



## Drilling Chron Partner Report

Well Name: UL EMPIRE 15-16 C 7TB

API/UWI 42475384220000	Surface Legal Location SEC130-BLK2-T&P RR CO SRVY ABSTRAC	Field Name Spraberry (Trend Area)	Drilling Permit # 880948	State/Province TEXAS	Well Configuration Type Horizontal
Original KB Elevation (ft) 2,761.00	KB-Tubing Head Distance (ft)	Spud Date 10/8/2023 07:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB)

### Daily Operation: 10/16/2023 23:30 - 10/17/2023 06:00

Depth Progress (ft) 0.00	Drilling Hours (hr)	Circulating Hours (hr)	Avg ROP (ft/hr)	Contractor H&P	Rig Number 462	Daily Field Est Total (Cost) 14,415.00	Cum To Date (Cost) 903,557.00
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#### 24 Hour Summary

Current Operations: Nipple up.

24 Hour Summary: Skid rig from UL Empire 15-16 E 9TB. Accept rig at 00:45 hrs. Accept rig at 00:45 hrs. Install quick clamp and drilling spool. Install BOP stack. Start installing OPLA MPD system. Test choke manifold offline 250 low 7500 high.

Plan Forward: Complete nipple up. Test BOP. Pick up directional tools. Drill DVT and shoe track. Drill intermediate.

T&C: 1.3 days under on days and 450k under on Costs.

EHS: No incidents, accidents or spills reported.

Next Full BOP Test Due: N/A.

### Time Log

Start Time	Dur (hr)	End Time	Code	Start Depth (ftKB)	End Depth (ftKB)	Com
23:30	1.25	00:45	33	120.0	120.0	Skid rig from UL Empire 15-16 E 9TB.
00:45	4.75	05:30	59	120.0	120.0	Install quick clamp and drilling spool. Install BOP stack. Start installing OPLA MPD system. Test choke manifold offline 250 low 7500 high.



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Original KB Elevation (ft) 2,761.00	KB-Tubing Head Distance (ft)	Spud Date 10/8/2023 07:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB)

### Daily Operation: 10/17/2023 06:00 - 10/18/2023 06:00

Depth Progress (ft) 0.00	Drilling Hours (hr)	Circulating Hours (hr)	Avg ROP (ft/hr)	Contractor H&P	Rig Number 462	Daily Field Est Total (Cost) 102,434.00	Cum To Date (Cost) 1,005,991.00
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#### 24 Hour Summary

Current Operations: Drilling out float equipment

24 Hour Summary: Complete nipping up BOP, hook choke, kill, mid lines, flow line, mud bucket line, bleed off line, complete Opla Install, Install Test equipment, Test BOP, test Opla MPD (failed), troubleshoot orbit valve failure, Pick up 8 3/4" Intermediate Assembly (BHA#2), TIH f/ surface to 542', test DV tool 1,500 psi 5 min (good test), drill out DV tool, TIH f/ 542' to 4,880', test casing 1,500 psi 30 min (good test), drill out cement / float collar.

NPT total 3.25 hrs - failure to test Opla MPD, troubleshoot orbit valve, calibrate and flush to achieve good test.

Plan Forward: Drill out float equipment and 10' of new formation, conduct 12.0 ppg EMW FIT, Drill ahead in 8 3/4" Intermediate Section as per plan #1

T&C: 1.5 days under on days and 375k under on Costs.

EHS: No incidents, accidents or spills reported.

