

WELL: UL Boss Hogg G #7 H

**Hibernia Resources**

**DAILY OPERATIONS**

FIELD: Spraberry (Trend Area)  
 COUNTY/STATE: Upton/Texas  
 PTD: 18,833  
 LOCATION: E/2 Sec 4, Block 3 and E/2 Sec 58,  
 Block 58  
 ELEVATION (RKB):  
 API #: 42-461-41362  
 SERIAL NO:  
 SPUD DATE: Dec 14 2019  
 OBJECTIVE: Drill WC A well  
 JOB NAME: Drilling

CONTRACTOR/RIG#: H&P/H&P #427

Dec 15 2019 MD: 745 TVD: 745 FOOTAGE: 625 MW: 8.4 LB PTD: 18,833

RIG SUPERVISOR: Justin Fallis PBTD:

PRESENT OPERATIONS: Drilling surface hole

Skid rig to the UL Boss Hogg G 7H, drive ground rods, hook up mud line, install cellar pumps; Pick up and make up 17 1/2" surface BHA as follows: 17 1/2" Reed TKC69 bit (6x16's), 8 3/4" 7/8 7.0 1.83° Adj motor w/17" NB stab, 17" stabilizer, UBHO, 2 Monels, NC56 to 6 5/8" reg crossover sub, 6 - 8" drill collars, 4 1/2" IF to NC56 crossover sub.; Drill surface from 120' to 167', wob 17-20, rpm 30-50, gpm 450-570

\*\*Notified TRRC of spud and intent to run and cement surface casing, spoke with ljuana operator #65 on 12-14-19 @ 15:35 hrs\*\*; Tooh due to low rop, first 20' drilled 50-100 fph, then rop slowed to 20 fph range with erratic torque and differential spikes, decision made to tooh & found bit shoulders to be beat up, graded bit 2-6, motor drained fine and no bearing failure observed while draining motor, decision made to lay down motor and pick up fresh motor; Break off bit, pull mwd tool, lay down motor, rack back monels.; Wait on 17 1/2" mill tooth bit to arrive on location; Pick up 17 1/2" mill tooth bit, bit sub and tih; Drill surface from 167' to 275', wob 15-25, rpm 50-100, gpm 400-800; Tooh, lay down bit and bit sub; Pick up and make up 17 1/2" surface BHA as follows: 17 1/2" Ulterra CF716 bit (9x16's, 1-15), 7 3/4" 7/8 5.9 1.83° Adj motor w/12" NB stab, 17" stabilizer, UBHO, 2 Monels, NC56 to 6 5/8" reg crossover sub, 6 - 8" drill collars, 4 1/2" IF to NC56 crossover sub.; Tih from 111' to 275'; Drill surface from 275' to 745', wob 15-25 rpm 60, gpm 800

ACTIVITY PLANNED: Finish drilling surface hole. Trip out of hole, run and cement surface casing. Install well head, Skid to Boss Hogg I 9-H, nipple up and test bop. Pick up intermediate bha, TIH and drill ahead.

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|             |           |            |              |         |    |             |
|-------------|-----------|------------|--------------|---------|----|-------------|
| Dec 16 2019 | MD: 1,392 | TVD: 1,392 | FOOTAGE: 647 | MW: 0.0 | LB | PTD: 18,833 |
|-------------|-----------|------------|--------------|---------|----|-------------|

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| RIG SUPERVISOR: Justin Fallis | PBTD: |
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PRESENT OPERATIONS: Rig released

Drill surface from 745' to 836', wob 15-25 rpm 60, gpm 800;Service rig;Drill surface from 836' to 1,392', wob 30-35 rpm 70, gpm 800;Circulate tandem sweeps to surface;Tooh to bha;Pull mwd tool, lay down stabilizer, lay down ubho sub, break bit & rack back bha (bit graded 1-2);Clear rig floor for casing run;Rig up pipe pro casing equipment & held pre-job safety meeting;Run 13 3/8" surface casing as follows:

Shoe set @ 1382'

1 jt casing - 42.09'

Float collar set @ 1,336.64'

31 jts casing- 1,305.67'

Landing jt- 34.93'

Ran centralizers on every jt to 200' (26 centralizers);Circulate casing capacity while rigging down casing crew and rigging up cementing iron to rig floor;Cement 13 3/8" surface casing as follows: Pressure test lines to 1500 psi, pump 20 bbl fresh water spacer, pump 701 sx (299 bbls) of 12.0 ppg class c lead cement, yield 2.4 followed by 290 sx (70 bbls) 14.8 ppg class c cement, yield 1.34. Drop plug and displace with 207 bbls of fresh water. Landed plug @ 3 bpm with 400 psi bumped 550 over to 950, floats held bled back 3/4 bbl. Circulated 157 bbls cement to surface. Bumped plug @ 19:52 hrs on 12-15-19;Rig down cementing equipment & back out landing jt;Install cactus wellhead, test to 5000 psi, torque lockdown pins to 600 ft/lbs

