874.0	Start Depth (TVD) (ftKB) 1,874.0	Problem Time Hours (hr) 0.00	Percent Problem Time (%) 0.00	Daily Mud Field Est (Cost)	Daily Field Est Total (Cost) \$5,900
End Depth (ftKB) 1,874.0	End Depth (TVD) (ftKB) 1,874.0	Cum Problem Time Days (days) 0.000	Cum Percent Problem Time (%) 0.00	Cum Mud Field Est (Cost)	Cum Field Est To Date (Cost) \$608,211
Target Depth (MD) (ftKB)	Target Formation Middle Spraberry	Hole Condition Good	Weather Clear	Temperature (°F) 62.0	Road Condition Fair
24 Hr Summary					
Finish R/D on floor, roll up wires on back of derrick, unspool hoist, stroke and pin hydraulic cylinders, R/D and load out generators, VFD, Mud pumps, mud tanks, fuel tanks, parts house, premix and water tank, R/D gas buster and choke manifold, R/D and load out skid rails, roll up wires to draw works, trip tanks and hydraulic lines to HPU, hold PJSM on lowering derrick, lower derrick, split derrick, remove board, and roll up cables and wires on crown section, remove bottom section of derrick from floor, remove draw works, ST80, doghouse and drill line spool, start prepping to remove center steel, unstack substructure and stage on location. On New End: R/U mud tanks, mud pumps, water tank, shaker skid and generators. DSRR-1.25, ESD-5-28-23, 100% Rigged Down, 85% Moved, 25% Rigged Up. Trucks - 23, Loads - 51.					

AM Ops Cont Rig Moving to New Location								Ops Forecast Load Out Substructure, Move Camps, Clean Location, R/U on New End							
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-- RIG SAFETY PERFORMANCE --															
Days Since Last LTI (days)				Days Since Last Reportable Inc (days)				MACP (psi)				WB Depth @ 6am (ftKB)			
424.00				63.00											

-- MUD CHECKS --															
Date	Type	Sample Source		Depth (ftKB)		Dens (lb/gal)		Vis (s/qt)		PV OR (cP)		YP OR (lb/100ft²)		T Flowline (°F)	
Gel (10s) (lb/100ft²)	Gel (10m) (lb/100ft²)	Gel (30m) (lb/100ft²)		Filtrate (mL/30min)		FC (1/32")		pH		Solids (%)		LGS (%)		T BH (°F)	
H2O (%)	Oil (%)	MBT (lb/bbl)		Elec Stab (V)		Ca (mg/L)		Pot (mg/L)		Chlor (mg/L)		Vis 6rpm		Lime (lb/bbl)	

-- INTERVAL PROBLEMS (NPT) --															
Problem Type	Problem Subtype	Dur (Net) (hr)		Start Date		End Date		Start Depth (... End Depth (f...		Description					Ref #

-- TIMELOG --															
Phase	Task	Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Start Depth (ftKB)	End Depth (ftKB)	Com						Prob Ref #
Rig Move/Up	Rig Move/Up	06:00	06:00	24.00	24.00	Rig Down / Up	1,874.0	1,874.0	Finish R/D on floor, roll up wires on back of derrick, unspool hoist, stroke and pin hydraulic cylinders, R/D and load out generators, VFD, Mud pumps, mud tanks, fuel tanks, parts house, premix and water tank, R/D gasbuster and choke manifold, R/D and load out skid rails, roll up wires to draw works, trip tanks and hydraulic lines to HPU, hold PJSM on lowering derrick, lower derrick, split derrick, remove board, and roll up cables and wires on crown section, remove bottom section of derrick from floor, remove draw works, ST80, doghouse and drill line spool, start prepping to remove center steel, Unstack sub structure and stage on location. On New End: R/U Mud Tanks, Mud Pumps, Water Tank, Shaker Skid and Generators.						

-- DRILL BITS -- (BHA #<BHA #?> SUMMARY) <Drill String Name?>															
Bit Run	Type	Size (in)		Make		Model		SN	Bit TFA...	Depth In...	Depth O...	Drilled (ft)	Drill Tim...	Avg RO...	IADC Bit Dull Out

-- BHA --															
Jts	Item Des			Grade	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Mass/Len (lb/ft)	Wt (lbf)	Top Thread	Icon	Connections	Gauge (in)	Drift (in)

-- DOWNHOLE SENSORS --															
Sensor Type						Sensor-Bit (ft)						Note			

-- KICKS --															
Kick Date		Kick Depth (ftKB)	Control Date		Control Depth (ftKB)	Class	P SIDP (psi)	P SIC (psi)	Vol Kick (bbl)	Kill Notes					

-- MUD ADDITIVES --															
Des				Date			Rec		Consumed	Returned	Rec	Consumed	Returned	On Loc	

-- LEASE FLUIDS -- (Water, Mud Cuttings, Sewage, Haul-Off)															
Fluid Type		Fluid Sub Type				Source				Vol to Lease (bbl)	Vol from Lease (bbl)	Dest			
Fresh Water		Drilling				Ovintiv Permitted Surface Water				0.0					

-- JOB SUPPLIES -- (Fuel)															
Date	Supply Item Des		Vendor		Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned	Cum On Loc	Unit Label	Unit Sz	
5/24/2023	Fuel				Diesel Fuel - Rig		0.0		2,500.0	0.0	0.0	2,500.0	gal US		

-- LOST CIRCULATION --															
Start Date		End Date		Ops In Prog			Top (ftKB)	Btm (ftKB)	Q Lost (bbl/hr)	Vol Lost Tot (bbl)	Com				

-- SURVEY DATA --															
MD (ftKB)	Incl (°)		Azm (°)		TVD (ftKB)		VS (ft)	NS (ft)	EW (ft)		DLS (°/100ft)	Build (°/100ft)		Turn (°/100ft)	
1,617.00	0.14		203.28		1,616.99		3.11	2.03	2.38		0.05	-0.05		-1.20	
1,706.00	0.20		230.10		1,705.99		2.86	1.83	2.21		0.11	0.07		30.13	
1,793.00	0.19		264.40		1,792.99		2.60	1.72	1.95		0.13	-0.01		39.43	
1,813.00	0.19		264.40		1,812.99		2.54	1.71	1.89		0.00	0.00		0.00	
1,874.00	0.19		264.40		1,873.99		2.39	1.69	1.69		0.00	0.00		0.00	

-- FORMATION TOPS --															
Wellbore Name				CWS Borehole ID				Formation Name				Drill Top MD (ftKB)		Drill Top (TVD) (ftKB)	



Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

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Report Start Date: 5/24/2023 06:00  
Report End Date: 5/25/2023 06:00  
Depth Progress: 0.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ftKB) 1,874.0		Total Depth (TVD) (ftKB) Original Hole - 1,874.0		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date		

-- WELLBORE SECTIONS --						
Section Des			Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Section Spud Date
Production			7 7/8			
Intermediate			11			
Conductor			30	30.0	70.0	4/10/2023
Surface			16	70.0	1,874.0	4/14/2023

-- LAST CASING RUN --						
Csg Des		Run Date	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)	Grade
Surface		4/16/2023 14:00	1,864.0	13 3/8	54.50	J-55

-- LOT & FIT TEST --						
Test Type	Test Date	Last Casing String Run	Formation Tested	Le...	Fluid Type	Dens Fl... Vol Pum... Comment

-- SHAKER SCREENS --						
Deck Number	Screen Number	Screen Size X	Start Date	End Date	Drilling Time (hr)	

-- BOP --									
Start Date	End Date	Description	P Range (psi)	Nom ID (in)	Class	Service	Last Cert Date	Height (ft)	Clear (ft)

-- BOP COMPONENTS --					
Type Annular-nonrotating	Make Cameron	Serial Number		P Range (psi) 5,000.0	Nominal ID (in) 13 5/8
Type Pipe ram-fixed bore	Make Cameron	Serial Number		P Range (psi) 10,000.0	Nominal ID (in) 13 5/8
Type Blind ram	Make Cameron	Serial Number		P Range (psi) 10,000.0	Nominal ID (in) 13 5/8
Type Spool	Make Cameron	Serial Number		P Range (psi) 10,000.0	Nominal ID (in) 13 5/8
Type Pipe ram-var. bore	Make Cameron	Serial Number		P Range (psi) 10,000.0	Nominal ID (in) 13 5/8

-- SAFETY CHECK SUMMARY -- (Safety Meeting, JSA, Haz ID)				
Date	Type	Tour	Des	Com
5/24/2023 06:00	Safety Meeting/JSA	Day	Rig Move	Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygiene, Forklift Operation's, Man Lift Operation's, Pinch Points, Wet/Muddy Conditions, Housekeeping, Running Casing
5/24/2023 18:00	Safety Meeting/JSA	Night	Rig Move	Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygiene, Forklift Operation's, Man Lift Operation's, Pinch Points, Working Together, Housekeeping, Running Casing and Cementing, Tripping

-- SAFETY INCIDENTS --		
Date	Type	IMS Plus Incident #

-- MUD PUMPS --							
Pump #	Start Date	End Date	Make	Model	Pwr (hp)	Stroke (in)	Rod Dia (in)
1	5/24/2023		Gardner-Denver	PZ-11		10.98	6
2	5/24/2023		Gardner-Denver	PZ-11		10.98	6
3	5/24/2023		Gardner-Denver	PZ-11		10.98	6

-- PUMP OPERATIONS --						
Pump #	Start Date	End Date	Liner Size (in)	P Max (psi)	Vol/Stk OR (bbl/stk)	
1	5/24/2023 00:00		5 1/2	6,300.0	0.077	
2	5/24/2023 00:00		5 1/2	6,300.0	0.077	
3	5/24/2023 00:00		5 1/2	6,300.0	0.077	

-- SLOW PUMP RATES --						
Pump #	Date	Depth (ftKB)	Strokes (spm)	Q Flow (gpm)	P (psi)	Eff (%)

-- WELLHEADS --						
Type	Make	Working Pressure (psi)	Max Pres (psi)	Size (in)	Start Date	

-- PERSONNEL LOG --		
Type	Company	Count
Contractor	Helmerich & Payne International Drlg Co	12
Contractor	Genesis Fluids, LLC	1
Contractor	Gordon Technologies, LLC	1
Contractor	Cathedral Energy Services, Inc.	2

-- REMARKS --	
Remarks Well Control: *Last BOP Drill: 5-19-23 Days 51 sec, Nights 50 sec. *Last Trip Drill: 5-21-23 *Annular Element: 10-3-2022 *Lower Variable Rams: 5-20-2022 *Upper Fixed Rams 5.5": 2-3-23 *Surface Casing Tested to 1500 psi for 30 minutes on x-xx-23 *Inter. Csg Tested to 1500 psi for 30 mins on x-xx-23 *Last BOP Test: 5-xx-23- *Next BOP Test: 5-23-23          *15 Jts 5" HWDP on Location. *2 Jts 4 ½ IF DP on Location *15 Jts 6 ¾" Rental DC on Location. 4 ½ *9 Jts 8" Rental DC on Location. 6 5/8 Reg *700 Jts 5.5" Rental DP on Location (PTech55)	



Daily Drilling (Partner)

Well Name: HILLTOP 37C 3HC

Report #: 6.0, DFS: 4.25

Report Start Date: 5/25/2023 06:00

Report End Date: 5/26/2023 06:00

Depth Progress: 0.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366			
Orig KB Elev (ft) 3,030.00		Gr Elev (ft) 3,000.00		KB-Grd (ft) 30.00		Total Depth (MD) (ftKB) 1,874.0		Total Depth (TVD) (ftKB) Original Hole - 1,874.0		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- RIG --														
Contractor H&P			Rig Number 540			Rig Type Triple - Diesel			Max Hook Load (1000lbf) 750			Max Torque (ft*lb) 53,000		
AFE Number 23213342D			Job AFE Amt (Cost) \$3,535,700			Total AFE Supplemental Amount (Cost) \$0			Total AFE + Supp Amount (Cost) 3,535,700.00			Total Final Invoice (Cost) \$506,040		

-- OPERATIONS SUMMARY --					
Start Depth (ftKB) 1,874.0	Start Depth (TVD) (ftKB) 1,874.0	Problem Time Hours (hr) 0.00	Percent Problem Time (%) 0.00	Daily Mud Field Est (Cost)	Daily Field Est Total (Cost) \$68,300
End Depth (ftKB) 1,874.0	End Depth (TVD) (ftKB) 1,874.0	Cum Problem Time Days (days) 0.000	Cum Percent Problem Time (%) 0.00	Cum Mud Field Est (Cost)	Cum Field Est To Date (Cost) \$704,612
Target Depth (MD) (ftKB) 19,390.0	Target Formation Middle Spraberry	Hole Condition Good	Weather Partly Cloudy	Temperature (°F) 65.0	Road Condition Fair
24 Hr Summary					
Load Out Skid Rails, Jack Boxes, Subs, Derrick and Misc. Loads, Haul Same, New Location-Set Mats, Skid Rails, Jack Boxes, Stack Subs and Set Center Steel, Rig Up Equipment, Pin A-Leg Section and Crown Section To Floor, Install Board, Dress Out Derrick,Set Wire Trays, Run Wires and Plug In Same, R/U Backyard Equipment, DSRR-2.25, ESD-5-27-23, 100% Rigged Down, 100% Moved, 75% Rigged Up, 44 Loads Hauled, 24 Haul Trucks					
AM Ops Prep to Raise Derrick			Ops Forecast Raise Derrick, Cont Plugging in Wires, Power Up Rig, Run Out New Dog House, String Up DW, R/U Backyard, N/U, Test Bope		

-- RIG SAFETY PERFORMANCE --														
Days Since Last LTI (days)			Days Since Last Reportable Inc (days)			MACP (psi)			WB Depth @ 6am (ftKB)					
425.00			64.00											

-- MUD CHECKS --														
Date	Type	Sample Source		Depth (ftKB)		Dens (lb/gal)		Vis (s/qt)		PV OR (cP)		YP OR (lb/100ft²)		T Flowline (°F)
Gel (10s) (lb/100ft²)	Gel (10m) (lb/100ft²)	Gel (30m) (lb/100ft²)		Filtrate (mL/30min)		FC (1/32")		pH		Solids (%)		LGS (%)		T BH (°F)
H2O (%)	Oil (%)	MBT (lb/bbl)		Elec Stab (V)		Ca (mg/L)		Pot (mg/L)		Chlor (mg/L)		Vis 6rpm		Lime (lb/bbl)

-- INTERVAL PROBLEMS (NPT) --														
Problem Type	Problem Subtype	Dur (Net) (hr)		Start Date		End Date		Start Depth (... End Depth (f...		Description				Ref #

-- TIMELOG --														
Phase	Task	Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Start Depth (ftKB)	End Depth (ftKB)	Com					Prob Ref #
Rig Move/Up	Rig Move/Up	06:00	06:00	24.00	24.00	Rig Move	1,874.0	1,874.0	Load Out Skid Rails, Jack Boxes, Subs, Derrick and Misc. Loads, Haul Same, New Location-Set Mats, Skid Rails, Jack Boxes, Stack Subs and Set Center Steel, Rig Up Equipment, Pin A-Leg Section and Crown Section To Floor, Install Board, Dress Out Derrick,Set Wire Trays, Run Wires and Plug In Same, R/U Backyard Equipment,					

-- DRILL BITS -- (BHA #<BHA #?> SUMMARY) <Drill String Name?>														
Bit Run	Type	Size (in)	Make		Model		SN	Bit TFA...	Depth In...	Depth O...	Drilled (ft)	Drill Tim...	Avg RO...	IADC Bit Dull Out

-- BHA --														
Jts	Item Des		Grade	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Mass/Len (lb/ft)	Wt (lb/ft)	Top Thread	Icon	Connections	Gauge (in)	Drift (in)

-- DOWNHOLE SENSORS --														
Sensor Type					Sensor-Bit (ft)					Note				

-- KICKS --														
Kick Date		Kick Depth (ftKB)	Control Date		Control Depth (ftKB)	Class	P SIDP (psi)	P SIC (psi)	Vol Kick (bbl)	Kill Notes				

-- MUD ADDITIVES --								
Des	Date	Rec	Consumed	Returned	Rec	Consumed	Returned	On Loc

-- LEASE FLUIDS -- (Water, Mud Cuttings, Sewage, Haul-Off)														
Fluid Type		Fluid Sub Type			Source				Vol to Lease (bbl)	Vol from Lease (bbl)	Dest			

-- JOB SUPPLIES -- (Fuel)														
Date	Supply Item Des		Vendor		Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned	Cum On Loc	Unit Label	Unit Sz
5/25/2023	Fuel				Diesel Fuel - Rig	7,200.0	0.0		9,700.0	0.0	0.0	9,700.0	gal US	

-- LOST CIRCULATION --														
Start Date		End Date		Ops In Prog			Top (ftKB)	Btm (ftKB)	Q Lost (bbl/hr)	Vol Lost Tot (bbl)	Com			

-- SURVEY DATA --									
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)
1,617.00	0.14	203.28	1,616.99	3.11	2.03	2.38	0.05	-0.05	-1.20
1,706.00	0.20	230.10	1,705.99	2.86	1.83	2.21	0.11	0.07	30.13
1,793.00	0.19	264.40	1,792.99	2.60	1.72	1.95	0.13	-0.01	39.43
1,813.00	0.19	264.40	1,812.99	2.54	1.71	1.89	0.00	0.00	0.00
1,874.00	0.19	264.40	1,873.99	2.39	1.69	1.69	0.00	0.00	0.00

-- FORMATION TOPS --														
Wellbore Name				CWS Borehole ID			Formation Name				Drill Top MD (ftKB)		Drill Top (TVD) (ftKB)	

-- WELLBORE SECTIONS --														
Section Des					Hole Size (in)		Act Top (ftKB)		Act Btm (ftKB)		Section Spud Date		Section TD Date	
Production					7 7/8									
Intermediate					11									
Conductor					30		30.0		70.0		4/10/2023		4/10/2023	
Surface					16		70.0		1,874.0		4/14/2023		4/16/2023	





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Depth Progress: 0.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ftKB) 1,874.0		Total Depth (TVD) (ftKB) Original Hole - 1,874.0		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date		

-- RIG --														
Contractor H&P			Rig Number 540			Rig Type Triple - Diesel			Max Hook Load (1000lbf) 750			Max Torque (ft*lb) 53,000		
AFE Number 23213342D			Job AFE Amt (Cost) \$3,535,700			Total AFE Supplemental Amount (Cost) \$0			Total AFE + Supp Amount (Cost) 3,535,700.00			Total Final Invoice (Cost) \$506,040		

-- OPERATIONS SUMMARY --					
Start Depth (ftKB) 1,874.0	Start Depth (TVD) (ftKB) 1,874.0	Problem Time Hours (hr) 0.00	Percent Problem Time (%) 0.00	Daily Mud Field Est (Cost)	Daily Field Est Total (Cost) \$72,200
End Depth (ftKB) 1,874.0	End Depth (TVD) (ftKB) 1,874.0	Cum Problem Time Days (days) 0.000	Cum Percent Problem Time (%) 0.00	Cum Mud Field Est (Cost)	Cum Field Est To Date (Cost) \$825,780
Target Depth (MD) (ftKB) 19,390.0	Target Formation Middle Spraberry	Hole Condition Good	Weather Partly Cloudy	Temperature (°F) 65.0	Road Condition Fair
24 Hr Summary					
Plug in wires on wire tray, grasshopper, and drawworks, R/U flowline extensions, raise derrick @ 09:00, set pipe wrangler and V-door, plug in top drive wires, power up rig and start running out rig equip and new doghouse, string up blocks, spool drawworks, spool up floor hoist, unpin blocks and pin to top drive, dress rig floor, R/U backyard pumps and hoses, R/U standpipe and choke lines, troubleshoot electrical issues with new doghouse with H&P electricians and field techs. DSRR-3.25, ESD-5-27-23, 100% Rigged Down, 100% Moved, 95% Rigged Up					
AM Ops Troubleshoot Doghouse Electrical Faults		Ops Forecast Troubleshoot electrical, Nipple Up, Test Bop's, P/U Bha, Drill Intermediate			

-- RIG SAFETY PERFORMANCE --														
Days Since Last LTI (days)			Days Since Last Reportable Inc (days)			MACP (psi)			WB Depth @ 6am (ftKB)					
426.00			65.00											

-- MUD CHECKS --														
Date	Type	Sample Source		Depth (ftKB)		Dens (lb/gal)		Vis (s/qt)		PV OR (cP)		YP OR (lb/100ft²)		T Flowline (°F)
Gel (10s) (lb/100ft²)	Gel (10m) (lb/100ft²)	Gel (30m) (lb/100ft²)		Filtrate (mL/30min)		FC (1/32")		pH		Solids (%)		LGS (%)		T BH (°F)
H2O (%)	Oil (%)	MBT (lb/bbl)		Elec Stab (V)		Ca (mg/L)		Pot (mg/L)		Chlor (mg/L)		Vis 6rpm		Lime (lb/bbl)

-- INTERVAL PROBLEMS (NPT) --														
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-- TIMELOG --														
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Rig Move/Up	Rig Move/Up	06:00	06:00	24.00	24.00	Rig Move	1,874.0	1,874.0	Plug in wires on wire tray, grasshopper, and drawworks, R/U flowline extensions, raise derrick @ 09:00, set pipe wrangler and V-door, plug in top drive wires, power up rig and start running out rig equip and new doghouse, string up blocks, spool drawworks, spool up floor hoist, unpin blocks and pin to topdrive, dress rig floor, R/U backyard pumps and hoses, R/U standpipe and choke lines, troubleshoot electrical issues with new doghouse with H&P electricians and field techs.					

-- DRILL BITS -- (BHA #<BHA #?> SUMMARY) <Drill String Name?>														
Bit Run	Type	Size (in)	Make		Model		SN	Bit TFA...	Depth In...	Depth O...	Drilled (ft)	Drill Tim...	Avg RO...	IADC Bit Dull Out

-- BHA --														
Jts	Item Des		Grade	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Mass/Len (lb/ft)	Wt (lbf)	Top Thread	Icon	Connections	Gauge (in)	Drift (in)

-- DOWNHOLE SENSORS --														
Sensor Type					Sensor-Bit (ft)					Note				

-- KICKS --														
Kick Date		Kick Depth (ftKB)	Control Date		Control Depth (ftKB)	Class	P SIDP (psi)	P SIC (psi)	Vol Kick (bbl)	Kill Notes				

-- MUD ADDITIVES --														
Des			Date			Rec		Consumed	Returned	Rec	Consumed	Returned	On Loc	

-- LEASE FLUIDS -- (Water, Mud Cuttings, Sewage, Haul-Off)														
Fluid Type		Fluid Sub Type			Source			Vol to Lease (bbl)	Vol from Lease (bbl)	Dest				
Fresh Water		Drilling			Ovintiv Permitted Surface Water			0.0						

-- JOB SUPPLIES -- (Fuel)														
Date	Supply Item Des		Vendor		Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned	Cum On Loc	Unit Label	Unit Sz
5/27/2023	Fuel				Diesel Fuel - Rig		0.0		9,700.0	0.0	0.0	9,700.0	gal US	
5/27/2023	Fuel				Diesel Fuel - Other	7,199.0	0.0		7,199.0	0.0	0.0	7,199.0	gal US	

-- LOST CIRCULATION --														
Start Date		End Date		Ops In Prog		Top (ftKB)	Btm (ftKB)	Q Lost (bbl/hr)	Vol Lost Tot (bbl)	Com				

-- SURVEY DATA --														
MD (ftKB)	Incl (°)	Azim (°)		TVD (ftKB)	VS (ft)		NS (ft)	EW (ft)		DLS (°/100ft)	Build (°/100ft)		Turn (°/100ft)	
1,617.00	0.14	203.28		1,616.99	3.11		2.03	2.38		0.05	-0.05		-1.20	
1,706.00	0.20	230.10		1,705.99	2.86		1.83	2.21		0.11	0.07		30.13	
1,793.00	0.19	264.40		1,792.99	2.60		1.72	1.95		0.13	-0.01		39.43	
1,813.00	0.19	264.40		1,812.99	2.54		1.71	1.89		0.00	0.00		0.00	
1,874.00	0.19	264.40		1,873.99	2.39		1.69	1.69		0.00	0.00		0.00	

-- FORMATION TOPS --														
Wellbore Name				CWS Borehole ID			Formation Name			Drill Top MD (ftKB)		Drill Top (TVD) (ftKB)		

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Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 7.0, DFS: 5.25  
Report Start Date: 5/26/2023 06:00  
Report End Date: 5/27/2023 06:00  
Depth Progress: 0.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ftKB) 1,874.0		Total Depth (TVD) (ftKB) Original Hole - 1,874.0			Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- WELLBORE SECTIONS --					
Section Des	Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Section Spud Date	Section TD Date
Production	7 7/8				
Intermediate	11				
Conductor	30	30.0	70.0	4/10/2023	4/10/2023
Surface	16	70.0	1,874.0	4/14/2023	4/16/2023

-- LAST CASING RUN --						
Csg Des	Run Date	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread
Surface	4/16/2023 14:00	1,864.0	13 3/8	54.50	J-55	

-- LOT & FIT TEST --							
Test Type	Test Date	Last Casing String Run	Formation Tested	Le...	Fluid Type	Dens Fl...	Vol Pum... Comment

-- SHAKER SCREENS --						
Deck Number	Screen Number	Screen Size X	Start Date	End Date	Drilling Time (hr)	

-- BOP --									
Start Date	End Date	Description	P Range (psi)	Nom ID (in)	Class	Service	Last Cert Date	Height (ft)	Clear (ft)

-- BOP COMPONENTS --						
Type Annular- nonrotating	Make Cameron	Serial Number		P Range (psi) 5,000.0	Nominal ID (in) 13 5/8	Body Type
Type Pipe ram-fixed bore	Make Cameron	Serial Number		P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type
Type Blind ram	Make Cameron	Serial Number		P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type
Type Spool	Make Cameron	Serial Number		P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type
Type Pipe ram-var. bore	Make Cameron	Serial Number		P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type