Next Full BOP Test Due: 11/07/2023

### Time Log

Start Time	Dur (hr)	End Time	Code	Start Depth (ftKB)	End Depth (ftKB)	Com
06:00	7.25	13:15	61	4,995.0	4,995.0	Complete nipping up BOP, hook choke, kill, mid lines, flow line, mud bucket line, bleed off line, complete Opla Install
13:15	3.75	17:00	64	4,995.0	4,995.0	Install Test equipment, Test BOP 250/7500- Rams, floor valves.
17:00	0.50	17:30	41	4,995.0	4,995.0	Perform Rig Service
17:30	1.00	18:30	64	4,995.0	4,995.0	Test mud line 250/7500, annular 250/3500, Rig down Testing equipment.
18:30	3.25	21:45	64	4,995.0	4,995.0	Pressure test Opla MPD (failed), troubleshoot orbit valve. Calibrate and function, flush, good test.
21:45	1.25	23:00	40	4,995.0	4,995.0	PJSM, Pick up BHA# 2: Motor, UBHO, Scribe, NMDC, Install MWD Probe, M/up bit, NMDC, X/O and 4 stds 6.5" DC's
23:00	1.00	00:00	38	4,995.0	4,995.0	TIH f/ surface to 542'. Test DVT 1,500 psi 5 min (good test).
00:00	1.25	01:15	72	4,995.0	4,995.0	Drill out DV tool per weatherford recommended parameters.
01:15	2.25	03:30	38	4,995.0	4,995.0	TIH f/ 542' to 4,880'.
03:30	1.25	04:45	37	4,995.0	4,995.0	Circulate and condition, 8.9 ppg in/out. Test surface Csg 1,500 psi 30 min (good test).
04:45	1.25	06:00	72	4,995.0	4,995.0	Dress cement / float / shoe. FC @ 4,880',

### Mud Checks

Time 06:00	Mud Company Stellar Drilling Fluids LLC	Type Water Base	Depth (ftKB) 4,995.0	Dens (lb/gal) 9.50	Vis (s/qt) 29	PV OR (cP) 1.0	YP OR (lb/100) 3.000	Gel (10s) (lb/100) 2.000	Gel (10m) (lb/100) 3.000	Filtrate (mL/30m) 100.0
Percent Water (%) 90.5	pH 8.0	Salt (%)	Sand (%)	Chlorides (mg/L) 128,000.000	Percent Oil (%) 0.0	ECD - Manual Entry (lb/gal)		Solids (%) 9.5		



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Original KB Elevation (ft) 2,761.00	KB-Tubing Head Distance (ft)	Spud Date 10/8/2023 07:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB) Original Hole - 4,969.2

### Daily Operation: 10/18/2023 06:00 - 10/19/2023 06:00

Depth Progress (ft) 3,310.00	Drilling Hours (hr) 19.75	Circulating Hours (hr) 2.50	Avg ROP (ft/hr) 167.6	Contractor H&P	Rig Number 462	Daily Field Est Total (Cost) 89,073.75	Cum To Date (Cost) 1,093,749.75
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#### 24 Hour Summary

Current Operations: Drilling Intermediate Section at 8,260'

24 Hour Summary: Drill FC at 4880' and Shoe at 4972', clean out rat hole, drill 10' new hole to 5,005', CBU for FIT, conduct FIT to 12.1 ppg EMW at 821 psi with 8.9 ppg cut brine. Drill 8 3/4" Intermediate Section from 5,005' to 7,331', repair IBOP actuator, drill F/ 7,331' to 7,373', increase in flow - flow check static, shut in on mpd (no pressure), function and recalibrate flow paddle, drill F/ 7,373' to 8,260'.

Daily Footage: 3,265' in 19.75 hrs. at 165 FPH

Rotate: 3,132' in 17 hrs. at 184 FPH

Slide: 133' in 2.75 hrs. at 48 FPH

Slide 4%, Rotate 96%

NPT - total 1.0 hrs: Replace IBOP actuator.

Plan Forward: Drill 8 3/4" Intermediate Section as per plan #2 KOP at +/- 10,230'

T&C: 3 days under on days and 500k under on Costs.

EHS: No incidents, accidents or spills reported.

