

WELL: UL LEIGHTON F 6H

**Hibernia Resources**

**DAILY OPERATIONS**

FIELD: SPRABERRY (TREND AREA)  
COUNTY/STATE: UPTON/TEXAS  
PTD: 16,202  
LOCATION: 1267 FEL & 2359 FSL  
ELEVATION (RKB): 2,732  
API #: 42-461-42037  
SERIAL NO:  
SPUD DATE: May 27 2022  
OBJECTIVE: Drill WCA Horizontal Well  
JOB NAME: Drilling

CONTRACTOR/RIG#: Ensign Drilling/Ensign # 786

May 28 2022 MD: 655 TVD: 655 FOOTAGE: 655 MW: 8.6 LB PTD: 16,202

RIG SUPERVISOR: MICHAEL RAWSON PBTD:

PRESENT OPERATIONS: TESTING ORBIT VALVE

WALK RIG FROM UL LEIGHTON E 5H TO UL LEIGHTON F6H;HOOK UP MUD AND AIR LINES, SET CELLAR PUMPS IN CELLAR, RIG CATWALK UP, SWAP HYDRAULIC LINES FROM WALKING PACKAGE TO RIG FLOOR, HOOK ELECTRICAL BACK UP TO RIG FLOOR, RECALIBRATE TOP DRIVE SET POINTS;RIG SERVICE;LATCH UP BHA FROM DERRICK;DRILL 17.5" SURFACE SECTION FROM 130' TO 655', TOTAL FOOTAGE:525'; AVG ROP: 131'; WOB: 15-35; RPM: 50; GPM: 450-750; SPP: 1100-1400 DIFF: 300-600; TQ: 15-19K; ROTATE: 4.0 HRS.; SLIDE: 0 HRS.

NOTIFIED IVY WITH TRRC OF INTENT TO SPUD AND CEMENT CASING AT16:13 ON 5-26-22;TAKE FINAL MWD SURVEY. PUMP 50 BBL HIGH VIS SWEEP AT TD AND CIR3X BU FOR HOLE CLEANING.;TOOH TO BHA;LAY DOWN NMDC AND STABILIZER, BREAK OUT BIT, LAY DOWN MOTOR;RIG UP PARKER WELLBORE CASING CREW;RUN 13.375" 54.5# J-55 BTC CASING AS FOLLOWS:

SHOE SET AT 640' = 1.40'  
1 CASING JOINT = 40.31  
TOP OF FLOAT COLLAR AT 597' = 1.30'  
14 CASING JOINTS = 562.30'  
CASING HANGER=1.40'  
LANDING JOINT= 37.7

CENTRALIZER PLACED ON SHOE JT W/ LOCK RING AND ACROSS COLLARS TO 235'. 8 TOTAL BOW SPRING CENTRALIZERS USED.

PLACED 2 CEMENT BASKETS @ 232' AND 435';RIG DOWN CASING CREW, RIG UP CEMENT HEAD TO CIRCULATE WITH RIG PUMP;CIRCULATE 1.5 CASING CAPACITY AT 6 BPM AND PERFORM PJSM WITH NINE ENERGY CEMENTERS;CEMENT 13 3/8" SURFACE CASING AS FOLLOWS:

PUMP 2 BBLS OF H2O AND TEST LINES TO 2200 PSI.  
25 BBLS OF FRESH H2O SPACER  
915 SKS - 220 BBLS OF 14.8 CLASS C CEMENT WITH 2% CACL2 + 0.25 LBS/SK CELLOFLAKE: 1.35 YIELD, 6.34 GPS  
DROP PLUG AND DISPLACE WITH 93 BBLS OF FRESH H2O. FCP AT 3.2 BPM- 330 PSI BUMP PLUG WITH 500 PSI OVER @ 830 PSI AND HELD FOR 5 MINS.  
BLED 0.5 BBL BACK TO TRUCK AND FLOATS HELD. 117 BBLS (490 SKS) CEMENT RETURNED TO SURFACE FULL RETURNS THROUGH JOB.;RIG DOWN CEMENT HEAD AND IRON WHILE FLUSHING CELLAR PUMPS AND FLOW LINE.;RIG DOWN CEMENT EQUIPMENT AND WASH UP CELLAR PUMPS AND SURFACE LINES. L/D LANDING JOINT, RIG DOWN CASING BAILS AND ELEVATORS;INSTALL WELLHEAD , TEST WELLHEAD TO 65K FOR 15 MINS- GOOD TEST;N/U BOPE. RAISE BOP STACK AND HOOK UP ACCUMULATOR LINES. INSTALL BLIND FLANGE ON CHOKE LINE. TEST CHOKE MANIFOLD, BACK TO PUMPS, AND FLOOR VALVES TO 250 PSI LOW AND 5,000 PSI HIGH FOR 5 MIN EACH WHILE NIPPLE UP BOPE. INSTALL CHECK VALVE ON KILL SIDE. HOOK UP TURNBUCKLES TO STACK. SET ACCUMULATOR AND HOOK UP LINES. FUNCTION TEST ACCUMULATOR.;INSTALL TEST PLUG WITH CACTUS AND ATTEMPT TO TEST BOP STACK. FLUID LEAKING OUT OF CASING VALVE. PULL TEST PLUG AND FOUND DOVETAIL SEAL DAMAGED. REPLACE SEAL AND RE-SET TEST PLUG. TEST UPPER PIPE RAMS, LOWER PIPE RAMS, HCR, MANUAL, INSIDE AND OUTSIDE KILL LINE VALVES, CHECK VALVE, AND BLIND RAMS TO 250 PSI LOW AND 5,000 PSI HIGH FOR 5 MIN EACH. TEST ANNULAR TO 250 PSI LOW AND 3,500 PSI HIGH FOR 5 MIN EACH. HOOK UP LINES TO ROTATING HEAD CLAMP AND ORBIT VALVE. INSTALL CHECK VALVE AND MANUAL 2" VALVE TO ROTATING HEAD BOWL.