\*\*Release rig @ 21:30 hrs on 12-15-19\*\*

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CONTRACTOR/RIG#: H&P/H&P #427

Dec 22 2019 MD: 1,660 TVD: 1,660 FOOTAGE: 268 MW: 10.0 LB PTD: 18,833

RIG SUPERVISOR: Justin Fallis

PBTD:

PRESENT OPERATIONS: Drilling @ 1660'

Prepare rig to skid & skid rig to the UL Boss Hogg G 7H, rig up mud lines, drive ground rods & set choke lines, rig up flowline stands;Nipple up BOPE;Test bop, choke manifold, mud lines back to pump, upper & lower pipe rams, kill line valves, floor valves, blind rams to 250 psi low & 5000 psi high, test annular to 250 psi low & 3500 psi high, test orbit valve to 500 psi;Test casing to 600 psi for 30 mins;Install wear bushing;Pickup BHA 2 for 12.25" intermediate section as follows: Bit #2 12.25" Ulterra RPPS716 (TFA 0.77), 8" 7/8 5.9 ADJ @ 1.83° w/ 12" Stab (0.166 rev/gal), 12" IBS, UBHO SUB, NMDC, NMDC, XO, 2 Stands 8" DCs, XO;Trip in hole to 1285'

\*Wt. below jars 67,000\*;Wash down & tag float collar @ 1336'. Drill float collar, shoe track and shoe from 1336' to 1382', clean out rathole to 1392';Drill 12 1/4" intermediate from 1392' to 1660', wob 35-40, gpm 750-800, rpm 65.

ACTIVITY PLANNED: Drill ahead

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|             |                     |   |                |          |    |             |
|-------------|---------------------|---|----------------|----------|----|-------------|
| Dec 23 2019 | MD: 4,785           | TVD: 4,717  | FOOTAGE: 3,125 | MW: 10.4 | LB | PTD: 18,833 |
|             | RIG SUPERVISOR:     | Justin Fallis   |                |          |    | PBTD:       |
|             | PRESENT OPERATIONS: | Drilling @ 4785'  |                |          |    |             |
|             |                     | Drill 12 1/4" intermediate from 1660' to 4785', wob 35-40, gpm 750-800, rpm 65. |                |          |    |             |
|             | ACTIVITY PLANNED:   | Drill 12 1/4" intermediate  |                |          |    |             |

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 JOB NAME: Drilling

CONTRACTOR/RIG#: H&P/H&P #427

Dec 24 2019 MD: 6,000 TVD: 5,927 FOOTAGE: 1,215 MW: 9.1 LB PTD: 18,833

RIG SUPERVISOR: Justin Fallis PBTD:

PRESENT OPERATIONS: Drilling intermediate @ 6,000'

Drill 12 1/4" intermediate from 4785' to 5132', wob 35-40, gpm 750-850, rpm 65.;While displacing to pre-hydrated fresh water bentonite spraberry mud the 6x8 pump on the water base mud frac tanks broke down, had to rig up several 4x4 pumps to keep mud moving from frac tanks to rig mud tanks, picked up off bottom and slowed mud pumps down until well was displaced.;Drill 12 1/4" intermediate from 5132' to 5515', wob 38, gpm 750-850, rpm 65-75.;Well began to flow @ 5,515', shut well in with 62 psi SICP. Close orbit valve and circulate bottoms up through choke to verify water flow.;Attempted to resume drilling operations but orbit valve malfunctioned and wouldn't open. Shut in and circulate through choke while changing orbit valve.;Drill 12 1/4" intermediate from 5515' to 6000' wob 38, gpm 750-850, rpm 65-75.

\*\*Well flowing 20 - 50 bb/hr\*\*

ACTIVITY PLANNED: Drill ahead in intermediate hole section.

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CONTRACTOR/RIG#: H&P/H&P #427

|             |           |            |                |         |    |             |
|-------------|-----------|------------|----------------|---------|----|-------------|
| Dec 25 2019 | MD: 7,794 | TVD: 7,720 | FOOTAGE: 1,794 | MW: 9.5 | LB | PTD: 18,833 |
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| RIG SUPERVISOR: Justin Fallis | PBTD: |
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PRESENT OPERATIONS: Tripping out of hole to run intermediate casing

Drill 12 1/4" intermediate from 6000' to 7244' wob 38, gpm 750-850, rpm 65-75.  
 Well flowing 20 bbls/hr while drilling up to 6320' then well stayed static while drilling with 800 gpm & 9.3 ppg mw.  
 Flowing on connections 20-60 bbls/hr;Service Rig;Drill 12 1/4" intermediate from 7244' to 7794' wob 38, gpm 750-850,  
 rpm 65;Circulate tandem hi vis sweeps and 2 bottoms up.;Perform flow check, well flowing 48 bbl/hr. Pump slug;Trip  
 out of hole stripping against orbit valve from 7794' to 1470'.