-- SAFETY CHECK SUMMARY -- (Safety Meeting, JSA, Haz ID)				
Date	Type	Tour	Des	Com
5/26/2023 06:00	Safety Meeting/JSA	Day	Rig Move	Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygiene, Forklift Operation's, Man Lift Operation's, Pinch Points, Wet/Muddy Conditions, Housekeeping, Running Casing
5/26/2023 18:00	Safety Meeting/JSA	Night	Rig Move	Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygiene, Forklift Operation's, Man Lift Operation's, Pinch Points, Working Together, Housekeeping, Running Casing and Cementing, Tripping

-- SAFETY INCIDENTS --		
Date	Type	IMS Plus Incident #

-- MUD PUMPS --							
Pump #	Start Date	End Date	Make	Model	Pwr (hp)	Stroke (in)	Rod Dia (in)
1	5/24/2023		Gardner-Denver	PZ-11		10.98	6
2	5/24/2023		Gardner-Denver	PZ-11		10.98	6
3	5/24/2023		Gardner-Denver	PZ-11		10.98	6

-- PUMP OPERATIONS --						
Pump #	Start Date	End Date	Liner Size (in)	P Max (psi)	Vol/Stk OR (bbl/stk)	
1	5/24/2023 00:00		5 1/2	6,300.0	0.077	
2	5/24/2023 00:00		5 1/2	6,300.0	0.077	
3	5/24/2023 00:00		5 1/2	6,300.0	0.077	

-- SLOW PUMP RATES --						
Pump #	Date	Depth (ftKB)	Strokes (spm)	Q Flow (gpm)	P (psi)	Eff (%)

-- WELLHEADS --						
Type	Make	Working Pressure (psi)	Max Pres (psi)	Size (in)	Start Date	

-- PERSONNEL LOG --		
Type	Company	Count
Contractor	Helmerich & Payne International Drlg Co	12
Contractor	Genesis Fluids, LLC	1
Contractor	Gordon Technologies, LLC	1
Contractor	Cathedral Energy Services, Inc.	2

-- REMARKS --	
Remarks Well Control: *Last BOP Drill: 5-19-23 Days 51 sec, Nights 50 sec. *Last Trip Drill: 5-21-23 *Annular Element: 10-3-2022 *Lower Variable Rams: 5-20-2022 *Upper Fixed Rams 5.5": 2-3-23 *Surface Casing Tested to 1500 psi for 30 minutes on x-xx-23 *Inter. Csg Tested to 1500 psi for 30 mins on x-xx-23 *Last BOP Test: 5-xx-23- *Next BOP Test: 5-23-23          *15 Jts 5" HWDP on Location. *2 Jts 4 ½ IF DP on Location *15 Jts 6 ¾" Rental DC on Location. 4 ½ *9 Jts 8" Rental DC on Location. 6 5/8 Reg *700 Jts 5.5" Rental DP on Location (PTech55)	



Daily Drilling (Partner)

Well Name: HILLTOP 37C 3HC

Report #: 8.0, DFS: 6.25

Report Start Date: 5/27/2023 06:00

Report End Date: 5/28/2023 06:00

Depth Progress: 0.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ftKB) 1,874.0		Total Depth (TVD) (ftKB) Original Hole - 1,874.0			Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- RIG --														
Contractor H&P			Rig Number 540			Rig Type Triple - Diesel			Max Hook Load (1000lbf) 750			Max Torque (ft*lb) 53,000		
AFE Number 23213342D			Job AFE Amt (Cost) \$3,535,700			Total AFE Supplemental Amount (Cost) \$0			Total AFE + Supp Amount (Cost) 3,535,700.00			Total Final Invoice (Cost) \$506,040		

-- OPERATIONS SUMMARY --					
Start Depth (ftKB) 1,874.0	Start Depth (TVD) (ftKB) 1,874.0	Problem Time Hours (hr) 14.00	Percent Problem Time (%) 58.33	Daily Mud Field Est (Cost) \$9,081	Daily Field Est Total (Cost) \$58,100
End Depth (ftKB) 1,874.0	End Depth (TVD) (ftKB) 1,874.0	Cum Problem Time Days (days) 0.583	Cum Percent Problem Time (%) 8.56	Cum Mud Field Est (Cost) \$9,081	Cum Field Est To Date (Cost) \$883,963
Target Depth (MD) (ftKB) 19,390.0	Target Formation Middle Spraberry	Hole Condition Good	Weather Partly Cloudy	Temperature (°F) 64.0	Road Condition Fair
24 Hr Summary Swap to Rig Power, Cont R/U Backyard Pumps, R/U Panic Line, R/U Cellar Pump, Accumulator Lines, Flowline and Fill Up Lines, Install Barricades and Drain Hoses to Cellar, Fill Mud Tanks with Water and Hammer Up Leaks. Troubleshoot and Replace TDS Traction Motor, Repin Blocks to TDS, M/U IBOP and Saver Sub, Nipple Up BOP's.					
AM Ops Nipple Up Bop's		Ops Forecast Test BOP's, P/U Interm Bha, Tih, Drill Out, Drill Intermediate as per Plan			

-- RIG SAFETY PERFORMANCE --														
Days Since Last LTI (days)			Days Since Last Reportable Inc (days)			MACP (psi)			WB Depth @ 6am (ftKB)					
427.00			66.00											

-- MUD CHECKS --														
Date	Type	Sample Source		Depth (ftKB)		Dens (lb/gal)		Vis (s/qt)		PV OR (cP)		YP OR (lb/100ft²)		T Flowline (°F)
5/27/2023 06:00	Brine	Suction		1,867.0		10.00		28		1.0		1.000		
Gel (10s) (lb/100ft²)	Gel (10m) (lb/100ft²)	Gel (30m) (lb/100ft²)		Filtrate (mL/30min)		FC (1/32")		pH		Solids (%)		LGS (%)		T BH (°F)
1.000	1.000	1.000				1		7.5		9.0		0.8		
H2O (%)	Oil (%)	MBT (lb/bbl)		Elec Stab (V)		Ca (mg/L)		Pot (mg/L)		Chlor (mg/L)		Vis 6rpm		Lime (lb/bbl)
91.0										166,000.000		1		

-- INTERVAL PROBLEMS (NPT) --														
Problem Type Rig Repair - Top Drive		Problem Subtype Code 8		Dur (Net) (hr) 14.00		Start Date 5/27/2023 10:00		End Date 5/28/2023 00:00		Start Depth (... 1,874.0		End Depth (f... 1,874.0		Description Troubleshoot and Replace TDS Traction Motor
														Ref #

-- TIMELOG --

Phase	Task	Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Start Depth (ftKB)	End Depth (ftKB)	Com	Prob Ref #
Rig Move/Up	Rig Move/Up	06:00	10:00	4.00	4.00	Rig Move	1,874.0	1,874.0	Swap to Rig Power, Cont R/U Backyard Pumps, R/U Panic Line, R/U Cellar Pump, Accumulator Lines, Flowline and Fill Up Lines, Install Barricades and Drain Hoses to Cellar, Fill Mud Tanks with Water and Hammer Up Leaks.	
Rig Move/Up	Rig Move/Up	10:00	00:00	14.00	18.00	Rig Repair	1,874.0	1,874.0	Electricians C/O Top Drive Cables and Traction Motor, Troubleshoot Top Drive Traction Motor with H&P Electricians, C/O Plugs on Wire Tray, Changed Parameters in VFD House.	
Rig Move/Up	Rig Move/Up	00:00	00:30	0.50	18.50	Rig Service	1,874.0	1,874.0	Rig Service	
Rig Move/Up	Rig Move/Up	00:30	04:30	4.00	22.50	Rig Down / Up	1,874.0	1,874.0	Repin Blocks to TDS, C/O Grabber Dies, M/U Manual IBOP, M/U Hyd IBOP, M/U Saver Sub, Install Compression Rings, M/U Standpipe Manifold	
Flat Surf	BOP/WH/ Drillout	04:30	06:00	1.50	24.00	BOP	1,874.0	1,874.0	Nipple Up Bop: Tq Bop Bolts at Speed Head and Riser, Function Test, M/U Choke Line and Kill Line	

-- DRILL BITS -- (BHA #<BHA #?> SUMMARY) <Drill String Name?>														
Bit Run	Type	Size (in)	Make		Model		SN	Bit TFA...	Depth In...	Depth O...	Drilled (ft)	Drill Tim...	Avg RO...	IADC Bit Dull Out

-- BHA --														
Jts	Item Des		Grade	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Mass/Len (lb/ft)	Wt (lbf)	Top Thread	Icon	Connections	Gauge (in)	Drift (in)

-- DOWNHOLE SENSORS --														
Sensor Type					Sensor-Bit (ft)					Note				

-- KICKS --														
Kick Date		Kick Depth (ftKB)	Control Date		Control Depth (ftKB)	Class	P SIDP (psi)	P SIC (psi)	Vol Kick (bbl)	Kill Notes				

-- MUD ADDITIVES --								
Des	Date	Rec	Consumed	Returned	Rec	Consumed	Returned	On Loc
24 Hour Engineering	5/27/2023	0.0			4.0	4.0	0.0	0.0
24 Hour Engineering	5/28/2023	4.0	4.0		4.0	4.0	0.0	0.0
Aluminum Stearate	5/27/2023	0.0			0.0	0.0	0.0	0.0
Aquasol 325	5/27/2023	0.0			0.0	0.0	0.0	0.0
Barite Sack	5/27/2023	105.0			105.0	0.0	0.0	105.0
Bentonite Sacks	5/27/2023	0.0			0.0	0.0	0.0	0.0
Blower	5/27/2023	0.0			8.0	8.0	0.0	0.0
Blower	5/28/2023	8.0	8.0		8.0	8.0	0.0	0.0
Bulk Barite	5/27/2023	0.0			21.58	0.0	0.0	21.58
Bulk Barite	5/27/2023	21.58			21.58	0.0	0.0	21.58
Bulk Gel	5/27/2023	0.0			17.03	0.0	0.0	17.03
Bulk Gel	5/27/2023	17.03			17.03	0.0	0.0	17.03
Bulk Tank Rental	5/27/2023	0.0			3.0	3.0	0.0	0.0
Bulk Tank Rental	5/28/2023	3.0	3.0		3.0	3.0	0.0	0.0
Calcium Carbonate	5/27/2023	19.0			19.0	0.0	0.0	19.0
Calcium Chloride	5/27/2023	0.0			0.0	0.0	0.0	0.0
Caustic Soda	5/27/2023	0.0			0.0	0.0	0.0	0.0
Cedar Fiber	5/27/2023	385.0			385.0	0.0	0.0	385.0
Check Loss	5/27/2023	0.0			0.0	0.0	0.0	0.0
Citric Acid	5/27/2023	0.0			0.0	0.0	0.0	0.0



Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 8.0, DFS: 6.25  
Report Start Date: 5/27/2023 06:00  
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Depth Progress: 0.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ftKB) 1,874.0		Total Depth (TVD) (ftKB) Original Hole - 1,874.0		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date		

-- MUD ADDITIVES --									
Des		Date	Rec	Consumed	Returned	Rec	Consumed	Returned	On Loc
Clean Lube		5/27/2023	530.0			530.0	0.0	0.0	530.0
Corrosion Ring		5/27/2023	0.0			0.0	0.0	0.0	0.0
Cottonseed Hulls Updated		5/27/2023	19.0			19.0	0.0	0.0	19.0
Desco		5/27/2023	0.0			0.0	0.0	0.0	0.0
DiaSeal M		5/27/2023	0.0			0.0	0.0	0.0	0.0
Drum Disposal		5/27/2023	0.0			0.0	0.0	0.0	0.0
Forklift		5/27/2023	0.0			1.0	1.0	0.0	0.0
Forklift		5/28/2023	1.0	1.0		1.0	1.0	0.0	0.0
FRAC MAGIC		5/27/2023	0.0			0.0	0.0	0.0	0.0
Free Pip		5/27/2023	24.0			24.0	0.0	0.0	24.0
Gamma LS		5/27/2023	0.0			0.0	0.0	0.0	0.0
Gen Shield		5/27/2023	225.0			225.0	0.0	0.0	225.0
Genesis Lube		5/27/2023	0.0			0.0	0.0	0.0	0.0
Genesis Lube 2.0		5/27/2023	0.0			0.0	0.0	0.0	0.0
GenWet		5/27/2023	265.0			265.0	0.0	0.0	265.0
Graphite		5/27/2023	0.0			0.0	0.0	0.0	0.0
GS Seal F		5/27/2023	0.0			0.0	0.0	0.0	0.0
LC Lube Fine		5/27/2023	0.0			0.0	0.0	0.0	0.0
LCF Blend		5/27/2023	0.0			0.0	0.0	0.0	0.0
Lime		5/27/2023	0.0			0.0	0.0	0.0	0.0
Liquid Defoamer		5/27/2023	24.0			24.0	0.0	0.0	24.0
MEA		5/27/2023	195.0			195.0	0.0	0.0	195.0
MF-55		5/27/2023	24.0			24.0	0.0	0.0	24.0
Mica M		5/27/2023	22.0			22.0	0.0	0.0	22.0
MiCarb		5/27/2023	0.0			0.0	0.0	0.0	0.0
Mix II		5/27/2023	0.0			0.0	0.0	0.0	0.0
Multi-Rig Discount		5/27/2023	0.0			0.0	0.0	0.0	0.0
Myacide		5/27/2023	23.0			23.0	0.0	0.0	23.0
Pac LV		5/27/2023	70.0			70.0	0.0	0.0	70.0
Pac R		5/27/2023	0.0			0.0	0.0	0.0	0.0
Pallets		5/27/2023	0.0			13.0	13.0	0.0	0.0
Pallets		5/28/2023	13.0	13.0		13.0	13.0	0.0	0.0
Poly Tech		5/27/2023	100.0			100.0	0.0	0.0	100.0
Poly Vis		5/27/2023	21.0			21.0	0.0	0.0	21.0
PolyGen 25		5/27/2023	0.0			0.0	0.0	0.0	0.0
Pure Bore		5/27/2023	0.0			0.0	0.0	0.0	0.0
Radiagreen		5/27/2023	550.0			550.0	0.0	0.0	550.0
Retention Bonus		5/27/2023	0.0			0.0	0.0	0.0	0.0
Retention Bonus		5/27/2023	0.0			4.0	4.0	0.0	0.0
Retention Bonus		5/28/2023	4.0	4.0		4.0	4.0	0.0	0.0
Sapp		5/27/2023	20.0			20.0	0.0	0.0	20.0
Sapp Stick		5/27/2023	12.0			12.0	0.0	0.0	12.0
Shrinkwrap		5/27/2023	0.0			13.0	13.0	0.0	0.0
Shrinkwrap		5/28/2023	13.0	13.0		13.0	13.0	0.0	0.0
Soap Stick		5/27/2023	12.0			12.0	0.0	0.0	12.0
Soda Ash		5/27/2023	81.0			81.0	0.0	0.0	81.0
Sodium Bicarbonate		5/27/2023	0.0			0.0	0.0	0.0	0.0
Sodium Sulfite		5/27/2023	89.0			89.0	0.0	0.0	89.0
Sulfonated Asphalt		5/27/2023	0.0			0.0	0.0	0.0	0.0
Texzan		5/27/2023	194.0			194.0	0.0	0.0	194.0
Tote Disposal		5/27/2023	0.0			0.0	0.0	0.0	0.0
Trucking		5/27/2023	0.0			2,471.07	2,471.07	0.0	0.0
Trucking		5/28/2023	2,471.07	2,471.07		2,471.07	2,471.07	0.0	0.0
Walnut Fine		5/27/2023	0.0			0.0	0.0	0.0	0.0
Walnut Shell		5/27/2023	0.0			0.0	0.0	0.0	0.0
Xantham Gum		5/27/2023	0.0			0.0	0.0	0.0	0.0
Zinc Drums		5/27/2023	1.0			1.0	0.0	0.0	1.0
Zinc Oxide		5/27/2023	48.0			48.0	0.0	0.0	48.0

-- LEASE FLUIDS -- (Water, Mud Cuttings, Sewage, Haul-Off)					
Fluid Type	Fluid Sub Type	Source	Vol to Lease (bbl)	Vol from Lease (bbl)	Dest
Fresh Water	Drilling	Ovintiv Permitted Surface Water	0.0		

-- JOB SUPPLIES -- (Fuel)												
Date	Supply Item Des	Vendor	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned	Cum On Loc	Unit Label	Unit Sz
5/28/2023	Fuel		Diesel Fuel - Rig		819.0		9,700.0	819.0	0.0	8,881.0	gal US	
5/28/2023	Fuel		Diesel Fuel - Other		0.0		8,065.0	0.0	0.0	8,065.0	gal US	

-- LOST CIRCULATION --							
Start Date	End Date	Ops In Prog	Top (ftKB)	Btm (ftKB)	Q Lost (bbl/hr)	Vol Lost Tot (bbl)	Com

-- SURVEY DATA --									
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)
1,617.00	0.14	203.28	1,616.99	3.11	2.03	2.38	0.05	-0.05	-1.20
1,706.00	0.20	230.10	1,705.99	2.86	1.83	2.21	0.11	0.07	30.13
1,793.00	0.19	264.40	1,792.99	2.60	1.72	1.95	0.13	-0.01	39.43





Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 8.0, DFS: 6.25  
Report Start Date: 5/27/2023 06:00  
Report End Date: 5/28/2023 06:00  
Depth Progress: 0.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ftKB) 1,874.0		Total Depth (TVD) (ftKB) Original Hole - 1,874.0		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date		

-- SURVEY DATA --										
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	
1,813.00	0.19	264.40	1,812.99	2.54	1.71	1.89	0.00	0.00	0.00	
1,874.00	0.19	264.40	1,873.99	2.39	1.69	1.69	0.00	0.00	0.00	

-- FORMATION TOPS --				
Wellbore Name		CWS Borehole ID		Formation Name

-- WELLBORE SECTIONS --					
Section Des		Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Section Spud Date
Production		7 7/8			
Intermediate		11			
Conductor		30	30.0	70.0	4/10/2023
Surface		16	70.0	1,874.0	4/14/2023

-- LAST CASING RUN --						
Csg Des		Run Date		Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)
Surface		4/16/2023 14:00		1,864.0	13 3/8	54.50

-- LOT & FIT TEST --							
Test Type		Test Date	Last Casing String Run	Formation Tested	Le...	Fluid Type	Dens Fl...

-- SHAKER SCREENS --					
Deck Number	Screen Number	Screen Size X	Start Date	End Date	Drilling Time (hr)

-- BOP --									
Start Date	End Date	Description	P Range (psi)	Nom ID (in)	Class	Service	Last Cert Date	Height (ft)	Clear (ft)

-- BOP COMPONENTS --					
Type	Make	Serial Number		P Range (psi)	Nominal ID (in)
Annular-nonrotating	Cameron			5,000.0	13 5/8
Pipe ram-fixed bore	Cameron			10,000.0	13 5/8
Blind ram	Cameron			10,000.0	13 5/8
Spool	Cameron			10,000.0	13 5/8
Pipe ram-var. bore	Cameron			10,000.0	13 5/8

-- SAFETY CHECK SUMMARY -- (Safety Meeting, JSA, Haz ID)				
Date	Type	Tour	Des	Com
5/27/2023 06:00	Safety Meeting/JSA	Day	Rig Move	Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygene, Forklift Operation's, Man Lift Operation's, Pinch Points, Wet/Muddy Conditions, Housekeeping, Running Casing
5/27/2023 18:00	Safety Meeting/JSA	Night	Rig Move	Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygene, Forklift Operation's, Man Lift Operation's, Pinch Points, Working Together, Housekeeping, Running Casing and Cementing, Tripping

-- SAFETY INCIDENTS --		
Date	Type	IMS Plus Incident #

-- MUD PUMPS --							
Pump #	Start Date	End Date	Make	Model	Pwr (hp)	Stroke (in)	Rod Dia (in)
1	5/24/2023		Gardner-Denver	PZ-11		10.98	6
2	5/24/2023		Gardner-Denver	PZ-11		10.98	6
3	5/24/2023		Gardner-Denver	PZ-11		10.98	6

-- PUMP OPERATIONS --					
Pump #	Start Date	End Date	Liner Size (in)	P Max (psi)	Vol/Stk OR (bbl/stk)
1	5/24/2023 00:00		5 1/2	6,300.0	0.077
2	5/24/2023 00:00		5 1/2	6,300.0	0.077
3	5/24/2023 00:00		5 1/2	6,300.0	0.077

-- SLOW PUMP RATES --						
Pump #	Date	Depth (ftKB)	Strokes (spm)	Q Flow (gpm)	P (psi)	Eff (%)

-- WELLHEADS --					
Type	Make	Working Pressure (psi)	Max Pres (psi)	Size (in)	Start Date

-- PERSONNEL LOG --		
Type	Company	Count
Contractor	Helmerich & Payne International Drlg Co	12
Contractor	Genesis Fluids, LLC	1
Contractor	Gordon Technologies, LLC	1
Contractor	Cathedral Energy Services, Inc.	2





Daily Drilling (Partner)

Well Name: HILLTOP 37C 3HC

Report #: 9.0, DFS: 0.42

Report Start Date: 5/28/2023 06:00

Report End Date: 5/29/2023 06:00

Depth Progress: 1,943.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ftKB) 1,874.0		Total Depth (TVD) (ftKB) Original Hole - 1,874.0			Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- RIG --														
Contractor H&P			Rig Number 540			Rig Type Triple - Diesel			Max Hook Load (1000lbf) 750			Max Torque (ft*lb) 53,000		
AFE Number 23213342D			Job AFE Amt (Cost) \$3,535,700			Total AFE Supplemental Amount (Cost) \$0			Total AFE + Supp Amount (Cost) 3,535,700.00			Total Final Invoice (Cost) \$506,040		

-- OPERATIONS SUMMARY --					
Start Depth (ftKB) 1,874.0	Start Depth (TVD) (ftKB) 1,874.0	Problem Time Hours (hr) 0.00	Percent Problem Time (%) 0.00	Daily Mud Field Est (Cost) \$3,282	Daily Field Est Total (Cost) \$96,700
End Depth (ftKB) 3,817.0	End Depth (TVD) (ftKB) 3,804.2	Cum Problem Time Days (days) 0.583	Cum Percent Problem Time (%) 7.47	Cum Mud Field Est (Cost) \$12,363	Cum Field Est To Date (Cost) \$980,663
Target Depth (MD) (ftKB) 19,390.0	Target Formation Middle Spraberry	Hole Condition Good	Weather Partly Cloudy	Temperature (°F) 64.0	Road Condition Fair
24 Hr Summary					
Cont N/U Bop's, Test Choke Manifold and Bop's, Install Wear Bushing, P/U Interm Bha, Tih to 1805', Drill Out Cement, FC and Shoe Track F/1805' - 1874'. Drilled from 1874' to 3817' (1943' drilled in 9.5 hrs @ avg ROP of 204.5 fph). Rotate 1693' in 7 hrs @ 241.9 fph. Slide 250' in 2.5 hrs @ 100 fph.					
AM Ops Drill 11" Intermediate @ 3,817'			Ops Forecast Drill Lateral as per Plan #2, Circ Hole Clean, Tooh, Run 8 5/8" Csg		

-- RIG SAFETY PERFORMANCE --														
Days Since Last LTI (days)				Days Since Last Reportable Inc (days)				MACP (psi)				WB Depth @ 6am (ftKB)		
428.00				67.00										

-- MUD CHECKS --								
Date	Type	Sample Source	Depth (ftKB)	Dens (lb/gal)	Vis (s/qt)	PV OR (cP)	YP OR (lb/100ft²)	T Flowline (°F)
5/28/2023 06:00	Brine	Suction	1,874.0	10.00	28	1.0	1.000	
Gel (10s) (lb/100ft²)	Gel (10m) (lb/100ft²)	Gel (30m) (lb/100ft²)	Filtrate (mL/30min)	FC (1/32")	pH	Solids (%)	LGS (%)	T BH (°F)
1.000	1.000	1.000		1	7.5	9.0	0.8	
H2O (%)	Oil (%)	MBT (lb/bbl)	Elec Stab (V)	Ca (mg/L)	Pot (mg/L)	Chlor (mg/L)	Vis 6rpm	Lime (lb/bbl)
91.0						166,000.000	1	

-- INTERVAL PROBLEMS (NPT) --								
Problem Type	Problem Subtype	Dur (Net) (hr)	Start Date	End Date	Start Depth (...)	End Depth (...)	Description	Ref #

