

WELL: UL DARBY A 1H

Hibernia Resources

DAILY OPERATIONS

FIELD: SPRABERRY (TREND AREA)
COUNTY/STATE: UPTON/TX
PTD: 23,115
LOCATION: Sec 6, Blk 3, A-U6, UL Survey
ELEVATION (RKB): 2,672
API #: 42-461-42362
SERIAL NO:
SPUD DATE:
OBJECTIVE: Drill WC Horizontal Well
JOB NAME: Drilling

CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Feb 15 2023	MD: 120	TVD: 120	FOOTAGE: 120	MW: 0.0	LB	PTD: 23,115
	RIG SUPERVISOR:	Frank Calhoun				PBTD:
	PRESENT OPERATIONS:	Preparing for rig move to UL Darby pad. 40% rigged down 0% moved 0% set-in 0% rigged up.				
		Rig down and prepare for rig move to UL Darby pad. Continue washing rig and sub for rig move. 40% rigged down 0% moved 0% set-in 0% rigged up				
	ACTIVITY PLANNED:	Perform rig inspection as per Cactus Drilling prior to RU. MIRU on UL Darby A 1H. Spud well.				

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Feb 16 2023	MD: 120	TVD: 120	FOOTAGE:	MW: 0.0	LB	PTD: 23,115
	RIG SUPERVISOR:	Frank Calhoun				PBTD:
	PRESENT OPERATIONS:	Washing subs and derrick on old location to prep for inspection. 95% rigged down 50% moved 10% set-in 0% rigged up.				
		Begin hauling loads from Brynn pad to UL Darby pad. Hauled 60 loads. Hauling OBM from Brynn Pad to the UL Darby pad				
		95% rigged down 50% moved 10% set-in 0% rigged up.;Washing subs and derrick pieces on old location to prepare for inspection.				
	ACTIVITY PLANNED:	Continue moving rig to UL Darby pad. Conduct inspection as per Cactus Drilling. RU on UL Darby A 1H.				

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CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Feb 17 2023 MD: 120 TVD: 120 FOOTAGE: MW: 0.0 LB PTD: 23,115

RIG SUPERVISOR: Joe Wenninger PBTD:

PRESENT OPERATIONS: RU on UL Darby A 1H

Finish rig down on Brynn pad. Move rig and start rigging up on UL Darby A 1H. 46 loads hauled today.
Conduct Cactus Inspection. Repair bent & damaged beams on subbase.
Finish hauling OBM from Brynn Pad to the UL Darby pad.

100% rigged down | 100% moved | 30% set-in | 10% rigged up.

ACTIVITY PLANNED: Continue RU on UL Darby A 1H

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Feb 18 2023 MD: 120 TVD: 120 FOOTAGE: MW: 0.0 LB PTD: 23,115

RIG SUPERVISOR: Joe Wenninger PBTD:

PRESENT OPERATIONS: Performing rig repairs.

Continue R/U mud pits and gen set.

Conduct Cactus Inspection & Repairs (repair bent & damaged beams on subbase, replace valves on rig water tank, remove 2" jets from mud pit for repair, prep mud pump #1 to be replaced, repair repair gate calves & equalizer valves on mud pits, install man rider on crown).

Estimated completion time with rig repairs & inspections at 1200 hrs on 2/18/23

30% set-in | 20% rigged up.

ACTIVITY PLANNED: Continue Cactus inspection & repairs. Continue R/U on UL Darby A 1H.

WELL: UL DARBY A 1H

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JOB NAME: Drilling

CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Feb 19 2023 MD: 120 TVD: 120 FOOTAGE: MW: 8.4 LB PTD: 23,115

RIG SUPERVISOR: Joe Wenninger PBTD:

PRESENT OPERATIONS: Rigging up on UL Darby A 1H. Will resume cranes operations at daylight.

Finish Cactus inspection and repairs at 14:00 hrs. Continue rigging up: Stack sub structure, Install center steel, Koomy / HPU skid, DS dog house, drawworks & water tanks. Replace & dress out #1 mud pump. Raise wire tray extension & connect wires to rig floor. RU gas buster & flow line extension skid. Unload, clean, drift & tally 13-3/8" surface casing.

Rig 100% moved | 75% set in | 60% rigged up.

ACTIVITY PLANNED: Finish rigging up. Set & pin derrick. Dress out & raise derrick. Install TDS. Set ST- 80. Set gel & barite tanks. Finish misc RU. Perform Pre spud inspection. PU 17.5" surface BHA.

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CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Feb 20 2023 MD: 120 TVD: 120 FOOTAGE: MW: 8.4 LB PTD: 23,115

RIG SUPERVISOR: Joe Wenninger PBTD:

PRESENT OPERATIONS: RU while waiting on Veristic Engineer to arrive for derrick inspection.

Continue rigging up: Set ODS dog house, wireline spool, ST-80. Set and pin derrick. String up block & dress derrick. Attempt to raise derrick. ODS derrick cylinder gave way while raising derrick from stands resulting in derrick descending to rest on derrick stand.;Continue misc. RU while waiting on Veristic Engineer to arrive on location for derrick inspection (Veristic Engineer ETA 10:00 am).
Rig up back yard transfer pumps, set & rig up circulating trough. Lay out & prep panic & flare line. Fill pits & water tanks with FW.

ACTIVITY PLANNED: Finish derrick inspection. Raise derrick. Prep rig floor. Perform Pre spud inspection. PU 17.5" surface BHA.

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Feb 21 2023 MD: 120 TVD: 120 FOOTAGE: MW: 8.4 LB PTD: 23,115

RIG SUPERVISOR: Joe Wenninger PBTD:

PRESENT OPERATIONS: Preparing derrick to be raised after daylight.

Continue misc. RU while waiting on Veristic Engineer to arrive on location for derrick inspection (Veristic Engineer arrived on location at 10:00 am).

Run out mud pumps, Issue with #1 mud pump. Troubleshoot & repair mud pumps. Replace belts on #2 mud pump.;Inspect derrick with Veristic Engineer. Extend ODS derrick raising cylinder & caliper 18" & 14" cylinder shaft with Premium Engineer. No issue with cylinder caliper.;Buff & remove paint from derrick welds & ODS raising cylinder to prep for inspection while waiting on Welder Inspector to arrive to inspect welds on derrick & ODS derrick raising cylinder (Welder Inspector arrived on location at 22:00 hrs).;Inspect welds on lower mast with Welder Inspector. No issues with welds.;Raise derrick 1' from stand, ODS raising cylinder bled off lowering derrick back onto stand. Remove & inspect hyd hoses & connections on HPU manifold with Cactus Mechanics. Reinstall hose to HPU manifold. Raise derrick 1' from derrick stand and monitor for 10 minutes. No issues, ODS cylinder held. Remove middle stand from under derrick & lower derrick to 3" above short stand.;Dress derrick and prep to raise while monitoring ODS cylinder with derrick 3" above short stand (ODS derrick cylinder holding static).