Next Full BOP Test Due: 11/07/2023

### Time Log

Start Time	Dur (hr)	End Time	Code	Start Depth (ftKB)	End Depth (ftKB)	Com
06:00	1.00	07:00	72	4,995.0	4,995.0	Drill float / shoe. Float Collar at 4,880', Float Shoe at 4972'
07:00	0.25	07:15	34	4,995.0	5,005.0	Rotate, Wob 20/35, GPM 575, Diff 680/840, Spp 2800, Rpm 40/60, Trq 14/16K.
07:15	1.50	08:45	37	5,005.0	5,005.0	Circulate and condition, 8.9 ppg in/out. Perform Successful FIT to 12.1 ppg EMW with 8.9 Cut Brine
08:45	1.75	10:30	34	5,005.0	5,469.0	Rotate, Wob 20/35, GPM 575, Diff 680/840, Spp 2800, Rpm 40/60, Trq 14/16K.
10:30	0.25	10:45	35	5,469.0	5,490.0	Slide, Wob 30, Gpm 575, Diff 200/300, Spp 2100, TF 180.
10:45	0.25	11:00	34	5,490.0	5,568.0	Rotate, Wob 20/35, GPM 575, Diff 680/840, Spp 2800, Rpm 40/60, Trq 14/16K.
11:00	0.25	11:15	35	5,568.0	5,592.0	Slide, Wob 30, Gpm 575, Diff 200/300, Spp 2100, TF 160 L.
11:15	3.50	14:45	34	5,592.0	6,505.0	Rotate, Wob 20/35, GPM 575, Diff 680/840, Spp 2800, Rpm 40/60, Trq 14/16K.
14:45	0.25	15:00	35	6,505.0	6,523.0	Slide, Wob 30, Gpm 575, Diff 200/300, Spp 2100, TF 150 R
15:00	1.25	16:15	34	6,523.0	6,589.0	Rotate, Wob 20/35, GPM 575, Diff 680/840, Spp 2800, Rpm 40/60, Trq 14/16K.
16:15	0.50	16:45	41	6,589.0	6,589.0	Perform Rig Service
16:45	2.50	19:15	34	6,589.0	7,331.0	Rotate, Wob 20/35, GPM 575, Diff 680/840, Spp 2800, Rpm 40/60, Trq 14/16K.
19:15	1.00	20:15	8	7,331.0	7,331.0	Rig repair: change out IBOP actuator
20:15	0.50	20:45	34	7,331.0	7,351.0	Rotate, Wob 40, GPM 575, Diff 700/1000, Spp 3000, Rpm 40/50, Trq 15/17K.
20:45	0.75	21:30	35	7,351.0	7,373.0	Slide, Wob 40, Gpm 575, Diff 200, Spp 2200, TF 17.
21:30	0.25	21:45	67	7,373.0	7,373.0	Increase in flow, flow check (static), shut in on MPD to verify no pressure. Function and Recalibrate flow paddle.
21:45	0.50	22:15	34	7,373.0	7,440.0	Rotate, Wob 40, GPM 575, Diff 700/1000, Spp 3000, Rpm 40/50, Trq 15/17K.
22:15	0.50	22:45	35	7,440.0	7,458.0	Slide, Wob 40, Gpm 575, Diff 200, Spp 2200, TF 112.
22:45	2.75	01:30	34	7,458.0	7,811.0	Rotate, Wob 40, GPM 575, Diff 700/1000, Spp 3000, Rpm 40/50, Trq 15/17K.
01:30	0.75	02:15	35	7,811.0	7,841.0	Slide, Wob 40, Gpm 575, Diff 200, Spp 2200, TF 17.
02:15	3.75	06:00	34	7,841.0	8,260.0	Rotate, Wob 40, GPM 575, Diff 700/1000, Spp 3000, Rpm 40/50, Trq 15/17K.

### Mud Checks

Time 06:00	Mud Company Stellar Drilling Fluids LLC	Type Water Base	Depth (ftKB) 4,995.0	Dens (lb/gal) 8.85	Vis (s/qt) 29	PV OR (cP) 1.0	YP OR (lb/100) 3.000	Gel (10s) (lb/100) 2.000	Gel (10m) (lb/100) 3.000	Filtrate (mL/30m) 100.0
Percent Water (%) 94.0	pH 8.0	Salt (%)	Sand (%)	Chlorides (mg/L) 66,000.000	Percent Oil (%)	ECD - Manual Entry (lb/gal) 9.11	Solids (%) 6.0			



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Original KB Elevation (ft) 2,761.00	KB-Tubing Head Distance (ft)	Spud Date 10/8/2023 07:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB) Original Hole - 4,969.2

### Daily Operation: 10/19/2023 06:00 - 10/20/2023 06:00

Depth Progress (ft) 936.00	Drilling Hours (hr) 18.75	Circulating Hours (hr) 1.50	Avg ROP (ft/hr) 49.9	Contractor H&P	Rig Number 462	Daily Field Est Total (Cost) 86,110.53	Cum To Date (Cost) 1,179,860.28
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#### 24 Hour Summary

Current Operations: Tripping Ops - tripping out of hole 951'.

