

1 jt 17# N-80 marker	10.21'	@ 9402' -9412'
22 jts 17# N-80 casing	961.27'	
1 Davis Lynch DV Tool #1	2.04'	@ 8439' -8441'
4 jts 17# N-80 casing	174.60'	
3 jts 17# N-80 Sandblasted casing	130.70'	@ 8133' -8264'
1 jt 17# N-80 marker	9.60'	@ 8124' -8133'
83 jts 17# N-80 casing	3656.91'	
1 Davis Lynch DV Tool #2	2.05'	@ 4465' -4467'
<u>102 jts</u> 17# N-80 casing	<u>4482.44'</u>	
252 jts total	10974.26'	
	<u>32.09'</u>	
Less cut-off	10942.17	
Below KB	14.50'	
Landed @	10956.67'	

Rig released at 11:00 pm CDT 6-27-98.

7-9-98: RUPU. RIW and drilled out cement and DV tools to PBTD of 10,950'. Pressure tested casing to 500 psig. POW with tubing and tools. RU wire line. Ran cement bond log from PBTD of 10,946' to 2250' and GR/CCL/Neutron log from 10,946' to surface with 1000 psi pressure. Top of cement 4390' per bond log.

7-14-98: RUWL and perforated 5-1/2" casing at 4380' with 3-3/8" gun with 4 JSPF. RDWL. RU BJ Services and pumped 5 bfw to establish circulation. Circulated 290 bfw through squeeze holes at 4.5 to 5 bpm rate. RIW with 5-1/2" Howco EZ Drill cement retainer and tubing. Pumped 10 bfw through retainer. Tested tubing to 3000 psi and set retainer at 4293'. Trapped 500 psi on tubing-casing annulus. Mixed and pumped 800 sx Super "C" Modified cement containing 3#/sk salt, 8#/sk gilsonite, 0.2% SMS, 0.1% CD-32, 0.5% FL-32 (s.w. 13.0 ppg, yield 1.64 cuft/sx), + 100 sx Class "C" cement with 2% CaCl₂ (s.w. 14.8 ppg, yield 1.32 cuft/sx). Displaced with 24.5 bfw and circulated 185 sx cement to pit. Stung out of retainer. Reversed tubing clean with 32 bfw. POW with tubing. RIW with 4-5/8" bit, 5-1/2" casing scraper, and 58 stands of tubing. SI at BOP. SDON.

RIW with 10 stands of tubing. Tagged retainer at 4293'. Drilled retainer and cement to 4390' in 3-1/2 hours. Tested squeeze holes to 1500 psi for 30 minutes. Released pressure. RIW with tubing to 10,930'. SI at BOP.

DST Summaries

DST No.1 (3669'-3733'):

Opened tool at 6:41 pm CST 5-13-98 with good blow to bottom of bucket.

1" 5 psi on 1/8" choke

2" 9 psi on 1/8" choke

5" 15-1/2 psi on 1/8" choke

6" 17 psi on 1/8" choke

Closed tool at 6:47 pm CST 5-13-98. Tool closed for 1 hour.

Re-opened tool at 7:47 pm CST 5-13-98 in 1/4" choke

1" 9 psi

5" 14 psi

15" 8 psi

Changed to 1/8" choke

20" 13 psi