ACTIVITY PLANNED: TEST CASING, FINISH INSTALLING FLOWLINE, M/U INTERMEDIATE BHA. DRILL OUT FLOAT EQUIPMENT AND BEGIN DRILLING 12.25" INTERMEDIATE SECTION.

WELL: UL LEIGHTON F 6H

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 JOB NAME: Drilling

CONTRACTOR/RIG#: Ensign Drilling/Ensign # 786

May 29 2022 MD: 3,285 TVD: 3,232 FOOTAGE: 2,630 MW: 10.1 LB PTD: 16,202

RIG SUPERVISOR: MICHAEL RAWSON PBTD:

PRESENT OPERATIONS: DRILLING 12.25" INTERMEDIATE SECTION @ 3285'

TEST CASING TO 500 PSI FOR 30 MINS- GOOD TEST;INSTALL WEAR BUSHING;INSTALL TRIP NIPPLE, INSTALL TURNBUCKLES ON STACK, CENTER BOP STACK;P/U 12.25" INTERMEDIATE BHA AS FOLLOWS:

- 12.25" HALLIBURTON (10X10'S) S/N 13723642
- 9.625" MPACT 7/8, 7.0, ADJ,@ 1.83° W/ 12.0 STAB FIT: +0.011 INT S/N96D372D-LE
- 11.75" STABILIZER W/ FLOAT S/N JAO 12601
- UBHO S/N GT8066847
- NMDC W/ MWD S/N DR37879 (ORIFICE 1.5, POPPET 1.160)
- NMDC S/N 49954
- FILTER SUB S/N DTI-FLS076
- NC56 X 6 5/8 REG X-O S/N DR49954

TEST MWD - GOOD;P/U 8" DRILL COLLAR SINGLES FROM 116' TO 300', TRIP IN HOLE WITH 2 STANDS OF 8" DRILL COLLARS, PICK UP 2 STANDS OF HWDP TO 518';RIG SERVICE AND PERFORM DROPS INSPECTION;WASH DOWN FROM 548' WITH 400 GPM AND 20 RPM, TQ 3500-4000 FT/LBS. TAG FLOAT COLLAR AT 596'. DRILL FLOAT COLLAR AT 596', CEMENT AND FLOAT SHOE TO 640". CLEAN OUT RAT HOLE DOWN TO 655'.;DRILL 12.25" INTERMEDIATE SECTION FROM 655' TO 1,289'; TOTAL FOOTAGE: 634'; AVG ROP: 158'; WOB: 30-40; RPM: 50-60; GPM: 650-800; SPP: 2700-3150  
 DIFF: 550-1000; TQ: 15-20K; ROTATE: 3 HRS.; SLIDE: 1.0 HRS.;PULL TRIP NIPPLE, INSTALL ROTATING HEAD;DRILL 12.25" INTERMEDIATE SECTION FROM 1,289' TO 2,542'; TOTAL FOOTAGE: 1,253'; AVG ROP: 192.8'; WOB: 30-40; RPM: 25-50; GPM: 800; SPP: 2800-3700  
 DIFF: 550-1000; TQ: 16-23K; ROTATE: 5.0 HRS.; SLIDE: 1.5 HRS.;DRILL 12.25" INTERMEDIATE SECTION FROM 2,542' TO 3,285'; TOTAL FOOTAGE: 743'; AVG ROP: 123.8'; WOB: 30-40; RPM: 40-50; GPM: 800; SPP: 3200-3700

DIFF: 550-1000; TQ: 16-24K; ROTATE: 3.5 HRS.; SLIDE: 2.5 HRS.

ACTIVITY PLANNED: CONTINUE DRILLING 12.25" INTERMEDIATE SECTION

WELL: UL LEIGHTON F 6H

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 JOB NAME: Drilling

CONTRACTOR/RIG#: Ensign Drilling/Ensign # 786

May 30 2022 MD: 6,344 TVD: 6,239 FOOTAGE: 3,059 MW: 8.9 LB PTD: 16,202  
 RIG SUPERVISOR: MICHAEL RAWSON PBTD:  
 PRESENT OPERATIONS: DRILLING 12.25" INTERMEDIATE @ 6,344'  
 DRILL 12.25" INTERMEDIATE SECTION FROM 3,285' TO 4,040'; TOTAL FOOTAGE:755'; AVG ROP: 125.8'; WOB: 30-40; RPM: 40-50; GPM: 800; SPP: 3200-3700  
 DIFF: 550-1000; TQ: 16-24K; ROTATE: 3.5 HRS.; SLIDE: 2.5 HRS.; DRILL 12.25" INTERMEDIATE SECTION FROM 4,040' TO 4,766'; TOTAL FOOTAGE:726'; AVG ROP: 121'; WOB: 30-40; RPM: 40-50; GPM: 800; SPP: 3200-3700  
 DIFF: 550-1000; TQ: 16-24K; ROTATE: 5.0 HRS.; SLIDE: 1.0 HRS.  
 DISPLACE TO SPRABERRY SLOP MUD AT 4,721'; DRILL 12.25" INTERMEDIATE SECTION FROM 4,766' TO 5,588'; TOTAL FOOTAGE:822'; AVG ROP: 137'; WOB: 40-44; RPM: 40-50; GPM: 800; SPP: 3000-3700  
 DIFF: 550-1000; TQ: 16-24K; ROTATE: 4.5 HRS.; SLIDE: 0.5 HRS.; DRILL 12.25" INTERMEDIATE SECTION FROM 5,588' TO 6,344'; TOTAL FOOTAGE:756'; AVG ROP: 137'; WOB: 40-42; RPM: 40-50; GPM: 750-800; SPP: 3200-3500  
 DIFF: 550-1000; TQ: 16-24K; ROTATE: 3.25 HRS.; SLIDE: 1.25 HRS.  
 ACTIVITY PLANNED: CONTINUE DRILLING 12.25" INTERMEDIATE TO CASING POINT +/- 7,875'