24 Hour Summary: Drill ahead in 8 3/4" Intermediate Section F/ 8,260' to 8,651', rig service, drill F/ 8,651' to 8,702', troubleshoot MWD, Drill F/ 8,702' to 9,196', ROP dropped off, Decision made to TOH, Circulate B/U, spot scavenger pill, pump slug, POOH F/ 9,196' to 951'.

Daily Footage: 936' in 18.75 hrs. at 50 FPH

Rotate: 825' in 12.75 hrs. at 65 FPH

Slide: 111' in 6 hrs. at 18 FPH

Slide 12%, Rotate 88%

Plan Forward: POOH, L/D 8 3/4" Intermediate Assembly (BHA#2), Pick up BHA #3, TIH, Drill 8 3/4" Intermediate Section as per plan #2 KOP at +/- 10,230'

T&C: 3 days under on days and 500k under on Costs.

EHS: No incidents, accidents or spills reported.

Next Full BOP Test Due: 11/07/2023

### Time Log

Start Time	Dur (hr)	End Time	Code	Start Depth (ftKB)	End Depth (ftKB)	Com
06:00	0.25	06:15	34	8,260.0	8,290.0	Rotate, Wob 30/45, GPM 575, Diff 300/400, Spp 2500, Rpm 30/55 , Trq 15/17K.
06:15	1.25	07:30	35	8,290.0	8,317.0	Slide, Wob 45 , Gpm 500, Diff 200/400, Spp 1850, TF 150R
07:30	0.75	08:15	34	8,317.0	8,385.0	Rotate, Wob 30/45, GPM 500, Diff 300/700, Spp 3000, Rpm 30/55 , Trq 15/17K.
08:15	0.75	09:00	35	8,385.0	8,404.0	Slide, Wob 45 , Gpm 500, Diff 200/400, Spp 1850, TF 180
09:00	3.25	12:15	34	8,404.0	8,650.0	Rotate, Wob 30/45, GPM 500, Diff 300/700, Spp 3000, Rpm 30/55 , Trq 15/17K.
12:15	0.50	12:45	41	8,650.0	8,650.0	Perform Rig Service
12:45	1.00	13:45	34	8,650.0	8,702.0	Rotate, Wob 30/40, GPM 475, Diff 300/900, Spp 2150, Rpm 30/50 , Trq 11/13K.
13:45	0.25	14:00	9	8,702.0	8,702.0	Downlink MWD to slower Data rate
14:00	1.75	15:45	34	8,702.0	8,853.0	Rotate, Wob 30/40, GPM 475, Diff 300/900, Spp 2150, Rpm 30/50 , Trq 11/13K.
15:45	0.75	16:30	35	8,853.0	8,879.0	Slide, Wob 45 , Gpm 475, Diff 150/300, Spp 2000, TF 150R
16:30	1.50	18:00	34	8,879.0	8,935.0	Rotate, Wob 30/40, GPM 475, Diff 300/900, Spp 2150, Rpm 30/50 , Trq 11/13K.
18:00	3.25	21:15	35	8,935.0	8,974.0	Slide, Wob 45 , Gpm 500, Diff 200/400, Spp 1850, TF 172L
21:15	4.25	01:30	34	8,974.0	9,196.0	Rotate, Wob 30/45, GPM 500, Diff 300/700, Spp 3000, Rpm 30/55 , Trq 15/17K.
01:30	1.50	03:00	37	9,196.0	9,196.0	Circulate B/U, monitor shakers (clean), pump scavenger pill, pump slug
03:00	3.00	06:00	38	9,196.0	9,196.0	POOH F/ 9,196' to 951'