-- TIMELOG --														
Phase	Task	Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Start Depth (ftKB)	End Depth (ftKB)	Com				Prob Ref #	
Flat Surf	BOP/WH/ Drillout	06:00	07:30	1.50	1.50	BOP	1,874.0	1,874.0	Cont N/U Bop's					
Flat Surf	BOP/WH/ Drillout	07:30	12:00	4.50	6.00	BOP	1,874.0	1,874.0	Test Pumps, Choke Manifold, Floor Valves, Upper/Lower Rams, HCR, Blinds and Mud Lines 250 Low, 5,000 High, Test Annular 250 Low, 3500 High					
Flat Surf	BOP/WH/ Drillout	12:00	12:30	0.50	6.50	Wellhead	1,874.0	1,874.0	Install Wear Bushing					
Flat Surf	BOP/WH/ Drillout	12:30	13:00	0.50	7.00	Handle Tools	1,874.0	1,874.0	P/U XO's, UBHO and Lift Subs to Rig Floor					
Flat Surf	BOP/WH/ Drillout	13:00	15:00	2.00	9.00	Handle Tools	1,874.0	1,874.0	P/U Intermediate Bha (Altitude 1.15, Ulterra WAV616)					
Flat Surf	BOP/WH/ Drillout	15:00	19:00	4.00	13.00	Pipe Down / Up	1,874.0	1,874.0	P/U 8" DC's, 6.75" DC's, HWDP and DP from ground and Tih to 1805'					
Flat Surf	BOP/WH/ Drillout	19:00	20:00	1.00	14.00	Drill - Other	1,874.0	1,874.0	Drill Out Cement, FC and Shoe Track F/1805' - 1874'					
Drlg Int 1	Drill	20:00	21:00	1.00	15.00	Drill - Rotate	1,874.0	2,000.0	Rotate from 1874' to 2000' (126' drilled @ 126 fph). WOB = 40 klbs, Q = 700 gpm, SPP = 2200 psi, Diff = 750 psi, RPM = 55, Torque = 11 kft-lbs, MM RPM = 126, Total bit RPM = 181.					
Drlg Int 1	Drill	21:00	21:30	0.50	15.50	Drill - Slide	2,000.0	2,050.0	Slide from 2000' to 2050' (50' drilled @ 100 fph). WOB = 15 klbs, Q = 700 gpm, SPP = 1750 psi, Diff = 300 psi, MM RPM = 126, TFO = 217M.					
Drlg Int 1	Drill	21:30	22:00	0.50	16.00	Drill - Rotate	2,050.0	2,095.0	Rotate from 2050' to 2095' (45' drilled @ 90 fph). WOB = 40 klbs, Q = 700 gpm, SPP = 2200 psi, Diff = 750 psi, RPM = 55, Torque = 11 kft-lbs, MM RPM = 126, Total bit RPM = 181.					
Drlg Int 1	Drill	22:00	22:30	0.50	16.50	Drill - Slide	2,095.0	2,155.0	Slide from 2095' to 2155' (60' drilled @ 120 fph). WOB = 15 klbs, Q = 700 gpm, SPP = 1900 psi, Diff = 350 psi, MM RPM = 126, TFO = 217M.					
Drlg Int 1	Drill	22:30	23:30	1.00	17.50	Drill - Rotate	2,155.0	2,382.0	Rotate from 2155' to 2382' (227' drilled @ 227 fph). WOB = 45 klbs, Q = 750 gpm, SPP = 2400 psi, Diff = 950 psi, RPM = 80, Torque = 16 kft-lbs, MM RPM = 135, Total bit RPM = 215.					
Drlg Int 1	Drill	23:30	00:00	0.50	18.00	Drill - Slide	2,382.0	2,442.0	Slide from 2382' to 2442' (60' drilled @ 120 fph). WOB = 20 klbs, Q = 800 gpm, SPP = 2400 psi, Diff = 400 psi, MM RPM = 144, TFO = 217M.					
Drlg Int 1	Drill	00:00	00:30	0.50	18.50	Drill - Rotate	2,442.0	2,574.0	Rotate from 2442' to 2574' (132' drilled @ 264 fph). WOB = 45 klbs, Q = 800 gpm, SPP = 2900 psi, Diff = 900 psi, RPM = 80, Torque = 15 kft-lbs, MM RPM = 144, Total bit RPM = 224.					
Drlg Int 1	Drill	00:30	01:00	0.50	19.00	Other	2,574.0	2,574.0	Install Rot Head					
Drlg Int 1	Drill	01:00	02:30	1.50	20.50	Drill - Rotate	2,574.0	3,148.0	Rotate from 2574' to 3148' (574' drilled @ 382.7 fph). WOB = 45 klbs, Q = 950 gpm, SPP = 3400 psi, Diff = 1100 psi, RPM = 80, Torque = 16 kft-lbs, MM RPM = 171, Total bit RPM = 251.					
Drlg Int 1	Drill	02:30	03:00	0.50	21.00	Drill - Slide	3,148.0	3,198.0	Slide from 3148' to 3198' (50' drilled @ 100 fph). WOB = 25 klbs, Q = 650 gpm, SPP = 3200 psi, Diff = 400 psi, MM RPM = 117, TFO = 217M.					
Drlg Int 1	Drill	03:00	04:30	1.50	22.50	Drill - Rotate	3,198.0	3,530.0	Rotate from 3198' to 3530' (332' drilled @ 221.3 fph). WOB = 45 klbs, Q = 950 gpm, SPP = 3400 psi, Diff = 1100 psi, RPM = 80, Torque = 16 kft-lbs, MM RPM = 171, Total bit RPM = 251.					
Drlg Int 1	Drill	04:30	05:00	0.50	23.00	Drill - Slide	3,530.0	3,560.0	Slide from 3530' to 3560' (30' drilled @ 60 fph). WOB = 25 klbs, Q = 650 gpm, SPP = 3200 psi, Diff = 400 psi, MM RPM = 117, TFO = 217M.					
Drlg Int 1	Drill	05:00	06:00	1.00	24.00	Drill - Rotate	3,560.0	3,817.0	Rotate from 3560' to 3817' (257' drilled @ 257 fph). WOB = 45 klbs, Q = 950 gpm, SPP = 3400 psi, Diff = 1100 psi, RPM = 80, Torque = 18 kft-lbs, MM RPM = 171, Total bit RPM = 251.					



Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 9.0, DFS: 0.42  
Report Start Date: 5/28/2023 06:00  
Report End Date: 5/29/2023 06:00  
Depth Progress: 1,943.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366			
Orig KB Elev (ft) 3,030.00		Gr Elev (ft) 3,000.00		KB-Grd (ft) 30.00		Total Depth (MD) (ftKB) 1,874.0		Total Depth (TVD) (ftKB) Original Hole - 1,874.0		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- DRILL BITS -- (BHA #2 SUMMARY) Intermediate																
Bit Run 2	Type PDC	Size (in) 11	Make Ulterra			Model WAV616		SN 67419		Bit TFA...	Depth In...	Depth O...	Drilled (ft)	Drill Tim...	Avg RO...	IADC Bit Dull Out -----

-- BHA --

Jts	Item Des	Grade	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Mass/Len (lb/ft)	Wt (lbf)	Top Thread	Icon	Connections	Gauge (in)	Drift (in)
91	Drill Pipe	S135	5 1/2	3.0	2,870.00	3,817.99	19.20	55,104.0	PTech 55	Drill pipe	5 1/2 PTech 55 x 5 1/2 PTech 55		
1	XO Sub		6 1/2	3.0	1.65	947.99			PTech 55	XO	5 1/2 PTech 55 x 4 1/2 IF		
9	HWDP		5	3.0	270.80	946.34	49.30	13,350.4	IF	Drill pipe - heavyweight	4 1/2 IF x 4 1/2 IF		
9	Drill Collar		6 3/4	2.875	269.34	675.54	97.44	26,244.5	IF	Drill Collar	4 1/2 IF x 4 1/2 IF		
1	XO Sub		8	3.0	2.91	406.20			IF	XO	4 1/2 IF x 6 5/8 Reg		
9	Drill Collar		6 3/4	2.875	263.73	403.29	146.49	38,633.8	Reg	Drill Collar	6 5/8 Reg x 6 5/8 Reg		
1	NMDC		7 3/4	3.5	27.45	139.56	146.49	4,021.2	Reg	Drill collar - non mag	6 5/8 Reg x 6 5/8 Reg		
1	NMDC		7 7/8	3.625	31.00	112.11	146.49	4,541.2	Reg	Drill collar - non mag	6 5/8 Reg x 6 5/8 Reg		
1	NMDC		7 7/8	3.75	30.81	81.11	146.49	4,513.4	Reg	Drill collar - non mag	6 5/8 Reg x 6 5/8 Reg		
1	UBHO		8	3.688	2.50	50.30			Reg	Drill Collar	6 5/8 Reg x 6 5/8 Reg		
1	Stabilizer		10 1/8	2.5	4.97	47.80			Reg	Stabilizer	6 5/8 Reg x 6 5/8 Reg		
1	7/8:L 7.0:S @ 0.18		8 3/4		41.33	42.83			Reg	Motor 2	6 5/8 Reg x 6 5/8 Reg		

-- DOWNHOLE SENSORS --																
Sensor Type					Sensor-Bit (ft)					Note						
Gamma										58.38						
Directional										70.00						

-- MUD MOTORS/VARIABLE GAUGE STABILIZERS --																
Lower Deflection Type Fixed						Lower Deflection Amount 1.15					Rotor Nozzle Diameter (in)					

-- KICKS --																
Kick Date		Kick Depth (ftKB)	Control Date		Control Depth (ftKB)	Class	P SIDP (psi)	P SIC (psi)	Vol Kick (bbl)	Kill Notes						

-- MUD ADDITIVES --										
Des		Date		Rec	Consumed	Returned	Rec	Consumed	Returned	On Loc
24 Hour Engineering		5/29/2023		1.0	1.0		5.0	5.0	0.0	0.0
Blower		5/29/2023		2.0	2.0		10.0	10.0	0.0	0.0
Bulk Gel		5/29/2023			4.0		17.03	4.0	0.0	13.03
Retention Bonus		5/29/2023		1.0	1.0		5.0	5.0	0.0	0.0
Soda Ash		5/29/2023			8.0		81.0	8.0	0.0	73.0
Trucking		5/29/2023		1,077.03	1,077.03		3,548.1	3,548.1	0.0	0.0

-- LEASE FLUIDS -- (Water, Mud Cuttings, Sewage, Haul-Off)																
Fluid Type		Fluid Sub Type			Source			Vol to Lease (bbl)	Vol from Lease (bbl)	Dest						
Fresh Water		Drilling			Ovintiv Permitted Surface Water			0.0								

-- JOB SUPPLIES -- (Fuel)												
Date	Supply Item Des	Vendor	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned	Cum On Loc	Unit Label	Unit Sz
5/29/2023	Fuel		Diesel Fuel - Rig		1,549.0		9,700.0	2,368.0	0.0	7,332.0	gal US	
5/29/2023	Fuel		Diesel Fuel - Other		0.0		8,065.0	0.0	0.0	8,065.0	gal US	

-- LOST CIRCULATION --																
Start Date		End Date		Ops In Prog			Top (ftKB)	Btm (ftKB)	Q Lost (bbl/hr)	Vol Lost Tot (bbl)	Com					

-- SURVEY DATA --										
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	
3,269.00	8.35	213.29	3,261.42	132.02	-117.02	-61.27	0.90	0.83	2.49	
3,365.00	7.77	211.37	3,356.47	145.46	-128.38	-68.47	0.67	-0.60	-2.00	
3,460.00	7.45	209.90	3,450.64	158.04	-139.21	-74.89	0.39	-0.34	-1.55	
3,556.00	8.00	213.57	3,545.76	170.93	-150.17	-81.68	0.77	0.57	3.82	
3,817.00	8.00	213.57	3,804.22	207.16	-180.43	-101.77	0.00	0.00	0.00	

-- FORMATION TOPS --																
Wellbore Name			CWS Borehole ID			Formation Name			Drill Top MD (ftKB)			Drill Top (TVD) (ftKB)				

-- WELLBORE SECTIONS --																
Section Des				Hole Size (in)		Act Top (ftKB)		Act Btm (ftKB)		Section Spud Date			Section TD Date			
Production				7 7/8												
Conductor				30		30.0		70.0		4/10/2023			4/10/2023			
Surface				16		70.0		1,874.0		4/14/2023			4/16/2023			
Intermediate				11		1,874.0				5/28/2023						

-- LAST CASING RUN --																
Csg Des			Run Date			Set Depth (ftKB)			OD (in)		Wt/Len (lb/ft)		Grade		Top Thread	
Surface			4/16/2023 14:00			1,864.0			13 3/8		54.50		J-55			



Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 9.0, DFS: 0.42  
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-- LOT & FIT TEST --														
Test Type		Test Date		Last Casing String Run		Formation Tested		Le...	Fluid Type		Dens Fl...		Vol Pum...	Comment

-- SHAKER SCREENS --														
Deck Number		Screen Number		Screen Size X		Start Date				End Date			Drilling Time (hr)	

-- BOP --														
Start Date		End Date		Description		P Range (psi)		Nom ID (in)	Class		Service		Last Cert Date	Height (ft) Clear (ft)

-- BOP COMPONENTS --														
Type Annular-nonrotating		Make Cameron				Serial Number				P Range (psi) 5,000.0		Nominal ID (in) 13 5/8		Body Type
Type Pipe ram-fixed bore		Make Cameron				Serial Number				P Range (psi) 10,000.0		Nominal ID (in) 13 5/8		Body Type
Type Blind ram		Make Cameron				Serial Number				P Range (psi) 10,000.0		Nominal ID (in) 13 5/8		Body Type
Type Spool		Make Cameron				Serial Number				P Range (psi) 10,000.0		Nominal ID (in) 13 5/8		Body Type
Type Pipe ram-var. bore		Make Cameron				Serial Number				P Range (psi) 10,000.0		Nominal ID (in) 13 5/8		Body Type

-- SAFETY CHECK SUMMARY -- (Safety Meeting, JSA, Haz ID)														
Date		Type			Tour		Des		Com					
5/28/2023 06:00		Safety Meeting/JSA			Day		Pre Tour		Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygene, Forklift Operation's, Man Lift Operation's, Pinch Points, Wet/Muddy Conditions, Housekeeping, Running Casing					
5/28/2023 18:00		Safety Meeting/JSA			Night		Pre Tour		Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygene, Forklift Operation's, Man Lift Operation's, Pinch Points, Working Together, Housekeeping, Running Casing and Cementing, Tripping					

-- SAFETY INCIDENTS --														
Date					Type					IMS Plus Incident #				

-- MUD PUMPS --							
Pump #	Start Date	End Date	Make	Model	Pwr (hp)	Stroke (in)	Rod Dia (in)
1	5/24/2023		Gardner-Denver	PZ-11		10.98	6
2	5/24/2023		Gardner-Denver	PZ-11		10.98	6
3	5/24/2023		Gardner-Denver	PZ-11		10.98	6

-- PUMP OPERATIONS --														
Pump #		Start Date			End Date		Liner Size (in)			P Max (psi)		Vol/Stk OR (bbl/stk)		
1		5/24/2023 00:00					5 1/2			6,300.0		0.077		
2		5/24/2023 00:00					5 1/2			6,300.0		0.077		
3		5/24/2023 00:00					5 1/2			6,300.0		0.077		

-- SLOW PUMP RATES --														
Pump #		Date		Depth (ftKB)		Strokes (spm)		Q Flow (gpm)		P (psi)		Eff (%)		

-- WELLHEADS --														
Type		Make				Working Pressure (psi)		Max Pres (psi)		Size (in)		Start Date		

-- PERSONNEL LOG --														
Type							Company						Count	
Contractor							Helmerich & Payne International Drlg Co						12	
Contractor							Genesis Fluids, LLC						1	
Contractor							Gordon Technologies, LLC						1	
Contractor							Cathedral Energy Services, Inc.						2	

-- REMARKS --														
Remarks														
Well Control: *Last BOP Drill: 5-19-23 Days 51 sec, Nights 50 sec. *Last Trip Drill: 5-21-23 *Annular Element: 10-3-2022 *Lower Variable Rams: 5-20-2022 *Upper Fixed Rams 5.5": 2-3-23 *Surface Casing Tested to 1500 psi for 30 minutes on 4-29-23 *Inter. Csg Tested to 1500 psi for 30 mins on x-xx-23 *Last BOP Test: 5-28-23 *Next BOP Test: 6-18-23														
*15 Jts 5" HWDP on Location. *2 Jts 4 ½ IF DP on Location *15 Jts 6 ¾" Rental DC on Location. 4 ½ *9 Jts 8" Rental DC on Location. 6 5/8 Reg *700 Jts 5.5" Rental DP on Location (PTech55)														





Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 10.0, DFS: 1.42  
Report Start Date: 5/29/2023 06:00  
Report End Date: 5/30/2023 06:00  
Depth Progress: 3,360.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366			
Orig KB Elev (ft) 3,030.00		Gr Elev (ft) 3,000.00		KB-Grd (ft) 30.00		Total Depth (MD) (ftKB) 7,177.0		Total Depth (TVD) (ftKB) Original Hole - 7,141.2		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- RIG --				
Contractor H&P	Rig Number 540	Rig Type Triple - Diesel	Max Hook Load (1000lbf) 750	Max Torque (ft*lb) 53,000
AFE Number 23213342D	Job AFE Amt (Cost) \$3,535,700	Total AFE Supplemental Amount (Cost) \$0	Total AFE + Supp Amount (Cost) 3,535,700.00	Total Final Invoice (Cost) \$506,040

-- OPERATIONS SUMMARY --					
Start Depth (ftKB) 3,817.0	Start Depth (TVD) (ftKB) 3,804.2	Problem Time Hours (hr) 0.00	Percent Problem Time (%) 0.00	Daily Mud Field Est (Cost) \$8,712	Daily Field Est Total (Cost) \$67,700
End Depth (ftKB) 7,177.0	End Depth (TVD) (ftKB) 7,141.2	Cum Problem Time Days (days) 0.583	Cum Percent Problem Time (%) 6.62	Cum Mud Field Est (Cost) \$21,075	Cum Field Est To Date (Cost) \$1,054,163
Target Depth (MD) (ftKB) 19,390.0	Target Formation Middle Spraberry	Hole Condition Good	Weather Clear	Temperature (°F) 66.0	Road Condition Fair
24 Hr Summary **Notified TRRC Of Upcoming Casing and Cement Job @ 00:25 (Christina #16 ). Drilled from 3817' to 7177' (3360' drilled in 18 hrs @ avg ROP of 186.7 fph). Rotate 3172' in 14.5 hrs @ 218.8 fph. Slide 188' in 3.5 hrs @ 53.7 fph. Circ Hole Clean, Tooh F/7177' - 139', L/D Intermediate Bha.					
AM Ops L/D Intermediate Bha			Ops Forecast L/D Bha, Pull Wear Bushing, Run 8 5/8" Csg, Cement, Set Pack Off Assy, P/U Bha		

-- RIG SAFETY PERFORMANCE --															
Days Since Last LTI (days)				Days Since Last Reportable Inc (days)				MACP (psi)				WB Depth @ 6am (ftKB)			
429.00				68.00											

-- MUD CHECKS --								
Date	Type	Sample Source	Depth (ftKB)	Dens (lb/gal)	Vis (s/qt)	PV OR (cP)	YP OR (lb/100ft²)	T Flowline (°F)
5/29/2023 06:00	Brine	Suction	6,191.0	10.10	30	2.0	3.000	
Gel (10s) (lb/100ft²)	Gel (10m) (lb/100ft²)	Gel (30m) (lb/100ft²)	Filtrate (mL/30min)	FC (1/32")	pH	Solids (%)	LGS (%)	T BH (°F)
1.000	1.000	1.000		1	7.5	9.0	0.8	
H2O (%)	Oil (%)	MBT (lb/bbl)	Elec Stab (V)	Ca (mg/L)	Pot (mg/L)	Chlor (mg/L)	Vis 6rpm	Lime (lb/bbl)
91.0						158,000.000	2	

-- INTERVAL PROBLEMS (NPT) --								
Problem Type	Problem Subtype	Dur (Net) (hr)	Start Date	End Date	Start Depth (...)	End Depth (f...	Description	Ref #

-- TIMELOG --															
Phase	Task	Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Start Depth (ftKB)	End Depth (ftKB)	Com						Prob Ref #
Drlg Int 1	Drill	06:00	07:30	1.50	1.50	Drill - Rotat e	3,817.0	4,295.0	Rotate from 3817' to 4295' (478' drilled @ 318.7 fph). WOB = 45 klbs, Q = 950 gpm, SPP = 4100 psi, Diff = 1000 psi, RPM = 80, Torque = 20 kft-lbs, MM RPM = 171, Total bit RPM = 251.						
Drlg Int 1	Drill	07:30	08:00	0.50	2.00	Drill - Slide	4,295.0	4,331.0	Slide from 4295' to 4331' (36' drilled @ 72 fph). WOB = 28 klbs, Q = 950 gpm, SPP = 3200 psi, Diff = 275 psi, MM RPM = 171, TFO = 265M.						
Drlg Int 1	Drill	08:00	10:00	2.00	4.00	Drill - Rotat e	4,331.0	4,773.0	Rotate from 4331' to 4773' (442' drilled @ 221 fph). WOB = 45 klbs, Q = 950 gpm, SPP = 4000 psi, Diff = 900 psi, RPM = 80, Torque = 18 kft-lbs, MM RPM = 171, Total bit RPM = 251.						
Drlg Int 1	Drill	10:00	11:00	1.00	5.00	Drill - Slide	4,773.0	4,815.0	Slide from 4773' to 4815' (42' drilled @ 42 fph). WOB = 30 klbs, Q = 950 gpm, SPP = 3350 psi, Diff = 275 psi, MM RPM = 171, TFO = 225M.						
Drlg Int 1	Drill	11:00	12:00	1.00	6.00	Drill - Rotat e	4,815.0	4,975.0	Rotate from 4815' to 4975' (160' drilled @ 160 fph). WOB = 45 klbs, Q = 950 gpm, SPP = 3800 psi, Diff = 700 psi, RPM = 80, Torque = 14 kft-lbs, MM RPM = 171, Total bit RPM = 251.						
Drlg Int 1	Drill	12:00	13:00	1.00	7.00	Drill - Slide	4,975.0	5,025.0	Slide from 4975' to 5025' (50' drilled @ 50 fph). WOB = 30 klbs, Q = 950 gpm, SPP = 3150 psi, Diff = 300 psi, MM RPM = 171, TFO = 220M.						
Drlg Int 1	Drill	13:00	21:00	8.00	15.00	Drill - Rotat e	5,025.0	6,900.0	Rotate from 5025' to 6900' (1875' drilled @ 234.4 fph). WOB = 45 klbs, Q = 750 gpm, SPP = 3200 psi, Diff = 800 psi, RPM = 80, Torque = 16 kft-lbs, MM RPM = 135, Total bit RPM = 215.						
Drlg Int 1	Drill	21:00	22:00	1.00	16.00	Drill - Slide	6,900.0	6,960.0	Slide from 6900' to 6960' (60' drilled @ 60 fph). WOB = 30 klbs, Q = 950 gpm, SPP = 3150 psi, Diff = 300 psi, MM RPM = 171, TFO = 40M.						
Drlg Int 1	Drill	22:00	00:00	2.00	18.00	Drill - Rotat e	6,960.0	7,177.0	Rotate from 6960' to 7177' (217' drilled @ 108.5 fph). WOB = 45 klbs, Q = 750 gpm, SPP = 3200 psi, Diff = 800 psi, RPM = 70, Torque = 16 kft-lbs, MM RPM = 135, Total bit RPM = 205.						
Flat Int 1	Cond Trip	00:00	01:30	1.50	19.50	Circ & Cond Mud	7,177.0	7,177.0	Circ (2) Hi Vis Sweeps						
Flat Int 1	Cond Trip	01:30	02:00	0.50	20.00	Trip	7,177.0	7,177.0	Tooh F/7177' - 5370'						
Flat Int 1	Cond Trip	02:00	02:30	0.50	20.50	Rig Servi ce	7,177.0	7,177.0	Replace Lower ST80 Die Carrier						
Flat Int 1	Cond Trip	02:30	05:30	3.00	23.50	Trip	7,177.0	7,177.0	Tooh F/5370' - 139' (use rig tongs F/3739' - 139')						
Flat Int 1	Cond Trip	05:30	06:00	0.50	24.00	Handl e Tools	7,177.0	7,177.0	L/D Intermediate Bha						

-- DRILL BITS -- (BHA #2 SUMMARY) Intermediate												
Bit Run	Type	Size (in)	Make	Model	SN	Bit TFA...	Depth In...	Depth O...	Drilled (ft)	Drill Tim...	Avg RO...	IADC Bit Dull Out
2	PDC	11	Ulterra	WAV616	67419		1,874.0	7,177.0	5,303.0	27.50	192.8	-----

-- BHA --														
Jts	Item Des	Grade	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Mass/Len (lb/ft)	Wt (lbf)	Top Thread	Icon	Connections	Gauge (in)	Drift (in)	
198	Drill Pipe	S135	5 1/2	3.0	6,230.00	7,177.99	19.20	119,616.0	PTech 55	Drill pipe	5 1/2 PTech 55 x 5 1/2 PTech 55			
1	XO Sub		6 1/2	3.0	1.65	947.99			PTech 55	XO	5 1/2 PTech 55 x 4 1/2 IF			
9	HWDP		5	3.0	270.80	946.34	49.30	13,350.4	IF	Drill pipe - heavyweight	4 1/2 IF x 4 1/2 IF			
9	Drill Collar		6 3/4	2.875	269.34	675.54	97.44	26,244.5	IF	Drill Collar	4 1/2 IF x 4 1/2 IF			
1	XO Sub		8	3.0	2.91	406.20			IF	XO	4 1/2 IF x 6 5/8 Reg			
9	Drill Collar		6 3/4	2.875	263.73	403.29	146.49	38,633.8	Reg	Drill Collar	6 5/8 Reg x 6 5/8 Reg			







Daily Drilling (Partner)

Well Name: HILLTOP 37C 3HC

Report #: 11.0, DFS: 2.42

Report Start Date: 5/30/2023 06:00

Report End Date: 5/31/2023 06:00

Depth Progress: 0.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ftKB) 7,177.0		Total Depth (TVD) (ftKB) Original Hole - 7,141.2			Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- RIG --														
Contractor H&P			Rig Number 540			Rig Type Triple - Diesel			Max Hook Load (1000lbf) 750			Max Torque (ft*lb) 53,000		
AFE Number 23213342D			Job AFE Amt (Cost) \$3,535,700			Total AFE Supplemental Amount (Cost) \$0			Total AFE + Supp Amount (Cost) 3,535,700.00			Total Final Invoice (Cost) \$506,040		

-- OPERATIONS SUMMARY --					
Start Depth (ftKB) 7,177.0	Start Depth (TVD) (ftKB) 7,141.2	Problem Time Hours (hr) 0.00	Percent Problem Time (%) 0.00	Daily Mud Field Est (Cost) \$16,766	Daily Field Est Total (Cost) \$613,800
End Depth (ftKB) 7,177.0	End Depth (TVD) (ftKB) 7,141.2	Cum Problem Time Days (days) 0.583	Cum Percent Problem Time (%) 5.94	Cum Mud Field Est (Cost) \$37,842	Cum Field Est To Date (Cost) \$1,761,143
Target Depth (MD) (ftKB) 19,390.0	Target Formation Middle Spraberry	Hole Condition Good	Weather Clear	Temperature (°F) 68.0	Road Condition Fair
24 Hr Summary					
L/D Bha, Pull Wear Bushing, R/U Casing Equip and CRT, Run 8 5/8" Casing T/7162', R/D Casing Equip, R/U Cement Equip, Circ Csg Cap, Cement 1st Stage, Inflate Packer, Drop Bomb, Wait 25 min, Open DV Tool, Cement 2nd Stage, R/D Cement Equip, Wash Thru Bop, L/D Landing Jt, C/O Bails and Elevators, Set Pack Off Assy, Install Wear Bushing, P/U Vertical Bha, Tih to 4936', Test 5 min Above DV, Drill DV Tool.					
AM Ops Drill DV Tool			Ops Forecast Drill DV Tool, Tih, Drill FC and Shoe Track, Drill Vertical as per Plan, Tooh, P/U Curve Bha.		