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CONTRACTOR/RIG#: Ensign Drilling/Ensign # 786

May 31 2022 MD: 7,829 TVD: 7,724 FOOTAGE: 1,485 MW: 9.0 LB PTD: 16,202

RIG SUPERVISOR: MICHAEL RAWSON PBTD:

PRESENT OPERATIONS: R/U CASING CREW TO RUN 9.625" INTERMEDIATE CASING

DRILL 12.25" INTERMEDIATE SECTION FROM 6,344' TO 7,065'; TOTAL FOOTAGE:721'; AVG ROP: 120'; WOB: 40-42; RPM: 40-50; GPM: 715-800; SPP: 3200-3500  
 DIFF: 550-1000; TQ: 16-24K; ROTATE: 3.25 HRS.; SLIDE: 1.5 HRS.

MWT 9.0-9.1 VIS 46;DRILL 12.25" INTERMEDIATE SECTION FROM 7,065' TO 7,744'; TOTAL FOOTAGE:679'; AVG ROP: 113'; WOB: 40-42; RPM: 40-50; GPM: 800; SPP: 3400-3500  
 DIFF: 550-1000; TQ: 16-24K; ROTATE: 5.0 HRS.; SLIDE: 1.0 HRS.

MWT 9.1-9.2 VIS 44;DRILL 12.25" INTERMEDIATE SECTION FROM 7,744' TO 7,829'; TOTAL FOOTAGE:85'; AVG ROP: 85'; WOB: 45; RPM: 40; GPM: 800; SPP: 3500  
 DIFF: 800; TQ: 24.5K; ROTATE: 1.0 HRS.; SLIDE: 0.0 HRS.

MWT 9.2 VIS 44;PUMP HI VIS SWEEP AT INTERMEDIATE SECTION TD7,829' AND CIRCULATE THE HOLE CLEAN WITH 2 B/U UNTIL SHAKERS CLEANED UP. CIRCULATE WITH795 GPM AND 60 RPM. PERFORM FLOW CHECK - WELL STATIC

\*\*\*NOTIFIED JESSICA OP #49 WITH TRRC OF INTENT TO RUN AND CEMENT INTERMEDIATE CASING AT14:08 HRS ON 5/30/22.\*\*\*;TRIP OUT OF THE HOLE FROM 7,829' TO 6,878' WET. PUMP SLUG AND CONTINUE TRIP OUT OF HOLE FROM 6,878' TO DIRECTIONAL BHA. PULLED ROTATING HEAD AND INSTALLED TRIP NIPPLE @ 1,381';LAY DOWN NMDC'S, PULL MWD, DRAIN MOTOR AND BREAK OUT BIT, LAY DOWN UBHO, STABILIZER AND MOTOR. BIT GRADED 1,3, BT, ER, IN GAUGE;PULL WEAR BUSHING;RIG SERVICE;HOLD PJSM WITH RIG CREW, PARKER WELLBORE CASING CREWS, INNOVEX TECH, AND PATRIOT THREAD REP. RIG UP CASING RUNNING EQUIPMENT.

ACTIVITY PLANNED: RUN CASING AND LAND @ 7,816', CIRCULATE, AND CEMENT IN PLACE. SET PACKOFF AND RELEASE RIG TO UL LEIGHTON E 5H.

WELL: UL LEIGHTON F 6H

Hibernia Resources

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Jun 1 2022 MD: 7,829 TVD: 7,724 FOOTAGE: MW: 10.0 LB PTD: 16,202

RIG SUPERVISOR: MICHAEL RAWSON PBTD:

PRESENT OPERATIONS: RIG RELEASED TO UL LEIGHTON E 5H

RUN 9.625" 40# BTC CASING TO 7,816' AS FOLLOWS: TQ CASING TO POSITION WITH 8000-8500 FT/LBS. RAN CENTRALIZERS ON FIRST 3 JOINTS AND EVERY 3RD JOINT TO 667'. TOTAL OF 54 CENTRALIZERS RAN.

FLOAT SHOE SET AT 7,816
2 - CASING JOINTS - 90.34'
FLOAT COLLAR SET AT 7,722.70'
58 - CASING JOINTS - 2,661.28'
CONTINGENCY SUB SET @ 5,060.12'
1 - CASING JOINTS - 44.26'
PACKER / DV TOOL ASSEMBLY SET AT 4996.35'
111 - CASING JOINTS - 4955.77'
MANDREL - 1.14'
LANDING JT - 35.65'

HAD DISPLACEMENT FROM SURFACE TO 3300'. INTERMITTENT RETURNS FROM 3300' TO LANDING AT 7816'. WASHED DOWN LAST 3 JTS. TO LANDING CASING.;CIRCULATE CASING CAPACITY AT 6.0 BPM. RIG DOWN CASING CREW. RIG UP CEMENT IRON TO FLOOR AND PERFORM PJSM. RIG DOWN CRT & LAY OUT. PERFORM PJSM WITH NINE ENERGY CEMENTERS.;RIG DOWN CRT AND RIG UP CEMENT HEAD.;INSTALL CEMENT HEAD AND LINES. PUMP 1ST STAGE AS FOLLOWS:

PRESSURE TEST LINES TO 4,500 PSI. PUMP 25 BBLS 8.34 PPG FRESH WATER SPACER. LEAD: 186 BBLS / 515 SX, 11.8 PPG, 2.03 YIELD, 50:50 (POZ:CLASS H) + 5% SALT BWOW + 7% BENTONITE + 0.5% CPT-19 + 0.4% CPT-503P + 1% CPT-43 + 0.5% CPT-25 TAIL: 52.9 BBLS / 250 SX, 15.6 PPG, 1.19 YIELD, CLASS H + 0.4% CPT-17 + 0.2% CPT-25 DROP PLUG AND DISPLACE WITH 585 BBLS 8.34 PPG FRESHWATER AT 8 BPM FCP AT 4.3BPM / 1020 PSI. BUMP PLUG WITH 500 ADDITIONAL PSI. PSI HELD - 1500 PSI;PRESSURE UP TO 2,390 PSI TO INFLATE PACKER. PRESSURE BLED TO 2,310 TOOK 0.5 BBLS TO INFLATE. BLED BACK 3.0 BBLS AND FLOATS HELD. DROP FREE FALL OPENING CONE AND LET FALL FOR 25 MIN. OPENED DV TOOL AT 604 PSI AND PUMP 50 BBLS FRESHWATER AT 6 BPM / 800 PSI WITH FULL RETURNS WITH CEMENT TRUCK.;PUMP 2ND STAGE AS FOLLOWS:

LEAD: 794.0 BBLS / 2,000 SX, 11.5 PPG, 2.23 YIELD, 50:50 (POZ:Class C) + 5% SALT BWOW + 4% BENTONITE +0.2% CPT-19 + 0.4% CPT-503P + 1% CPT-43 + 0.125 LB/SK CELLOFLAKE + 1.5 LB/SK KOLSEAL + 5% GYPSUM + 1.5 LB/SK BLITZ. TAIL: 43 BBLS / 180 SX, 14.8 PPG, 1.33 YIELD, CLASS C + 0.3% CPT-25 DROP PLUG AND DISPLACE WITH 379 BBLS 8.34 PPG FRESHWATER @ 8.3 BPM. SLOWED TO 4 BPM 20 BBLS PRIOR TO BUMPING. BUMP PLUG ON SCHEDULE WITH 960 PSI OVER FLP OF 1,340 PSI WITH 2,300 PSI @ 4 BPM AND CLOSED DV TOOL. BLED BACK 3 BBLS AND FLOW STOPPED CONFIRMING DV TOOL CLOSED. CIRCULATED 305 BBLS / 768 SX CEMENT TO SURFACE.;RIG DOWN CEMENTERS. FLUSH STACK AND FLOWLINE. L/D LANDING JT. L/D CASING ELEVATORS AND BAILS. P/U DP ELEVATORS.;M/U PACKOFF W/ CACTUS WELLHEAD TECH AND SET SAME. TEST SEALS TO 5,000 PSI AND PERFORM 40K OVERPULL TEST GOOD. L/D RUNNING TOOL.;N/D BOP STACK AND FLOWLINE. HAD ISSUES REMOVING 1 SET SCREW ON CACTUS DRILLING ADAPTER. PREPARE TO WALK RIG. INSTALL T/A CAP.

\*\*\*RIG RELEASED TO UL LEIGHTON E 5H @ 03:30 ON 6/1/22\*\*\*

WELL: UL LEIGHTON F 6H

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Jul 7 2022	MD:	TVD:	FOOTAGE:	MW: 0.0	LB	PTD: 16,202
	RIG SUPERVISOR:	LARRY HUTSON				PBTD:
	PRESENT OPERATIONS:	WALKING RIG 75' TO UL LEIGHTON F 6H				
		PREP TO WALK RIG. BREAK MUD LINE AND CHOKE LINE. UNPLUG ELECTRIC WIRES TO TROLLY BOX.;WALK RIG 75' FROM UL LEIGHTON C 3H TO UL LEIGHTON F 6H				
	ACTIVITY PLANNED:	NIPPLE UP/ BREAK TEST/ CHANGE OUT GRABBER BOX/ PICK UP CURVE BHA				

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CONTRACTOR/RIG#: Ensign Drilling/Ensign # 786

Jul 8 2022	MD: 8,060	TVD: 7,930	FOOTAGE: 231	MW: 10.1	LB	PTD: 16,202
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RIG SUPERVISOR:	LARRY HUTSON	PBTD:
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PRESENT OPERATIONS: DRILLING 8.75" CURVE SECTION FOLLOWING WELL PLAN V2

SKID RIG 75' FROM LEIGHTON C 3H TO THE LEIGHTON F 6H. REMOVE WELL CAP. CENTER RIG OVER HOLE.;LOWER STACK ONTO WELLHEAD, TORQUE WELL HEAD ADAPTER, INSTALL 75' CHOKELINE & MUD LINE EXTENSIONS. REMOVE BOP WRANGLER. INSTALL TURNBUCKLES. N/U FLOW LINE;MAKE UP TEST JT AND SET TEST PLUG. REPAIR WATER LINES AND HOOK UP WATER TO FILL STACK WITH WATER. TEST CHOKE LINE AND BREAK TEST AT BOP WELL HEAD ADAPTER 250 LOW/5000 PSI HIGH FOR 5 MIN EACH TEST. TEST MUD LINE FROM STAND PIPE MANIFOLD BACK TO MUD PUMPS TO 5000 PSI. RIG DOWN TESTERS.;INSTALL WEAR BUSHING AND MOUSEHOLE.;CHANGE GRABBER BOX ON TOP DRIVE AND FILL TOP DRIVE WITH HYDRALIC OIL.;SERVICE RIG AND TOP DRIVE. GREASE DRAWWORKS COUPLINGS. CALIBRATE BLOCK HEIGHT AND FLOOR SAVER.;PICK UP BHA#3 CURVE ASSEMBLY. MAKE UP MPACT MUD MOTOR - 4/5 7.0 FIXED AT 2.38 (2.39 ACT.) BIT TO BEND 4.48' (53.76") SLICK; MAKE UP 8.75" ULTERRA RPS613 BIT. SCRIBE AND INSTALL MWD. PICK UP 1 STAND D.P. AND TEST MWD AT 334 GPM'. TEST GOOD.;TEST CASING TO 1500 PSI. GOOD TEST.;TRIP IN THE HOLE F/97' T/4950'. TAKING DISPLACEMENT WATER OVERBOARD. INSTALL ROT HEAD AND HOOKUP SAME.;FILL PIPE. DRILL OUT CEMENT, DV TOOL ANI CONTINGENCY COLLAR. GPM'S-350 WOB-5/11 RPM'S-10 SPP-800 DIFF-50/350.