ACTIVITY PLANNED: Raise derrick. Install TDS. Set catwalk & prep rig floor. Perform pre spud inspection. PU 17-1/2" BHA.

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 JOB NAME: Drilling

CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Feb 22 2023 MD: 120 TVD: 120 FOOTAGE: MW: 8.4 LB PTD: 23,115

RIG SUPERVISOR: Joe Wenninger PBTD:

PRESENT OPERATIONS: Performing pre spud inspection.

Continue misc. RU while waiting on daylight to raise derrick.;Raise derrick at 07:30 am. Spool up rig floor hoist. Set BOP's in subs, set walking feet, set catwalk & v-door, Place cellar pumps in cellar. Install spreader beams in subs. Spool drill line onto drawworks. Install TDS at 14:30 pm. Change oil in TDS. Connect electrical & hydraulic lines to top drive with Cactus Electricians & Mechanics.;Troubleshoot top drive electrical issue. Found bad encoder. Replace Encoder on top drive. Epoxy new Top drive plug (wait 1 hour on epoxy to set). Set sub rack on rig floor. Remove travel clips from drag chain & install wash pipe on top drive while waiting on epoxy to set.;Install quill assembly to top drive (manual IBOP, HYD IBOP and saver sub). Install stabbing guide, bells & elevators. Remove shipping bar from top drive. Lay out Drill collars Heavy weight and BHA. Lay out Drill collars Heavy weight and BHA. Remove shipping bracket. Tie wire bolts & nuts on top drive. Perform pre spud inspection.

ACTIVITY PLANNED: PU 17.5" surface BHA. Drill 17.5" t/595'. TOO and rack back BHA. RU & RIH w/13-3/8" surface csg t/575'. Circulate prior to cementing. Cement surface csg per prog. Install & test wellhead.

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OBJECTIVE: Drill WC Horizontal Well
JOB NAME: Drilling

CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Feb 23 2023 MD: 595 TVD: 595 FOOTAGE: 475 MW: 8.4 LB PTD: 23,115

RIG SUPERVISOR: Joe Wenninger PBTD:

PRESENT OPERATIONS: Rig released to UL Darby B 2H.

Finish rigging up top drive. Finish pre spud inspection. Test mud pumps and mud lines.;Pick up and rack back 2-stands of 8" drill collars. Make-up surface BHA as follow:

- 17-1/2" Reed TK76-C2 (SN:A275580)
9-5/8" MPact 7/8 7.0 ADJ @1.83 w/17" NBS
17" IBS Stabilizer
8" UBHO
2 x 8" NMDC
8" Filter Sub
X-Over NC56 x 6-5/8" reg.

6 x 8" Drill collars;Drill 17.5" Surface section from 120' to 595'.
WOB 22-28 | GPM -750- 850 | SPPSI 2100 - 2400 | DIFF 500 - 800 | RPM 30-50 | 15 - 20K

Notified TRRC of intent to spud, run casing and cement, spoke with Jada, operator #124 @ 19:30 hours on 2-22-23.;Circulate 50 bbls hi-vis sweep @ 595'. Pumping @ 850 gpm & 20 rpm. Full returns during circulation.;TOOH F/595' T/BHA. Hole taking fill. No wellbore issues.

Rack back BHA, inspect Bit (Bit graded 0-0).;RD elevators. Clear & clean rig floor.;PJSM with Maverick casing crew & Tenaris thread rep. Rig up casing equipment.;Run 13-3/8" 54.5# J55 BTC casing as follows to 575':

- Shoe set @ 575'
1 jt of casing - 37.59'
Float set @ 535'
13 jts of casing- 534.62

Landing jt.;RD casing crew & rig up cement head. Fill pipe & circulate 1.5x casing capacity at 8 bpm @ 200 psi.;PJSM with Compass cementers & rig personnel. Test lines @ 2500 psi. Pump surface cement as follows:

Spacer = 30 bbls Freshwater
Tail (single slurry) = 815 sks / 194 bbls of 100% Class C Premium + 0.25 #/sk CelloFlake + 1% CaCl2. Density = 14.8 ppg | Yield = 1.34 cuft/sk | Mix Water = 6.31 gals/sk
Drop pre-loaded wiper plug on the fly. Displace w/ 82 bbls freshwater displacement. Slow rate to 3 bbls for last 20 bbls of displacement. Land plug @ 3 bpm & 156 psi FCP. Increase pressure t/885 psi and bump plug. Hold pressure for 5 min. Bled back 0.5 bbls. Floats held.

Full returns throughout cement job. Circulated 110 bbls/191 sacks of cement to surface.
Rig down cementers & lines;LD landing joint. Flush cellar pumps and lines w/ freshwater. Rig released to the UL Darby B 2H at 21:30 on 2-22-23.

ACTIVITY PLANNED: Surface drilling operations complete.

WELL: UL DARBY A 1H

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OBJECTIVE: Drill WC Horizontal Well
JOB NAME: Drilling

CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Mar 6 2023 MD: 2,893 TVD: 2,883 FOOTAGE: 2,298 MW: 9.9 LB PTD: 23,115

RIG SUPERVISOR: Frank Calhoun PBTD:
PRESENT OPERATIONS: Drilling ahead in 12.25" intermediate section @ 2893' at report time

Walk rig from UL Darby B 2H and center over UL Darby A 1H;NU BOP's, mud lines & choke line. RU catwalk. Install turnbuckles.;Test BOP's (break test) @ 250 psi low & 5000 psi high. Good test. Test 13-3/8" surface casing @ 500 psi for 30 minutes. Good test.;Rig repair - change out die holder block on top drive;Install wear bushing;P/U 12.25" Intermediate BHA (BHA #2). Test MWD, P/U and Make up bit.