\*\*Notified TRRC with intent to run and cement Intermediate casing @ 03:00 hrs on 12-25-19, Chris Operator  
 #39\*\*;Perform flow check at surface shoe, spot 60 bbl of 80 psi 13.2# pill. Well static.;Trip out of hole from 1470' to  
 1285'

|                   |   |
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| ACTIVITY PLANNED: | Trip out of hole, lay down BHA, run and cement intermediate casing. |
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CONTRACTOR/RIG#: H&P/H&P #427

Dec 26 2019 MD: 7,794 TVD: 7,720 FOOTAGE: MW: 9.5 LB PTD: 18,833

RIG SUPERVISOR: Travis McDermott PBTD:

PRESENT OPERATIONS: Second Stage Cement on Intermediate Casing

Trip out of hole with BHA #2 from 1285', additional time due to several tight connections on 5" HWDP requiring use of rig tongs. Racked 8" drill collars in derrick.;Lay down 12 1/4" intermediate BHA #2. Grade bit 1-3 with worn cutters on shoulder and gauge. Motor drained good, no visible damage.;Pull wear bushing. Clean and clear rig floor of unnecessary tools and equipment.;Safety meeting with Pipe Pros casing crew, Innovex DV tool technician and H&P rig personnel. Rig up and function test casing equipment and CRT. Install trip nipple. Bring all centralizers, contingency collar, plugs to rig floor.;Run 9 5/8", 40#, L80 HC, BTC intermediate casing as follows:

Shoe set at 7774' = 1.60'

2 joints casing = 73.85'

Float collar set at 7697.18' = 1.37'

70 joints casing = 2695.62'

Contingency collar set at 5000.06' = 1.50'

1 joint casing = 38.65'

DV tool/packer set at 4933.71' = 27.70'

130 joints casing = 4904.78'

Pup/mandrel and landing joint = 33.20' (4.27' of stick-up)(21 joints left out)

Ran centralizers every 3rd joint to 900'.

\*\*Hole stopped displacing while running casing at 2200\*\*.;Circulate casing capacity while rigging down casing equipment and rigging up cement equipment, circulate at 8-10 bpm with 450 psi with no returns. Held safety meeting with Trans Tex cementing crew and H&P rig personnel.;Cement 1st Stage as follows:

50 bbls fresh water spacer.

Lead Class H 50/50, 11.8 ppg, 2.44 cuft/sx, 13.71 gal/sx, 452 sx, 196 bbls.

Tail Class H, 15.6 ppg, 1.19 cuft/sx, 5.29 gal/sx, 263 sx, 55 bbls.

Drop plug and displaced with 598 bbls of fresh water.

Final lift pressure 1100 psi at 3 bpm. Bump plug with 1500 psi at 02:22 12/26/2019.;Pressure up to 2440 psi to inflate packer, took 0.5 bbls to inflate.

Bled back 2.5 bbls to truck with floats holding.

Drop opening bomb and let fall for 30 min.

Pressure up to 700 psi to open DV tool.;Circulate 2 bottoms up with full returns at 8 bpm 650 psi.;Cement 2nd Stage as follows:

20 bbls fresh water.

Lead Class C 50/50, 11.8 ppg, 2.43 cuft/sx, 13.73 gal/sx, 1502 sx, 650 bbls.

Tail Class C, 14.8 ppg, 1.34 cuft/sx, 6.43 gal/sx, 175 sx, 42 bbls.

ACTIVITY PLANNED: Trip in, Drill out, displace w/ obm, trip out, p/u curve assembly

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Dec 27 2019 MD: 7,799 TVD: 7,726 FOOTAGE: 5 MW: 10.3 LB PTD: 18,833

RIG SUPERVISOR: Travis McDermott PBTD:

PRESENT OPERATIONS: Tripping in with curve assembly

Cement 2nd Stage as follows:

20 bbls fresh water.

Lead Class C 50/50, 11.8 ppg, 2.43 cuft/sx, 13.73 gal/sx, 1502 sx, 650 bbls.

Tail Class C, 14.8 ppg, 1.34 cuft/sx, 6.43 gal/sx, 175 sx, 42 bbls.

Drop closing plug and displace with 374 bbls fresh water.

Final lift at 3 bpm 1100 psi, bump plug with 2200 psi to close DV tool at 07:20 12/26/2019.