-- RIG SAFETY PERFORMANCE --														
Days Since Last LTI (days)			Days Since Last Reportable Inc (days)			MACP (psi)			WB Depth @ 6am (ftKB)					
430.00			69.00											

-- MUD CHECKS --														
Date	Type	Sample Source		Depth (ftKB)		Dens (lb/gal)		Vis (s/qt)		PV OR (cP)		YP OR (lb/100ft²)		T Flowline (°F)
5/30/2023 06:00	Brine	Suction		7,177.0		10.20		30		2.0		3.000		
Gel (10s) (lb/100ft²)	Gel (10m) (lb/100ft²)	Gel (30m) (lb/100ft²)		Filtrate (mL/30min)		FC (1/32")		pH		Solids (%)		LGS (%)		T BH (°F)
1.000	1.000	1.000				1		7.5		9.0		1.3		
H2O (%)	Oil (%)	MBT (lb/bbl)		Elec Stab (V)		Ca (mg/L)		Pot (mg/L)		Chlor (mg/L)		Vis 6rpm		Lime (lb/bbl)
91.0										155,000.000		2		

-- INTERVAL PROBLEMS (NPT) --														
Problem Type	Problem Subtype	Dur (Net) (hr)		Start Date		End Date		Start Depth (... End Depth (f...		Description		Ref #		

-- TIMELOG --														
Phase	Task	Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Start Depth (ftKB)	End Depth (ftKB)	Com				Prob Ref #	
Flat Int 1	Cond Trip	06:00	06:30	0.50	0.50	Handle Tools	7,177.0	7,177.0	Pull MWD, rack back NMDC's, L/D Stab, break and L/D bit and motor.					
Flat Int 1	Cond Trip	06:30	07:00	0.50	1.00	Other	7,177.0	7,177.0	Pull wear bushing.					
Flat Int 1	Case & Cement	07:00	08:30	1.50	2.50	Other	7,177.0	7,177.0	Held PJSM, Rig up casing equipment.					
Flat Int 1	Case & Cement	08:30	10:30	2.00	4.50	Run Casin g	7,177.0	7,177.0	Held PJSM makeup shoe track and test same, run casing to 1400'.					
Flat Int 1	Case & Cement	10:30	11:00	0.50	5.00	Rig Service	7,177.0	7,177.0	Rig service. Troubleshoot top drive and repair 2 wires so CRT will engage.					
Flat Int 1	Case & Cement	11:00	16:00	5.00	10.00	Run Casin g	7,177.0	7,177.0	Run casing F/1400' to T/7162'.					
Flat Int 1	Case & Cement	16:00	16:30	0.50	10.50	Rig Down / Up	7,177.0	7,177.0	R/D casing equipment.					
Flat Int 1	Case & Cement	16:30	17:00	0.50	11.00	Circ & Cond Mud	7,177.0	7,177.0	Rig up cement head.					
Flat Int 1	Case & Cement	17:00	18:00	1.00	12.00	Circ & Cond Mud	7,177.0	7,177.0	Circulate casing capacity.					
Flat Int 1	Case & Cement	18:00	20:30	2.50	14.50	Cmnt Casin g	7,177.0	7,177.0	Stage 1 Cement: Pressure Test Lines T/4,500 psi. Pump 40 bbls Viscous water Spacer, TXI Lead 138 bbls (283 sks), Class C Tail 34 bbls (166 sks). Drop Plug, Displace with 430 bbls Freshwater, Bumped 5-30-23 @ 20:42, FCP: 1220 psi, Test 500 Over T/1,800 psi, Bled Back 3 bbls, Floats Held, 50 bbls Cement T/Surface.					
Flat Int 1	Case & Cement	20:30	21:30	1.00	15.50	Cmnt Casin g	7,177.0	7,177.0	Set Packer with 2600 psi, (Took 0.25 bbl), Drop DV Bomb & Wait 25 mins, Open DV Tool with 877 psi.,					
Flat Int 1	Case & Cement	21:30	00:00	2.50	18.00	Cmnt Casin g	7,177.0	7,177.0	Cement Stage 2: 40 bbls Freshwater, TXI Lead 403 bbls (844 sks), Tail Class C 29 bbls (124 sks), Displace with 300 bbls Freshwater, Bumped 5-31-23 @ 00:05, FCP: 870 psi., Test 1,500 psi Over T/2120 psi, Bled Back 2.5 bbls, Floats Held, Full Return's While Pumping Cement, No Cement T/Surface.					
Flat Int 1	Case & Cement	00:00	00:30	0.50	18.50	Rig Down / Up	7,177.0	7,177.0	R/D Cement Equip					
Flat Int 1	Case & Cement	00:30	01:00	0.50	19.00	Other	7,177.0	7,177.0	Washing Down BOPE With Sugar Water, L/D Landing Jt, Casing Elevators and Bail Extensions, R/U Rig Elevators					
Flat Int 1	BOP/WH/ Drillout	01:00	02:00	1.00	20.00	Wellhead	7,177.0	7,177.0	P/U Wash Tool & Wash Wellhead, Install Packoff, Pull Test to 40k, Test T/5,000 psi.					
Flat Int 1	BOP/WH/ Drillout	02:00	02:30	0.50	20.50	Other	7,177.0	7,177.0	Install Wear Bushing					
Flat Int 1	BOP/WH/ Drillout	02:30	03:30	1.00	21.50	Handle Tools	7,177.0	7,177.0	P/U Vertical Bha (Altitude 1.5, Ulterra RPS616)					
Flat Int 1	BOP/WH/ Drillout	03:30	05:30	2.00	23.50	Trip	7,177.0	7,177.0	Tih F/123' - 4936'					
Flat Int 1	BOP/WH/ Drillout	05:30	06:00	0.50	24.00	Drill - Other	7,177.0	7,177.0	Set 40K on Plug, Test Csg 5 min Above DV, Drill DV Tool					



Daily Drilling (Partner)

Well Name: HILLTOP 37C 3HC

Report #: 11.0, DFS: 2.42

Report Start Date: 5/30/2023 06:00

Report End Date: 5/31/2023 06:00

Depth Progress: 0.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366			
Orig KB Elev (ft) 3,030.00		Gr Elev (ft) 3,000.00		KB-Grd (ft) 30.00		Total Depth (MD) (ftKB) 7,177.0		Total Depth (TVD) (ftKB) Original Hole - 7,141.2		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- DRILL BITS -- (BHA #<BHA #?> SUMMARY) <Drill String Name?>

Bit Run	Type	Size (in)	Make	Model	SN	Bit TFA...	Depth In...	Depth O...	Drilled (ft)	Drill Tim...	Avg RO...	IADC Bit Dull Out
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-- BHA --

Jts	Item Des	Grade	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Mass/Len (lb/ft)	Wt (lbf)	Top Thread	Icon	Connections	Gauge (in)	Drift (in)

-- DOWNHOLE SENSORS --

Sensor Type				Sensor-Bit (ft)				Note			

-- KICKS --

Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Class	P SIDP (psi)	P SIC (psi)	Vol Kick (bbl)	Kill Notes

-- MUD ADDITIVES --

Des	Date	Rec	Consumed	Returned	Rec	Consumed	Returned	On Loc
24 Hour Engineering	5/31/2023	1.0	1.0		7.0	7.0	0.0	0.0
Blower	5/31/2023	2.0	2.0		14.0	14.0	0.0	0.0
Bulk Barite	5/31/2023		5.0		21.58	5.0	0.0	16.58
Bulk Gel	5/31/2023		13.03		17.03	17.03	0.0	0.0
Cedar Fiber	5/31/2023		25.0		385.0	49.0	0.0	336.0
Liquid Defoamer	5/31/2023		3.0		24.0	3.0	0.0	21.0
Pac LV	5/31/2023		7.0		70.0	7.0	0.0	63.0
Poly Tech	5/31/2023		15.0		100.0	15.0	0.0	85.0
Retention Bonus	5/31/2023	1.0	1.0		7.0	7.0	0.0	0.0
Soda Ash	5/31/2023		12.0		81.0	35.0	0.0	46.0
Sodium Sulfite	5/31/2023		10.0		89.0	40.0	0.0	49.0
Texzan	5/31/2023		12.0		194.0	12.0	0.0	182.0
Trucking	5/31/2023	3,704.25	3,704.25		7,252.35	7,252.35	0.0	0.0
Zinc Oxide	5/31/2023		5.0		48.0	18.0	0.0	30.0

-- LEASE FLUIDS -- (Water, Mud Cuttings, Sewage, Haul-Off)

Fluid Type	Fluid Sub Type	Source	Vol to Lease (bbl)	Vol from Lease (bbl)	Dest
Fresh Water	Drilling	Ovintiv Permitted Surface Water	1,532.0		

-- JOB SUPPLIES -- (Fuel)

Date	Supply Item Des	Vendor	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned	Cum On Loc	Unit Label	Unit Sz
5/31/2023	Fuel		Diesel Fuel - Rig	7,200.0	914.0		16,900.0	6,151.0	0.0	10,749.0	gal US	
5/31/2023	Fuel		Diesel Fuel - Other		0.0		8,065.0	0.0	0.0	8,065.0	gal US	

-- LOST CIRCULATION --

Start Date	End Date	Ops In Prog	Top (ftKB)	Btm (ftKB)	Q Lost (bbl/hr)	Vol Lost Tot (bbl)	Com

-- SURVEY DATA --

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)
6,807.00	4.60	219.64	6,771.71	565.54	-453.57	-337.81	0.41	-0.40	-1.16
6,902.00	3.90	219.58	6,866.45	572.57	-458.99	-342.30	0.74	-0.74	-0.06
6,998.00	2.40	228.22	6,962.30	577.81	-462.85	-345.88	1.63	-1.56	9.00
7,093.00	2.32	226.11	7,057.22	581.65	-465.51	-348.75	0.12	-0.08	-2.22
7,177.00	2.32	226.11	7,141.15	585.01	-467.87	-351.20	0.00	0.00	0.00

-- FORMATION TOPS --

Wellbore Name	CWS Borehole ID	Formation Name	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)

-- WELLBORE SECTIONS --

Section Des	Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Section Spud Date	Section TD Date
Conductor	30	30.0	70.0	4/10/2023	4/10/2023
Surface	16	70.0	1,874.0	4/14/2023	4/16/2023
Intermediate	11	1,874.0	7,177.0	5/28/2023	5/30/2023
Production	7 7/8	7,177.0			

-- LAST CASING RUN --

Csg Des	Run Date	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread
Intermediate 1	5/30/2023 08:30	7,162.0	8 5/8	32.00	HC L-80	GBCD

-- LOT & FIT TEST --

Test Type	Test Date	Last Casing String Run	Formation Tested	Le...	Fluid Type	Dens Fl...	Vol Pum...	Comment
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-- SHAKER SCREENS --

Deck Number	Screen Number	Screen Size X	Start Date	End Date	Drilling Time (hr)
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-- BOP --

Start Date	End Date	Description	P Range (psi)	Nom ID (in)	Class	Service	Last Cert Date	Height (ft)	Clear (ft)
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-- BOP COMPONENTS --

Type Annular-nonrotating	Make Cameron	Serial Number	P Range (psi) 5,000.0	Nominal ID (in) 13 5/8	Body Type
Type Pipe ram-fixed bore	Make Cameron	Serial Number	P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type
Type Blind ram	Make Cameron	Serial Number	P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type
Type Spool	Make Cameron	Serial Number	P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type





Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 11.0, DFS: 2.42  
Report Start Date: 5/30/2023 06:00  
Report End Date: 5/31/2023 06:00  
Depth Progress: 0.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ftKB) 7,177.0	Total Depth (TVD) (ftKB) Original Hole - 7,141.2			Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date		

-- BOP COMPONENTS --

Type Pipe ram-var. bore	Make Cameron			Serial Number			P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type	
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-- SAFETY CHECK SUMMARY -- (Safety Meeting, JSA, Haz ID)

Date	Type	Tour	Des	Com
5/30/2023 06:00	Safety Meeting/JSA	Day	Pre Tour	Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygiene, Forklift Operation's, Man Lift Operation's, Pinch Points, Wet/Muddy Conditions, Housekeeping, Running Casing
5/30/2023 18:00	Safety Meeting/JSA	Night	Pre Tour	Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygiene, Forklift Operation's, Man Lift Operation's, Pinch Points, Working Together, Housekeeping, Running Casing and Cementing, Tripping

-- SAFETY INCIDENTS --

Date	Type	IMS Plus Incident #

-- MUD PUMPS --

Pump #	Start Date	End Date	Make	Model	Pwr (hp)	Stroke (in)	Rod Dia (in)
1	5/24/2023		Gardner-Denver	PZ-11		10.98	6
2	5/24/2023		Gardner-Denver	PZ-11		10.98	6
3	5/24/2023		Gardner-Denver	PZ-11		10.98	6

-- PUMP OPERATIONS --

Pump #	Start Date	End Date	Liner Size (in)	P Max (psi)	Vol/Stk OR (bbl/stk)
1	5/24/2023 00:00		5 1/2	6,300.0	0.077
2	5/24/2023 00:00		5 1/2	6,300.0	0.077
3	5/24/2023 00:00		5 1/2	6,300.0	0.077

-- SLOW PUMP RATES --

Pump #	Date	Depth (ftKB)	Strokes (spm)	Q Flow (gpm)	P (psi)	Eff (%)

-- WELLHEADS --

Type	Make	Working Pressure (psi)	Max Pres (psi)	Size (in)	Start Date
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-- PERSONNEL LOG --

Type	Company	Count
Contractor	Helmerich & Payne International Drlg Co	12
Contractor	Genesis Fluids, LLC	1
Contractor	Gordon Technologies, LLC	1
Contractor	Cathedral Energy Services, Inc.	2

-- REMARKS --

Remarks Well Control: *Last BOP Drill: 5-19-23 Days 51 sec, Nights 50 sec. *Last Trip Drill: 5-21-23 *Annular Element: 10-3-2022 *Lower Variable Rams: 5-20-2022 *Upper Fixed Rams 5.5": 2-3-23 *Surface Casing Tested to 1500 psi for 30 minutes on 4-29-23 *Inter. Csg Tested to 1500 psi for 30 mins on 5-31-23 *Last BOP Test: 5-28-23 *Next BOP Test: 6-18-23  *15 Jts 5" HWDP on Location. *2 Jts 4 ½ IF DP on Location *15 Jts 6 ¾" Rental DC on Location. 4 ½ *9 Jts 8" Rental DC on Location. 6 5/8 Reg *700 Jts 5.5" Rental DP on Location (PTech55)
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Daily Drilling (Partner)

Well Name: HILLTOP 37C 3HC

Report #: 12.0, DFS: 3.42

Report Start Date: 5/31/2023 06:00

Report End Date: 6/1/2023 06:00

Depth Progress: 2,129.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ftKB) 7,177.0		Total Depth (TVD) (ftKB) Original Hole - 7,141.2			Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- RIG --														
Contractor H&P			Rig Number 540			Rig Type Triple - Diesel			Max Hook Load (1000lbf) 750			Max Torque (ft*lb) 53,000		
AFE Number 23213342D			Job AFE Amt (Cost) \$3,535,700			Total AFE Supplemental Amount (Cost) \$0			Total AFE + Supp Amount (Cost) 3,535,700.00			Total Final Invoice (Cost) \$503,933		

-- OPERATIONS SUMMARY --					
Start Depth (ftKB) 7,177.0	Start Depth (TVD) (ftKB) 7,141.2	Problem Time Hours (hr) 0.00	Percent Problem Time (%) 0.00	Daily Mud Field Est (Cost) \$11,055	Daily Field Est Total (Cost) \$82,300
End Depth (ftKB) 9,306.0	End Depth (TVD) (ftKB) 9,023.4	Cum Problem Time Days (days) 0.583	Cum Percent Problem Time (%) 5.39	Cum Mud Field Est (Cost) \$48,897	Cum Field Est To Date (Cost) \$1,842,343
Target Depth (MD) (ftKB) 19,390.0	Target Formation Middle Spraberry	Hole Condition Good	Weather Partly Cloudy	Temperature (°F) 68.0	Road Condition Fair
24 Hr Summary Drill DV Tool, Test Casing, TIH T/6,340', P/U Pipe T/7,070', Drill Shoe Track, Rathole, Drilled from 7177' to 8559' (1382' drilled in 5 hrs @ avg ROP of 276.4 fph). Rotate 1367' in 4.5 hrs @ 303.8 fph. Slide 15' in 0.5 hrs @ 30 fph., Pump Sweep and Circ. Hole Clean, TOO, L/D BHA, P/U Curve BHA, Rig Service, TIH T/8,559', Drilled from 8559' to 9306' (747' drilled in 8.5 hrs @ avg ROP of 87.9 fph). Rotate 168' in 1.5 hrs @ 112 fph. Slide 579' in 7 hrs @ 82.7 fph., Last Survey @ 9082 Inc-66.67 Az-349.87, Above-21.4, Right-7					
AM Ops Drilling Curve @ 9,306'			Ops Forecast Drill Curve, Circ. Hole Clean, TOO, L/D Curve Assembly, P/U Lateral Assembly, TIH, Drill Lateral As Per Plan		

-- RIG SAFETY PERFORMANCE --														
Days Since Last LTI (days)			Days Since Last Reportable Inc (days)			MACP (psi)			WB Depth @ 6am (ftKB)					
431.00			70.00											

-- MUD CHECKS --								
Date	Type	Sample Source	Depth (ftKB)	Dens (lb/gal)	Vis (s/qt)	PV OR (cP)	YP OR (lb/100ft²)	T Flowline (°F)
5/31/2023 06:00	GenMud	Suction	8,559.0	8.50	33	4.0	8.000	
Gel (10s) (lb/100ft²)	Gel (10m) (lb/100ft²)	Gel (30m) (lb/100ft²)	Filtrate (mL/30min)	FC (1/32")	pH	Solids (%)	LGS (%)	T BH (°F)
2.000	2.000	3.000	11.6	1	8.5	4.0	4.3	
H2O (%)	Oil (%)	MBT (lb/bbl)	Elec Stab (V)	Ca (mg/L)	Pot (mg/L)	Chlor (mg/L)	Vis 6rpm	Lime (lb/bbl)
96.0						13,000.000	2	

-- INTERVAL PROBLEMS (NPT) --								
Problem Type	Problem Subtype	Dur (Net) (hr)	Start Date	End Date	Start Depth (...)	End Depth (f...	Description	Ref #

-- TIMELOG --														
Phase	Task	Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Start Depth (ftKB)	End Depth (ftKB)	Com					Prob Ref #
Flat Int 1	BOP/WH/ Drillout	06:00	07:00	1.00	1.00	Drill - Other	7,177.0	7,177.0	Drill DV Tool					
Flat Int 1	BOP/WH/ Drillout	07:00	07:30	0.50	1.50	Other	7,177.0	7,177.0	Test Casing T/1,500 psi					
Flat Int 1	BOP/WH/ Drillout	07:30	08:00	0.50	2.00	Trip	7,177.0	7,177.0	TIH T/6,340'					
Flat Int 1	BOP/WH/ Drillout	08:00	08:30	0.50	2.50	Pipe Down / Up	7,177.0	7,177.0	P/U Pipe F/6,340'-T/7,070'					
Flat Int 1	BOP/WH/ Drillout	08:30	09:00	0.50	3.00	Drill - Other	7,177.0	7,177.0	Drill Shoe Track, Rathole and Displace T/Evo					
Drlg Int 1	Drill	09:00	09:30	0.50	3.50	Drill - Rotat e	7,177.0	7,295.0	Rotate from 7177' to 7295' (118' drilled @ 236 fph). WOB = 45 klbs, Q = 600 gpm, SPP = 3200 psi, Diff = 1200 psi, RPM = 80, Torque = 16 kft-lbs, MM RPM = 168, Total bit RPM = 248.					
Drlg Int 1	Drill	09:30	10:00	0.50	4.00	Drill - Slide	7,295.0	7,310.0	Slide from 7295' to 7310' (15' drilled @ 30 fph). WOB = 18 klbs, Q = 600 gpm, SPP = 3250 psi, Diff = 250 psi, MM RPM = 168, TFO = 20M.					
Drlg Int 1	Drill	10:00	14:00	4.00	8.00	Drill - Rotat e	7,310.0	8,559.0	Rotate from 7310' to 8559' (1249' drilled @ 312.3 fph). WOB = 45 klbs, Q = 600 gpm, SPP = 3500 psi, Diff = 1400 psi, RPM = 80, Torque = 20 kft-lbs, MM RPM = 168, Total bit RPM = 248.					
Flat Prod	Cond Trip	14:00	14:30	0.50	8.50	Circ & Cond Mud	8,559.0	8,559.0	Pump Sweep and Circ. Hole Clean					
Flat Prod	Cond Trip	14:30	17:00	2.50	11.00	Trip	8,559.0	8,559.0	TOOH F/8,559'-T/BHA					
Flat Prod	Cond Trip	17:00	17:30	0.50	11.50	Handle Tools	8,559.0	8,559.0	L/D Vertical BHA					
Flat Prod	Cond Trip	17:30	18:00	0.50	12.00	Handle Tools	8,559.0	8,559.0	P/U Curve BHA					
Flat Prod	Cond Trip	18:00	18:30	0.50	12.50	Rig Service	8,559.0	8,559.0	Rig Service					
Flat Prod	Cond Trip	18:30	21:30	3.00	15.50	Trip	8,559.0	8,559.0	TIH T/8,559'					
Drlg Prod	Drill Curve	21:30	00:30	3.00	18.50	Drill - Slide	8,559.0	8,752.0	Slide from 8559' to 8752' (193' drilled @ 64.3 fph). WOB = 45 klbs, Q = 550 gpm, SPP = 2650 psi, Diff = 450 psi, MM RPM = 165, TFO = 345M.					
Drlg Prod	Drill Curve	00:30	01:00	0.50	19.00	Drill - Rotat e	8,752.0	8,793.0	Rotate from 8752' to 8793' (41' drilled @ 82 fph). WOB = 32 klbs, Q = 550 gpm, SPP = 2600 psi, Diff = 600 psi, RPM = 25, Torque = 12 kft-lbs, MM RPM = 165, Total bit RPM = 190.					
Drlg Prod	Drill Curve	01:00	02:00	1.00	20.00	Drill - Slide	8,793.0	8,914.0	Slide from 8793' to 8914' (121' drilled @ 121 fph). WOB = 65 klbs, Q = 550 gpm, SPP = 2650 psi, Diff = 450 psi, MM RPM = 165, TFO = 30R.					
Drlg Prod	Drill Curve	02:00	02:30	0.50	20.50	Drill - Rotat e	8,914.0	8,945.0	Rotate from 8914' to 8945' (31' drilled @ 62 fph). WOB = 35 klbs, Q = 550 gpm, SPP = 2600 psi, Diff = 600 psi, RPM = 25, Torque = 12 kft-lbs, MM RPM = 165, Total bit RPM = 190.					
Drlg Prod	Drill Curve	02:30	04:30	2.00	22.50	Drill - Slide	8,945.0	9,135.0	Slide from 8945' to 9135' (190' drilled @ 95 fph). WOB = 65 klbs, Q = 550 gpm, SPP = 2650 psi, Diff = 450 psi, MM RPM = 165, TFO = 20L.					
Drlg Prod	Drill Curve	04:30	05:00	0.50	23.00	Drill - Rotat e	9,135.0	9,231.0	Rotate from 9135' to 9231' (96' drilled @ 192 fph). WOB = 40 klbs, Q = 550 gpm, SPP = 2800 psi, Diff = 700 psi, RPM = 25, Torque = 16 kft-lbs, MM RPM = 165, Total bit RPM = 190.					



Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 12.0, DFS: 3.42  
Report Start Date: 5/31/2023 06:00  
Report End Date: 6/1/2023 06:00  
Depth Progress: 2,129.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366			
Orig KB Elev (ft) 3,030.00		Gr Elev (ft) 3,000.00		KB-Grd (ft) 30.00		Total Depth (MD) (ftKB) 7,177.0		Total Depth (TVD) (ftKB) Original Hole - 7,141.2		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- TIMELOG --

Phase	Task	Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Start Depth (ftKB)	End Depth (ftKB)	Com								Prob Ref #
Drig Prod	Drill Curve	05:00	06:00	1.00	24.00	Drill - Slide	9,231.0	9,306.0	Slide from 9231' to 9306' (75' drilled @ 75 fph). WOB = 65 klbs, Q = 550 gpm, SPP = 2650 psi, Diff = 450 psi, MM RPM = 165, TFO = HS.								

