

CONQUEST FEDERAL #1
DRILLING REPORT

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2-28-85 FIRST REPORT.
 Staked location 660' FEL & 660' FSL -
 Section 25-T8S-R35E. Built pad & roads.
 Preparing to move in Abbott Bros. rig & spud well.

3-01-85 Moved in Abbott Bros. Rig.
 Spudded well 12:00 Noon 2/28/85. Drilled to 15'.

3-02-85 Drilled to 25'.

3-06-85 Drilled to 35' in sandy clay.

3-07-85 Drilled to 45'.

3-09-85 Drilled to 50'.

3-12-85 Drilled to 54' in yellow clay.

3-14-85 Drilled to 62'.

3-20-85 Drilled to 65'.

3-21-85 Drilled to 69'.

3-22-85 Drilled to 74'.

3-27-85 Drilled to 78'.

3-28-85 Drilled to 82'.

4-02-85 Drilled to 90'.

4-04-85 Drilled to 98'.

4-07-85 Drilled to 104'.

4-10-85 Drilled to 108'.

4-12-85 Drilled to 111'.

4-17-85 Drilled to 114'.

4-18-85 Drilled to 117'.

4-19-85 Drilled to 120'.

4-20-85 Drilled to 123'.

4-24-85 Drilled to 126'.

5-01-85 Drilled to 130'.

5-04-85 Drilled to 134'.

5-10-85 Drilled to 140'.

5-14-85 Drilled to 143'.

5-17-85 Drilled to 146'.

5-18-85 Drilled to 149'.

5-24-85 Drilled to 152'.

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5-25-85 Drilled to 155'.
5-29-85 Drilled to 158'.
6-04-85 Drilled to 164'.
6-06-85 Drilled to 167'.
6-07-85 Drilled to 170'.
6-11-85 Drilled to 173'.
6-13-85 Drilled to 176'.
6-18-85 Drilled to 179'.
6-21-85 Drilled to 181'.
6-25-85 Drilled to 183'.
6-27-85 Drilled to 185'.
6-28-85 Drilled to 187'.
7-02-85 Drilled to 189'.
7-06-85 Drilled to 191'.
7-09-85 Drilled to 193'.
7-11-85 Drilled to 195'.
7-16-85 Drilled to 197'.
7-18-85 Drilled to 199'.
7-20-85 Drilled to 201'.
7-23-85 Drilled to 203'.

7-30-85 Drilled to 209'.
7-31-85 Drilled to 211'.
8-02-85 Drilled to 213'.
8-06-85 Drilled to 215'.
8-08-85 Drilled to 217'.
8-12-85 Drilled to 219'.
8-14-85 Drilled to 221'.
8-19-85 Drilled to 223'.
8-21-85 Drilled to 225'.
8-23-85 Drilled to 227'. Released Rig.
9-12-85 Built location and roads. Preparing to move in Cherokee Rig #7.
9-15-85 Moved in Cherokee Rig #7. Preparing to start drilling 9-16.
9-16-85 426'. Circulating to run surface csg. Started @ 12:01 AM.
Drilled 17 1/2" hole to 426'. 1/2° @ 227'. Finished hole
@ 6:00 AM.
9-17-85 1046'. Drlg w/fresh water & oil. Ran 10 jts 13 3/8" 54.5#
J-55 csg to 426' & cemented w/400 sx Class "C" containing
2% CaCl2. Circulated 100 sx. Plug down 9:30 AM.
WOC - 12 hrs. Tested csg 500 psi - 30 min - OK.
Tested BOP to 1000 psi. Deviation: 1/4° @ 426', 1/2° @ 735'.
28 loads fresh water.