### Mud Checks

Time 06:00	Mud Company Stellar Drilling Fluids LLC	Type Water Base	Depth (ftKB) 8,245.0	Dens (lb/gal) 9.20	Vis (s/qt) 29	PV OR (cP) 1.0	YP OR (lb/100) 3.000	Gel (10s) (lb/100) 2.000	Gel (10m) (lb/100) 3.000	Filtrate (mL/30m) 100.0
Percent Water (%) 94.0	pH 11.5	Salt (%)	Sand (%)	Chlorides (mg/L) 56,000.000	Percent Oil (%)	ECD - Manual Entry (lb/gal) 9.26	Solids (%) 6.0			



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API/UWI 42475384220000	Surface Legal Location SEC130-BLK2-T&P RR CO SRVY ABSTRAC	Field Name Spraberry (Trend Area)	Drilling Permit # 880948	State/Province TEXAS	Well Configuration Type Horizontal
Original KB Elevation (ft) 2,761.00	KB-Tubing Head Distance (ft)	Spud Date 10/8/2023 07:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB)

### Daily Operation: 10/20/2023 06:00 - 10/21/2023 06:00

Depth Progress (ft) 1,314.00	Drilling Hours (hr) 15.25	Circulating Hours (hr)	Avg ROP (ft/hr) 86.2	Contractor H&P	Rig Number 462	Daily Field Est Total (Cost) 102,708.52	Cum To Date (Cost) 1,282,568.80
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#### 24 Hour Summary

Current Operations: Drilling ahead in 8 3/4" Curve Section @ 10,510'

24 Hour Summary: Continue to POOH F/ 951' to BHA, L/down, motor(minimal gap play, motor made knocking noise while draining), Bit, Bit grade: 8-2-CR (missing 1 jet) P/up new motor, (couldn't remove set screw out of UBHO) P/up new UBHO, Scribe, orient, M/up new bit, Install MWD probe, TIH with Curve BHA to 4,820' pull trip nipple, Had to level mast to install rotating head, Continue to 8,968', Fill pipe and pick singles to replace collars not being run, wash down to 9,196', 1/2 hr Rig Service, Drill from 9,196' to 10,230' (KOP), Drill ahead in 8 3/4" Curve Section F/ 10,230' to 10,321'. Downlink - inability to obtain survey / poor decode. Drill ahead in 8 3/4" Curve Section F/ 10,321' to 10,510'.

Daily Footage: 1,314' in 15.25 hrs. at 86 FPH

Rotate: 1,057' in 9.50 hrs. at 114 FPH

Slide: 257' in 5.75 hrs. at 45 FPH

Slide 19%, Rotate 81%

NPT Total 8.25 Hours - 7.75 Hrs trip for bit failure, 0.5 Hrs Downlink due to inability to achieve survey.

Plan Forward: Drilling ahead in 8 3/4" Curve Section @ 10,510'

T&C: 3 days under on days and 500k under on Costs.

EHS: No incidents, accidents or spills reported.