-- DRILL BITS -- (BHA #4 SUMMARY) Curve

Bit Run	Type	Size (in)	Make	Model	SN	Bit TFA...	Depth In...	Depth O...	Drilled (ft)	Drill Tim...	Avg RO...	IADC Bit Dull Out
4	PDC	7 7/8	Ultrerra	CF611	62159	1.03500000	8,559.0	9,306.0	747.0	8.50	87.9	-----

-- BHA --

Jts	Item Des	Grade	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Mass/Len (lb/ft)	Wt (lbf)	Top Thread	Icon	Connections	Gauge (in)	Drift (in)
215	Drill Pipe	S135	5 1/2	4.25	6,766.7	9,306.00	19.20	129,922.0	P-Tech	Drill pipe	P-Tech x P-Tech		
1	Agitator		6 1/2	3.25	23.10	2,539.23	101.00	2,333.1	P-Tech	Agitator	P-Tech x P-Tech		
75	Drill Pipe	S135	5 1/2	4.25	2,391.55	2,516.13	19.20	45,917.8	P-Tech	Drill pipe	P-Tech x P-Tech		
1	XO Sub		6 1/2	3.0	1.65	124.58			P-Tech	XO	P-Tech x 4 1/2 IF		
1	NMDC		6 1/2	3.25	30.77	122.93	88.70	2,729.3	IF	Drill collar - non mag	4 1/2 IF x 4 1/2 IF		
1	NMDC		6 1/2	3.25	29.85	92.16	88.70	2,647.7	IF	Drill collar - non mag	4 1/2 IF x 4 1/2 IF		
1	NMDC		6 1/2	3.25	29.18	62.31	88.70	2,588.3	IF	Drill collar - non mag	4 1/2 IF x 4 1/2 IF		
1	UBHO		6 1/2	3.5	2.60	33.13			IF	Drill Collar	4 1/2 IF x 4 1/2 IF		
1	7/8:L 6.4:S @.28		6 9/16		29.53	30.53			IF	Motor 2	4 1/2 IF x 4 1/2 Reg		

-- DOWNHOLE SENSORS --

Sensor Type	Sensor-Bit (ft)	Note

-- DRILL BITS -- (BHA #3 SUMMARY) Vertical

Bit Run	Type	Size (in)	Make	Model	SN	Bit TFA...	Depth In...	Depth O...	Drilled (ft)	Drill Tim...	Avg RO...	IADC Bit Dull Out
3	PDC	7 7/8	Ultrerra	RPS616	56391		7,177.0	8,559.0	1,382.0	5.00	276.4	-----

-- BHA --

Jts	Item Des	Grade	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Mass/Len (lb/ft)	Wt (lbf)	Top Thread	Icon	Connections	Gauge (in)	Drift (in)
268	Drill Pipe	S135	5 1/2	3.0	8,434.35	8,559.00	19.20	161,939.5	P-Tech	Drill pipe	P-Tech x P-Tech		
1	XO Sub		6 1/2	3.0	1.65	124.65			P-Tech	XO	P-Tech x 4 1/2 IF		
1	NMDC		6.6	3.25	30.77	123.00	88.70	2,729.3	IF	Drill collar - non mag	4 1/2 IF x 4 1/2 IF		
1	NMDC		6 1/2	3.25	29.85	92.23	88.70	2,647.7	IF	Drill collar - non mag	4 1/2 IF x 4 1/2 IF		
1	NMDC		6.6	3.25	29.18	62.38	88.70	2,588.3	IF	Drill collar - non mag	4 1/2 IF x 4 1/2 IF		
1	UBHO		6 1/2	3.25	2.60	33.20			IF	Drill Collar	4 1/2 IF x 4 1/2 IF		
1	7/8:L 6.0:S @.288		6 3/4		29.60	30.60			IF	Motor 2	4 1/2 IF x 4 1/2 Reg		

-- DOWNHOLE SENSORS --

Sensor Type	Sensor-Bit (ft)	Note
Gamma	38.50	
Directional	52.00	

-- KICKS --

Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Class	P SIDP (psi)	P SIC (psi)	Vol Kick (bbl)	Kill Notes

-- MUD ADDITIVES --

Des	Date	Rec	Consumed	Returned	Rec	Consumed	Returned	On Loc
24 Hour Engineering	6/1/2023	1.0	1.0		8.0	8.0	0.0	0.0
Blower	6/1/2023	2.0	2.0		16.0	16.0	0.0	0.0
Bulk Barite	6/1/2023	21.48	4.0		43.06	9.0	0.0	34.06
Cedar Fiber	6/1/2023		16.0		385.0	65.0	0.0	320.0
Liquid Defoamer	6/1/2023		1.0		24.0	4.0	0.0	20.0
Myacide	6/1/2023		1.0		23.0	1.0	0.0	22.0
Pac LV	6/1/2023		14.0		70.0	21.0	0.0	49.0
Poly Tech	6/1/2023		14.0		100.0	29.0	0.0	71.0
Poly Vis	6/1/2023		1.0		21.0	1.0	0.0	20.0
Retention Bonus	6/1/2023	1.0	1.0		8.0	8.0	0.0	0.0
Soda Ash	6/1/2023		6.0		81.0	41.0	0.0	40.0
Sodium Sulfite	6/1/2023				89.0	40.0	0.0	49.0
Texzan	6/1/2023		15.0		194.0	27.0	0.0	167.0
Trucking	6/1/2023	1,072.05	1,072.05		8,324.4	8,324.4	0.0	0.0

-- LEASE FLUIDS -- (Water, Mud Cuttings, Sewage, Haul-Off)

Fluid Type	Fluid Sub Type	Source	Vol to Lease (bbl)	Vol from Lease (bbl)	Dest
Fresh Water	Drilling	Ovintiv Permitted Surface Water	3,395.0		

-- JOB SUPPLIES -- (Fuel)

Date	Supply Item Des	Vendor	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned	Cum On Loc	Unit Label	Unit Sz
6/1/2023	Fuel		Diesel Fuel - Rig		1,677.0		16,900.0	7,828.0	0.0	9,072.0	gal US	

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Report Printed: 6/1/2023



Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 12.0, DFS: 3.42  
Report Start Date: 5/31/2023 06:00  
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Depth Progress: 2,129.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366			
Orig KB Elev (ft) 3,030.00		Gr Elev (ft) 3,000.00		KB-Grd (ft) 30.00		Total Depth (MD) (ftKB) 7,177.0		Total Depth (TVD) (ftKB) Original Hole - 7,141.2		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- JOB SUPPLIES -- (Fuel)												
Date	Supply Item Des	Vendor	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned	Cum On Loc	Unit Label	Unit Sz
6/1/2023	Fuel		Diesel Fuel - Other		150.0		8,065.0	150.0	0.0	7,915.0	gal US	

-- LOST CIRCULATION --												
Start Date		End Date		Ops In Prog		Top (ftKB)	Btm (ftKB)	Q Lost (bbl/hr)	Vol Lost Tot (bbl)	Com		

-- SURVEY DATA --										
MD (ftKB)	Incl (°)	Azim (°)		TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)
8,796.00	31.47	345.63		8,744.54	367.59	-403.60	-372.32	7.87	7.70	3.55
8,892.00	43.48	353.37		8,820.63	378.34	-346.27	-382.40	13.42	12.51	8.06
8,987.00	50.53	353.48		8,885.38	387.09	-277.29	-390.34	7.42	7.42	0.12
9,082.00	66.67	349.87		8,934.72	399.93	-197.37	-402.26	17.29	16.99	-3.80
9,306.00	66.67	349.87		9,023.43	438.47	5.11	-438.44	0.00	0.00	0.00

-- FORMATION TOPS --												
Wellbore Name			CWS Borehole ID			Formation Name			Drill Top MD (ftKB)		Drill Top (TVD) (ftKB)	

-- WELLBORE SECTIONS --												
Section Des				Hole Size (in)		Act Top (ftKB)		Act Btm (ftKB)		Section Spud Date		Section TD Date
Conductor				30		30.0		70.0		4/10/2023		4/10/2023
Surface				16		70.0		1,874.0		4/14/2023		4/16/2023
Intermediate				11		1,874.0		7,177.0		5/28/2023		5/30/2023
Production				7 7/8		7,177.0						

-- LAST CASING RUN --												
Csg Des		Run Date		Set Depth (ftKB)		OD (in)		Wt/Len (lb/ft)		Grade		Top Thread
Intermediate 1		5/30/2023 08:30		7,162.0		8 5/8		32.00		HC L-80		GBCD

-- LOT & FIT TEST --												
Test Type		Test Date	Last Casing String Run		Formation Tested		Le...	Fluid Type		Dens Fl...	Vol Pum...	Comment

-- SHAKER SCREENS --												
Deck Number	Screen Number	Screen Size X		Start Date				End Date			Drilling Time (hr)	

-- BOP --												
Start Date	End Date	Description		P Range (psi)	Nom ID (in)	Class		Service		Last Cert Date	Height (ft)	Clear (ft)

-- BOP COMPONENTS --												
Type Annular-nonrotating	Make Cameron			Serial Number			P Range (psi) 5,000.0	Nominal ID (in) 13 5/8	Body Type			
Type Pipe ram-fixed bore	Make Cameron			Serial Number			P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type			
Type Blind ram	Make Cameron			Serial Number			P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type			
Type Spool	Make Cameron			Serial Number			P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type			
Type Pipe ram-var. bore	Make Cameron			Serial Number			P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type			

-- SAFETY CHECK SUMMARY -- (Safety Meeting, JSA, Haz ID)												
Date	Type		Tour	Des		Com						
5/31/2023 06:00	Safety Meeting/JSA		Day	Pre Tour		Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygene, Forklift Operation's, Man Lift Operation's, Pinch Points, Tripping Pipe, Housekeeping						
5/31/2023 18:00	Safety Meeting/JSA		Night	Pre Tour		Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygene, Forklift Operation's, Man Lift Operation's, Pinch Points, Working Together, Tripping Pipe						

-- SAFETY INCIDENTS --												
Date				Type					IMS Plus Incident #			

-- MUD PUMPS --												
Pump #	Start Date		End Date		Make	Model	Pwr (hp)		Stroke (in)		Rod Dia (in)	
1	5/24/2023				Gardner-Denver	PZ-11			10.98		6	
2	5/24/2023				Gardner-Denver	PZ-11			10.98		6	
3	5/24/2023				Gardner-Denver	PZ-11			10.98		6	

-- PUMP OPERATIONS --												
Pump #	Start Date		End Date		Liner Size (in)		P Max (psi)		Vol/Stk OR (bbl/stk)			
1	5/24/2023 00:00				5 1/2		6,300.0		0.077			
2	5/24/2023 00:00				5 1/2		6,300.0		0.077			
3	5/24/2023 00:00				5 1/2		6,300.0		0.077			

-- SLOW PUMP RATES --												
Pump #	Date		Depth (ftKB)		Strokes (spm)		Q Flow (gpm)		P (psi)		Eff (%)	

-- WELLHEADS --												
Type		Make		Working Pressure (psi)		Max Pres (psi)		Size (in)		Start Date		

-- PERSONNEL LOG --												
Type						Company					Count	
Contractor						Helmerich & Payne International Drlg Co					12	
Contractor						Genesis Fluids, LLC					1	
Contractor						Gordon Technologies, LLC					1	







Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 13.0, DFS: 4.40  
Report Start Date: 6/1/2023 06:00  
Report End Date: 6/2/2023 06:00  
Depth Progress: 2,489.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ftKB) 7,177.0		Total Depth (TVD) (ftKB) Original Hole - 7,141.2			Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- RIG --														
Contractor H&P			Rig Number 540			Rig Type Triple - Diesel			Max Hook Load (1000lbf) 750			Max Torque (ft*lb) 53,000		
AFE Number 23213342D			Job AFE Amt (Cost) \$3,535,700			Total AFE Supplemental Amount (Cost) \$0			Total AFE + Supp Amount (Cost) 3,535,700.00			Total Final Invoice (Cost) \$503,933		

-- OPERATIONS SUMMARY --					
Start Depth (ftKB) 9,324.0	Start Depth (TVD) (ftKB) 8,988.3	Problem Time Hours (hr) 0.00	Percent Problem Time (%) 0.00	Daily Mud Field Est (Cost) \$9,383	Daily Field Est Total (Cost) \$112,600
End Depth (ftKB) 11,813.0	End Depth (TVD) (ftKB) 9,008.6	Cum Problem Time Days (days) 0.583	Cum Percent Problem Time (%) 4.95	Cum Mud Field Est (Cost) \$59,427	Cum Field Est To Date (Cost) \$1,956,343
Target Depth (MD) (ftKB) 19,390.0	Target Formation Middle Spraberry	Hole Condition Good	Weather Clear	Temperature (°F) 67.0	Road Condition Fair
24 Hr Summary Circ. Hole Clean, TOOH T/BHA, L/D Curve Assembly, P/U Lateral Assembly, TIH T/7,127', Cut/Slip Drill Line, Rig Service, TIH T/9,324', Drilled from 9306' to 11813' (2507' drilled in 14.5 hrs @ avg ROP of 172.9 fph). Rotate 2331' in 10.5 hrs @ 222 fph. Slide 176' in 4 hrs @ 44 fph. Lateral drilled past 80 deg = 2579'. Lateral remaining = 7577'. Last Survey @ 11567 Inc-90.97, Az-348.10, Above-7.9, Right-13.1					
AM Ops Drilling Lateral @ 11,813'			Ops Forecast Drill Lateral As Per Plan		

-- RIG SAFETY PERFORMANCE --														
Days Since Last LTI (days)			Days Since Last Reportable Inc (days)			MACP (psi)			WB Depth @ 6am (ftKB)					
432.00			71.00											

-- MUD CHECKS --														
Date	Type	Sample Source		Depth (ftKB)		Dens (lb/gal)		Vis (s/qt)		PV OR (cP)		YP OR (lb/100ft²)		T Flowline (°F)
6/1/2023 06:00	GenMud	Suction		9,690.0		8.80		33		5.0		6.000		
Gel (10s) (lb/100ft²)	Gel (10m) (lb/100ft²)	Gel (30m) (lb/100ft²)		Filtrate (mL/30min)		FC (1/32")		pH		Solids (%)		LGS (%)		T BH (°F)
2.000	3.000	3.000		12.4		1		8.5		4.0		3.4		
H2O (%)	Oil (%)	MBT (lb/bbl)		Elec Stab (V)		Ca (mg/L)		Pot (mg/L)		Chlor (mg/L)		Vis 6rpm		Lime (lb/bbl)
96.0										12,000.000		2		

-- INTERVAL PROBLEMS (NPT) --														
Problem Type	Problem Subtype	Dur (Net) (hr)		Start Date		End Date		Start Depth (...)	End Depth (f...	Description				Ref #

-- TIMELOG --														
Phase	Task	Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Start Depth (ftKB)	End Depth (ftKB)	Com					Prob Ref #
Drlg Prod	Cond Trip	06:00	07:00	1.00	1.00	Circ & Cond Mud	9,306.0	9,306.0	Pump Sweep and Circ. Hole Clean					
Drlg Prod	Cond Trip	07:00	10:00	3.00	4.00	Trip	9,306.0	9,306.0	TOOH T/BHA					
Drlg Prod	Cond Trip	10:00	10:30	0.50	4.50	Handle Tools	9,306.0	9,306.0	L/D Curve Assembly					
Drlg Prod	Cond Trip	10:30	11:00	0.50	5.00	Handle Tools	9,306.0	9,306.0	P/U Lateral Assembly					
Drlg Prod	Cond Trip	11:00	13:30	2.50	7.50	Trip	9,306.0	9,306.0	TIH T/7,127'					
Drlg Prod	Cond Trip	13:30	14:30	1.00	8.50	Other	9,306.0	9,306.0	Slip/Cut Drill Line					
Drlg Prod	Cond Trip	14:30	15:00	0.50	9.00	Rig Service	9,306.0	9,306.0	Rig Service					
Drlg Prod	Cond Trip	15:00	15:30	0.50	9.50	Trip	9,306.0	9,306.0	TIH T/9,306'					
Drlg Prod	Drill Hz	15:30	16:30	1.00	10.50	Drill - Rotate	9,306.0	9,445.0	Rotate from 9306' to 9445' (139' drilled @ 139 fph). WOB = 45 klbs, Q = 550 gpm, SPP = 3000 psi, Diff = 1100 psi, RPM = 80, Torque = 24 kft-lbs, MM RPM = 165, Total bit RPM = 245.					
Drlg Prod	Drill Hz	16:30	17:00	0.50	11.00	Drill - Slide	9,445.0	9,473.0	Slide from 9445' to 9473' (28' drilled @ 56 fph). WOB = 42 klbs, Q = 550 gpm, SPP = 2400 psi, Diff = 450 psi, MM RPM = 165, TFO = 120L.					
Drlg Prod	Drill Hz	17:00	17:30	0.50	11.50	Drill - Rotate	9,473.0	9,630.0	Rotate from 9473' to 9630' (157' drilled @ 314 fph). WOB = 45 klbs, Q = 620 gpm, SPP = 3450 psi, Diff = 1050 psi, RPM = 80, Torque = 23 kft-lbs, MM RPM = 186, Total bit RPM = 266.					
Drlg Prod	Drill Hz	17:30	18:00	0.50	12.00	Drill - Slide	9,630.0	9,655.0	Slide from 9630' to 9655' (25' drilled @ 50 fph). WOB = 42 klbs, Q = 620 gpm, SPP = 2800 psi, Diff = 400 psi, MM RPM = 186, TFO = 120L.					
Drlg Prod	Drill Hz	18:00	21:30	3.50	15.50	Drill - Rotate	9,655.0	10,612.0	Rotate from 9655' to 10612' (957' drilled @ 273.4 fph). WOB = 45 klbs, Q = 620 gpm, SPP = 3450 psi, Diff = 1050 psi, RPM = 80, Torque = 23 kft-lbs, MM RPM = 186, Total bit RPM = 266.					
Drlg Prod	Drill Hz	21:30	22:00	0.50	16.00	Drill - Slide	10,612.0	10,645.0	Slide from 10612' to 10645' (33' drilled @ 66 fph). WOB = 45 klbs, Q = 620 gpm, SPP = 2800 psi, Diff = 400 psi, MM RPM = 186, TFO = 30R.					
Drlg Prod	Drill Hz	22:00	23:00	1.00	17.00	Drill - Rotate	10,645.0	10,870.0	Rotate from 10645' to 10870' (225' drilled @ 225 fph). WOB = 45 klbs, Q = 620 gpm, SPP = 3550 psi, Diff = 1150 psi, RPM = 80, Torque = 23 kft-lbs, MM RPM = 186, Total bit RPM = 266.					
Drlg Prod	Drill Hz	23:00	00:00	1.00	18.00	Drill - Slide	10,870.0	10,905.0	Slide from 10870' to 10905' (35' drilled @ 35 fph). WOB = 42 klbs, Q = 620 gpm, SPP = 2800 psi, Diff = 400 psi, MM RPM = 186, TFO = HS.					
Drlg Prod	Drill Hz	00:00	01:00	1.00	19.00	Drill - Rotate	10,905.0	11,055.0	Rotate from 10905' to 11055' (150' drilled @ 150 fph). WOB = 45 klbs, Q = 620 gpm, SPP = 3550 psi, Diff = 1150 psi, RPM = 80, Torque = 23 kft-lbs, MM RPM = 186, Total bit RPM = 266.					
Drlg Prod	Drill Hz	01:00	01:30	0.50	19.50	Drill - Slide	11,055.0	11,080.0	Slide from 11055' to 11080' (25' drilled @ 50 fph). WOB = 56 klbs, Q = 620 gpm, SPP = 2800 psi, Diff = 400 psi, MM RPM = 186, TFO = HS.					
Drlg Prod	Drill Hz	01:30	03:30	2.00	21.50	Drill - Rotate	11,080.0	11,450.0	Rotate from 11080' to 11450' (370' drilled @ 185 fph). WOB = 45 klbs, Q = 620 gpm, SPP = 3650 psi, Diff = 1150 psi, RPM = 80, Torque = 23 kft-lbs, MM RPM = 186, Total bit RPM = 266.					
Drlg Prod	Drill Hz	03:30	04:30	1.00	22.50	Drill - Slide	11,450.0	11,480.0	Slide from 11450' to 11480' (30' drilled @ 30 fph). WOB = 42 klbs, Q = 620 gpm, SPP = 2800 psi, Diff = 400 psi, MM RPM = 186, TFO = 180.					
Drlg Prod	Drill Hz	04:30	06:00	1.50	24.00	Drill - Rotate	11,480.0	11,813.0	Rotate from 11480' to 11813' (333' drilled @ 222 fph). WOB = 45 klbs, Q = 620 gpm, SPP = 3650 psi, Diff = 850 psi, RPM = 80, Torque = 20 kft-lbs, MM RPM = 186, Total bit RPM = 266.					



Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 13.0, DFS: 4.40  
Report Start Date: 6/1/2023 06:00  
Report End Date: 6/2/2023 06:00  
Depth Progress: 2,489.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366			
Orig KB Elev (ft) 3,030.00		Gr Elev (ft) 3,000.00		KB-Grd (ft) 30.00		Total Depth (MD) (ftKB) 7,177.0		Total Depth (TVD) (ftKB) Original Hole - 7,141.2		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- DRILL BITS -- (BHA #5 SUMMARY) Lateral															
Bit Run 5	Type PDC	Size (in) 7 7/8	Make Ulterra			Model SPL616		SN 67656	Bit TFA... 0.9940 0000	Depth In... 9,324.0	Depth O... 11,813. 0	Drilled (ft) 2,489.0	Drill Tim... 14.50	Avg RO... 171.7	IADC Bit Dull Out -----

BHA --

Jts	Item Des	Grade	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Mass/Len (lb/ft)	Wt (lbf)	Top Thread	Icon	Connections	Gauge (in)	Drift (in)
295	Drill Pipe	S135	5 1/2	4.25	9,273.06	11,813.00	19.20	178,042.8	P-Tech	Drill pipe	P-Tech x P-Tech		
1	Agitator		6 1/2	3.25	23.10	2,539.94	101.00	2,333.1	P-Tech	Agitator	P-Tech x P-Tech		
75	Drill Pipe	S135	5 1/2	4.25	2,391.55	2,516.84	19.20	45,917.8	P-Tech	Drill pipe	P-Tech x P-Tech		
1	XO Sub		6 1/2	3.0	1.65	125.29			P-Tech	XO	P-Tech x 4 1/2 IF		
1	NMDC		6 1/2	3.25	30.77	123.64	88.70	2,729.3	IF	Drill collar - non mag	4 1/2 IF x 4 1/2 IF		
1	NMDC		6 1/2	3.25	28.01	92.87	88.70	2,484.5	IF	Drill collar - non mag	4 1/2 IF x 4 1/2 IF		
1	NMDC		6 1/2	3.25	29.18	64.86	88.70	2,588.3	IF	Drill collar - non mag	4 1/2 IF x 4 1/2 IF		
1	UBHO		6 1/2	3.5	2.60	35.68			IF	Drill Collar	4 1/2 IF x 4 1/2 IF		
1	6/7:L 8.4:S @ 0.30		7		32.08	33.08			IF	Motor 2	4 1/2 IF x 4 1/2 Reg		

-- DOWNHOLE SENSORS --															
Sensor Type						Sensor-Bit (ft)						Note			

-- KICKS --															
Kick Date		Kick Depth (ftKB)	Control Date		Control Depth (ftKB)	Class	P SIDP (psi)	P SIC (psi)	Vol Kick (bbl)	Kill Notes					

-- MUD ADDITIVES --									
Des	Date	Rec	Consumed	Returned	Rec	Consumed	Returned	On Loc	
24 Hour Engineering	6/2/2023	1.0	1.0		9.0	9.0	0.0	0.0	
Blower	6/2/2023	2.0	2.0		18.0	18.0	0.0	0.0	
Bulk Barite	6/2/2023		8.06		43.06	17.06	0.0	26.0	
Cedar Fiber	6/2/2023		20.0		385.0	85.0	0.0	300.0	
Myacide	6/2/2023		1.0		23.0	2.0	0.0	21.0	
Pac LV	6/2/2023		14.0		70.0	35.0	0.0	35.0	
Poly Tech	6/2/2023		14.0		100.0	43.0	0.0	57.0	
Poly Vis	6/2/2023		2.0		21.0	3.0	0.0	18.0	
Retention Bonus	6/2/2023	1.0	1.0		9.0	9.0	0.0	0.0	
Soda Ash	6/2/2023		7.0		81.0	48.0	0.0	33.0	
Sodium Sulfite	6/2/2023				89.0	57.0	0.0	32.0	
Texzan	6/2/2023		6.0		194.0	33.0	0.0	161.0	

-- LEASE FLUIDS -- (Water, Mud Cuttings, Sewage, Haul-Off)															
Fluid Type		Fluid Sub Type				Source				Vol to Lease (bbl)	Vol from Lease (bbl)	Dest			
Fresh Water		Drilling				Ovintiv Permitted Surface Water				1,381.0					

-- JOB SUPPLIES -- (Fuel)															
Date	Supply Item Des		Vendor		Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned	Cum On Loc	Unit Label	Unit Sz	
6/2/2023	Fuel				Diesel Fuel - Rig		1,934.0		16,900.0	9,762.0	0.0	7,138.0	gal US		
6/2/2023	Fuel				Diesel Fuel - Other		150.0		8,065.0	300.0	0.0	7,765.0	gal US		

-- LOST CIRCULATION --															
Start Date		End Date		Ops In Prog			Top (ftKB)	Btm (ftKB)	Q Lost (bbl/hr)	Vol Lost Tot (bbl)	Com				

-- SURVEY DATA --

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)
11,280.00	93.01	348.45	9,023.60	2,121.02	1,944.62	-851.35	0.27	0.26	0.08
11,376.00	92.82	348.00	9,018.72	2,215.57	2,038.48	-870.91	0.51	-0.20	-0.47
11,471.00	91.70	348.36	9,014.97	2,309.21	2,131.39	-890.35	1.24	-1.18	0.38
11,567.00	90.97	348.10	9,012.74	2,403.86	2,225.35	-909.93	0.81	-0.76	-0.27
11,813.00	90.97	348.10	9,008.57	2,646.53	2,466.03	-960.65	0.00	0.00	0.00

-- FORMATION TOPS --															
Wellbore Name				CWS Borehole ID				Formation Name				Drill Top MD (ftKB)		Drill Top (TVD) (ftKB)	

-- WELLBORE SECTIONS --					
Section Des	Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Section Spud Date	Section TD Date
Conductor	30	30.0	70.0	4/10/2023	4/10/2023
Surface	16	70.0	1,874.0	4/14/2023	4/16/2023
Intermediate	11	1,874.0	7,177.0	5/28/2023	5/30/2023
Production	7 7/8	7,177.0			



Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 13.0, DFS: 4.40  
Report Start Date: 6/1/2023 06:00  
Report End Date: 6/2/2023 06:00  
Depth Progress: 2,489.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ftKB) 7,177.0	Total Depth (TVD) (ftKB) Original Hole - 7,141.2			Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date		

-- SHAKER SCREENS --

Deck Number	Screen Number	Screen Size X	Start Date			End Date			Drilling Time (hr)	
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-- BOP --

Start Date	End Date	Description	P Range (psi)	Nom ID (in)	Class	Service	Last Cert Date	Height (ft)	Clear (ft)
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-- BOP COMPONENTS --

Type Annular-nonrotating	Make Cameron	Serial Number			P Range (psi) 5,000.0	Nominal ID (in) 13 5/8	Body Type		
Type Pipe ram-fixed bore	Make Cameron	Serial Number			P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type		
Type Blind ram	Make Cameron	Serial Number			P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type		
Type Spool	Make Cameron	Serial Number			P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type		
Type Pipe ram-var. bore	Make Cameron	Serial Number			P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type		

-- SAFETY CHECK SUMMARY -- (Safety Meeting, JSA, Haz ID)

Date	Type	Tour	Des	Com
6/1/2023 06:00	Safety Meeting/JSA	Day	Pre Tour	Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygene, Forklift Operation's, Man Lift Operation's, Pinch Points, Tripping Pipe, Heat Awareness
6/1/2023 18:00	Safety Meeting/JSA	Night	Pre Tour	Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygene, Forklift Operation's, Man Lift Operation's, Pinch Points, Working Together, Heat Awareness

-- SAFETY INCIDENTS --

Date	Type	IMS Plus Incident #

-- MUD PUMPS --

Pump #	Start Date	End Date	Make	Model	Pwr (hp)	Stroke (in)	Rod Dia (in)
1	5/24/2023		Gardner-Denver	PZ-11		10.98	6
2	5/24/2023		Gardner-Denver	PZ-11		10.98	6
3	5/24/2023		Gardner-Denver	PZ-11		10.98	6

-- PUMP OPERATIONS --

Pump #	Start Date	End Date	Liner Size (in)	P Max (psi)	Vol/Stk OR (bbl/stk)
1	5/24/2023 00:00		5 1/2	6,300.0	0.077
2	5/24/2023 00:00		5 1/2	6,300.0	0.077
3	5/24/2023 00:00		5 1/2	6,300.0	0.077

-- SLOW PUMP RATES --

Pump #	Date	Depth (ftKB)	Strokes (spm)	Q Flow (gpm)	P (psi)	Eff (%)

-- WELLHEADS --

Type	Make	Working Pressure (psi)	Max Pres (psi)	Size (in)	Start Date
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-- PERSONNEL LOG --

Type	Company	Count
Contractor	Helmerich & Payne International Drlg Co	12
Contractor	Genesis Fluids, LLC	1
Contractor	Gordon Technologies, LLC	1
Contractor	Cathedral Energy Services, Inc.	2

-- REMARKS --

Remarks  
Well Control:  
\*Last BOP Drill: 5-19-23 Days 51 sec, Nights 50 sec.  
\*Last Trip Drill: 5-21-23  
\*Annular Element: 10-3-2022  
\*Lower Variable Rams: 5-20-2022  
\*Upper Fixed Rams 5.5": 2-3-23  
\*Surface Casing Tested to 1500 psi for 30 minutes on 4-29-23  
\*Inter. Csg Tested to 1500 psi for 30 mins on 5-31-23  
\*Last BOP Test: 5-28-23  
\*Next BOP Test: 6-18-23  
  
\*15 Jts 5" HWDP on Location.  
\*2 Jts 4 ½ IF DP on Location  
\*15 Jts 6 ¾" Rental DC on Location. 4 ½  
\*9 Jts 8" Rental DC on Location. 6 5/8 Reg  
\*700 Jts 5.5" Rental DP on Location (PTech55)



Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 14.0, DFS: 5.40  
Report Start Date: 6/2/2023 06:00  
Report End Date: 6/3/2023 06:00  
Depth Progress: 1,498.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ftKB) 7,177.0		Total Depth (TVD) (ftKB) Original Hole - 7,141.2			Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- RIG --														
Contractor H&P			Rig Number 540			Rig Type Triple - Diesel			Max Hook Load (1000lbf) 750			Max Torque (ft*lb) 53,000		
AFE Number 23213342D			Job AFE Amt (Cost) \$3,535,700			Total AFE Supplemental Amount (Cost) \$0			Total AFE + Supp Amount (Cost) 3,535,700.00			Total Final Invoice (Cost) \$503,933		

-- OPERATIONS SUMMARY --					
Start Depth (ftKB) 11,813.0	Start Depth (TVD) (ftKB) 9,011.4	Problem Time Hours (hr) 12.50	Percent Problem Time (%) 52.08	Daily Mud Field Est (Cost) \$10,393	Daily Field Est Total (Cost) \$83,600
End Depth (ftKB) 13,311.0	End Depth (TVD) (ftKB) 9,036.9	Cum Problem Time Days (days) 1.104	Cum Percent Problem Time (%) 8.63	Cum Mud Field Est (Cost) \$69,820	Cum Field Est To Date (Cost) \$2,044,343
Target Depth (MD) (ftKB) 19,390.0	Target Formation Middle Spraberry	Hole Condition Good	Weather Hail	Temperature (°F) 60.0	Road Condition Fair
24 Hr Summary Drilled from 11813' to 12200' (387' drilled in 2.5 hrs @ avg ROP of 154.8 fph). Rotate 387' in 2.5 hrs @ 154.8 fph. Lateral drilled past 80 deg = 2966'. Lateral remaining = 7190'. Circ. Hole Clean, TOOH,*Bit Failure*, L/D Dir. BHA, P/U New BHA, TIH T/5,880', Wait On Weather, TIH T/12,200', Attempt To C/O IBOP,Drilled from 12200' to 13311' (1111' drilled in 8.5 hrs @ avg ROP of 130.7 fph). Rotate 1015' in 6.5 hrs @ 156.2 fph. Slide 96' in 2 hrs @ 48 fph. Lateral drilled past 80 deg = 4077'. Lateral remaining = 6079'. Last Survey @ 13192 Inc-86.17, Az-347.64, Above-9, Left-29.8					
AM Ops Drilling Lateral @ 13,311'			Ops Forecast Drill Lateral As Per Plan, C/O Lower IBOP		

-- RIG SAFETY PERFORMANCE --														
Days Since Last LTI (days)			Days Since Last Reportable Inc (days)			MACP (psi)			WB Depth @ 6am (ftKB)					
433.00			72.00											

-- MUD CHECKS --														
Date	Type	Sample Source		Depth (ftKB)		Dens (lb/gal)		Vis (s/qt)		PV OR (cP)		YP OR (lbf/100ft²)		T Flowline (°F)
6/2/2023 06:00	GenMud	Suction		12,200.0		8.80		35		7.0		8.000		
Gel (10s) (lbf/100ft²)	Gel (10m) (lbf/100ft²)	Gel (30m) (lbf/100ft²)		Filtrate (mL/30min)		FC (1/32")		pH		Solids (%)		LGS (%)		T BH (°F)
4.000	6.000	6.000		16.6		1		8.5		5.0		4.2		
H2O (%)	Oil (%)	MBT (lb/bbl)		Elec Stab (V)		Ca (mg/L)		Pot (mg/L)		Chlor (mg/L)		Vis 6rpm		Lime (lb/bbl)
95.0										16,000.000		4		

-- INTERVAL PROBLEMS (NPT) --														
Problem Type Bit	Problem Subtype	Dur (Net) (hr) 10.00		Start Date 6/2/2023 08:30		End Date 6/2/2023 18:30		Start Depth (... 12,200.0		End Depth (f... 12,200.0		Description TOOH Due To Low ROP (Bit Failure)		Ref #
Problem Type Rig Repair - Top Drive	Problem Subtype	Dur (Net) (hr) 2.50		Start Date 6/3/2023 01:30		End Date 6/3/2023 04:00		Start Depth (... 13,056.0		End Depth (f... 13,056.0		Description Attempt To C/O Lower IBOP Due To Wash		Ref #

-- TIMELOG --												
Phase	Task	Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Start Depth (ftKB)	End Depth (ftKB)	Com			Prob Ref #
Drlg Prod	Drill Hz	06:00	08:30	2.50	2.50	Drill - Rotat e	11,813.0	12,200.0	Rotate from 11813' to 12200' (387' drilled @ 154.8 fph). WOB = 45 klbs, Q = 620 gpm, SPP = 3500 psi, Diff = 650 psi, RPM = 80, Torque = 22 kft-lbs, MM RPM = 186, Total bit RPM = 266.			
Drlg Prod	Cond Trip	08:30	09:00	0.50	3.00	Circ & Cond Mud	12,200.0	12,200.0	Pump Sweep and Circ. Hole Clean			
Drlg Prod	Cond Trip	09:00	13:00	4.00	7.00	Trip	12,200.0	12,200.0	TOOH F/12,200'-T/125' (Bit Failure)			
Drlg Prod	Cond Trip	13:00	13:30	0.50	7.50	Handl e Tools	12,200.0	12,200.0	L/D BHA			
Drlg Prod	Cond Trip	13:30	14:30	1.00	8.50	Handl e Tools	12,200.0	12,200.0	P/U New BHA and Test Same			
Drlg Prod	Cond Trip	14:30	16:30	2.00	10.50	Trip	12,200.0	12,200.0	TIH T/5,880'			
Drlg Prod	Cond Trip	16:30	17:00	0.50	11.00	Other	12,200.0	12,200.0	Wait On Weather			
Drlg Prod	Cond Trip	17:00	19:00	2.00	13.00	Trip	12,200.0	12,200.0	TIH F/5,800'-T/12,200'			
Drlg Prod	Drill Hz	19:00	00:00	5.00	18.00	Drill - Rotat e	12,200.0	12,975.0	Rotate from 12200' to 12975' (775' drilled @ 155 fph). WOB = 45 klbs, Q = 620 gpm, SPP = 3800 psi, Diff = 950 psi, RPM = 80, Torque = 24 kft-lbs, MM RPM = 198, Total bit RPM = 278.			
Drlg Prod	Drill Hz	00:00	01:00	1.00	19.00	Drill - Slide	12,975.0	13,020.0	Slide from 12975' to 13020' (45' drilled @ 45 fph). WOB = 50 klbs, Q = 620 gpm, SPP = 3500 psi, Diff = 650 psi, MM RPM = 198, TFO = 120R.			
Drlg Prod	Drill Hz	01:00	01:30	0.50	19.50	Drill - Rotat e	13,020.0	13,056.0	Rotate from 13020' to 13056' (36' drilled @ 72 fph). WOB = 45 klbs, Q = 620 gpm, SPP = 3800 psi, Diff = 950 psi, RPM = 80, Torque = 24 kft-lbs, MM RPM = 198, Total bit RPM = 278.			
Drlg Prod	Drill Hz	01:30	02:30	1.00	20.50	Circ & Cond Mud	13,056.0	13,056.0	Circulate Hole Clean Before Changing Lower IBOP On Topdrive			
Drlg Prod	Drill Hz	02:30	04:00	1.50	22.00	Rig Repai r	13,056.0	13,056.0	Attempt to Change Lower IBOP, Hotshot Brought Upper IBOP			
Drlg Prod	Drill Hz	04:00	05:00	1.00	23.00	Drill - Rotat e	13,056.0	13,260.0	Rotate from 13056' to 13260' (204' drilled @ 204 fph). WOB = 45 klbs, Q = 620 gpm, SPP = 3800 psi, Diff = 950 psi, RPM = 80, Torque = 24 kft-lbs, MM RPM = 198, Total bit RPM = 278.			
Drlg Prod	Drill Hz	05:00	06:00	1.00	24.00	Drill - Slide	13,260.0	13,311.0	Slide from 13260' to 13311' (51' drilled @ 51 fph). WOB = 50 klbs, Q = 620 gpm, SPP = 3500 psi, Diff = 650 psi, MM RPM = 198, TFO = 120R.			

-- DRILL BITS -- (BHA #6 SUMMARY) Lateral														
Bit Run 6	Type PDC	Size (in) 7 7/8	Make Ulterra		Model U716M		SN 65178	Bit TFA... 0.9940 0000	Depth In... 12,200. 0	Depth O... 13,311. 0	Drilled (ft) 1,111.0	Drill Tim... 8.50	Avg RO... 130.7	IADC Bit Dull Out -----

-- BHA --														
Jts	Item Des		Grade	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Mass/Len (lb/ft)	Wt (lbf)	Top Thread	Icon	Connections		Gauge (in)
343	Drill Pipe		S135	5 1/2	4.25	10,771.00	13,311.00	19.20	206,803.2	P-Tech	Drill pipe	P-Tech x P-Tech		
1	Agitator			6 1/2	3.25	23.10	2,540.00	101.00	2,333.1	P-Tech	Agitator	P-Tech x P-Tech		
75	Drill Pipe		S135	5 1/2	4.25	2,391.55	2,516.90	19.20	45,917.8	P-Tech	Drill pipe	P-Tech x P-Tech		







Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 14.0, DFS: 5.40  
Report Start Date: 6/2/2023 06:00  
Report End Date: 6/3/2023 06:00  
Depth Progress: 1,498.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366			
Orig KB Elev (ft) 3,030.00		Gr Elev (ft) 3,000.00		KB-Grd (ft) 30.00		Total Depth (MD) (ftKB) 7,177.0		Total Depth (TVD) (ftKB) Original Hole - 7,141.2		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- SURVEY DATA --									
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)
13,311.00	86.17	347.64	9,036.87	4,136.68	3,916.81	-1,330.70	0.00	0.00	0.00

-- FORMATION TOPS --				
Wellbore Name	CWS Borehole ID	Formation Name	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)

-- WELLBORE SECTIONS --					
Section Des	Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Section Spud Date	Section TD Date
Conductor	30	30.0	70.0	4/10/2023	4/10/2023
Surface	16	70.0	1,874.0	4/14/2023	4/16/2023
Intermediate	11	1,874.0	7,177.0	5/28/2023	5/30/2023
Production	7 7/8	7,177.0			

-- LAST CASING RUN --						
Csg Des	Run Date	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread
Intermediate 1	5/30/2023 08:30	7,162.0	8 5/8	32.00	HC L-80	GBCD

-- LOT & FIT TEST --									
Test Type	Test Date	Last Casing String Run	Formation Tested	Le...	Fluid Type	Dens Fl...	Vol Pum...	Comment	

-- SHAKER SCREENS --					
Deck Number	Screen Number	Screen Size X	Start Date	End Date	Drilling Time (hr)

-- BOP --									
Start Date	End Date	Description	P Range (psi)	Nom ID (in)	Class	Service	Last Cert Date	Height (ft)	Clear (ft)

BOP COMPONENTS --					
Type Annular- nonrotating	Make Cameron	Serial Number	P Range (psi) 5,000.0	Nominal ID (in) 13 5/8	Body Type
Type Pipe ram-fixed bore	Make Cameron	Serial Number	P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type
Type Blind ram	Make Cameron	Serial Number	P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type
Type Spool	Make Cameron	Serial Number	P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type
Type Pipe ram-var. bore	Make Cameron	Serial Number	P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type

SAFETY CHECK SUMMARY -- (Safety Meeting, JSA, Haz ID)				
Date	Type	Tour	Des	Com
6/2/2023 06:00	Safety Meeting/JSA	Day	Pre Tour	Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygene, Forklift Operation's, Man Lift Operation's, Pinch Points, Heat Awareness, Bad Weather
6/2/2023 18:00	Safety Meeting/JSA	Night	Pre Tour	Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygene, Forklift Operation's, Man Lift Operation's, Pinch Points, Wet/Muddy Conditions, Bad Weather

-- SAFETY INCIDENTS --		
Date	Type	IMS Plus Incident #

-- MUD PUMPS --

Pump #	Start Date	End Date	Make	Model	Pwr (hp)	Stroke (in)	Rod Dia (in)
1	5/24/2023		Gardner-Denver	PZ-11		10.98	6
2	5/24/2023		Gardner-Denver	PZ-11		10.98	6
3	5/24/2023		Gardner-Denver	PZ-11		10.98	6

-- PUMP OPERATIONS --

Pump #	Start Date	End Date	Liner Size (in)	P Max (psi)	Vol/Stk OR (bbl/stk)
1	5/24/2023 00:00		5 1/2	6,300.0	0.077
2	5/24/2023 00:00		5 1/2	6,300.0	0.077
3	5/24/2023 00:00		5 1/2	6,300.0	0.077

-- SLOW PUMP RATES --						
Pump #	Date	Depth (ftKB)	Strokes (spm)	Q Flow (gpm)	P (psi)	Eff (%)

-- WELLHEADS --					
Type	Make	Working Pressure (psi)	Max Pres (psi)	Size (in)	Start Date

PERSONNEL LOG --		
Type	Company	Count
Contractor	Helmerich & Payne International Drlg Co	12
Contractor	Genesis Fluids, LLC	1
Contractor	Gordon Technologies, LLC	1
Contractor	Cathedral Energy Services, Inc.	2

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Daily Drilling (Partner)

Well Name: HILLTOP 37C 3HC

Report #: 14.0, DFS: 5.40

Report Start Date: 6/2/2023 06:00

Report End Date: 6/3/2023 06:00

Depth Progress: 1,498.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00		Total Depth (MD) (ftKB) 7,177.0		Total Depth (TVD) (ftKB) Original Hole - 7,141.2		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- REMARKS --

Remarks

Well Control:

\*Last BOP Drill: 5-19-23 Days 51 sec, Nights 50 sec.

\*Last Trip Drill: 5-21-23

\*Annular Element: 10-3-2022

\*Lower Variable Rams: 5-20-2022

\*Upper Fixed Rams 5.5": 2-3-23

\*Surface Casing Tested to 1500 psi for 30 minutes on 4-29-23

\*Inter. Csg Tested to 1500 psi for 30 mins on 5-31-23

\*Last BOP Test: 5-28-23

\*Next BOP Test: 6-18-23

\*15 Jts 5" HWDP on Location.

\*2 Jts 4 ½ IF DP on Location

\*15 Jts 6 ¾" Rental DC on Location. 4 ½

\*9 Jts 8" Rental DC on Location. 6 5/8 Reg

\*700 Jts 5.5" Rental DP on Location (PTech55)



Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 15.0, DFS: 6.40  
Report Start Date: 6/3/2023 06:00  
Report End Date: 6/4/2023 06:00  
Depth Progress: 2,709.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ftKB) 7,177.0		Total Depth (TVD) (ftKB) Original Hole - 7,141.2			Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- RIG --														
Contractor H&P			Rig Number 540			Rig Type Triple - Diesel			Max Hook Load (1000lbf) 750			Max Torque (ft*lb) 53,000		
AFE Number 23213342D			Job AFE Amt (Cost) \$3,535,700			Total AFE Supplemental Amount (Cost) \$0			Total AFE + Supp Amount (Cost) 3,535,700.00			Total Final Invoice (Cost) \$503,933		

-- OPERATIONS SUMMARY --					
Start Depth (ftKB) 13,311.0	Start Depth (TVD) (ftKB) 9,037.4	Problem Time Hours (hr) 1.50	Percent Problem Time (%) 6.25	Daily Mud Field Est (Cost) \$16,073	Daily Field Est Total (Cost) \$96,000
End Depth (ftKB) 16,020.0	End Depth (TVD) (ftKB) 9,093.4	Cum Problem Time Days (days) 1.167	Cum Percent Problem Time (%) 8.46	Cum Mud Field Est (Cost) \$85,893	Cum Field Est To Date (Cost) \$2,141,430
Target Depth (MD) (ftKB) 19,390.0	Target Formation Middle Spraberry	Hole Condition Good	Weather Clear	Temperature (°F) 98.0	Road Condition Fair
24 Hr Summary Change Saver Sub and Manual IBOP, Rig Service, Safety Stand Down Over Forklift Safety, Drilled from 13311' to 16020' (2709' drilled in 22 hrs @ avg ROP of 123.1 fph). Rotate 2518' in 17 hrs @ 148.1 fph. Slide 191' in 5 hrs @ 38.2 fph. Lateral drilled past 80 deg = 6786'. Lateral remaining = 3370'. Last Survey @ 15870 Inc-89.20 Az-348.44 Below-6.3 Left-7.2					
AM Ops Drilling Lateral @ 16,020'			Ops Forecast Drill Lateral As Per Plan		

-- RIG SAFETY PERFORMANCE --														
Days Since Last LTI (days)			Days Since Last Reportable Inc (days)			MACP (psi)			WB Depth @ 6am (ftKB)					
434.00			73.00											

-- MUD CHECKS --														
Date	Type	Sample Source		Depth (ftKB)	Dens (lb/gal)	Vis (s/qt)	PV OR (cP)	YP OR (lb/100ft²)	T Flowline (°F)					
6/3/2023 06:00	GenMud	Suction		14,500.0	8.80	32	4.0	5.000						
Gel (10s) (lb/100ft²)	Gel (10m) (lb/100ft²)	Gel (30m) (lb/100ft²)		Filtrate (mL/30min)	FC (1/32")	pH	Solids (%)	LGS (%)	T BH (°F)					
2.000	3.000	3.000		19.4	1	8.3	5.5	4.9						
H2O (%)	Oil (%)	MBT (lb/bbl)		Elec Stab (V)	Ca (mg/L)	Pot (mg/L)	Chlor (mg/L)	Vis 6rpm	Lime (lb/bbl)					
94.0	0.5						14,000.000	2						

-- INTERVAL PROBLEMS (NPT) --														
Problem Type Rig Repair - Top Drive	Problem Subtype	Dur (Net) (hr) 1.00	Start Date 6/3/2023 08:00	End Date 6/3/2023 09:00	Start Depth (... 13,438.0	End Depth (f... 13,438.0	Description C/O Saver Sub and Manual IBOP						Ref #	
Problem Type EHS Incident	Problem Subtype	Dur (Net) (hr) 0.50	Start Date 6/3/2023 17:00	End Date 6/3/2023 17:30	Start Depth (... 14,490.0	End Depth (f... 14,490.0	Description Safety Stand Down On Forklift Running Into Power Lines						Ref #	

-- TIMELOG --														
Phase	Task	Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Start Depth (ftKB)	End Depth (ftKB)	Com				Prob Ref #	
Drlg Prod	Drill Hz	06:00	06:30	0.50	0.50	Drill - Rotat e	13,311.0	13,360.0	Rotate from 13311' to 13360' (49' drilled @ 98 fph). WOB = 45 klbs, Q = 650 gpm, SPP = 3850 psi, Diff = 750 psi, RPM = 80, Torque = 25 kft-lbs, MM RPM = 208, Total bit RPM = 288.					
Drlg Prod	Drill Hz	06:30	07:30	1.00	1.50	Drill - Slide	13,360.0	13,388.0	Slide from 13360' to 13388' (28' drilled @ 28 fph). WOB = 48 klbs, Q = 650 gpm, SPP = 3350 psi, Diff = 250 psi, MM RPM = 208, TFO = HS.					
Drlg Prod	Drill Hz	07:30	08:00	0.50	2.00	Drill - Rotat e	13,388.0	13,438.0	Rotate from 13388' to 13438' (50' drilled @ 100 fph). WOB = 45 klbs, Q = 650 gpm, SPP = 3850 psi, Diff = 750 psi, RPM = 80, Torque = 25 kft-lbs, MM RPM = 208, Total bit RPM = 288.					
Drlg Prod	Drill Hz	08:00	09:00	1.00	3.00	Rig Repai r	13,438.0	13,438.0	Change lower I-BOP & Saver sub, tq & tie wire tq rings.					
Drlg Prod	Drill Hz	09:00	10:30	1.50	4.50	Drill - Rotat e	13,438.0	13,645.0	Rotate from 13438' to 13645' (207' drilled @ 138 fph). WOB = 45 klbs, Q = 650 gpm, SPP = 4150 psi, Diff = 850 psi, RPM = 75, Torque = 29 kft-lbs, MM RPM = 208, Total bit RPM = 283.					
Drlg Prod	Drill Hz	10:30	11:00	0.50	5.00	Drill - Slide	13,645.0	13,673.0	Slide from 13645' to 13673' (28' drilled @ 56 fph). WOB = 50 klbs, Q = 650 gpm, SPP = 3550 psi, Diff = 250 psi, MM RPM = 208, TFO = 50L.					
Drlg Prod	Drill Hz	11:00	13:00	2.00	7.00	Drill - Rotat e	13,673.0	13,930.0	Rotate from 13673' to 13930' (257' drilled @ 128.5 fph). WOB = 45 klbs, Q = 650 gpm, SPP = 4250 psi, Diff = 900 psi, RPM = 80, Torque = 27 kft-lbs, MM RPM = 208, Total bit RPM = 288.					
Drlg Prod	Drill Hz	13:00	13:30	0.50	7.50	Drill - Slide	13,930.0	13,953.0	Slide from 13930' to 13953' (23' drilled @ 46 fph). WOB = 40 klbs, Q = 650 gpm, SPP = 3600 psi, Diff = 250 psi, MM RPM = 208, TFO = 120L.					
Drlg Prod	Drill Hz	13:30	16:00	2.50	10.00	Drill - Rotat e	13,953.0	14,410.0	Rotate from 13953' to 14410' (457' drilled @ 182.8 fph). WOB = 45 klbs, Q = 650 gpm, SPP = 4300 psi, Diff = 900 psi, RPM = 80, Torque = 27 kft-lbs, MM RPM = 208, Total bit RPM = 288.					
Drlg Prod	Drill Hz	16:00	16:30	0.50	10.50	Drill - Slide	14,410.0	14,435.0	Slide from 14410' to 14435' (25' drilled @ 50 fph). WOB = 55 klbs, Q = 650 gpm, SPP = 3650 psi, Diff = 250 psi, MM RPM = 208, TFO = 140R.					
Drlg Prod	Drill Hz	16:30	17:00	0.50	11.00	Drill - Rotat e	14,435.0	14,490.0	Rotate from 14435' to 14490' (55' drilled @ 110 fph). WOB = 45 klbs, Q = 650 gpm, SPP = 4250 psi, Diff = 900 psi, RPM = 80, Torque = 26 kft-lbs, MM RPM = 208, Total bit RPM = 288.					
Drlg Prod	Drill Hz	17:00	17:30	0.50	11.50	Other	14,490.0	14,490.0	Safety Standd Down due to struck powerline with forklift.					
Drlg Prod	Drill Hz	17:30	18:00	0.50	12.00	Rig Servi ce	14,490.0	14,490.0	Rig Service.					
Drlg Prod	Drill Hz	18:00	18:30	0.50	12.50	Drill - Rotat e	14,490.0	14,600.0	Rotate from 14490' to 14600' (110' drilled @ 220 fph). WOB = 45 klbs, Q = 650 gpm, SPP = 4250 psi, Diff = 900 psi, RPM = 80, Torque = 27 kft-lbs, MM RPM = 208, Total bit RPM = 288.					
Drlg Prod	Drill Hz	18:30	19:30	1.00	13.50	Drill - Slide	14,600.0	14,624.0	Slide from 14600' to 14624' (24' drilled @ 24 fph). WOB = 55 klbs, Q = 650 gpm, SPP = 3650 psi, Diff = 250 psi, MM RPM = 208, TFO = 160R.					
Drlg Prod	Drill Hz	19:30	21:00	1.50	15.00	Drill - Rotat e	14,624.0	14,880.0	Rotate from 14624' to 14880' (256' drilled @ 170.7 fph). WOB = 45 klbs, Q = 650 gpm, SPP = 4250 psi, Diff = 900 psi, RPM = 80, Torque = 27 kft-lbs, MM RPM = 208, Total bit RPM = 288.					
Drlg Prod	Drill Hz	21:00	21:30	0.50	15.50	Drill - Slide	14,880.0	14,905.0	Slide from 14880' to 14905' (25' drilled @ 50 fph). WOB = 55 klbs, Q = 650 gpm, SPP = 3650 psi, Diff = 250 psi, MM RPM = 208, TFO = 140R.					
Drlg Prod	Drill Hz	21:30	23:30	2.00	17.50	Drill - Rotat e	14,905.0	15,160.0	Rotate from 14905' to 15160' (255' drilled @ 127.5 fph). WOB = 45 klbs, Q = 650 gpm, SPP = 4250 psi, Diff = 900 psi, RPM = 80, Torque = 27 kft-lbs, MM RPM = 208, Total bit RPM = 288.					



Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 15.0, DFS: 6.40  
Report Start Date: 6/3/2023 06:00  
Report End Date: 6/4/2023 06:00  
Depth Progress: 2,709.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366			
Orig KB Elev (ft) 3,030.00		Gr Elev (ft) 3,000.00		KB-Grd (ft) 30.00		Total Depth (MD) (ftKB) 7,177.0		Total Depth (TVD) (ftKB) Original Hole - 7,141.2		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	
-- TIMELOG --																	
Phase		Task		Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Start Depth (ftKB)	End Depth (ftKB)	Com					Prob Ref #	
Drlg Prod		Drill Hz		23:30	00:00	0.50	18.00	Drill - Slide	15,160.0	15,180.0	Slide from 15160' to 15180' (20' drilled @ 40 fph). WOB = 55 klbs, Q = 650 gpm, SPP = 3650 psi, Diff = 250 psi, MM RPM = 208, TFO = 90R.						
Drlg Prod		Drill Hz		00:00	02:30	2.50	20.50	Drill - Rotat e	15,180.0	15,560.0	Rotate from 15180' to 15560' (380' drilled @ 152 fph). WOB = 45 klbs, Q = 650 gpm, SPP = 4250 psi, Diff = 900 psi, RPM = 80, Torque = 27 kft-lbs, MM RPM = 208, Total bit RPM = 288.						
Drlg Prod		Drill Hz		02:30	03:00	0.50	21.00	Drill - Slide	15,560.0	15,578.0	Slide from 15560' to 15578' (18' drilled @ 36 fph). WOB = 55 klbs, Q = 650 gpm, SPP = 3650 psi, Diff = 250 psi, MM RPM = 208, TFO = C.						
Drlg Prod		Drill Hz		03:00	06:00	3.00	24.00	Drill - Rotat e	15,578.0	16,020.0	Rotate from 15578' to 16020' (442' drilled @ 147.3 fph). WOB = 45 klbs, Q = 650 gpm, SPP = 4000 psi, Diff = 750 psi, RPM = 80, Torque = 25 kft-lbs, MM RPM = 208, Total bit RPM = 288.						
-- DRILL BITS -- (BHA #6 SUMMARY) Lateral																	
Bit Run 6	Type PDC	Size (in) 7 7/8		Make Ulterra			Model U716M		SN 65178	Bit TFA... 0.9940 0000	Depth In... 12,200. 0	Depth O... 16,020. 0	Drilled (ft) 3,820.0	Drill Tim... 30.50	Avg RO... 125.2	IADC Bit Dull Out -----	
-- BHA --																	
Jts	Item Des			Grade	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Mass/Len (lb/ft)	Wt (lb)	Top Thread	Icon	Connections		Gauge (in)	Drift (in)	
429	Drill Pipe			S135	5 1/2	4.25	13,480.00	16,020.00	19.20	258,816.0	P-Tech	Drill pipe	P-Tech x P-Tech				
1	Agitator				6 1/2	3.25	23.10	2,540.00	101.00	2,333.10	P-Tech	Agitator	P-Tech x P-Tech				
75	Drill Pipe			S135	5 1/2	4.25	2,391.55	2,516.90	19.20	45,917.8	P-Tech	Drill pipe	P-Tech x P-Tech				
1	XO Sub				6 1/2	3.0	1.65	125.35			P-Tech	XO	P-Tech x 4 1/2 IF				
1	NMDC				6 1/2	3.25	30.77	123.70	88.70	2,729.3	IF	Drill collar - non mag	4 1/2 IF x 4 1/2 IF				
1	NMDC				6 1/2	3.25	28.01	92.93	88.70	2,484.5	IF	Drill collar - non mag	4 1/2 IF x 4 1/2 IF				
1	NMDC				6 1/2	3.25	29.18	64.92	88.70	2,588.3	IF	Drill collar - non mag	4 1/2 IF x 4 1/2 IF				
1	UBHO				6 1/2	3.5	2.60	35.74			IF	Drill Collar	4 1/2 IF x 4 1/2 IF				
1	6/7:L 8.4:S @ 0.30				7		32.14	33.14			IF	Motor 2	4 1/2 IF x 4 1/2 Reg				
-- DOWNHOLE SENSORS --																	
Sensor Type						Sensor-Bit (ft)						Note					
-- KICKS --																	
Kick Date		Kick Depth (ftKB)	Control Date		Control Depth (ftKB)	Class	P SIDP (psi)	P SIC (psi)	Vol Kick (bbl)	Kill Notes							
-- MUD ADDITIVES --																	
Des				Date		Rec	Consumed	Returned	Rec	Consumed	Returned	On Loc					
24 Hour Engineering				6/4/2023		1.0	1.0		11.0	11.0	0.0	0.0					
Blower				6/4/2023		2.0	2.0		22.0	22.0	0.0	0.0					
Cedar Fiber				6/4/2023		240.0	50.0		625.0	205.0	0.0	420.0					
Clean Lube				6/4/2023		1,060.0	265.0		1,590.0	265.0	0.0	1,325.0					
GenWet				6/4/2023			45.0		265.0	45.0	0.0	220.0					
Myacide				6/4/2023			2.0		23.0	5.0	0.0	18.0					
Pac LV				6/4/2023		80.0	13.0		150.0	62.0	0.0	88.0					
Pallets				6/4/2023		10.0	10.0		23.0	23.0	0.0	0.0					
Poly Tech				6/4/2023		50.0	15.0		150.0	68.0	0.0	82.0					
Poly Vis				6/4/2023		32.0	3.0		53.0	9.0	0.0	44.0					
Retention Bonus				6/4/2023		1.0	1.0		11.0	11.0	0.0	0.0					
Shrinkwrap				6/4/2023		9.0	9.0		22.0	22.0	0.0	0.0					
Soda Ash				6/4/2023			50.0		81.0	111.0	0.0	-30.0					
Sodium Sulfite				6/4/2023		49.0	13.0		138.0	80.0	0.0	58.0					
Texzan				6/4/2023			5.0		194.0	49.0	0.0	145.0					
Trucking				6/4/2023		532.67	532.67		8,857.07	8,857.07	0.0	0.0					
-- LEASE FLUIDS -- (Water, Mud Cuttings, Sewage, Haul-Off)																	
Fluid Type		Fluid Sub Type				Source				Vol to Lease (bbl)	Vol from Lease (bbl)	Dest					
Fresh Water		Drilling				Ovintiv Permitted Surface Water				0.0							
-- JOB SUPPLIES -- (Fuel)																	
Date		Supply Item Des		Vendor		Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned	Cum On Loc	Unit Label	Unit Sz		
6/3/2023		Fuel				Diesel Fuel - Rig	7,209.0	3,158.0		24,109.0	14,846.0	0.0	9,263.0	gal US			
6/4/2023		Fuel				Diesel Fuel - Other		465.0		8,065.0	765.0	0.0	7,300.0	gal US			
-- LOST CIRCULATION --																	
Start Date		End Date		Ops In Prog			Top (ftKB)	Btm (ftKB)	Q Lost (bbl/hr)	Vol Lost Tot (bbl)	Com						
-- SURVEY DATA --																	
MD (ftKB)		Incl (°)		Azim (°)		TVD (ftKB)		VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)		Build (°/100ft)		Turn (°/100ft)		
15,583.00		89.12		349.77		9,084.52		6,396.25	6,135.15	-1,809.22	2.79		2.78		0.24		
15,679.00		88.22		348.77		9,086.75		6,491.80	6,229.45	-1,827.09	1.40		-0.94		-1.04		
15,774.00		88.56		348.59		9,089.42		6,586.44	6,322.56	-1,845.73	0.40		0.36		-0.19		

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Report Printed: 6/4/2023



Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 15.0, DFS: 6.40  
Report Start Date: 6/3/2023 06:00  
Report End Date: 6/4/2023 06:00  
Depth Progress: 2,709.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ft)KB 7,177.0		Total Depth (TVD) (ft)KB Original Hole - 7,141.2		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date		

-- SURVEY DATA --									
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)
15,870.00	89.20	348.44	9,091.30	6,682.10	6,416.62	-1,864.84	0.68	0.67	-0.16
16,020.00	89.20	348.44	9,093.39	6,831.62	6,563.56	-1,894.90	0.00	0.00	0.00

-- FORMATION TOPS --									
Wellbore Name			CWS Borehole ID		Formation Name			Drill Top MD (ftKB)	

-- WELLBORE SECTIONS --									
Section Des				Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Section Spud Date		Section TD Date
Conductor				30	30.0	70.0	4/10/2023		4/10/2023
Surface				16	70.0	1,874.0	4/14/2023		4/16/2023
Intermediate				11	1,874.0	7,177.0	5/28/2023		5/30/2023
Production				7 7/8	7,177.0				

-- LAST CASING RUN --									
Csg Des		Run Date		Set Depth (ftKB)		OD (in)		Wt/Len (lb/ft)	
Intermediate 1		5/30/2023 08:30		7,162.0		8 5/8		32.00	

-- LOT & FIT TEST --									
Test Type		Test Date	Last Casing String Run	Formation Tested	Le...	Fluid Type	Dens Fl...	Vol Pum...	Comment

-- SHAKER SCREENS --									
Deck Number	Screen Number	Screen Size X		Start Date			End Date		Drilling Time (hr)

-- BOP --									
Start Date	End Date	Description		P Range (psi)	Nom ID (in)	Class		Service	Last Cert Date
									Height (ft)

-- BOP COMPONENTS --									
Type Annular-nonrotating	Make Cameron			Serial Number		P Range (psi) 5,000.0	Nominal ID (in) 13 5/8	Body Type	
Type Pipe ram-fixed bore	Make Cameron			Serial Number		P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type	
Type Blind ram	Make Cameron			Serial Number		P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type	
Type Spool	Make Cameron			Serial Number		P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type	
Type Pipe ram-var. bore	Make Cameron			Serial Number		P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type	

-- SAFETY CHECK SUMMARY -- (Safety Meeting, JSA, Haz ID)									
Date	Type		Tour	Des	Com				
6/3/2023 06:00	Safety Meeting/JSA		Day	Pre Tour	Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygene, Forklift Operation's, Man Lift Operation's, Pinch Points, Heat Awareness, Muddy Conditions				
6/3/2023 18:00	Safety Meeting/JSA		Night	Pre Tour					

-- SAFETY INCIDENTS --									
Date				Type			IMS Plus Incident #		

-- MUD PUMPS --									
Pump #	Start Date		End Date	Make	Model	Pwr (hp)		Stroke (in)	Rod Dia (in)
1	5/24/2023			Gardner-Denver	PZ-11			10.98	6
2	5/24/2023			Gardner-Denver	PZ-11			10.98	6
3	5/24/2023			Gardner-Denver	PZ-11			10.98	6

-- PUMP OPERATIONS --									
Pump #	Start Date		End Date	Liner Size (in)		P Max (psi)		Vol/Stk OR (bbl/stk)	
1	5/24/2023 00:00			5 1/2		6,300.0		0.077	
2	5/24/2023 00:00			5 1/2		6,300.0		0.077	
3	5/24/2023 00:00			5 1/2		6,300.0		0.077	

-- SLOW PUMP RATES --									
Pump #	Date		Depth (ftKB)	Strokes (spm)		Q Flow (gpm)		P (psi)	Eff (%)

-- WELLHEADS --									
Type		Make		Working Pressure (psi)		Max Pres (psi)		Size (in)	Start Date

-- PERSONNEL LOG --									
Type					Company				Count
Contractor					Helmerich & Payne International Drlg Co				12
Contractor					Genesis Fluids, LLC				1
Contractor					Gordon Technologies, LLC				1
Contractor					Cathedral Energy Services, Inc.				2

</									





Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 15.0, DFS: 6.40  
Report Start Date: 6/3/2023 06:00  
Report End Date: 6/4/2023 06:00  
Depth Progress: 2,709.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00		Total Depth (MD) (ftKB) 7,177.0		Total Depth (TVD) (ftKB) Original Hole - 7,141.2		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- REMARKS --

Remarks  
Well Control:  
\*Last BOP Drill: 5-19-23 Days 51 sec, Nights 50 sec.  
\*Last Trip Drill: 5-21-23  
\*Annular Element: 10-3-2022  
\*Lower Variable Rams: 5-20-2022  
\*Upper Fixed Rams 5.5": 2-3-23  
\*Surface Casing Tested to 1500 psi for 30 minutes on 4-29-23  
\*Inter. Csg Tested to 1500 psi for 30 mins on 5-31-23  
\*Last BOP Test: 5-28-23  
\*Next BOP Test: 6-18-23  
  
\*15 Jts 5" HWDP on Location.  
\*2 Jts 4 ½ IF DP on Location  
\*15 Jts 6 ¾" Rental DC on Location. 4 ½  
\*9 Jts 8" Rental DC on Location. 6 5/8 Reg  
\*700 Jts 5.5" Rental DP on Location (PTech55)



Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 16.0, DFS: 7.40  
Report Start Date: 6/4/2023 06:00  
Report End Date: 6/5/2023 06:00  
Depth Progress: 2,774.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366			
Orig KB Elev (ft) 3,030.00		Gr Elev (ft) 3,000.00		KB-Grd (ft) 30.00		Total Depth (MD) (ftKB) 7,177.0		Total Depth (TVD) (ftKB) Original Hole - 7,141.2		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- RIG --

Contractor H&P		Rig Number 540		Rig Type Triple - Diesel		Max Hook Load (1000lbf) 750		Max Torque (ft*lb) 53,000	
AFE Number 23213342D		Job AFE Amt (Cost) \$3,535,700		Total AFE Supplemental Amount (Cost) \$0		Total AFE + Supp Amount (Cost) 3,535,700.00		Total Final Invoice (Cost) \$546,400	

-- OPERATIONS SUMMARY --

Start Depth (ftKB) 16,020.0		Start Depth (TVD) (ftKB) 9,093.7		Problem Time Hours (hr) 0.00		Percent Problem Time (%) 0.00		Daily Mud Field Est (Cost) \$16,165		Daily Field Est Total (Cost) \$79,900	
End Depth (ftKB) 18,794.0		End Depth (TVD) (ftKB) 9,080.1		Cum Problem Time Days (days) 1.167		Cum Percent Problem Time (%) 7.89		Cum Mud Field Est (Cost) \$102,058		Cum Field Est To Date (Cost) \$2,221,330	
Target Depth (MD) (ftKB) 19,390.0		Target Formation Middle Spraberry		Hole Condition Good		Weather Clear		Temperature (°F) 68.0		Road Condition Fair	

24 Hr Summary  
Drilled from 16020' to 18794' (2774' drilled in 23.5 hrs @ avg ROP of 118 fph). Rotate 2691' in 20 hrs @ 134.6 fph. Slide 83' in 3.5 hrs @ 23.7 fph. Lateral drilled past 80 deg = 9560'. Lateral remaining = 596'. Last Survey @ 18548 Inc-89.93 Az-349.11 Above-5.4 Left-35, Rig Service

AM Ops Drilling Lateral @ 18,794'		Ops Forecast Drill Lateral As Per Plan, Circ. Hole Clean, TOO H, L/D BHA, Remove Wear Bushing, R/U Casing Equip., Run Casing	
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-- RIG SAFETY PERFORMANCE --

Days Since Last LTI (days)		Days Since Last Reportable Inc (days)		MACP (psi)		WB Depth @ 6am (ftKB)	
435.00		74.00					

-- MUD CHECKS --

Date		Type		Sample Source		Depth (ftKB)		Dens (lb/gal)		Vis (s/qt)		PV OR (cP)		YP OR (lb/100ft²)		T Flowline (°F)	
6/4/2023 06:00		GenMud		Suction		17,450.0		8.75		32		4.0		5.000			
Gel (10s) (lb/100ft²)		Gel (10m) (lb/100ft²)		Gel (30m) (lb/100ft²)		Filtrate (mL/30min)		FC (1/32")		pH		Solids (%)		LGS (%)		T BH (°F)	
2.000		3.000		3.000		18.6		1		8.3		7.5		7.2			
H2O (%)		Oil (%)		MBT (lb/bbl)		Elec Stab (V)		Ca (mg/L)		Pot (mg/L)		Chlor (mg/L)		Vis 6rpm		Lime (lb/bbl)	
91.0		1.5										9,000.000		2			

-- INTERVAL PROBLEMS (NPT) --

Problem Type		Problem Subtype		Dur (Net) (hr)		Start Date		End Date		Start Depth (...)		End Depth (f...)		Description		Ref #	
--------------	--	-----------------	--	----------------	--	------------	--	----------	--	-------------------	--	------------------	--	-------------	--	-------	--

-- TIMELOG --

Phase		Task		Start Time		End Time		Dur (hr)		Cum Dur (hr)		Activity		Start Depth (ftKB)		End Depth (ftKB)		Com		Prob Ref #	
Drlg Prod		Drill Hz		06:00		12:30		6.50		6.50		Drill - Rotat e		16,020.0		16,990.0		Rotate from 16020' to 16990' (970' drilled @ 149.2 fph). WOB = 45 klbs, Q = 650 gpm, SPP = 4250 psi, Diff = 700 psi, RPM = 80, Torque = 30 kft-lbs, MM RPM = 208, Total bit RPM = 288.			
Drlg Prod		Drill Hz		12:30		13:30		1.00		7.50		Drill - Slide		16,990.0		17,015.0		Slide from 16990' to 17015' (25' drilled @ 25 fph). WOB = 55 klbs, Q = 650 gpm, SPP = 3450 psi, Diff = 250 psi, MM RPM = 208, TFO = HS.			
Drlg Prod		Drill Hz		13:30		14:30		1.00		8.50		Drill - Rotat e		17,015.0		17,090.0		Rotate from 17015' to 17090' (75' drilled @ 75 fph). WOB = 45 klbs, Q = 650 gpm, SPP = 4250 psi, Diff = 700 psi, RPM = 80, Torque = 30 kft-lbs, MM RPM = 208, Total bit RPM = 288.			
Drlg Prod		Drill Hz		14:30		15:30		1.00		9.50		Drill - Slide		17,090.0		17,110.0		Slide from 17090' to 17110' (20' drilled @ 20 fph). WOB = 50 klbs, Q = 650 gpm, SPP = 3750 psi, Diff = 200 psi, MM RPM = 208, TFO = 30R.			
Drlg Prod		Drill Hz		15:30		17:00		1.50		11.00		Drill - Rotat e		17,110.0		17,359.0		Rotate from 17110' to 17359' (249' drilled @ 166 fph). WOB = 45 klbs, Q = 650 gpm, SPP = 4250 psi, Diff = 700 psi, RPM = 80, Torque = 30 kft-lbs, MM RPM = 208, Total bit RPM = 288.			
Drlg Prod		Drill Hz		17:00		17:30		0.50		11.50		Rig Servi ce		17,359.0		17,359.0		Rig Service			
Drlg Prod		Drill Hz		17:30		01:30		8.00		19.50		Drill - Rotat e		17,359.0		18,412.0		Rotate from 17359' to 18412' (1053' drilled @ 131.6 fph). WOB = 45 klbs, Q = 650 gpm, SPP = 4000 psi, Diff = 750 psi, RPM = 80, Torque = 29 kft-lbs, MM RPM = 208, Total bit RPM = 288.			
Drlg Prod		Drill Hz		01:30		03:00		1.50		21.00		Drill - Slide		18,412.0		18,450.0		Slide from 18412' to 18450' (38' drilled @ 25.3 fph). WOB = 50 klbs, Q = 650 gpm, SPP = 3900 psi, Diff = 200 psi, MM RPM = 208, TFO = 110R.			
Drlg Prod		Drill Hz		03:00		06:00		3.00		24.00		Drill - Rotat e		18,450.0		18,794.0		Rotate from 18450' to 18794' (344' drilled @ 114.7 fph). WOB = 45 klbs, Q = 650 gpm, SPP = 4200 psi, Diff = 850 psi, RPM = 80, Torque = 28 kft-lbs, MM RPM = 208, Total bit RPM = 288.			