- (1) 12-1/4" Ulterra XP716 (SN: 66048) w/ 0.76 TFA
(1) 9-5/8"x8-3/4" 7/8 7.0 ADJ @ 1.83 w/ 12" NBS
(1) 11 3/4" Steel Stabilizer (IBS) w/Float
(1) 8" UBHO - (Orifice 1.50 | Poppet 1.22)
(2) 8" NMDC's
(1) 8" Filter sub
(1) X/O
(12) 8" DC's
(1) X/O
(6) 5" HWDP
(1) 6-1/2" Hydraulic Jars
(17) 5" HWDP

Gamma Offset = 53' | Survey Offset = 63'
Motor Details: BTB = 7.04' | Kick Pad = 9.88" | Flow Range = 400 - 1100 gpm | Rev/Gal = 0.18 | Max Diff = 2135 psi;Drill 13-3/8" cement & shoe tract F/ 512' T/ 595'. Float Collar @ 535'. Float Shoe @ 575'.
GPM: 440 gpm | RPM: 15 | WOB: 5-12 klbs | TQ: 8 kft-lbs | MW @ 9.8 ppg | VIS: 30 sec/qt;Drill 12.25" Intermediate hole: F/ 595' T/ 1477' | Build INC to 8.1 deg tangent as per MS well plan #3
WOB: 25-35 | RPM: 30-50 | GPM: 750-800 | SPP: 3400-3800 | TQ: 13-18 K | DIFF: 700-1000 | MW IN: 9.9 ppg | Out 9.9 ppg | VIS: 38 sec/qt | pH: 11

Dropping soap & SAP every stand & pumping 40 bbls hi-vis sweep every 400' to aid in hole cleaning.;Drill 12.25" Intermediate hole: F/ 1477' T/ 2323' | Hold INC @ 8.1 deg tangent as per MS well plan #3
WOB: 40-45 | RPM: 45-55 | GPM: 830 | SPP: 3500-3900 | TQ: 13-20 K | DIFF: 700-1000 | MW IN: 10.0 ppg | Out 10.4+ ppg | VIS: 32 sec/qt | pH: 11

Pumping 40 bbls hi-vis sweep every 400' to aid in hole cleaning.;Drill 12.25" Intermediate hole: F/ 2323' T/ 2893' | Drop angle back to vertical from 8.1 deg tangent as per MS well plan #3
WOB: 40-45 | RPM: 50 | GPM: 830 | SPP: 3600-3900 | TQ: 13-20 K | DIFF: 600-900 | MW IN: 10.0 ppg | Out 10.4+ ppg | VIS: 32 sec/qt | pH: 11

Pumping 40 bbls hi-vis sweep every 400' to aid in hole cleaning.

ACTIVITY PLANNED: Drill 12.25" intermediate section to planned casing point. Following well plan #3

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CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Mar 7 2023 MD: 6,696 TVD: 6,686 FOOTAGE: 3,803 MW: 9.5 LB PTD: 23,115

RIG SUPERVISOR: Frank Calhoun PBTD:

PRESENT OPERATIONS: Drilling ahead in 12.25" intermediate section @ 6696' at report time

Drill 12.25" Intermediate hole: f/ 2893' t/ 4306' | Hold vertical INC as per MS well plan #3
 WOB: 40-45 | RPM: 40 | GPM: 800 | SPP: 3400-3800 | TQ: 13-23 K | DIFF: 600-900 | MW IN: 9.0 ppg | Out 9.0 ppg |
 VIS: 55 sec/qt | pH: 11

Pumping 40 bbls hi-vis sweep every 400' to aid in hole cleaning down to 3850'. Displace cut brine with Spraberry slop
 WBM @ 3850'. Well flowing after displacement @ ~100-150 bph.;Service rig & lubricate top drive;Drill 12.25"
 Intermediate hole: f/ 4306' t/ 6286' | Hold vertical INC as per MS well plan #3
 WOB: 40-45 | RPM: 40-55 | GPM: 800-850 | SPP: 3500-4000 | TQ: 13-23 K | DIFF: 600-900 | MW IN: 9.6 ppg | Out 9.7
 ppg | VIS: 30 sec/qt | pH: 13

Maintain 9.6 ppg to mitigate flow. Increase flow rate as needed to assist in flow mitigation. Dumping and diluting as
 needed to maintain MW target.;Drill 12.25" Intermediate hole: f/ 6286' t/ 6696' | Hold vertical INC as per MS well plan
 #3
 WOB: 38-43 | RPM: 40-55 | GPM: 600-830 | SPP: 2900-3900 | TQ: 17-25 K | DIFF: 700-1000 | MW IN: 9.3+ ppg | Out
 9.6 ppg | VIS: 36 sec/qt | pH: 12

*50% losses @ 6286'. Drop flow rate and begin diluting to maintain 9.1+ ppg MW. Well began flowing again @ 6384'
 with 750 gpm & 9.3+ MW. Increase flow rate to 850 gpm. Well continue to flow @ ~20 bph while drilling.
 *Total losses seen @ 6563' w/850 gpm & 9.5+ MW. Drop flow rate to 600 gpm, got returns back. Dump/dilute to drop
 MW. Well began flowing again on next stand. Adjust flow rates & dump/dilute as needed to mitigate flow & losses.

ACTIVITY PLANNED: Drill 12.25" intermediate section to planned casing point. Following well plan #3

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CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Mar 8 2023 MD: 7,734 TVD: 7,724 FOOTAGE: 1,038 MW: 9.2 LB PTD: 23,115

RIG SUPERVISOR: Frank Calhoun PBTD:

PRESENT OPERATIONS: Preparing to rig up casing crew at report time.

Drill 12.25" Intermediate hole: F/ 6696' T/ 7734' | Intermediate section TD. Following MS well plan #3
 WOB: 45-46 | RPM: 40 | GPM: 750- 825 | SPP: 3600-4000 | TQ: 14-22 K | DIFF: 600-900 | MW IN: 9.2+ ppg | Out 9.3 ppg | VIS: 36 sec/qt | pH: 11

*Well flowing while drilling at 750-825 gpm & 9.2-9.3 ppg MW. Occasionally see intermittent losses while drilling between 6696' - 7300', but almost instantly get returns back and well flowing again. Well flowing from 7300' - TD at 80-120 bph

*Adjust flow rates & dump/dilute as needed to mitigate flow & maintain viscosity & pH

***Notified Amanda with TRRC at 4:45 PM of upcoming intermediate casing and cement job for UL Darby A 1H; Perform clean up cycle with 700-800 gpm & 40 rpm. Increased flow rates to mitigate well flow. MW- 9.2 ppg during CUC. Did not reciprocate pipe during first two BU. Reciprocated 90' stand during 3rd and 4th BU. Well flowing 80-150 bph during CUC. Pump 4x BU. Shakers clean.; Take final directional survey for intermediate section TD. Change out leaking rotating head rubber & gasket.

Flow check at 7734' MD / 7724' TVD with 9.2 ppg MW. Well flowing 225 bph. SICP @ 120 psi.; TOH wet F/ 7734' T/ 7289'. No issues. Pump 40 bbls/12.6 ppg slug at 7289'. Continue TOH F/ 7289' T/ 921'. Orbit valve closed during TOH, pumping calculated fill. No issues.; Open orbit valve & check flow. Well flowing 6 bbls/min (360 bph). SICP -120 psi. Pump 90 bbls of 12.8 ppg mud cap at 921'. Check flow after mud cap. Well static.; Cont TOH F/ 921' T/ BHA. No issues. Well taking proper fill; Rack back directional BHA. Drain motor & break bit. No signs of motor damage. 12.25" Ulterra XP716 (SN: 66048) graded at 1-1-CT-G-X-I-ER-TD. No significant damage to primary cutters (slight chipping). Some damage to a few depth of cut limiters. Showing significant erosion/washout around a few primary cutters on the cone/nose but mainly around the backup cutters and depth of cut limiters.; Pull wear bushing & clear floor for casing run. Remove hydraulic elevators.

