

Well Name: Newberry LS 2C
API #: 30-045-30581

Spud Date: 2/20/02
Spud Time: 2100 hrs

TD Date: 4/4/02
Rig Release Date: 4/9/02

7 1/16" 5M x 2 1/16" Tree Adapter/Cap
13-5/8" 3M x 7 1/16" 5M Tubing Head
13-5/8" 3M x 13-5/8" 3M Casing Spool
13-3/8" 8 RD x 13-5/8" 3M Casing Head

Surface Casing Date set: 2/21/02
Size 13 3/8 in
Set at 244 ft # Jnts: 5
Wt. 54.5 ppf Grade J-55
Hole Size 17 1/2 in
Wash Out 100 %
Est. T.O.C. 0 ft Csg Shoe 244 ft
TD of surface 254 ft

Notified BLM @ 1530 hrs on 2/20/02
Notified NMOCD @ 1420 hrs on 2/20/02

☒ New
☐ Used

Cement Date cmt'd: 2/21/02
330 sx Class H w/ 2% CaCl, 0.25 pps
Flocele, 16.4 ppg @ 1.04 ft³/sx

Displacement vol. & fluid.: 35.5 bbls FW
Time Plug Bumped: 2113 hrs
Pressured Up to on Plug: n/a
Returns during job: ☒ Yes ☐ No
CMT Returns to surface: 20 bbls
Floats Held: ☐ Yes ☐ No
W.O.C. for 45.5 hrs (plug bump to drlg cmt)

Kick-Off Plug #1 Date cmt'd: 03/20/02
Lead: 160 sx Class H w/ 3% KCL, 0.1%
HR-5, 16.4 ppg @ 1.07 ft³/sx

MDV Tool
2157'

Displacement volume & fluid:
6.5 bbls FW & 35 bbls mud
Returns during job: YES
Cmt Returns to surface: 0
W.O.C for 24 hrs
Tag TOC @ 3285 ft
Dress off plug to NA ft

See comments on page 2
about the Mechanical DV Tool

Kick-Off Plug #2 Date cmt'd: 03/22/02
Lead: 160 sx Class H w/ 3% KCL
16.7 ppg @ 1.04 ft³/sx

HDV Tool
3421'

Displacement volume & fluid:
12.9 bbls FW & 28 bbls mud
Returns during job: YES
Cmt Returns to surface: 0
W.O.C for 23 hrs
Tag TOC @ 3070 ft
Dress off plug to 3415 ft

Whipstock
3399' - 3410'

Cast Iron Bridge Plug
3432 ft

Casing collapsed at +/- 3840'

ECP Tool
3432'

DV Tool
4008 ft

Notified BLM @ hrs
on 03/20/02
Notified NMOCD @ hrs
on 03/20/02

Float Collar
5445 ft
5.5" Casing shoe
5538 ft

Casing shoe
4637 ft
Intermediate TD 4645 ft

TD 7502 ft Mud Wt. @ TD 9.3 ppg

COMMENTS:

Surface: Did not run float equipment or baffle plate. Displaced plug to calculated depth of 214', shut-in with 130 psi for 4 hours.
Kick-Off Plug: Smith whipstock set on 3/18/02 at 3399' - 3410'. A window was cut in the casing 3399-3410' and sidetracking attempted. The bit followed the original wellbore and contacted the casing at +/- 3514'. A balanced cement plug was set but did not set up properly. A second cement plug was set and the well sidetracked using the whipstock and cement plug.

CENTRALIZERS:

Surface: 233', 152', & 62'
Total: 3

Intermediate Casing Date set: 03/08/02
Size 8 5/8 in
Set at 4637 ft # Jnts: 103
Wt. 24 ppf Grade J-55
Hole Size 12 1/4 in
Wash Out 52 %
Est. T.O.C. 0 ft

☒ New
☐ Used

Notified BLM @ 0956 hrs on 03/07/02
Notified NMOCD @ 1000 hrs on 03/07/02

Intermediate

Cement - 1st Stage Date cmt'd: 03/08/02
Lead: 280 sx 50/50 POZ H w/ 3% Gel, 0.4%
Halad-344, 0.2% CFR-3, 0.1% HR-5,
20 pps blended silicalite, & 0.25 pps
Flocele, 12.8 ppg @ 1.7 ft³/sx
Displacement vol. & fluid.: SEE COMMENTS
Time Plug Bumped: 1725 hrs
Pressured Up to on Plug: 750 psi
Returns during job: ☒ Yes ☐ No
Returns to surface: 0
Floats Held: ☒ Yes ☐ No