-- DRILL BITS -- (BHA #6 SUMMARY) Lateral

Bit Run 6		Type PDC		Size (in) 7 7/8		Make Ulterra		Model U716M		SN 65178		Bit TFA... 0.9940 0000		Depth In... 12,200. 0		Depth O... 18,794. 0		Drilled (ft) 6,594.0		Drill Tim... 54.00		Avg RO... 122.1		IADC Bit Dull Out -----	
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-- BHA --

Jts		Item Des		Grade		OD (in)		ID (in)		Len (ft)		Cum Len (ft)		Mass/Len (lb/ft)		Wt (lbf)		Top Thread		Icon		Connections		Gauge (in)		Drift (in)	
518		Drill Pipe		S135		5 1/2		4.25		16,254.00		18,794.00		19.20		312,076.8		P-Tech		Drill pipe		P-Tech x P-Tech					
1		Agitator				6 1/2		3.25		23.10		2,540.00		101.00		2,333.1		P-Tech		Agitator		P-Tech x P-Tech					
75		Drill Pipe		S135		5 1/2		4.25		2,391.55		2,516.90		19.20		45,917.8		P-Tech		Drill pipe		P-Tech x P-Tech					
1		XO Sub				6 1/2		3.0		1.65		125.35						P-Tech		XO		P-Tech x 4 1/2 IF					
1		NMDC				6 1/2		3.25		30.77		123.70		88.70		2,729.3		IF		Drill collar - non mag		4 1/2 IF x 4 1/2 IF					
1		NMDC				6 1/2		3.25		28.01		92.93		88.70		2,484.5		IF		Drill collar - non mag		4 1/2 IF x 4 1/2 IF					
1		NMDC				6 1/2		3.25		29.18		64.92		88.70		2,588.3		IF		Drill collar - non mag		4 1/2 IF x 4 1/2 IF					
1		UBHO				6 1/2		3.5		2.60		35.74						IF		Drill Collar		4 1/2 IF x 4 1/2 IF					
1		6/7:L 8.4:S @ 0.30				7				32.14		33.14						IF		Motor 2		4 1/2 IF x 4 1/2 Reg					

-- DOWNHOLE SENSORS --

Sensor Type		Sensor-Bit (ft)		Note	

Ovintiv Confidential

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Report Printed: 6/5/2023



Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 16.0, DFS: 7.40  
Report Start Date: 6/4/2023 06:00  
Report End Date: 6/5/2023 06:00  
Depth Progress: 2,774.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366			
Orig KB Elev (ft) 3,030.00		Gr Elev (ft) 3,000.00		KB-Grd (ft) 30.00		Total Depth (MD) (ftKB) 7,177.0		Total Depth (TVD) (ftKB) Original Hole - 7,141.2		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date	

-- KICKS --														
Kick Date		Kick Depth (ftKB)	Control Date		Control Depth (ftKB)	Class	P SIDP (psi)	P SIC (psi)	Vol Kick (bbl)	Kill Notes				

MUD ADDITIVES --								
Des	Date	Rec	Consumed	Returned	Rec	Consumed	Returned	On Loc
24 Hour Engineering	6/5/2023	1.0	1.0		12.0	12.0	0.0	0.0
Blower	6/5/2023	2.0	2.0		24.0	24.0	0.0	0.0
Clean Lube	6/5/2023		265.0		1,590.0	530.0	0.0	1,060.0
Forklift	6/5/2023	1.0	1.0		2.0	2.0	0.0	0.0
Myacide	6/5/2023		2.0		23.0	7.0	0.0	16.0
Pac LV	6/5/2023		23.0		150.0	85.0	0.0	65.0
Poly Vis	6/5/2023		2.0		53.0	11.0	0.0	42.0
Retention Bonus	6/5/2023	1.0	1.0		12.0	12.0	0.0	0.0
Soda Ash	6/5/2023		20.0		131.0	81.0	0.0	50.0
Sodium Sulfite	6/5/2023		8.0		138.0	88.0	0.0	50.0
Texzan	6/5/2023		21.0		194.0	70.0	0.0	124.0

-- LEASE FLUIDS -- (Water, Mud Cuttings, Sewage, Haul-Off)														
Fluid Type		Fluid Sub Type			Source			Vol to Lease (bbl)	Vol from Lease (bbl)	Dest				
Fresh Water		Drilling			Ovintiv Permitted Surface Water			0.0						

-- JOB SUPPLIES -- (Fuel)												
Date	Supply Item Des	Vendor	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned	Cum On Loc	Unit Label	Unit Sz
6/5/2023	Fuel		Diesel Fuel - Rig		3,463.0		24,109.0	18,309.0	0.0	5,800.0	gal US	
6/5/2023	Fuel		Diesel Fuel - Other		300.0		8,065.0	1,065.0	0.0	7,000.0	gal US	

-- LOST CIRCULATION --							
Start Date	End Date	Ops In Prog	Top (ftKB)	Btm (ftKB)	Q Lost (bbl/hr)	Vol Lost Tot (bbl)	Com

-- SURVEY DATA --									
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)
18,261.00	91.72	344.62	9,083.64	9,069.46	8,743.96	-2,408.13	0.42	-0.18	-0.39
18,357.00	91.53	344.87	9,080.91	9,165.42	8,836.54	-2,433.38	0.33	-0.20	0.26
18,452.00	89.96	348.36	9,079.68	9,260.34	8,928.93	-2,455.37	4.03	-1.65	3.67
18,548.00	89.93	349.11	9,079.77	9,356.12	9,023.08	-2,474.12	0.78	-0.03	0.78
18,794.00	89.93	349.11	9,080.07	9,601.41	9,264.65	-2,520.59	0.00	0.00	0.00

-- FORMATION TOPS --				
Wellbore Name	CWS Borehole ID	Formation Name	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)

-- WELLBORE SECTIONS --					
Section Des	Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Section Spud Date	Section TD Date
Conductor	30	30.0	70.0	4/10/2023	4/10/2023
Surface	16	70.0	1,874.0	4/14/2023	4/16/2023
Intermediate	11	1,874.0	7,177.0	5/28/2023	5/30/2023
Production	7 7/8	7,177.0			

-- LAST CASING RUN --						
Csg Des	Run Date	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread
Intermediate 1	5/30/2023 08:30	7,162.0	8 5/8	32.00	HC L-80	GBCD

-- LOT & FIT TEST --									
Test Type	Test Date	Last Casing String Run	Formation Tested	Le...	Fluid Type	Dens Fl...	Vol Pum...	Comment	

-- SHAKER SCREENS --					
Deck Number	Screen Number	Screen Size X	Start Date	End Date	Drilling Time (hr)

-- BOP --									
Start Date	End Date	Description	P Range (psi)	Nom ID (in)	Class	Service	Last Cert Date	Height (ft)	Clear (ft)

BOP COMPONENTS --					
Type Annular- nonrotating	Make Cameron	Serial Number	P Range (psi) 5,000.0	Nominal ID (in) 13 5/8	Body Type
Type Pipe ram-fixed bore	Make Cameron	Serial Number	P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type
Type Blind ram	Make Cameron	Serial Number	P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type
Type Spool	Make Cameron	Serial Number	P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type
Type Pipe ram-var. bore	Make Cameron	Serial Number	P Range (psi) 10,000.0	Nominal ID (in) 13 5/8	Body Type

-- SAFETY CHECK SUMMARY -- (Safety Meeting, JSA, Haz ID)									
Date	Type		Tour	Des		Com			
6/4/2023 06:00	Safety Meeting/JSA		Day	Pre Tour		Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygene, Forklift Operation's, Man Lift Operation's, Pinch Points, Heat Awareness, Housekeeping			
6/4/2023 18:00	Safety Meeting/JSA		Night	Pre Tour		Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygene, Forklift Operation's, Man Lift Operation's, Pinch Points, Housekeeping			





Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 18.0, DFS: 9.13  
Report Start Date: 6/6/2023 06:00  
Report End Date: 6/7/2023 06:00  
Depth Progress: 0.0

API/UWI 42003487910000	Well Type Oil	Asset Permian	Sub Asset 1 Martin	Segment US Upstream	State/Province TX	County/Parish ANDREWS	Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ftKB) 19,369.0	Total Depth (TVD) (ftKB) Original Hole - 9,065.3	Latitude (decimal) (°) 32.41896260	Longitude (decimal) (°) -102.29862820	Spud Date 4/14/2023	Final Rig Release Date 6/6/2023

-- RIG --				
Contractor H&P	Rig Number 540	Rig Type Triple - Diesel	Max Hook Load (1000lbf) 750	Max Torque (ft*lb) 53,000
AFE Number 23213342D	Job AFE Amt (Cost) \$3,535,700	Total AFE Supplemental Amount (Cost) \$0	Total AFE + Supp Amount (Cost) 3,535,700.00	Total Final Invoice (Cost) \$546,400

-- OPERATIONS SUMMARY --					
Start Depth (ftKB) 19,369.0	Start Depth (TVD) (ftKB) 9,065.3	Problem Time Hours (hr) 0.00	Percent Problem Time (%) 0.00	Daily Mud Field Est (Cost) (\$637)	Daily Field Est Total (Cost) \$1,121,300
End Depth (ftKB) 19,369.0	End Depth (TVD) (ftKB) 9,065.3	Cum Problem Time Days (days) 1.167	Cum Percent Problem Time (%) 7.06	Cum Mud Field Est (Cost) \$111,038	Cum Field Est To Date (Cost) \$3,565,230
Target Depth (MD) (ftKB) 19,390.0	Target Formation Middle Spraberry	Hole Condition Good	Weather Clear	Temperature (°F) 69.0	Road Condition Fair
24 Hr Summary Run Casing T/10,787', C/O Dies T/6", Run Casing T/19,347', Fill Casing + 100 bbls, R/D CRT, L/D Landing Jt., R/D Casing Bails and Elevators, Run Wash Tool and Install Pack-Off and Test, Nipple Down, Prep T/Skid, Release Rig T/Hilltop 37A 2HF					
AM Ops Release Rig T/Hilltop 37A 2HF			Ops Forecast Release Rig T/Hilltop 37A 2HF, Preform Offline Cement Job		

-- RIG SAFETY PERFORMANCE --							
Days Since Last LTI (days)		Days Since Last Reportable Inc (days)			MACP (psi)		WB Depth @ 6am (ftKB)
437.00		76.00					

-- MUD CHECKS --								
Date	Type	Sample Source	Depth (ftKB)	Dens (lb/gal)	Vis (s/qt)	PV OR (cP)	YP OR (lb/100ft²)	T Flowline (°F)
6/6/2023 06:00	GenMud	Suction	19,369.0	8.75	32	4.0	7.000	
Gel (10s) (lb/100ft²)	Gel (10m) (lb/100ft²)	Gel (30m) (lb/100ft²)	Filtrate (mL/30min)	FC (1/32")	pH	Solids (%)	LGS (%)	T BH (°F)
2.000	3.000	3.000	19.6	1	8.8	7.5	7.2	
H2O (%)	Oil (%)	MBT (lb/bbl)	Elec Stab (V)	Ca (mg/L)	Pot (mg/L)	Chlor (mg/L)	Vis 6rpm	Lime (lb/bbl)
91.0	1.5					9,000.000	2	

-- INTERVAL PROBLEMS (NPT) --								
Problem Type	Problem Subtype	Dur (Net) (hr)	Start Date	End Date	Start Depth (...)	End Depth (f...	Description	Ref #

-- TIMELOG --												
Phase	Task	Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Start Depth (ftKB)	End Depth (ftKB)	Com			Prob Ref #
Flat Prod	Case & Cement	06:00	09:30	3.50	3.50	Run Casin g	19,369.0	19,369.0	Run Casing F/5,278'-T/10,878'			
Flat Prod	Case & Cement	09:30	10:30	1.00	4.50	Other	19,369.0	19,369.0	Swap CRT Dies and Tong Dies To 6"			
Flat Prod	Case & Cement	10:30	17:30	7.00	11.50	Run Casin g	19,369.0	19,369.0	Run Casing F/10,878'-T/19,347'			
Flat Prod	Case & Cement	17:30	18:30	1.00	12.50	Circ & Cond Mud	19,369.0	19,369.0	Fill Casing + 100 bbls (200 bbls Treated Mud)			
Flat Prod	Case & Cement	18:30	20:00	1.50	14.00	Other	19,369.0	19,369.0	R/D CRT, L/D Landing Jt., R/D Casing Bails and Elevators			
Flat Prod	Case & Cement	20:00	22:30	2.50	16.50	Wellh ead	19,369.0	19,369.0	Run Wash Tool, Set And Test Pack-Off and BPV			
Flat Prod	Case & Cement	22:30	23:00	0.50	17.00	BOP	19,369.0	19,369.0	Nipple Down BOP			
Flat Prod	Case & Cement	23:00	23:30	0.50	17.50	Other	19,369.0	19,369.0	Prep To Skid, Release Rig T/Hilltop 37A 2HF			

-- DRILL BITS -- (BHA #<BHA #?> SUMMARY) <Drill String Name?>												
Bit Run	Type	Size (in)	Make	Model	SN	Bit TFA...	Depth In...	Depth O...	Drilled (ft)	Drill Tim...	Avg RO...	IADC Bit Dull Out

-- BHA --													
Jts	Item Des	Grade	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Mass/Len (lb/ft)	Wt (lbf)	Top Thread	Icon	Connections	Gauge (in)	Drift (in)

-- DOWNHOLE SENSORS --													
Sensor Type				Sensor-Bit (ft)						Note			

-- KICKS --													
Kick Date	Kick Depth (ftKB)	Control Date	Control Depth (ftKB)	Class	P SIDP (psi)	P SIC (psi)	Vol Kick (bbl)	Kill Notes					

-- MUD ADDITIVES --									
Des	Date		Rec	Consumed	Returned	Rec	Consumed	Returned	On Loc
24 Hour Engineering	6/6/2023		1.0	1.0		14.0	14.0	0.0	0.0
Barite Sack	6/6/2023			3.0		105.0	28.0	0.0	77.0
Blower	6/6/2023		2.0	2.0		28.0	28.0	0.0	0.0
Gen Shield	6/6/2023			50.0		225.0	125.0	0.0	100.0
MEA	6/6/2023			30.0		195.0	30.0	0.0	165.0
Multi-Rig Discount	6/6/2023		1.0	1.0		1.0	1.0	0.0	0.0
Retention Bonus	6/6/2023		1.0	1.0		1.0	1.0	0.0	0.0

-- LEASE FLUIDS -- (Water, Mud Cuttings, Sewage, Haul-Off)													
Fluid Type	Fluid Sub Type			Source			Vol to Lease (bbl)	Vol from Lease (bbl)	Dest				
Fresh Water	Drilling			Ovintiv Permitted Surface Water			0.0						

-- JOB SUPPLIES -- (Fuel)													
Date	Supply Item Des	Vendor	Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned	Cum On Loc	Unit Label	Unit Sz	
6/7/2023	Fuel		Diesel Fuel - Rig		361.0	10,568.0	31,309.0	20,741.0	10,568.0	0.0	gal US		
6/7/2023	Fuel		Diesel Fuel - Other		0.0	6,812.0	8,065.0	1,253.0	6,812.0	0.0	gal US		





Daily Drilling (Partner)  
Well Name: HILLTOP 37C 3HC

Report #: 18.0, DFS: 9.13  
Report Start Date: 6/6/2023 06:00  
Report End Date: 6/7/2023 06:00  
Depth Progress: 0.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366	
Orig KB Elev (ft) 3,030.00	Gr Elev (ft) 3,000.00	KB-Grd (ft) 30.00	Total Depth (MD) (ftKB) 19,369.0		Total Depth (TVD) (ftKB) Original Hole - 9,065.3			Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date 6/6/2023	

-- LOST CIRCULATION --

Start Date	End Date	Ops In Prog	Top (ftKB)	Btm (ftKB)	Q Lost (bbl/hr)	Vol Lost Tot (bbl)	Com

-- SURVEY DATA --

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)
19,026.00	92.12	346.95	9,073.73	9,833.42	9,490.02	-2,575.99	1.18	1.16	-0.22
19,122.00	91.53	346.54	9,070.67	9,929.31	9,583.41	-2,597.99	0.75	-0.61	-0.43
19,218.00	90.83	346.55	9,068.70	10,025.25	9,676.76	-2,620.32	0.73	-0.73	0.01
19,314.00	91.53	346.32	9,066.72	10,121.20	9,770.06	-2,642.83	0.77	0.73	-0.24
19,369.00	91.53	346.32	9,065.25	10,176.16	9,823.48	-2,655.83	0.00	0.00	0.00

-- FORMATION TOPS --

Wellbore Name	CWS Borehole ID	Formation Name	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)

-- WELLBORE SECTIONS --

Section Des	Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Section Spud Date	Section TD Date
Conductor	30	30.0	70.0	4/10/2023	4/10/2023
Surface	16	70.0	1,874.0	4/14/2023	4/16/2023
Intermediate	11	1,874.0	7,177.0	5/28/2023	5/30/2023
Production	7 7/8	7,177.0	19,369.0	5/31/2023	6/5/2023

-- LAST CASING RUN --

Csg Des	Run Date	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread
Intermediate 1	5/30/2023 08:30	7,162.0	8 5/8	32.00	HC L-80	GBCD

-- LOT & FIT TEST --

Test Type	Test Date	Last Casing String Run	Formation Tested	Le...	Fluid Type	Dens Fl...	Vol Pum...	Comment

-- SHAKER SCREENS --

Deck Number	Screen Number	Screen Size X	Start Date	End Date	Drilling Time (hr)

-- BOP --

Start Date	End Date	Description	P Range (psi)	Nom ID (in)	Class	Service	Last Cert Date	Height (ft)	Clear (ft)

-- BOP COMPONENTS --

Type	Make	Serial Number	P Range (psi)	Nominal ID (in)	Body Type
Annular-nonrotating	Cameron		5,000.0	13 5/8	
Pipe ram-fixed bore	Cameron		10,000.0	13 5/8	
Blind ram	Cameron		10,000.0	13 5/8	
Spool	Cameron		10,000.0	13 5/8	
Pipe ram-var. bore	Cameron		10,000.0	13 5/8	

-- SAFETY CHECK SUMMARY -- (Safety Meeting, JSA, Haz ID)

Date	Type	Tour	Des	Com
6/6/2023 06:00	Safety Meeting/JSA	Day	Pre Tour	Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygene, Forklift Operation's, Man Lift Operation's, Pinch Points, Heat Awareness, Last Day
6/6/2023 18:00	Safety Meeting/JSA	Night	Pre Tour	Wildlife. Reserve Pit, Open Top Tanks, and Secondary Containment inspected daily. PreTour Safety Meeting: 100% Tie-Off, Good Hygene, Forklift Operation's, Man Lift Operation's, Pinch Points, Housekeeping, Last Night

-- SAFETY INCIDENTS --

Date	Type	IMS Plus Incident #

-- MUD PUMPS --

Pump #	Start Date	End Date	Make	Model	Pwr (hp)	Stroke (in)	Rod Dia (in)
1	5/24/2023		Gardner-Denver	PZ-11		10.98	6
2	5/24/2023		Gardner-Denver	PZ-11		10.98	6
3	5/24/2023		Gardner-Denver	PZ-11		10.98	6

-- PUMP OPERATIONS --

Pump #	Start Date	End Date	Liner Size (in)	P Max (psi)	Vol/Stk OR (bbl/stk)
1	5/24/2023 00:00		5 1/2	6,300.0	0.077
2	5/24/2023 00:00		5 1/2	6,300.0	0.077
3	5/24/2023 00:00		5 1/2	6,300.0	0.077

-- SLOW PUMP RATES --

Pump #	Date	Depth (ftKB)	Strokes (spm)	Q Flow (gpm)	P (psi)	Eff (%)

-- WELLHEADS --

Type	Make	Working Pressure (psi)	Max Pres (psi)	Size (in)	Start Date

-- PERSONNEL LOG --

Type	Company	Count
Contractor	Helmerich & Payne International Drlg Co	12
Contractor	Genesis Fluids, LLC	1
Contractor	Gordon Technologies, LLC	1
Contractor	Cathedral Energy Services, Inc.	2





Daily Drilling (Partner)

Well Name: HILLTOP 37C 3HC

Report #: 19.0, DFS: 9.25

Report Start Date: 6/7/2023 06:00

Report End Date: 6/7/2023 09:00

Depth Progress: 0.0

API/UWI 42003487910000		Well Type Oil		Asset Permian		Sub Asset 1 Martin		Segment US Upstream		State/Province TX		County/Parish ANDREWS		Enterprise Unique ID (E... 20202300027366			
Orig KB Elev (ft) 3,030.00		Gr Elev (ft) 3,000.00		KB-Grd (ft) 30.00		Total Depth (MD) (ftKB) 19,369.0		Total Depth (TVD) (ftKB) Original Hole - 9,065.3		Latitude (decimal) (°) 32.41896260		Longitude (decimal) (°) -102.29862820		Spud Date 4/14/2023		Final Rig Release Date 6/6/2023	

-- RIG --														
Contractor H&P			Rig Number 540			Rig Type Triple - Diesel			Max Hook Load (1000lbf) 750			Max Torque (ft*lb) 53,000		
AFE Number 23213342D			Job AFE Amt (Cost) \$3,535,700			Total AFE Supplemental Amount (Cost) \$0			Total AFE + Supp Amount (Cost) 3,535,700.00			Total Final Invoice (Cost) \$551,418		

-- OPERATIONS SUMMARY --					
Start Depth (ftKB) 19,369.0	Start Depth (TVD) (ftKB) 9,065.3	Problem Time Hours (hr) 0.00	Percent Problem Time (%) 0.00	Daily Mud Field Est (Cost)	Daily Field Est Total (Cost) \$937,100
End Depth (ftKB) 19,369.0	End Depth (TVD) (ftKB) 9,065.3	Cum Problem Time Days (days) 1.167	Cum Percent Problem Time (%) 7.01	Cum Mud Field Est (Cost) \$111,038	Cum Field Est To Date (Cost) \$4,340,330
Target Depth (MD) (ftKB) 19,390.0	Target Formation Middle Spraberry	Hole Condition Good	Weather	Temperature (°F)	Road Condition Fair
24 Hr Summary Drop 1,000 psi Plug, Pump 5 bbls KCL Retarder Water, Drop 2500 psi Plug, Pump 15 bbls KCL Retarder, Pump 456 bbls *Treated Water* Bump with Calculated Disp. 6-7-23 @ 07:30 , FCP: 2,415 psi, 1st Plug Sheared @ 3,025 psi, Test1500 psi over T/3,865 psi & held 5 mins, Bled Back 6 bbls, Float's Held, Well Static, Full Return's, 50 bbls Cement T/Surface, Install BPV, R/D Offline Cement Iron & Cementers, R/D Offline Adapter, Install TA Cap &Test T/5,000 psi					
AM Ops			Ops Forecast		

-- RIG SAFETY PERFORMANCE --														
Days Since Last LTI (days)			Days Since Last Reportable Inc (days)			MACP (psi)			WB Depth @ 6am (ftKB)					
438.00			77.00											

-- MUD CHECKS --														
Date	Type	Sample Source		Depth (ftKB)	Dens (lb/gal)	Vis (s/qt)	PV OR (cP)	YP OR (lb/100ft²)	T Flowline (°F)					
Gel (10s) (lb/100ft²)	Gel (10m) (lb/100ft²)	Gel (30m) (lb/100ft²)		Filtrate (mL/30min)	FC (1/32")	pH	Solids (%)	LGS (%)	T BH (°F)					
H2O (%)	Oil (%)	MBT (lb/bbl)		Elec Stab (V)	Ca (mg/L)	Pot (mg/L)	Chlor (mg/L)	Vis 6rpm	Lime (lb/bbl)					

-- INTERVAL PROBLEMS (NPT) --														
Problem Type	Problem Subtype	Dur (Net) (hr)		Start Date		End Date		Start Depth (...)	End Depth (f...)	Description				Ref #

-- TIMELOG --														
Phase	Task	Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Start Depth (ftKB)	End Depth (ftKB)	Com					Prob Ref #
Offline Prod	BOP/WH/ Drillout	06:00	07:30	1.50	1.50	Cmnt Casin g	19,369.0	19,369.0	Drop 1,000 psi Plug, Pump 5 bbls KCL Retarder Water, Drop 2500 psi Plug, Pump 15 bbls KCL Retarder, Pump 456 bbls *Treated Water* Bump with Calculated Disp. 6-7-23 @ 07:30 , FCP: 2,415 psi, 1st Plug Sheared @ 3,025 psi, Test1500 psi over T/3,865 psi & held 5 mins, Bled Back 6 bbls, Float's Held, Well Static, Full Return's, 50 bbls Cement T/Surface					
Offline Prod	BOP/WH/ Drillout	07:30	09:00	1.50	3.00	Wellh ead	19,369.0	19,369.0	Install BPV, R/D Offline Iron & Cementer's, R/D Offline Adapter, Install TA Cap & Test T/5,000 psi					

-- DRILL BITS -- (BHA #<BHA #?> SUMMARY) <Drill String Name?>														
Bit Run	Type	Size (in)	Make		Model		SN	Bit TFA...	Depth In...	Depth O...	Drilled (ft)	Drill Tim...	Avg RO...	IADC Bit Dull Out

-- BHA --														
Jts	Item Des		Grade	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Mass/Len (lb/ft)	Wt (lbf)	Top Thread	Icon	Connections		Gauge (in) Drift (in)

-- DOWNHOLE SENSORS --														
Sensor Type					Sensor-Bit (ft)					Note				

-- KICKS --														
Kick Date		Kick Depth (ftKB)	Control Date		Control Depth (ftKB)	Class	P SIDP (psi)	P SIC (psi)	Vol Kick (bbl)	Kill Notes				

-- MUD ADDITIVES --														
Des			Date		Rec	Consumed	Returned	Rec	Consumed	Returned	On Loc			

-- LEASE FLUIDS -- (Water, Mud Cuttings, Sewage, Haul-Off)														
Fluid Type	Fluid Sub Type				Source				Vol to Lease (bbl)	Vol from Lease (bbl)	Dest			

-- JOB SUPPLIES -- (Fuel)														
Date	Supply Item Des	Vendor		Type	Received	Consumed	Returned	Cum Received	Cum Consumed	Cum Returned	Cum On Loc	Unit Label	Unit Sz	

-- LOST CIRCULATION --														
Start Date		End Date		Ops In Prog		Top (ftKB)	Btm (ftKB)	Q Lost (bbl/hr)	Vol Lost Tot (bbl)	Com				

-- SURVEY DATA --														
MD (ftKB)	Incl (°)	Azim (°)		TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)				
19,026.00	92.12	346.95		9,073.73	9,833.42	9,490.02	-2,575.99	1.18	1.16	-0.22				
19,122.00	91.53	346.54		9,070.67	9,929.31	9,583.41	-2,597.99	0.75	-0.61	-0.43				
19,218.00	90.83	346.55		9,068.70	10,025.25	9,676.76	-2,620.32	0.73	-0.73	0.01				
19,314.00	91.53	346.32		9,066.72	10,121.20	9,770.06	-2,642.83	0.77	0.73	-0.24				
19,369.00	91.53	346.32		9,065.25	10,176.16	9,823.48	-2,655.83	0.00	0.00	0.00				

-- FORMATION TOPS --														
Wellbore Name			CWS Borehole ID			Formation Name			Drill Top MD (ftKB)			Drill Top (TVD) (ftKB)		

-- WELLBORE SECTIONS --														
Section Des				Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Section Spud Date			Section TD Date				
Conductor				30	30.0	70.0	4/10/2023			4/10/2023				
Surface				16	70.0	1,874.0	4/14/2023			4/16/2023				
Intermediate				11	1,874.0	7,177.0	5/28/2023			5/30/2023				
Production				7 7/8	7,177.0	19,369.0	5/31/2023			6/5/2023				



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-- LAST CASING RUN --									
Csg Des		Run Date		Set Depth (ftKB)		OD (in)	Wt/Len (lb/ft)	Grade	Top Thread
Production		6/6/2023 00:30		19,347.0		6	22.30	P-110RY	SPRINT TC

-- LOT & FIT TEST --									
Test Type		Test Date	Last Casing String Run	Formation Tested	Le...	Fluid Type	Dens Fl...	Vol Pum...	Comment

-- SHAKER SCREENS --									
Deck Number	Screen Number	Screen Size X		Start Date		End Date		Drilling Time (hr)	

-- BOP --									
Start Date	End Date	Description	P Range (psi)	Nom ID (in)	Class	Service	Last Cert Date	Height (ft)	Clear (ft)

-- BOP COMPONENTS --									
Type	Make			Serial Number		P Range (psi)	Nominal ID (in)	Body Type	

-- SAFETY CHECK SUMMARY -- (Safety Meeting, JSA, Haz ID)									
Date		Type		Tour	Des		Com		

-- SAFETY INCIDENTS --									
Date				Type			IMS Plus Incident #		

-- MUD PUMPS --									
Pump #	Start Date		End Date	Make	Model	Pwr (hp)		Stroke (in)	Rod Dia (in)

-- PUMP OPERATIONS --									
Pump #	Start Date		End Date	Liner Size (in)		P Max (psi)		Vol/Stk OR (bbl/stk)	

-- SLOW PUMP RATES --									
Pump #	Date		Depth (ftKB)	Strokes (spm)		Q Flow (gpm)		P (psi)	Eff (%)

-- WELLHEADS --									
Type		Make		Working Pressure (psi)		Max Pres (psi)		Size (in)	Start Date

-- PERSONNEL LOG --									
Type					Company				Count
Contractor					Helmerich & Payne International Drlg Co				12
Contractor					Genesis Fluids, LLC				1
Contractor					Gordon Technologies, LLC				1
Contractor					Cathedral Energy Services, Inc.				2

-- REMARKS --									
Remarks									