ACTIVITY PLANNED: RU & RIH W/9-5/8" 40# L80-HC BTC intermediate casing T/ 7719'. Pump intermediate cement as per prog. Install packoff & test. ND BOP's. Release rig.

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Mar 9 2023 MD: 7,734 TVD: 7,724 FOOTAGE: MW: 8.7 LB PTD: 23,115

RIG SUPERVISOR: Frank Calhoun PBTB:

PRESENT OPERATIONS: Rig releasing to UL Darby C 3H; Preparing to Skid

R/U Parker casing crew & CRT. Tenaris thread rep on location. Innovex packer/ DV tool rep on location. PJSM with all personnel & rig crew.

***Notified Amanda with TRRC at 4:45 PM on 3-7-23 of upcoming intermediate casing and cement job for UL Darby A 1H;MU shoe track & test floats. Run 9-5/8" 40# L80-HC BTC intermediate casing T/ 7719' as follows:

- (1) 9-5/8" Innovex BTC Float Shoe @ 7,719'
- (2) 9-5/8" 40# L80-HC BTC casing
- (1) 9-5/8" Innovex BTC Float Collar @ 7,635'
- (66) 9-5/8" 40# L80-HC BTC casing
- (1) 9-5/8" Innovex Contingency Baffle @ 4995'
- (1) 9-5/8" 40# L80-HC BTC casing
- (1) 9-5/8" Innovex BTC Expandable Packer @ 4940'
- (1) 9-5/8" Innovex BTC Composite DV Tool @ 4937'
- (1) 9-5/8" 40# L80-HC BTC Handling Joint @ 4,929'
- (123) 9-5/8" 40# L80-HC BTC casing
- (1) 9-5/8" Hanger & Landing Joint 31.15' w/ 4' stickup

Filling on the fly w/ 9.0 ppg mud. Stop and top off every 30 joints. No returns during casing run. Wash/ream last 3 joints + landing joint to land at 7719'. No returns during wash/ream.;Circulate through CRT at 9 bpm and 400 psi. R/D Parker casing crew. Release Tenaris thread rep.

PJSM with Compass, Innovex, Midland Safety and rig crew while circulating.;R/D Parker CRT. R/U Compass cement lines on floor. Install cement head.;Pressure test lines to 5000 psi. Pump 1st stage cement job as follows: Cementing down panic line for H2S precautions.

Spacer = 50 bbls freshwater. 4 bbl/ min.- 400 PSI

Lead = 465 sks / 185 bbls of Premium Class-H 50/25/25 Poz @ 11.8 ppg - 2.23 yield - 12.61 gal/sk. 8 bbl/ min - 625 PSI

Tail = 255 sks / 54 bbls of Premium Class-H @ 15.6 ppg - 1.18 yield - 5.21 gal/sk. 5 bbl/ min.- 550 PSI

Drop Innovex top plug.

Displace at 9 bpm with 579 bbls freshwater. FCP at 4 bpm - 980 psi. Bump with 620 psi over FCP and hold 1600 psi.

Continue to increase pressure to inflate packer @ 2350 psi. Pressure drop to 2250 psi. Bleed off back to bump pressure @ 1600 psi. .25 bbls lost to packer. Bleed 3.5 bbls to truck. Floats held.

Drop Innovex DV tool bomb and wait 30 minutes to fall to seat.;Open DV tool w/ 650 psi. Pump 20 bbls freshwater prior to beginning 2nd stage to establish circulation.

Returns after 7 bbls. Cementing down panic line for H2S precautions.

Pump 2nd stage cement as follows:

Spacer = 30 bbls freshwater w/ red dye. 4 bbl/ min.- 490 PSI

Lead = 1590 sks / 782 bbls of Premium Class-C 50/50 Poz @ 11.5 ppg - 2.76 yield - 16.26 gal/sk. 8 bbl/ min - 705 PSI

Tail = 205 sks / 42 bbls of Premium Class-C 50/50 Poz @ 14.8 ppg - 1.16 yield - 5.07 gal/sk. 5 bbl/ min.- 402 PSI

Drop DV tool closing plug.

Displace at 9 BPM with 374 bbls freshwater. FCP at 4 bpm - 1070 psi. Bump with 1,250 psi over FCP and hold 2,215 psi for 5 mins. Bleed psi and 3.5 bbls to truck. Floats held. Full returns throughout 2nd stage cement. 7 bbls (30 sks) cement to surface.;RD Compass cement equipment;Flush lines and BOP stack after cementing. LD landing joint.

Install hydraulic elevators;Install & test packoff as per Cactus wellhead tech. No issues.;ND BOP, choke & mud lines.

Pull trip nipple & mousehole. Remove turnbuckles. Raise catwalk, lift stack. Install TA cap. Release rig to UL Darby C 3H at 06:00 on 3/10/23

Simultaneously breaking down choke line block and moving choke line pup joints into place for next well. Position BOP stack and prep for walk to UL Darby C 3H

ACTIVITY PLANNED: Rig released to UL Darby C 3H

WELL: UL DARBY A 1H

Hibernia Resources

DAILY OPERATIONS

FIELD: SPRABERRY (TREND AREA)
COUNTY/STATE: UPTON/TX
PTD: 23,115
LOCATION: Sec 6, Blk 3, A-U6, UL Survey
ELEVATION (RKB): 2,672
API #: 42-461-42362
SERIAL NO:
SPUD DATE: Feb 22 2023
OBJECTIVE: Drill WC Horizontal Well
JOB NAME: Drilling

CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Apr 1 2023 MD: 9,463 TVD: 8,257 FOOTAGE: 898 MW: 9.8 LB PTD: 23,115

RIG SUPERVISOR: Frank Calhoun PBTD:

PRESENT OPERATIONS: Circulating @ 9372' through pump in sub; hotshot truck for Cactus is in route with replacement top drive/ kelly hose adapter hammer union.

Drill 8.75" curve F/ 8565' T/ 8582' | Slide drill curve - Following well plan #3.
WOB: 15-30 | RPM: 0-20 | GPM: 500-550 | SPP: 2800-3300 | TQ: 1-7 K | DIFF: 200-800 | MW IN: 9.8 ppg | Out 9.8 ppg | VIS: 58 sec/qt .