Intermediate

Cement - 2nd Stage Date cmt'd: 03/09/02
Lead: 1090 sx Class H w/ 3% Econolite, 10 pps
blended silicalite, 0.5 pps Flocele
11.4 ppg @ 2.83 ft³/sx
Displacement vol. & fluid.: SEE COMMENTS
Time Plug Bumped: 0100 hrs
Pressured Up to on Plug: 2000 psi
Returns during job: ☒ Yes ☐ No
Returns to surface: 285 bbls
Floats Held: ☒ Yes ☐ No

Production Casing Date set: 04/08/02
Size 5 1/2 in
Wt. 15.5 ppf Grade J-55 from 0 to 5538 ft
122 JTS
Hole Size 7 7/8 in
Wash Out: 60 %
Est. T.O.C. 100' +/- ft
Marker jnt @ 4935 ft
Marker jnt @ 4929 ft
Marker jnt @ 2092 ft

☒ New
☐ Used

Notified BLM @ 1343 HRS
on 4/7/2002
Notified NMOCD @ 1345 HRS
on 4/7/2002

Production

Cement - 1st Stage Date cmt'd: 4/8/02
Lead: 540 SX 50/50 POZ H W/3% GEL, 0.4%
HALAD-344, 0.2% CFR-3, 0.1% HR-5,
20 PPS BLENDED SILICALITE & 0.25
PPS FLOCELE MIXED @ 12.8 PPG &
1.7 CUFT/SX

Displacement vol. & fluid.: SEE COMMENTS
Time Plug Bumped: 2347HRS
Pressured Up to on Plug: 570 PSI
Returns during job: ☐ Yes ☒ No
CMT Returns to surface: 0 BBLS.
Floats Held: ☒ Yes ☐ No

Production

Cement - 2nd Stage Date cmt'd: 4/9/02
Lead: 160 SX CLASS H W/3% ECONOLITE,
10 PPS BLENDED SILICALITE, 0.25
PPS FLOCELE MIXED @ 11.4 PPG &
2.83 CUFT/SX

Tail: 230 SX 50/50 POZ H W/3% GEL, 0.4%
HALAD-344, 0.2% CFR-3, 0.1% HR-5,
20 PPS BLENDED SILICALITE & 0.25
PPS FLOCELE MIXED @ 12.8 PPG &
1.7 CUFT/SX

Displacement vol. & fluid.: SEE BELOW
Time Plug Bumped: 1217 HRS
Pressured Up to on Plug: 2000 PSI
Returns during job: ☒ Yes ☐ No
CMT Returns to surface: 0 BBLS.
Floats Held: ☒ Yes ☐ No

COMMENTS:

Intermediate: DISPLACEMENT: 1ST STAGE 40 BBLS FW & 249.5 BBLS. MUD, 2ND STAGE: 10 BBLS. FW & 245.3 BBLS. MUD

Production: CASING STUCK @ 5538' WHILE RUNNING ECP ASSY THRU WINDOW/WHIPSTOCK.
LOST COMPLETE RETURNS AFTER PUMPING 129 BBLS. CMT ON 1ST STAGE. CUT AMOUNT OF CMT SHORT.
NO INDICATION THAT ECP INFLATED & HELD.
DISPLACEMENT: 1ST STAGE: 70 BBLS. FRESH WATER & 60.2 BBLS. 9.3 PPG MUD
DISPLACEMENT: 2ND STAGE: 20 BBLS. FRESH WATER & 61.5 BBLS. 8.8 PPG MUD
Mechanical DV tool was not used. Will need to go in with opening/closing tool. Get with Dan Pousson @ Weatherford (505) 326-5141

NOTE: Jim Lovato w/ BLM & Charlie Perrin w/ NMOCD gave approval to set & cement casing off bottom, with the condition of drilling out the shoe and setting a cement plug to isolate the GLLP & DKTA formations.
Get with them to discuss plans on completion.

CENTRALIZERS:

Intermediate: 4627', 4565', 4477', 4390', 4300', 4210', 4030', 3982', 3487', 2993', 2496', 1999', 1503', 1008', 647', 601', 220', & 175'.

Total: 18

Production: 5528', 5469', 5377', 5287', 5197', 5152', 4546', 4050', 3634', 3452', 3427', 3409', 3172', 3037', 2901', 2766', 2631', 2496', 2361', 2271', 2181', 2114', 1483', 1438' & 1393'.

Total: 25