WASH CEMENT F/4950' T/4996'  
 DV TOOL @ 4996'

CONTINGENCY COLLAR @ 5060';TEST CASING TO 2000 PSI FOR 30 MIN. GOOD TEST.;TRIP IN THE HOLE F/5150' T/7660'. TAKING DISPLACEMENT WATER OVERBOARD.;DRILL OUT CEMENT, FC, SHOE, RATHOLE AND 10' OF FORMATION. GPM'S-350 RPM'S-10 WOB-10/12 SPP-900 DIFF-100/350. DISPLACE WATER OUT WITH 10.2 OBM.

START WASHING CEMENT @ 7660'  
 FLOAT COLLAR @ 7723'  
 SHOE@ 7814'

DRILL OUT RATHOLE AND 10' OF FORMATION TO F/7814 T/7839';CIRCULATE TO CLEAN HOLE AND CONDITION MUD FOR F.I.T TEST. GPM'S-486 SPP-2150 RPM'S-10 TQ-6K.

SHUT WELL IN AND PERFORM F.I.T TEST. EMW-12.3 CMW-10.15 TVD-7735' TEST PSI-864. GOOD TEST.;DRILL 8.75" VERTICAL SECTION FROM 7,839 TO 7,897' FOOTAGE: 58'; ROP: 58'/HR, WOB: 25K; RPM: 20; TQ: 8K; GPM: 550, ROTATE 1.0 HRS, SLIDE 0.0HRS, SPP: 3325-3350, DIFF: 550-700;  
 MW - 10.1 PPG VIS - 57;DRILL 8.75" CURVE SECTION FROM 7,897 TO 8060' FOOTAGE: 163'; ROP: 65'/HR, WOB: 25/30K; RPM: 20; TQ: 9/11K; GPM: 550, ROTATE 2.0HRS, SLIDE 0.5HRS, SPP: 3400-3550, DIFF: 550-700;  
 MW - 10.1 PPG VIS - 57

ACTIVITY PLANNED: CONT. DRILLING CURVE SECTION TO LANDING POINT. PERFORM CLEAN UP CYCLE. TOOH.

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Jul 9 2022 MD: 8,795 TVD: 8,260 FOOTAGE: 735 MW: 10.2 LB PTD: 16,202

RIG SUPERVISOR: LARRY HUTSON PBTD:

PRESENT OPERATIONS: DRILLING AHEAD IN 8.5" LATERAL SECTION

DRILL 8.75" CURVE SECTION FROM 8,060' TO 8,670' FOOTAGE: 610'; ROP: 93.8'/HR, WOB: 35/65K; RPM: 20; TQ: 9/11K; GPM: 555, ROTATE 2.0HRS, SLIDE 4.5 HRS, OFF BTM SPP: 2683, ON BTM PSI: 3380-3490, DIFF: 700-900; MW - 10.0 PPG VIS - 55

CURVE LANDED. PROJECTED 88.4 DEG. AZM 176.00, 13' ABOVE AND 35' RIGHT.;CIRCULATE HOLE CLEAN TO PULL OUT OF HOLE FOR LATERAL ASSY . CIRCULATE 2 BOTTOMS UP UNTIL SHAKERS CLEAN. CIRCULATE WITH GPM-558, RPM-20, TQ-7-8, SPP-2540/2640. WHILE RECIPROCATING PIPE. FLOW CHECK. WELL STATIC.;PULL OUT OF HOLE FROM 8,670' TO 7,843'. PUMP SLUG AND CONTINUE POOH FROM 7,843' TO BHA. HOLE TAKING CORRECT FILL. PULL ROT HEAD AND INSTALL TRIP NIPPLE.;HPJSM ON BHA WITH SSE HAND. CLEAN UP RIG FLOOR.;LAY DOWN FLEX COLLAR, MWD TOOL, BIT AND MOTOR.;Pick Up Lateral Motor & Scribe, Orient UBHO, Make Up Monel & Install MWD, Test MWD, Make Up Bit

BHA #4

8-1/2" Ultrerra SPL616 (.77 TFA),

7" Mpack Motor - 7/8, 6.9 FXD @ 1.83° \_ True Slick

Float Sub

UBHO - with a Benchtree Mud pulse tool with a 1.160 poppet, 1.35 orifice, set at a 1.0 pulse rate.