Next Full BOP Test Due: 11/07/2023

### Time Log

Start Time	Dur (hr)	End Time	Code	Start Depth (ftKB)	End Depth (ftKB)	Com
06:00	0.50	06:30	5	9,196.0	9,196.0	Continue to TOH from 951' to BHA
06:30	2.25	08:45	40	9,196.0	9,196.0	L/dwn, motor(minimal gap play, motor made knocking noise while draining), Bit, Bit grade: 8-2-CR, (missing 1 jet) P/up new motor, (couldn't remove set screw out of UBHO) P/up new UBHO, Scribe, orient, M/up new bit, Install MWD probe,
08:45	2.00	10:45	5	9,196.0	9,196.0	TIH to 4820' Pull Trip nipple, attempt to install OPLA rotating head,
10:45	1.00	11:45	10	9,196.0	9,196.0	Level derrick-to aid in installing rotating head
11:45	2.00	13:45	5	9,196.0	9,196.0	Continue to TIH from 4820' to 8968' Fill pipe and pick singles to replace collars not being run, wash down to 9196'
13:45	0.50	14:15	41	9,196.0	9,196.0	Perform Rig Service
14:15	9.25	23:30	34	9,196.0	10,230.0	Rotate, Wob 40, GPM 550, Diff 500, Spp 2675, Rpm 45, Trq 14K.
23:30	2.75	02:15	35	10,230.0	10,321.0	Slide, Wob 45, Gpm 550, Diff 250, Spp 2230, TF 30
02:15	0.50	02:45	9	10,321.0	10,321.0	Downlink due to inability to obtain survey. Numerous recycle's to achieve valid survey.
02:45	2.75	05:30	35	10,321.0	10,472.0	Slide, Wob 45, Gpm 570, Diff 450, Spp 2600, TF 44
05:30	0.25	05:45	34	10,472.0	10,495.0	Rotate, Wob 40, GPM 550, Diff 550, Spp 2650, Rpm 45, Trq 12K.
05:45	0.25	06:00	35	10,495.0	10,510.0	Slide, Wob 45, Gpm 570, Diff 450, Spp 2600, TF 45

### Mud Checks

Time 06:00	Mud Company Stellar Drilling Fluids LLC	Type Water Base	Depth (ftKB) 9,196.0	Dens (lb/gal) 9.20	Vis (s/qt) 29	PV OR (cP) 1.0	YP OR (lb/100) 3.000	Gel (10s) (lb/100) 2.000	Gel (10m) (lb/100) 3.000	Filtrate (mL/30m) 100.0
Percent Water (%) 94.5	pH 11.5	Salt (%)	Sand (%)	Chlorides (mg/L) 51,000.000	Percent Oil (%) 0.0	ECD - Manual Entry (lb/gal)		Solids (%) 5.5		



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Original KB Elevation (ft) 2,761.00	KB-Tubing Head Distance (ft)	Spud Date 10/8/2023 07:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB)

### Daily Operation: 10/21/2023 06:00 - 10/22/2023 06:00

Depth Progress (ft) 530.00	Drilling Hours (hr) 9.25	Circulating Hours (hr)	Avg ROP (ft/hr) 57.3	Contractor H&P	Rig Number 462	Daily Field Est Total (Cost) 68,930.70	Cum To Date (Cost) 1,351,499.50
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#### 24 Hour Summary

Current Operations: Run 7 5/8" Intermediate CSG @ 2,523'

24 Hour Summary: Drill ahead in 8 3/4" Curve Section F/ 10,510' to 10,851' 1/2 hr Rig Service, Continue to Drill Curve Section from 10,851' to 11,040', Perform Vital Clean up Cycle, POOH F/ 11,040' to 10,100', pump slug, POOH F/ 10,100' to BHA, PJSM, Lay down 8 3/4" Intermediate / Curve assembly (BHA#3) Bit Grade 90,2,WT, PJSM, test fit landing joint, Make up float shoe, 2 joints of 7 5/8" 29.7# TL-SW, float collar, check floats (good). Run 24 joints of 7 5/8" 29.7# TL-SW, run 33 joints of 7 5/8" 29.7# HC L-80 to 2,523'.

Daily Footage: 530' in 9.25 hrs. at 57.3 FPH

Rotate: 25' in 1 hrs. at 25 FPH

Slide: 505' in 8.25 hrs. at 61.2 FPH

Slide 95.3%, Rotate 4.7%

NPT: 0.50 hrs Unsuccessful attempt at downlinking MWD

Plan Forward: Continue to run 7 5/8" Intermediate CSG to 11,020', L/D CSG equipment, Circ, R/U and pump cement as per plan, R/D cement iron, L/D landing joint / install packoff, nipple down, secure well

T&C: 2.5 days under on days and 375k under on Costs.

EHS: No incidents, accidents or spills reported.