Projected @ 8583' MD: 88.98 INC | 6.06 AZM | 8250' TVD | 5' above & 15' right of plan #3.
Target Window: 50' ABOVE | 50' BELOW | 30' LEFT | 50' RIGHT.;Circulate 2 x BU for hole cleaning at 8582' with 575 gpm & 20 rpm. Reciprocating pipe during cleanup cycle. No losses during CUC. Shakers clean.;TOOH wet to top of curve F/ 8582' T/ 7730'. Pump 25 bbls of 12.8 ppg OBM slug @ 7730'. TOO H F/ 7730' T/ BHA. Well taking proper fill. No issues on TOO H.;L/D 8.75" BHA #3 (curve BHA). Motor drained properly. Kick pad looked good. 8.75" Ulterra CF611 (SN: 65575) graded @ 1-2-CT-G/S-X-I-WT-BHA. Slight gauge damage, mostly on outside row starting at shoulder cutters. Gauge cutters slightly chipped on each blade.;PU BHA #4 - 8.5" lateral BHA:
(1) 6.75" Reed TKC66-AJ1(SN: A293276) w/0.78 TFA
(1) 7" Mpack 7/8 - 6.9, FBH, Slick @ 1.83 deg
(1) 6.75" Float Sub
(1) 6.75" UBHO
(2) 6.75" NMDC
(1) 6.75" Filter Sub
(90) 5" DP (30 stands)
(1) 6.75" DWS Powerglide w/ 1.15 plate

MWD Details: Orifice: 1.35", Poppet: 1.160", Bit to Survey: 58', Bit to Gamma: 48'
Motor Details: BTB - 4.84' | Kick Pad OD - 7.31" | Flow Range: 300-700 | Rev/Gal: 0.25 | Max Differential: 1,960 psi;TIH F/ BHA' T/ 2927'. Well displacing properly. No wellbore issues.
P/U and test agitator at 2936'. Tested at 600 gpm with 675 psi drop (test good).;TIH F/ 2927' T/ 7539'. Well displacing properly. No wellbore issues.;Slip and cut 12 wraps (120') of drill line.;TIH F/ 7539' T/ 8336'. Well displacing properly. No wellbore issues.;Re-log gamma ray F/ 8336 T/ 8582'
250-300' per hour | RPM: 20 | GPM: 600 | SPP: 3700 | TQ: 4-7K |;Drill 8.5" lateral F/ 8582' T/ 9463 ' | Drill lateral section - Following well plan #3.
WOB: 38 K | RPM: 50-65 | GPM: 650 | SPP: 4300 | TQ: 6-10 K | DIFF: 500-800
MW IN: 9.8 ppg | Out 9.8 ppg | VIS: 61 sec/qt

Projected @ 9375' MD: 88.59 INC | 6.4 AZM | 8257.35' TVD | 0' below & 5' right of plan #3
Target Window: 11' ABOVE | 26' BELOW | 30' LEFT | 50' RIGHT;Adapter hammer union from top drive to kelly hose washed and leaking. Rack 1 stand back in derrick. Rig up pump in sub and hose. Circulate W/ 200 GPMs | 680 psi. After inspecting, found hammer union washed out. Cactus yard hot-shot sending replacement to rig.

ACTIVITY PLANNED: Drill ahead in 8.5" lateral section. Following well plan #3

WELL: UL DARBY A 1H

Hibernia Resources

DAILY OPERATIONS

FIELD: SPRABERRY (TREND AREA)
 COUNTY/STATE: UPTON/TX
 PTD: 23,115
 LOCATION: Sec 6, Blk 3, A-U6, UL Survey
 ELEVATION (RKB): 2,672
 API #: 42-461-42362
 SERIAL NO:
 SPUD DATE: Feb 22 2023
 OBJECTIVE: Drill WC Horizontal Well
 JOB NAME: Drilling

CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Apr 2 2023	MD: 12,820	TVD: 8,245	FOOTAGE: 3,357	MW: 9.8	LB	PTD: 23,115
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RIG SUPERVISOR: Frank Calhoun	PBTD:
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PRESENT OPERATIONS: Drilling 8.5" lateral at 12820'

Replace hammer union steel transition from top drive to Kelly hose. Adjust kelly hose to prevent hanging up while passing through derrick.;Drill 8.5" lateral section F/ 9,463' T/ 9,752' | Following well plan #3.
 WOB: 38-40K | RPM: 65 | GPM: 650 | SPP: 4900-5100 | TQ: 13-18K | DIFF: 600-800
 MW IN: 9.8 ppg | Out 9.8 ppg | VIS: 62 sec/qt

***Drilling Window shift: 5' up and 32' down per GeoSteer at 8:10 a.m.
 ***Drilling Window shift: 0' up and 37' down per GeoSteer at 9:54 a.m.;Service Rig & Top Drive; Perform SPR's;Complete changing hydraulic filters on top drive with Cactus top drive techs. Troubleshoot Hydraulic pump-cycling issues. Problem determined to be hydraulic elevators. Rig down hydraulic elevators and install manual elevators.;Change out leaking rotating head.;Drill 8.5" lateral section F/ 9,752' T/ 10845' | Following well plan #3.
 WOB: 38-40K | RPM: 65 | GPM: 650 | SPP: 4900-5100 | TQ: 13-18K | DIFF: 600-800
 MW IN: 9.8 ppg | Out 9.8 ppg | VIS: 62 sec/qt

***Drilling Window shift: 5' up and 32' down per GeoSteer at 3:08 p.m.;Drill 8.5" lateral section F/10845' T/12820' | Following well plan #3.
 WOB: 38-40K | RPM: 70 | GPM: 650 | SPP: 5100-5400 | TQ: 14-19K | DIFF: 600-800
 MW IN: 9.8+ ppg | Out 9.9 ppg | VIS: 53 sec/qt

Projected at 12,768' MD: 92.52 INC | 9.22 AZM | 8247.91' TVD | 1' below & 23' right of plan #3
 Target Window: 24' ABOVE | 13' BELOW | 30' LEFT | 50' RIGHT
 ***Drilling Window shift: 24' up and 13' down per GeoSteer at 6:46 p.m.

ACTIVITY PLANNED: Drill ahead in 8.5" lateral section. Following well plan #3

WELL: UL DARBY A 1H

Hibernia Resources

DAILY OPERATIONS

FIELD: SPRABERRY (TREND AREA)
 COUNTY/STATE: UPTON/TX
 PTD: 23,115
 LOCATION: Sec 6, Blk 3, A-U6, UL Survey
 ELEVATION (RKB): 2,672
 API #: 42-461-42362
 SERIAL NO:
 SPUD DATE: Feb 22 2023
 OBJECTIVE: Drill WC Horizontal Well
 JOB NAME: Drilling

CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Apr 3 2023 MD: 16,348 TVD: 8,207 FOOTAGE: 3,528 MW: 9.8 LB PTD: 23,115

RIG SUPERVISOR: Frank Calhoun PBTD:

PRESENT OPERATIONS: Drilling 8.5" lateral section at 16,348'.