Two Monel Collars

Filter SUB

27 STDS OF 5" DRILL PIPE

DWS Powerglide Agitator with a 1.25 Plate"

64 STDS OF 5" DRILL PIPE

8 STDS OF 5" HWDP;TRIP IN THE HOLE F/103' T/7799' . TAKING PROPER DISPLACEMENT TO THE TRIPTANK. AGITATOR TEST BEFORE 2250 PSI. AFTER TEST 2850 PSI. 600 PRESSURE DROP.;SLIP AND CUT 17 WRAPS OF DRILL LINE.;RIG SERVICE. ADD OIL TO TOP DRIVE. GREASE TOP DRIVE AND DRAWWORKS.;TRIP IN THE HOLE F/7799' T/8670' . TAKING PROPER DISPLACEMENT TO THE TRIPTANK. TIGHT SPOT AT 8257'. HIGH SIDE AND WASH THROUGH.;DRILL 8.5" LATERAL SECTION FROM 8,670' TO 8,795' FOOTAGE: 125'; ROP: 125'/HR, WOB: 40/42K; RPM: 60; TQ: 17/19K; GPM: 650, ROTATE 1.0HRS, SLIDE 0 HRS, OFF BTM SPP: 4000, ON BTM PSI: 4700-4900, DIFF: 700-900; MW - 10.1 PPG VIS - 56

ACTIVITY PLANNED: CONT. DRILLING AHEAD IN 8.5" LATERAL SECTION FOLLOWING WELL PLAN V2

WELL: UL LEIGHTON F 6H

**Hibernia Resources**

**DAILY OPERATIONS**

FIELD: SPRABERRY (TREND AREA)  
 COUNTY/STATE: UPTON/TEXAS  
 PTD: 16,202  
 LOCATION: 1267 FEL & 2359 FSL  
 ELEVATION (RKB): 2,732  
 API #: 42-461-42037  
 SERIAL NO:  
 SPUD DATE: May 27 2022  
 OBJECTIVE: Drill WCA Horizontal Well  
 JOB NAME: Drilling

CONTRACTOR/RIG#: Ensign Drilling/Ensign # 786

Jul 10 2022 MD: 12,223 TVD: 12,166 FOOTAGE: 3,428 MW: 10.1 LB PTD: 16,202

RIG SUPERVISOR: LARRY HUTSON PBTD:

PRESENT OPERATIONS: DRILLING 8.5" LATERAL SECTION FOLLOWING WELL PLAN V2

DRILL 8.5" LATERAL SECTION FROM 8,795' TO 9,624 ' FOOTAGE: 829'; ROP: 138'/HR, WOB: 40/45K; RPM: 60; TQ: 22/24K; GPM: 650-598, ROTATE 4.5 HRS, SLIDE 1.5 HRS, OFF BTM SPP: 3400, ON BTM PSI: 4387-4400, DIFF: 730-1000; MW - 10.0 PPG VIS - 56

#1 PUMP DOWN CHANGE LINER & SWAB. 10:30 - 14:00;DRILL 8.5" LATERAL SECTION FROM 9,624' TO 10,492 ' FOOTAGE: 868'; ROP: 144.6'/HR, WOB: 40/45K; RPM: 60; TQ: 18/23K; GPM: 598-650, ROTATE 4.5 HRS, SLIDE 1.5 HRS, OFF BTM SPP: 3860, ON BTM PSI: 4850-5070, DIFF: 800-1000; MW - 10.0 PPG VIS - 56

#2 PUMP DOWN CHANGE SWAB. 16:30;DRILL 8.5" LATERAL SECTION FROM 10,492' TO 11,137 ' FOOTAGE: 645'; ROP: 129'/HR, WOB: 40/45K; RPM: 60; TQ: 18/23K; GPM: 650, ROTATE 3.5 HRS, SLIDE 1.5 HRS, OFF BTM SPP: 4000, ON BTM PSI: 4750-4950, DIFF: 750-950; MW - 10.0 PPG VIS - 56;RIG SERVICE.;DRILL 8.5" LATERAL SECTION FROM 11,137' TO 12,223' FOOTAGE: 1,086'; ROP: 167'/HR, WOB: 40/45K; RPM: 60; TQ: 18/23K; GPM: 650, ROTATE 5.0 HRS, SLIDE 1.5 HRS, OFF BTM SPP: 4000, ON BTM PSI: 4750-4950, DIFF: 750-950; MW - 10.0 PPG VIS - 56

\*\*\*WINDOW SHIFT @ 00:06 HRS 10' UP 28' DOWN FROM PLAN 2\*\*\*

ACTIVITY PLANNED: CONT. DRILLING AHEAD TOWARDS TD @ +/-16,106'

WELL: UL LEIGHTON F 6H

**Hibernia Resources**

**DAILY OPERATIONS**

FIELD: SPRABERRY (TREND AREA)  
COUNTY/STATE: UPTON/TEXAS  
PTD: 16,202  
LOCATION: 1267 FEL & 2359 FSL  
ELEVATION (RKB): 2,732  
API #: 42-461-42037  
SERIAL NO:  
SPUD DATE: May 27 2022  
OBJECTIVE: Drill WCA Horizontal Well  
JOB NAME: Drilling

CONTRACTOR/RIG#: Ensign Drilling/Ensign # 786

Jul 11 2022 MD: 16,106 TVD: 8,251 FOOTAGE: 3,883 MW: 10.0 LB PTD: 16,202

RIG SUPERVISOR: LARRY HUTSON PBTD:

PRESENT OPERATIONS: PERFORMING CLEAN UP CYCLE @ TD OF 16,106'

DRILL 8.5" LATERAL SECTION FROM 12,223' TO 13,577' FOOTAGE: 1,354'; ROP: 225'/HR, WOB: 43/46K; RPM: 60-62; TQ: 23/25K; GPM: 650, ROTATE 4.75 HRS, SLIDE 1.25 HRS, OFF BTM SPP: 4122, ON BTM PSI: 5100-5200, DIFF: 800-920;

MW - 10.0 PPG VIS - 48; DRILL 8.5" LATERAL SECTION FROM 13,577' TO 14,691 ' FOOTAGE: 1,114'; ROP: 185'/HR, WOB: 43/46K; RPM: 60-62; TQ: 23/25K; GPM: 650-625, ROTATE 4.75 HRS, SLIDE 1.25 HRS, OFF BTM SPP: 4090, ON BTM PSI: 5350-5400, DIFF: 850-950; MW - 10.0 PPG VIS - 49