Next Full BOP Test Due: 11/07/2023

### Time Log

Start Time	Dur (hr)	End Time	Code	Start Depth (ftKB)	End Depth (ftKB)	Com
06:00	1.00	07:00	35	10,510.0	10,569.0	Slide, Wob 45 , Gpm 570, Diff 450, Spp 2600, TF 45
07:00	0.25	07:15	34	10,569.0	10,573.0	Rotate, Wob 40, GPM 550, Diff 550, Spp 2650, Rpm 30 , Trq 12K.
07:15	1.25	08:30	35	10,573.0	10,644.0	Slide, Wob 60 , Gpm 570, Diff 425, Spp 2520, TF HS
08:30	0.50	09:00	9	10,644.0	10,644.0	Unsuccessful attempt at downlinking MWD
09:00	0.50	09:30	35	10,644.0	10,664.0	Slide, Wob 60 , Gpm 600, Diff 300/450, Spp 2780, TF HS
09:30	0.25	09:45	34	10,664.0	10,669.0	Rotate, Wob 40, GPM 550, Diff 550, Spp 2650, Rpm 30 , Trq 12K.
09:45	3.00	12:45	35	10,669.0	10,851.0	Slide, Wob 45 , Gpm 570, Diff 450, Spp 2600, TF HS
12:45	0.50	13:15	41	10,851.0	10,851.0	Perform Rig Service
13:15	1.00	14:15	35	10,851.0	10,928.0	Slide, Wob 60 , Gpm 600, Diff 300/450, Spp 2780, TF HS
14:15	0.50	14:45	34	10,928.0	10,944.0	Rotate, Wob 40, GPM 550, Diff 550, Spp 2650, Rpm 30 , Trq 12K.
14:45	1.50	16:15	35	10,944.0	11,040.0	Slide, Wob 60 , Gpm 600, Diff 300/450, Spp 2780, TF HS
16:15	3.00	19:15	37	11,040.0	11,040.0	Perform Vital Clean up Cycle, Intail: P/up 310, S/O 184, RT 218, TQ 10k, Final: P/up 287, S/O 190, RT 226, TQ 10k
19:15	4.50	23:45	38	11,040.0	11,040.0	POOH F/ 11,040' to 10,100', pump slug, POOH F/ 10,100' to BHA.
23:45	1.25	01:00	40	11,040.0	11,040.0	PJSM - Lay down BHA. Lay down 8 3/4" Intermediate / Curve Assembly (BHA#3). Bit Grade: 0,2,WT
01:00	2.00	03:00	45	11,040.0	11,040.0	Clean rig floor, PJSM, test fit landing joint, rig up CRT, CSG bales, elevators, slips, power tongs, TQ turn.
03:00	3.00	06:00	46	11,040.0	11,040.0	Make up float shoe, 2 joints of 7 5/8" 29.7# TL-SW, float collar, check floats (good). Run 24 joints of 7 5/8" 29.7# TL-SW, run 33 joints of 7 5/8" 29.7# HC L-80 to 2,523'.

### Mud Checks

Time 06:00	Mud Company Stellar Drilling Fluids LLC	Type Water Base	Depth (ftKB) 10,496.0	Dens (lb/gal) 9.10	Vis (s/qt) 28	PV OR (cP) 1.0	YP OR (lb/100) 3.000	Gel (10s) (lb/100) 2.000	Gel (10m) (lb/100) 3.000	Filtrate (mL/30m) 100.0
Percent Water (%) 94.5	pH 12.0	Salt (%)	Sand (%)	Chlorides (mg/L) 48,000.000	Percent Oil (%) 0.0	ECD - Manual Entry (lb/gal) 9.16	Solids (%) 5.5			



## Drilling Chron Partner Report

Well Name: UL EMPIRE 15-16 C 7TB

API/UWI 42475384220000	Surface Legal Location SEC130-BLK2-T&P RR CO SRVY ABSTRAC	Field Name Spraberry (Trend Area)	Drilling Permit # 880948	State/Province TEXAS	Well Configuration Type Horizontal
Original KB Elevation (ft) 2,761.00	KB-Tubing Head Distance (ft)	Spud Date 10/8/2023 07:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB)