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- 9-18-85 2700'. Making trip for bit.
Formation: Salt. Mud: Brine & 4% oil. Bit #2.
3 loads water.
- 9-19-85 3200'. Coming out of hole to run csg.
Mud: Brine w/gel 10.1 #/gal, Vis. 30, pH 10, trace of oil.
Deviation: 3/4° @ 2734', 3/4° @ 3200'. 10 loads brine.
- 9-20-85 3200' Drilling out. Ran 79 jts 8-5/8" 24+32# J-55 and
cemented at 3200' with 650 sx Halliburton Light cement
containing 18% salt, 1/4# flocele and 2% CaCl₂ and 300 sx
Class "C" containing 2% CaCl₂. Plug down 2:00pm 9/19/85.
Did not circulate. Waited 6 hours and ran temperature
survey. TOC 500'. Nipped up. WOC 15 hours. Tested
casing to 1000 psi - 30 minutes - OK. Drilled out with
7-7/8" bit and existing system. 18 loads water. Bit #4.
- 9-21-85 4094' Drilling w/cut brine.
Vis. 28, pH 10, Wt. 9.1 #/gal, Chlorides 34,000. Bit #4.
4 loads water.
- 9-22-85 4650' Drlg in lm w/cut brine.
Vis. 28, pH 9.6, Wt. 9.6 #/gal. Bit #4.
Deviation: 3/4° @ 4493'.
- 9-23-85 5145' Drlg in lm w/cut brine.
Vis. 29, pH 9, Wt. 9.5 #/gal, Chlorides 129,000. Bit #4.
Deviation: 3/4° @ 4991'. 7 loads water.
- 9-24-85 5600' Drlg in lm & shale.
Cut brine, Vis. 29, Wt. 9.5 #/gal, pH 9.8, Chl 129,000.
Deviation: 1° @ 5490'. Bit #4.
- 9-25-85 6176' Drlg w/cut brine.
Vis. 28, Wt. 9.8, Chlorides 148,000.
Deviation: 1 1/4° @ 5835'. Bit #4. 5 loads water.
- 9-26-85 6565' Drlg w/cut brine.
Vis. 29, Wt. 10, pH 9.5.
Deviation: 1 1/2° @ 6338'. 4 loads water.
- 9-27-85 6854' Drilling with cut brine.
Vis. 29, weight 9.8#/gal., pH 9.5, chlorides 150000.
Deviation 1° at 6440'. Bit #5. 3 loads water.
- 9-28-85 7184' Drlg w/cut brine.
Vis. 29, Wt. 10 #/gal, pH 10, Chlorides 150,000.
Deviation: 3/4° @ 7142'. 3 loads water.
- 9-29-85 7512' Mudding up.
Vis. 32, Wt. 10 #/gal, pH 10, Chlorides 150,000.
2 loads water.
- 9-30-85 7771' Drlg w/mud.
Vis. 36, Wt. 10.1 #/gal, pH 9, Chlorides 180,000.
4% oil. Deviation: 1° @ 7646'. Bit #5.

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10-01-85 8022' Drlg w/mud.
Vis. 36, Wt. 9.9 #/gal, 3% oil, Chlorides 150,000.
Bit #5. 3 loads water.

10-02-85 8258' Drlg w/mud.
Vis. 34, pH 8.5, Wt. 9.9 #/gal, Chlorides 144,000.
3% Oil. Deviation: 1° @ 8147'. Bit #5.

10-03-85 8388' Drlg w/mud.
Vis. 36, Wt. 9.9 #/gal, Chlorides 142,000, pH 8.5.
3% oil. Bit #6. 3 loads water.

10-04-85 8642' Drlg w/mud.
Vis. 37, Wt. 9.9 #/gal, pH 9, Chlorides 130,000,
3% oil. Bit #6.

10-05-85 8895' Drlg in shale w/mud.
Vis. 38, Wt. 9.8 #/gal, pH 9, Chlorides 122,000.
3.5% oil. Deviation: 1° @ 8646'. Bit #6.

10-06-85 9073' Drlg w/mud.
Vis. 39, Wt. 9.7 #/gal, pH 8.5, Chlorides 116,000.
Bit #6.

10-07-85 9125' Drlg in shale w/mud.
Vis. 38, Wt. 9.9 #/gal, pH 8.5, Chlorides 116,000.
3.5% oil. Deviation: 1/2° @ 9074'. Bit #7.