\*\*\*WINDOW SHIFT AT 17:52 HRS 24' UP 14' DOWN FROM PLAN 2\*\*\*; DRILL 8.5" LATERAL SECTION FROM 14,691' TO 15,570 ' FOOTAGE: 879'; ROP: 159'/HR, WOB: 43/46K; RPM: 60-62; TQ: 23/25K; GPM: 650-625, ROTATE 4.0 HRS, SLIDE 1.5 HRS, OFF BTM SPP: 4090, ON BTM PSI: 5350-5400, DIFF: 850-950; MW - 10.0 PPG VIS - 49; RIG SERVICE.; DRILL 8.5" LATERAL SECTION FROM 15,570' TO 16,106 ' FOOTAGE: 536'; ROP: 119'/HR, WOB: 43/46K; RPM: 60-62; TQ: 23/25K; GPM: 650-625, ROTATE 2.5 HRS, SLIDE 2.0 HRS, OFF BTM SPP: 4090, ON BTM PSI: 5350-5400, DIFF: 850-950; MW - 10.0 PPG VIS - 49

\*\*\*CHANGE GASKET OUT ON STANDPIPE\*\*\*

\*\*\*CHANGE OUT 3 SWABS AND 1 LINER\*\*\*

\*\*\*CHANGE OUT 3 BROKE SWAB RODS\*\*\*; PERFORM CLEAN UP CYCLE WITH 650 GPM'S AND 90 RPMS WHILE RECIPROCATING PIPE. STARTED WITH 4,825 PSI. AND 12/13K TORQUE.

ACTIVITY PLANNED: CIRC/ FLOW CHECK/ TOO/ LAY DOWN BHA/ RIG UP AND RUN 5.5" CSG.

WELL: UL LEIGHTON F 6H

**Hibernia Resources**

**DAILY OPERATIONS**

FIELD: SPRABERRY (TREND AREA)  
COUNTY/STATE: UPTON/TEXAS  
PTD: 16,202  
LOCATION: 1267 FEL & 2359 FSL  
ELEVATION (RKB): 2,732  
API #: 42-461-42037  
SERIAL NO:  
SPUD DATE: May 27 2022  
OBJECTIVE: Drill WCA Horizontal Well  
JOB NAME: Drilling

CONTRACTOR/RIG#: Ensign Drilling/Ensign # 786

Jul 12 2022 MD: TVD: FOOTAGE: MW: 10.1 LB PTD: 16,202

RIG SUPERVISOR: LARRY HUTSON PBTD:

PRESENT OPERATIONS: RUNNING 5.5" PROD. CSG

PERFORM CLEAN UP CYCLE AT WELL TD WITH 650 GPM'S AND 90 RPM'S WHILE RECIPROCATING PIPE. STARTED WITH 4,825 PSI. AND 12/13K TORQUE. FINISH CIRCULATION WITH 4740 PSI AND 11/12k TORQUE. CIRCULATED 5+ BOTTOMS UP WITH SHAKERS CLEAN.;FLOW CHECK (WELL STATIC) PULL OUT OF HOLE TO RUN PRODUCTION CASING. PULL OUT OF HOLE FROM 16,106' TO 15,152' WET WITH NO ISSUES. HOLE TAKING CORRECT FILL. PUMP SLUG. CONTINUE TOOH FROM 15,152' TO DIRECTIONAL BHA. NO ISSUES WHILE TRIPPING OUT OF HOLE.

\*\*\*24 HR NOTIFICATION TO TRRC FOR RUN AND CEMENT PRODUCTION CASING. SPOKE TO VIVIAN AT 14:00 HRS ON 7/11/22.\*\*\*;LAY DOWN FILTER SUB, 2 MONELS, MWD TOOL, UBHO, FLOAT SUB, MOTOR AND BIT.;DRAIN STACK AND PULL WEAR BUSHING.;RIG SERVICE. ADD OIL TO TOP DRIVE. GREASE TOP DRIVE AND DRAWWORKS.;HPJSM WITH TRK CASING CREW, TORQUE TURN, SUPERIOR THREAD REPS AND ENSIGN RIG CREW. RIG UP TO RUN 5.5" CDC HTQ PROD. CSG;MAKE UP SHOE TRACK AND PUMP THROUGH FLOATS. TQ CASING TO 15,700 FT/LBS WITH DIAMOND TO POSITION. RAN 11 X 5" X 8" SB CENT. EVERY OTHER JT FROM BASE CURVE 8659' BACK TO TOP CURVE AT 7902'. RAN 48 X 5' X 8' SB CENT. EVERY THIRD JT. FROM 7807' BACK TO 1200'  
RUN 5.5" - 20# - CDC HTQ P-110 CASING AS FOLLOW TO 16,091'  
INNOVEX FLOAT SHOE-1.80' SET AT 16,091'  
1 - JT CASING-47.28'  
INNOVEX FLOAT COLLAR-1.80' SET AT 16,041.92'  
1 - JT CASING-47.29'  
INTERRA TOE SLEEVE-1.87' SET AT 15,992.83'  
190 - JTS CASING - 8,184.86'  
FLOTATION SUB-1.92' SET AT 7,807.97'  
4 JTS CASING-188.99'  
MARKER JT-14.74' SET AT 7,617.06'  
164 JTS CASING-7,523.64'  
MANDREL-1.80'  
LANDING JT-35.70' 4.41' ABOVE RKB

RUNNING CSG @ 10,000' @ REPORT TIME.