### Daily Operation: 10/22/2023 06:00 - 10/23/2023 06:00

Depth Progress (ft) 0.00	Drilling Hours (hr)	Circulating Hours (hr)	Avg ROP (ft/hr)	Contractor H&P	Rig Number 462	Daily Field Est Total (Cost) 672,239.31	Cum To Date (Cost) 2,024,088.81
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#### 24 Hour Summary

Current Operations: No ops - Released to UL Empire 5TB

24 Hour Summary: Run a total of 155 joints of 7 5/8" 29.7# HC L-80 to 6,700'-tk wt. Wash/ream and work thru tight area at 6,700' with little to no returns, Run a total of 252 joints of 7 5/8" 29.7# HC L-80 to 11,020' Sweco confirmed landing, CBU with good returns at 4bpm, Perform successful Intermediate Cement Job with full returns 20bbls cement back to surface, ETOT: 9520' ETOL: Surface, Drop DVT cancellation cone, R/D cement iron, lay down landing joint / install packoff, test packoff 5,000 psi / 5 min (good test), nipple down, secure well, release to UL Empire 5TB @ 02:45 10/23/2023.

NPT: 1.75 hrs, Wash/ream and work through tight area at 6700' with little to no returns

Note: Notified TRRC Chris Operator #39 on up coming casing and cementing operations

Plan Forward: No ops - released to UL Empire 5TB

T&C: 3 days under on days and 400k under on Costs.

EHS: No incidents, accidents or spills reported.

Next Full BOP Test Due: 11/07/2023

### Time Log

Start Time	Dur (hr)	End Time	Code	Start Depth (ftKB)	End Depth (ftKB)	Com
06:00	3.00	09:00	46	11,040.0	11,040.0	Run a total of 155 joints of 7 5/8" 29.7# HC L-80 to 6,700'-tk wt.
09:00	1.75	10:45	36	11,040.0	11,040.0	Wash/ream and work thru tight area at 6700' with little to no returns
10:45	6.00	16:45	46	11,040.0	11,040.0	Run a total of 252 joints of 7 5/8" 29.7# HC L-80 to 11,020'
16:45	1.75	18:30	37	11,040.0	11,040.0	Circulating through Cmt head, with good returns and no losses, Rig down casing crew, Rig up Schlumberger Cmt standpipe PJSM while circulating
18:30	5.00	23:30	47	11,040.0	11,040.0	Conduct pressure test to 4,000 psi. Pump 40 bbls of dyed 8.3 ppg FW spacer, Lead: 359 bbls, 588 sks, 10.5 ppg, 3.54 yield, 22.07 gps, Tail: 57 bbls, 243 sks, 14.8 ppg, 1.33 yield, 6.35 gps. Displacement volume - 501.8 bbls FW, Bump plug at 2,721 psi, Inflate ACP with 4,578 psi, bleed off pressure, 0.5 bbl back, Check floats (Good).
23:30	0.75	00:15	47	11,040.0	11,040.0	Drop DVT closing bomb, wait 30 minutes. Cancel DV tool, pressure up to 1,845 psi.
00:15	0.25	00:30	52	11,040.0	11,040.0	Rig down Schlumberger, Flush surface lines & BOPE of cement
00:30	0.50	01:00	75	11,040.0	11,040.0	Remove landing joint / Install Packoff, test seals 5,000 psi for 5 min (good test), install set pins, remove setting tool
01:00	1.75	02:45	62	11,040.0	11,040.0	Nipple Down BOP. Secure well, release to UL Empire 5TB @ 02:45 10/23/2023.

### Mud Checks

Time 06:00	Mud Company Stellar Drilling Fluids LLC	Type Water Base	Depth (ftKB) 11,040.0	Dens (lb/gal) 9.00	Vis (s/qt) 28	PV OR (cP) 1.0	YP OR (lb/100) 3.000	Gel (10s) (lb/100) 2.000	Gel (10m) (lb/100) 3.000	Filtrate (mL/30m) 100.0
Percent Water (%) 95.0	pH 11.5	Salt (%)	Sand (%)	Chlorides (mg/L) 41,000.000	Percent Oil (%) 0.0	ECD - Manual Entry (lb/gal) 9.26		Solids (%) 5.0		