10-08-85 9244' Drlg w/mud.
Vis. 37, Wt. 9.7 #/gal, pH 9. Bit #8. 3 loads water.

10-09-85 9446' Drlg w/mud.
Vis. 38, Wt. 9.8 #/gal, pH 9, Chlorides 112,000.
4.5% oil. Bit #8.

10-10-85 9617' Drlg w/mud.
Vis. 41, Wt. 9.7 #/gal, W.L. 14, pH 10, 8% oil.
Bit #8. Deviation: 3/4° @ 9554'. 3 loads water.

10-11-85 9754' Drlg w/mud.
Vis. 38, Wt. 9.7 #/gal, W.L. 14, Chlorides 102000,
8% oil. Bit #8.

10-12-85 9813' Fishing. Had drlg break 9781'-9803'.
Drilled to 9813' & conditioned hole. Started out of
hole for DST #1. Stuck drill pipe & collars w/bit @
3714'. Spotted oil, could not work pipe free.
Ran free point. Found stuck @ 3468'. Backed off @
3064'. Left 21 6½" drill collars in hole.
Preparing to run fishing tools.

- 10-13-85 9813' Running in hole w/DST #1.
Ran fishing jars, accelerator, bumper sub & screw-in sub. Jarred loose & POH. Ran key seat wiper & worked through key seat. Ran to TD & POH w/no drag. Picked up DST tools.
- 10-14-85 9813'. Preparing to back off above DST tools. Opened tool for 45 minute initial flow. Had weak blow decreasing through flow period. SI for 90 minute initial closed in. Opened for 2 hr final flow w/very weak blow (no bubble to slight bubble) throughout flow. SI for 5 hr closed in period. Attempted to pull loose. Jarred w/testing jars until jars would not cycle. Could not back off VR safety joint. Rigged up free point. Could not go below 9624'. Preparing to back off at fourth drill collar.
- 10-15-85 9813'. Conditioning mud. Backed off w/shot @ 9589'. Left DST tools & 5 DC's. Could not pull wireline. Dropped cutters, left 2800' wire line. Pulled drill string & stripped out wireline. Picked up overshot & jars. Could not get below 9498'. Preparing to come out of hole for bit.
- 10-16-85 9813'. Conditioning mud to lower water loss. POH w/fishing tools & ran back in hole w/bit. Cleaned out to top of fish. Preparing to run wash pipe.
- 10-17-85 9813'. Coming out of hole. Mud - Vis. 42, W.L. 1 @ suction, 4 @ flowline. 6% oil. Conditioned mud & made 2 short trips. First trip, had drag on first two jts. Second trip was free.
- 10-18-85 9813'. Laying down wash pipe. -
Ran 7 jts wash pipe. Washed over drill collars and tools. Cut top packer and rubber. Started plugging. Did not cut bottom packer rubber. Circulated hole clean and pulled out of hole.
- 10-19-85 9813'. Preparing to run two jts wash pipe. Ran jars & screw in sub, engaged fish. Jarred 5 hrs - could not move fish. Attempted to release safety jt. Could not release. Had travel in safety jt & jars. Began to jar again while waiting on wireline cleanout tool. Broke safety jt mandrel. Retrieved 5 drill collars, circulating sub, sampler, tester valve, testing jars & gauge case. Chart indicated tools were plugged during test.