Bled 3.5 bbls back to pump truck with floats holding.

Full returns throughout 2nd stage, circulated 124 bbls of cement to surface.;Rig down cementers. Wash through BOP

and flowlines.;Set 9 5/8" pack-off and test to 5000 psi. Burst rupture disc in pack-off for 5 1/2" pack-off.;Install wear

bushing. Prepare rig floor for trip.;Make up 8 3/4" milltooth bit and trip in hole to DV tool.;Fill pipe and wash down to

DV. Test casing to 1000 psi for 5 minutes. Tag and drill DV and contingency collar with 30 rpm and 450 gpm.;Test 9

5/8" intermediate casing to 2000 psi for 30 minutes, good test.;Continue trip in hole to float collar.;Drill cement and

float equipment. Clean out rathole from 7774' to 7794'.;Drill from 7794' to 7799';Circulate hole clean, attempt FIT to

11.5 ppg emw at 7700' tvd. 9.1 ppg water in annulus, 960 psi for 11.5 ppg emw.

First test at 0.25 bpm, pressure up to 774 psi. Formation bled to 699 psi, 10.8 ppg emw. Attempted second test with

similar result.

Check all surface equipment, replaced leaking 2" valve on rig floor and pop-off on mud pump #2.

Attempt third test at 0.25 bpm, pressure up to 768 psi. Formation bled to 686 psi, 10.8 ppg emw.;Trip out of hole with

drill out assembly to pick up curve assembly.;Make up curve bha, test, make up bit. 8 3/4" bit Security GTD64C with

6x16, 1.178 TFA. 6 3/4" motor, 2.38 FBH, 7/8, 6.4, slick.;Trip in with curve assembly to 2000'.

ACTIVITY PLANNED: Cut drill line, displace with obm, drill curve

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Dec 28 2019 MD: 8,112 TVD: 8,013 FOOTAGE: 313 MW: 9.7 LB PTD: 18,833

RIG SUPERVISOR: Travis McDermott

PBTD:

PRESENT OPERATIONS: Tripping curve assembly due to rop

Continue trip in hole with curve assembly to from 2000' to 7700'. Fill pipe.;Cut drill line and change saver sub.;Displace with 9.6 ppg OBM.;Drill 8 3/4" vertical from 7799' to 7835'. 20 RPM, 17K WOB, 9-12K TQ, 550 GPM, 2950 SPP, 200 DIFF.;Drill 8 3/4" curve from 7835' to 8112'. 0-25 RPM, 10-35K WOB, 500-600 GPM, 3000 SPP, 200 DIFF. Last survey at 8098' projects 26.8° at bit.;Flow check, pump slug.;Trip due to low rop in curve from 8112' to 4154'. Possible plug material encountered at 7500' while tripping, pulled an excess of 65k and slacked off an excess of 47k to work thru. Continue tripping out to inspect bha.

ACTIVITY PLANNED: Trip, Land Curve, Trip for lateral assembly

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|             |           |            |              |         |    |             |
|-------------|-----------|------------|--------------|---------|----|-------------|
| Dec 29 2019 | MD: 8,330 | TVD: 8,166 | FOOTAGE: 218 | MW: 9.7 | LB | PTD: 18,833 |
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| RIG SUPERVISOR: Travis McDermott | PBTD: |
|----------------------------------|-------|

PRESENT OPERATIONS: P/U lateral assembly

Continue trip out of hole with curve assembly from 4154' due to low rop.;Pull MWD tool, drain motor and break bit. No visible damage to motor, drained good. Bit grade 1-3 with damaged cutters on heel row of gauge.;Discuss plan / BHA with engineer and directional coordinator.;Make up 8 3/4" curve assembly BHA #7. Baker VG20M cone bit, MPact 6 3/4", 7/8, 6.4, 2.25° FBH, 0.28 RPG.;Trip in hole with BHA #7. Slowed down to trip through possible obstruction at 7500'. While slacking off at 7531', stacked 20K over normal slack-off then returned to normal slack-off weight. Picked up through spot and pulled 20K over normal pick-up weight then returned to normal pick-up weight. Tripped through spot 2 additional times with same result, tight spot did not move up or down hole.;Drill 8 3/4" curve from 8112' to 8330'. 40-45K wob, 550 gpm, 2800 spp, 250 diff.;Flow check, Pump slug;Trip out of hole with curve assembly and roller cone at 61° for lateral assembly.;Pull MWD tool, drain motor and break bit.;Make up 8 3/4" lateral assembly BHA #8. Ulterra SPL616 bit, 7", 7/8, 6.9, 1.75° FBH, 0.25 RPG.

ACTIVITY PLANNED: Trip in, land curve, drill ahead