Drill 8.5" lateral section F/12,820' T/12,865' | Following well plan #3.
 WOB: 42K | RPM: 70 | GPM: 650 | SPP: 5300-5400 | TQ: 18-20K | DIFF: 800-900
 MW IN: 9.9 ppg | Out 9.9 ppg | VIS: 56 sec/qt

***Drilling Window shift: 30' up and 7' down per GeoSteer at 6:02 a.m.;Replace washed gasket seal in steel mud line on ground.;Drill 8.5" lateral section F/12,865' T/13,901' | Following well plan #3.
 WOB: 42K | RPM: 70 | GPM: 650 | SPP: 5500-5600 | TQ: 17-22K | DIFF: 800-900
 MW IN: 9.9 ppg | Out 9.9 ppg | VIS: 56 sec/qt

***Drilling Window shift: 35' up and 2' down per GeoSteer at 11:33 a.m.;Service Rig & top drive; Perform SPR's;Drill 8.5" lateral section F/13,901' T/14,545' | Following well plan #3.
 WOB: 42K | RPM: 70-75 | GPM: 650 | SPP: 5500-5600 | TQ: 19-23K | DIFF: 800-900
 MW IN: 9.9 ppg | Out 9.9 ppg | VIS: 56 sec/qt

***Drilling Window shift: 39' up and 2' up per GeoSteer at 5:35 p.m.;Drill 8.5" lateral section F/14,545' T/15,370' | Following well plan #3.
 WOB: 42K | RPM: 70-75 | GPM: 650 | SPP: 5550-5700 | TQ: 19-24K | DIFF: 750-900
 MW IN: 9.9 ppg | Out 9.9 ppg | VIS: 56 sec/qt

***Drilling Window shift: 46' up and 9' up per GeoSteer at 8:38 p.m.;Drill 8.5" lateral section F/15,370' T/16,348' | Following well plan #3.
 WOB: 39-42K | RPM: 70 | GPM: 650 | SPP: 5600-5700 | TQ: 19-24K | DIFF: 800-900
 MW IN: 9.8 ppg | Out 9.8 ppg | VIS: 57 sec/q

Projected at 16,255' MD: 89.01 INC | 1.58 AZM | 8208.14' TVD | 41' above & 4' right of plan #3
 Target Window: 51' ABOVE | 14' ABOVE | 30' LEFT | 50' RIGHT
 ***Drilling Window shift: 51' up and 14' up per GeoSteer at 11:26 p.m.

ACTIVITY PLANNED: Drill ahead in 8.5" lateral section following well plan #3

WELL: UL DARBY A 1H

Hibernia Resources

DAILY OPERATIONS

FIELD: SPRABERRY (TREND AREA)
COUNTY/STATE: UPTON/TX
PTD: 23,115
LOCATION: Sec 6, Blk 3, A-U6, UL Survey
ELEVATION (RKB): 2,672
API #: 42-461-42362
SERIAL NO:
SPUD DATE: Feb 22 2023
OBJECTIVE: Drill WC Horizontal Well
JOB NAME: Drilling

CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Apr 4 2023 MD: 19,030 TVD: 8,229 FOOTAGE: 2,682 MW: 9.8 LB PTD: 23,115

RIG SUPERVISOR: Frank Calhoun PBTD:

PRESENT OPERATIONS: Drilling 8.5" lateral section at 19,030'.

Drill 8.5" lateral section F/16,348' T/17,573' | Following well plan #3.
WOB: 42K | RPM: 75 | GPM: 650 | SPP: 5700-5800 | TQ: 21-25K | DIFF: 750-850
MW IN: 9.8 ppg | Out 9.8 ppg | VIS: 56 sec/qt

Target Window: 51' ABOVE | 14' ABOVE | 30' LEFT | 50' RIGHT; Service Rig & top drive; Perform SPR's; Drill 8.5" lateral section F/17,573' T/17,915' | Following well plan #3.
WOB: 42K | RPM: 75 | GPM: 650 | SPP: 5800-5900 | TQ: 23-26K | DIFF: 750-850
MW IN: 9.8 ppg | Out 9.8 ppg | VIS: 55 sec/qt

Target Window: 51' ABOVE | 14' ABOVE | 30' LEFT | 50' RIGHT; Drill 8.5" lateral section F/17,915' T/ 19,030' | Following well plan #3.
WOB: 40-42K | RPM: 75 | GPM: 650 | SPP: 5800-6100 | TQ: 23-27K | DIFF: 700-850
MW IN: 9.8 ppg | Out 9.8 ppg | VIS: 57 sec/qt

Projected at 18,988' MD: 88.00 INC | 3.1 AZM | 8230.19' TVD | 21' above & 9' left of plan #3
Target Window: 51' ABOVE | 14' ABOVE | 30' LEFT | 50' RIGHT

ACTIVITY PLANNED: Drill ahead in 8.5" lateral section following well plan #3

WELL: UL DARBY A 1H

Hibernia Resources

DAILY OPERATIONS

FIELD: SPRABERRY (TREND AREA)
 COUNTY/STATE: UPTON/TX
 PTD: 23,115
 LOCATION: Sec 6, Blk 3, A-U6, UL Survey
 ELEVATION (RKB): 2,672
 API #: 42-461-42362
 SERIAL NO:
 SPUD DATE: Feb 22 2023
 OBJECTIVE: Drill WC Horizontal Well
 JOB NAME: Drilling

CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Apr 5 2023	MD: 21,400	TVD: 8,230	FOOTAGE: 2,370	MW: 9.8	LB	PTD: 23,115
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RIG SUPERVISOR: Frank Calhoun	PBTD:
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PRESENT OPERATIONS: Drilling 8.5" lateral section at 21,400'.