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- 10-20-85 9813'. Preparing to run wash pipe.
While picking up wash pipe, dropped first jt in hole.
Ran spear & engaged. While coming out of hole, stuck
in key seat @ 3460'-3470'. Ran outside shot & freed pipe.
POH w/1 jt wash pipe & spear.
- 10-21-85 9813'. Out of hole - preparing to run overshot & jars.
Ran wash pipe - had 40' fill on fish. Washed over
pkrs & to 9808' - could not go further. POH.
Had mark on outside of wash pipe 4' from bottom.
Appeared that metal was on outside of wash pipe.
Mud: Vis. 38, W.L. 50, Wt. 10.0 #/gal, pH 7.0,
Chlorides 112,000, 6% oil, 16% total solids,
total hardness 2353. Have 8 W.L. at suction.
- 10-22-85 9813'. Conditioning mud.
Mud 9.9 #/gal, Vis. 41, W.L. 20 @ suction, 50-60 W.L.
@ flowline. Ran jars, accelerator & overshot.
Had fill on fish. Washed down & engaged. Could not
jar loose. Released overshot & POH. Ran back in hole
w/bit. Began to condition mud.
- 10-23-85 9813'. Coming out of hole to pick-up wash pipe.
Made short trip - had small amt of fill.
Mud: Vis. 42, W.L. 4, Chl. 110,000, pH 9, 5% oil.
Mud tests indicated 16 ppm H₂S in mud.
Also shows probable bacteria contamination.
Added bacteriacide & H₂S scavenger - conditioned mud.
- 10-24-85 9813'. Washing over packers. Ran in hole with
washpipe. Cleared to bottom of bottom packer. Rotated
for 6 hours and could not go below that point. POH.
Shoe was not worn out or damaged. Changed shoe. Ran
back in hole. Had 3' fill on fish. Almost cleaned
out to previous depth. Mud - Wt. 10.1 #/gal, Vis. 42,
W.L. 2, pH 9, 115,000 Chl., Solids 6.8%, Oil 5%.
- 10-25-85 9813'. Pulling out of hole with fish. Washed over
fish to 9813'. Circulated hole clean and POH. Ran
overshot, jars and accelerator, engaged fish and
pulled free.

- 10-26-85 9848' Drlg.
Mud: 10.1 #/gal, Vis. 40, pH 9.5, W.L. 2,
Chlorides 110,000, Solids 6.8%, Oil 5%.
Cum. Cost \$22,777. Bit #8, Depth in 9813'.
Recovered fish, safety jt body, 2 testing pkr
assemblies, 36' perforated anchor & 1 gauge case.
Charts indicated tools plugged on initial opening.
Did not have any usable flow periods.
Pressure recorded by bottom gauge showed bleed off
to 127 psi @ end of test.
Lost 300 bbls mud after started drlg.
- 10-27-85 9946' Drlg in lm.
Mud: 10.0 #/gal, Vis. 39, pH 8, W.L. 3,
Chlorides 122,000, Oil 5%, Cum. Cost \$23,533.
Bit #8 - Depth in, 36 3/4 hrs.
- 10-28-85 9950' Waiting on Orders - Circulating.
Mud: 10.0 #/gal, Vis. 39, pH 8, W.L. 3,
Chlorides 122,000, Oil 5%, Cum. Cost \$23,533.
Deviation: 1° @ 9950'. Finished hole - circulated
3 hrs. Ran logs. Ran in hole w/bit - circulating.
- X 10-29-85 9950'. Running csg.
Circulated & waited on csg. Laid down drill pipe.
Started in hole w/5 1/2" production csg.
- 10-30-85 9950' TD.
Ran 249 jts. 5 1/2" 17# J-55 & N-80 csg - 9971' total -
& cemented @ 9950' w/300 sx 50/50 Class "H"/Pozmix
containing 2% gel, 5#/sk salt & .75% CFR-2.
Plug down 12:00 Noon 10/29/85.
Ran temperature survey after 6 hrs WOC.
TOC - 8400'. Shoe 4180'.
Released rig 8:30 PM.
- 11-04-85 Rigged up well service unit. -Preparing to begin
completion operations.
- 11-05-85 Picked up 2 3/8" tbg & ran bit, scraper & DC's to
PSTD 9893'. POH.
- 11-06-85 Ran correlation log. Ran in hole w/Baker Fullbore,
seating nipple & unloader valve. Swabbed tbg down.
- 11-07-85 Perforated Bough "D" w/1 shot per ft from 9861'-9867'.
Found 4000' FL when started swabbing. Swabbed 147 BW
in 6 hrs. Final hr - swabbed 14 bbls from 5500' FL.
Was down part of hr to work on oil saver. Swabbed 20
bbls in last full hr. This AM, had 25 psi SITP &
3200' FL after 15 hrs.