ACTIVITY PLANNED: RUN PROD. CASING TO BOTTOM/ BURST ALS AND CIRC CSG CAPACITY/ RIG UP CEMENTERS AND CEMENT

WELL: UL LEIGHTON F 6H

Hibernia Resources

DAILY OPERATIONS

FIELD: SPRABERRY (TREND AREA)
COUNTY/STATE: UPTON/TEXAS
PTD: 16,202
LOCATION: 1267 FEL & 2359 FSL
ELEVATION (RKB): 2,732
API #: 42-461-42037
SERIAL NO:
SPUD DATE: May 27 2022
OBJECTIVE: Drill WCA Horizontal Well
JOB NAME: Drilling

CONTRACTOR/RIG#: Ensign Drilling/Ensign # 786

Jul 13 2022 MD: TVD: FOOTAGE: MW: 0.0 LB PTD: 16,202

RIG SUPERVISOR: LARRY HUTSON PBTD:

PRESENT OPERATIONS: RELEASE RIG @ 01:30 ON 7/13/22

CONTINUE RUNNING CASING FROM 10,000' TO LANDING AT 16,091'. TO CASING TO 15,700 FT/LBS WITH DIAMOND TO POSITION. RAN 11 X 5" X 8" SB CENT. EVERY OTHER JT FROM BASE CURVE 8659' BACK TO TOP CURVE AT 7902'. RAN 48 X 5' X 8' SB CENT. EVERY THIRD JT. FROM 7807' BACK TO 1200'

RUN 5.5" - 20# - CDC HTQ P-110 CASING AS FOLLOW TO 16,091'

INNOVEX FLOAT SHOE-1.80' SET AT 16,091'

1 - JT CASING-47.28'

INNOVEX FLOAT COLLAR-1.80' SET AT 16,041.92'

1 - JT CASING-47.29'

INTERRA TOE SLEEVE-1.87' SET AT 15,992.83'

190 - JTS CASING - 8,184.86'

FLOTATION SUB-1.92' SET AT 7,807.97'

4 JTS CASING-188.99'

MARKER JT-14.74' SET AT 7,617.06'

164 JTS CASING-7,523.64'

MANDREL-1.80'

LANDING JT-35.70' 4.41' ABOVE RKB;RIG DOWN TRK CASING CREW EQUIPMENT. RIG UP CASING SWEDGE AND VALVES , CEMENTING IRON TO STAND PIPE TO RUPTURE DISC, BLEED AND FILL CASING.;PRESSURE UP TO 1553 PSI ON CASING WITH RIG PUMPS AND RUPTURE FLOTATION SUB DISC. PUMP AT 3 BPM AND SWAP OUT AIR WITH MUD. PUMPED 184 BBLS TO FILL PIPE. CLOSE IN BLEED LINE AND CIRCULATE AT 7.5 BPM AND 546 PSI. CIRCULATE A FULL CASING CAPACITY AT 7.5 BPM. HELD PRE JOB SAFETY MEETING WITH NINE ENERGY CEMENTERS AND RIG CREW FOR RIG UP AND CEMENT CASING;RIG DOWN CASING SWEDGE AND RIG UP NINE ENERGY CEMENT HEAD AND LINES.;CEMENT 5.5" PRODUCTION CASING AS FOLLOWS: TEST LINES TO 10,000 PSI

PUMP 50 BBLS 10.6 PPG TUNED SPACER AT 7.0 BBL/ MIN

PUMP 400 BBLS (945 SKS) 11.3 PPG LEAD CEMENT AT 7.0 BPM: ( CPT-TRIDENT 5%ACT ONE+5%B GEL +0.45%CPT-30+0.1%CPT-51A+0.15%CPT-25

PUMP 416 BBLS (1705 SKS) 13.5 PPG TAIL CEMENT AT 7.0 BPM: 35:65 (35/65 POZ 4% B GEL +0.2%CPT-19+0.4%CPT-30+0.1%CPT-51A+CPT-25

PUMP 10 BBLS FRESH WATER WITH CEMENT RETARDER AHEAD OF TOP PLUG. WASH UP TO RESERVE PIT.

DROP TOP PLUG & PUMP 10 BBLS FRESH WATER WITH RETARDER. CONTINUE TO PUMP 345 BBLS FRESH WATER WITH CORROSION INHIBITOR

PUMP DISPLACEMENT OF 355 BBLS WITH FINAL CIRCULATING PSI AT 2000 PSI AT 4.0 BPM. BUMP PLUG WITH 800 PSI OVER TO 2800 PSI. PLUG DOWN AT 20:05 PM

bled back 3.5 BBLS, FLOATS HELD . RETURNED 91 BBLS CEMENT TO SURFACE.;FLUSH STACK WITH SUGAR WATER AND RIG DOWN CEMENTERS.;RIG SERVICE. FINISH UP REPLACING SHOT PIN ON TOP DRIVE.;BACK OUT LANDING JOINT AND LAY DOWN. PICK UP PACKOFF SETTING TOOL AND MAKEUP. SET PACKOFF. HAD PROBLEM GETTING SET ON FIRST ATTEMPT. CLEANED OUT MORE AND RESET. TEST SEAL TO 5000 PSI. GOOD TEST. PULL TEST 40K. GOOD TEST. BACK OUT OF PACKOFF AND LAY DOWN RUNNING TOOL. INSTALL BPV.;REMOVE FLOWLINE AND NIPPLE DOWN BOP'S. BOP HANDLER UNABLE TO LIFT BOP'S. CHECK LOCKDOWN DOGS AND TROUBLESHOOT PROBLEM. FOUND THAT SHIPPING PIN HAD BEEN ENGAGED NOT ALLOWING IT TO PICK UP OVER A CERTAIN POINT.;INSTALL TA CAP, TIGHTEN DOWN AND TEST.

\*\*\*RELEASE RIG @ 01:30 ON 7/13/22\*\*\*

ACTIVITY PLANNED: PREP AND WALK RIG 25' TO UL LEIGHTON E 5H