Drill 8.5" lateral section F/19,030' T/ 20,405' | Following well plan #3.
 WOB: 38-42K | RPM: 75 | GPM: 650 | SPP: 6300-6500 | TQ: 24-27K | DIFF: 550-750
 MW IN: 9.8 ppg | Out 9.8 ppg | VIS: 58 sec/qt

*****Drilling Window shift: 48' up and 11' up per GeoSteer at 12:10 a.m.
 Target Window: 48' ABOVE | 11' ABOVE | 30' LEFT | 50' RIGHT;Service rig & top drive; Perform SPR's;Drill 8.5"
 lateral section F/ 20,405' T/ 21,400' | Following well plan #3.
 WOB: 38-42K | RPM: 75 | GPM: 650 | SPP: 6300-6500 | TQ: 24-30K | DIFF: 550-750
 MW IN: 9.8 ppg | Out 9.8 ppg | VIS: 59 sec/qt

Projected at 21,349' MD: 92.47 INC | 358.22 AZM | 8231.65' TVD | 27' above & 40' right of plan #3
 Target Window: 48' ABOVE | 11' ABOVE | 30' LEFT | 50' RIGHT

ACTIVITY PLANNED: Drill ahead in 8.5" lateral section following well plan #3

WELL: UL DARBY A 1H

Hibernia Resources

DAILY OPERATIONS

FIELD: SPRABERRY (TREND AREA)
 COUNTY/STATE: UPTON/TX
 PTD: 23,115
 LOCATION: Sec 6, Blk 3, A-U6, UL Survey
 ELEVATION (RKB): 2,672
 API #: 42-461-42362
 SERIAL NO:
 SPUD DATE: Feb 22 2023
 OBJECTIVE: Drill WC Horizontal Well
 JOB NAME: Drilling

CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Apr 6 2023 MD: 23,062 TVD: 8,254 FOOTAGE: 1,662 MW: 9.8 LB PTD: 23,115

RIG SUPERVISOR: Frank Calhoun PBTD:

PRESENT OPERATIONS: Tripping out of the hole @ 22,608' at report time

Drill 8.5" lateral section F/ 21,400' T/ 23,062' | Well is TD| Following well plan #3.
 WOB: 38-42K | RPM: 75 | GPM: 650 | SPP: 6300-6700 | TQ: 30-33K | DIFF: 650-850
 MW IN: 9.8 ppg | Out 9.8 ppg | VIS: 60 sec/qt

Projected at 23,062' MD: 88.79 INC | 352.36 AZM | 8254.73' TVD | 27' above & 74' left of plan #3
 Target Window: 43' ABOVE | 6' ABOVE | 30' LEFT | 50' RIGHT

*****Drilling Window shift: 43' up and 6' up per GeoSteer at 12:18 p.m.;Perform cleanup cycle at 23,062' - TD of well.
 Circulate at 675 GPM | 80-95 RPM.
 Reciprocating pipe during cleanup cycle. Circulate 8x BU. Shakers clean

Begin CUC = SPP: 6550 psi | TQ: 18.8 K | PU: 185 | SO: 155
 End CUC = SPP: 6250 psi | TQ: 11.5 K | PU: 185 | SO: 175;Change out rotating head rubber.;Perform cleanup cycle at 23,062' - TD of well. Circulate at 675 GPM | 90-95 RPM. 1hr @ 577 GPM while changing out swab & liner.
 Reciprocating pipe during cleanup cycle. Circulate 9x BU. Shakers clean.

Begin CUC = RPM: 80 | SPP: 6500 psi | TQ: 18 K | PU: 188 | SO: 155
 End CUC = RPM: 95 | SPP: 6280 psi | TQ: 11.2 K | PU: 185 | SO: 177;Perform flow check - Well static. Fill separator and line up to hold back pressure. Install hydraulic elevators.;TOOH 5 stands wet F/ 23062' T/ 22,608'. No issues. Well taking proper fill. Well taking proper fill. Hold 300 psi casing pressure while tripping out of hole.

ACTIVITY PLANNED: TOOH. LD lateral BHA. RU & RIH w/ 5.5" 20# P110-CY TXP BTC production casing to planned casing point.

WELL: UL DARBY A 1H

Hibernia Resources

DAILY OPERATIONS

FIELD: SPRABERRY (TREND AREA)
 COUNTY/STATE: UPTON/TX
 PTD: 23,115
 LOCATION: Sec 6, Blk 3, A-U6, UL Survey
 ELEVATION (RKB): 2,672
 API #: 42-461-42362
 SERIAL NO:
 SPUD DATE: Feb 22 2023
 OBJECTIVE: Drill WC Horizontal Well
 JOB NAME: Drilling

CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Apr 7 2023 MD: 23,062 TVD: 8,254 FOOTAGE: MW: 9.8 LB PTD: 23,115

RIG SUPERVISOR: Frank Calhoun PBTD:

PRESENT OPERATIONS: Running 5.5" production casing at 4720'.

TOOH 20 stands wet F/ 22,608' T/ 20,710'. No wellbore issues. Well taking proper fill. Well taking proper fill. Hold 275-300 psi casing pressure while tripping out of hole. Pump slug @ 20,710' (65 bbls of 13.3ppg).;TOOH F/ 20,710' T/ 7,670'. No wellbore issues. Well taking proper fill. Hold 175-275 psi casing pressure while tripping out of hole. Flow check @ 7,670'- well static.;TOOH F/ 7,670' T/ BHA. No wellbore issues. Well taking proper fill. Lay down Agitator & pull rotating head.

15 mins lost to troubleshoot ST-80 control cable.;LD BHA #4. Pull MWD & break motor (no visible damage to motor). Reed TKC66-AJ1 (SN: A293276) graded at 1-2-DL-G-X-2-PN-WT-TD. Worn cutter on inner blade 4. Delamination on gauge cutters blade 6 & 1. One plugged nozzle with rubber. Bit was 1/16" under gauge.;Pull wear bushing and clean floor for casing run.;RU Parker casing crew & torque turn (19:00 callout). Tenaris thread rep on location (18:00 callout).

PJSM with casing crew, thread reps & rig crew;Run 5.5" 20# P110-CY TXP BTC casing T/ 4,720'.

- (1) 5.5" Innovex Float shoe set @ 23042'
- (1) 5.5" 20# P110-CY TXP casing 43.91
- (1) 5.5" Innovex Float collar @ 22994'
- (1) 5.5" 20# P110-CY TXP casing- 44.26
- (1) 5.5" Innovex Toe Sleeve (SN: 55-5734) top @ 22,946.9'
- (1) 5.5" 20# P110-CY TXP Marker Jnt "A"- 19.64'
- (1) 5.5" Innovex Toe Sleeve (SN: 55-5735) top @ 22,923.78'
- (106) 5.5" 20# P110-CY TXP

Hole giving proper displacement. No wellbore issues while running casing. No fill prior to installing floatation sub.

ACTIVITY PLANNED: RIH & land production casing @ 23,042'. Rupture float sub, bleed & circulate casing. RU & pump production cement as per prog. Install pack-off. Nipple down ops. Release rig for rig skid.

WELL: UL DARBY A 1H

Hibernia Resources

DAILY OPERATIONS

FIELD: SPRABERRY (TREND AREA)
COUNTY/STATE: UPTON/TX
PTD: 23,115
LOCATION: Sec 6, Blk 3, A-U6, UL Survey
ELEVATION (RKB): 2,672
API #: 42-461-42362
SERIAL NO:
SPUD DATE: Feb 22 2023
OBJECTIVE: Drill WC Horizontal Well
JOB NAME: Drilling

CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Apr 8 2023 MD: 23,062 TVD: 8,254 FOOTAGE: MW: 9.8 LB PTD: 23,115

RIG SUPERVISOR: Frank Calhoun PBTD:

PRESENT OPERATIONS: Circulating 5.5" Production casing @ 23,042'.

Run 5.5" 20# P110-CY TXP BTC casing T/ 21,097'.

- (1) 5.5" Innovex Float shoe set @ 23042'
- (1) 5.5" 20# P110-CY TXP casing 43.91
- (1) 5.5" Innovex Float collar @ 22994'
- (1) 5.5" 20# P110-CY TXP casing 44.26
- (1) 5.5" Innovex Toe Sleeve (SN: 55-5734) top @ 22,946.9'
- (1) 5.5" 20# P110-CY TXP Marker Jnt "A" 19.64'
- (1) 5.5" Innovex Toe Sleeve (SN: 55-5735) top @ 22,923.78'
- (303) 5.5" 20# P110-CY TXP 13322.28'
- (1) Arsenal float sub @ 9599.64'
- (49) 5.5" 20# P110-CY TXP 2116.51'
- (1) 5.5" 20# P110-CY TXP Marker Jnt "B" 20.02'
- (169) 5.5" 20# P110-CY TXP 7370.93'
- (1) 5.5" 20# P110-CY TXP Marker Jnt "C" 20.00'
- (1) 5.5" 20# P110-CY TXP 45.71'

Hole giving proper displacement. No wellbore issues while running casing. No fill prior to installing floatation sub.;Swap out casing tongs due to back up jaw not clamping.;Run 5.5" 20# P110-CY TXP BTC casing T/ 23,042'. Backed out Jt# 481 twice due to no shouldering @ 4 rpms, thread rep cleaned, inspected & re-doped each time verified by Daniel Bates (no damage to threads), increased rpms to 7 & obtained a good shoulder.

- (1) 5.5" Innovex Float shoe set @ 23042'
- (1) 5.5" 20# P110-CY TXP casing 43.91
- (1) 5.5" Innovex Float collar @ 22,994'
- (1) 5.5" 20# P110-CY TXP casing 44.26'
- (1) 5.5" Innovex Toe Sleeve (SN: 55-5734) top @ 22,946.9'
- (1) 5.5" 20# P110-CY TXP Marker Jnt "A" 19.64'
- (1) 5.5" Innovex Toe Sleeve (SN: 55-5735) top @ 22,923.78'
- (303) 5.5" 20# P110-CY TXP 13,322.28'
- (1) Arsenal floatsub @ 9,599.64'
- (49) 5.5" 20# P110-CY TXP 2116.51'
- (1) 5.5" 20# P110-CY TXP Marker Jnt "B" 20.02'
- (169) 5.5" 20# P110-CY TXP 7370.93'
- (1) 5.5" 20# P110-CY TXP Marker Jnt "C" 20.00'
- (1) 5.5" 20# P110-CY TXP 45.71'

Hole giving proper displacement. No wellbore issues while running casing. No fill prior to installing floatation sub. Land hanger with 100k string wt.;Rig down CRT. Rig up cement head and iron for circulating. Rig up bleed off hose to trip tank.;Bring on rig pumps and burst Arsenal air-lock disc at 2430 PSI. Pump 287 bbls at 5.5 bbl/ min to fill and bleed air from casing (299 bbls calculated fill).;Shut down pumps. Line up cement head. Stage pumps from 6 to 9 bbls/ min slowly, monitoring gain/loss during stage up pumps. Circulate surface to surface strokes at 6-9 bbl/ min prior to cement job.

- @ 6 bpm -- Circulating @ 820 psi
- @ 7 bpm -- Circulating @ 920 psi
- @ 8 bpm -- Circulating @ 1020 psi
- @ 9 bpm -- Circulating @ 1200 psi

Simultaneously RU Compass cement iron & mix spacer for cement job. Confirm cement volumes on location. Cementers called to be on location @ 3:30 on 4/8/23.

ACTIVITY PLANNED: RU & pump production cement as per prog. Install pack-off. Nipple down ops. Release rig for rig skid.

WELL: UL DARBY A 1H

Hibernia Resources

DAILY OPERATIONS

FIELD: SPRABERRY (TREND AREA)
 COUNTY/STATE: UPTON/TX
 PTD: 23,115
 LOCATION: Sec 6, Blk 3, A-U6, UL Survey
 ELEVATION (RKB): 2,672
 API #: 42-461-42362
 SERIAL NO:
 SPUD DATE: Feb 22 2023
 OBJECTIVE: Drill WC Horizontal Well
 JOB NAME: Drilling

CONTRACTOR/RIG#: Cactus Drilling/Cactus #167

Apr 9 2023	MD: 23,062	TVD: 8,254	FOOTAGE:	MW: 0.0	LB	PTD: 23,115
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RIG SUPERVISOR:	Frank Calhoun	PBTD:
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PRESENT OPERATIONS: Rig Released to the UL Darby D 4H

Complete circulating casing. Circulate a total of 2.5x's bottoms up to ensure conducive mud properties for cement job. Final Mud weight 9.7+ / 67 Vis.; Confirm cement volumes on location. Swap circulating iron from rig to cementers and prepare for cement.

Test lines to 8000 PSI

Cement 5.5" production casing as follows:

Spacer = 50 bbls of Tuned Prime spacer- 10.5 ppg

Lead = 975 sks / 547 bbls of 11.0 ppg HSLD 82/ C45 Econolite W/ LCM- 3.15 yld & 18.96 gal/sk water

Tail = 2805 sks / 759 bbls of 13.2 ppg HSLD 82/ STE - 1.52 yield & 7.53 gal/sk water

Pumped 10 bbls MMCR retarded water ahead of plug. Wash up to reserve pit. Drop wiper plug (verified by consultant). Pumped 10 bbls MMCR retarded water on top of plug. Displaced with 500 bbls of treated FW (total calculated displacement - 510 bbls).

FCP at 3.5 bbl/ min - 2300 PSI. Pressured up to 800 psi over FCP to 3100 psi. Held pressure for 5 minutes. Bled back 6.5 bbls. Floats held. Circulated 290 bbls of cement back to surface. Full returns throughout cement job.;RD Compass cementers & lines.;Wash up surface lines & BOP equipment with sugar water. Lay down casing bales and install rig elevators.;Lay down landing joint. Make up running tool & pack off assembly onto drill pipe. Run and install pack off into wellhead with Cactus technician. Test upper and lower seals to 5000 psi. Pull test to 40K over block weight. Re-test seals to 5000 psi. Install BPV.;Nipple down BOP and lift stack. Install TA cap with Cactus Technician. Release rig from Darby A 1H at 17:00 hours on 4/8/23.

ACTIVITY PLANNED: Rig Released to the UL Darby D 4H