

# Kaiser-Francis Oil Company

## South Bell Lake Unit #1-A

330' FSL, 2970' FEL  
Section 31, T23S, R33E  
Lea County, New Mexico  
API # 30-025-08488

HOBBS OCD

MAR 04 2014

RECEIVED

### WELL DATA

TD: 15,120'  
PBTD: 6698' - CIBP w/ 20' of cement on top (from log run 3/1/14)  
Elevation: GL Elev. = 3617'  
DF Elev. = 3633'

Surface Casing: 13-3/8" 48# @ 1254' cemented to surf. w/ 1250 sx

Intermediate Csg: 9-5/8" 40# @ 6000' cemented to surface w/ 3145 sx

Intermediate Csg: 7" 23/26/29/32# @ 12,545' cmted w/ 1000 sx (TOC @ 3460' by CBL)

Production Liner: 4-1/2" FJ from 15,072' to 12,069' – abandoned

P&A Plugs: CIBP @ 13,555' w/ 100' cmt on top (TOC = 13,455')  
CIBP @ 13,100' w/ 90' cmt on top (TOC = 13,010')  
CIBP @ 11,875' w/ 10 sx on top (est TOC = 11,825')  
CIBP @ 6700' w/ 20' cmt on top (TOC = 6680')

### PROCEDURE

- 1) Notify State of New Mexico 24 hrs prior to commencing. Prior to rigging up, notify all parties on location that no junk is to be disposed of down the wellbore for any reason. Verify that wellhead valve is accessible for 9-5/8"x7" csg annulus, and 13-3/8"x9-5/8" annulus and check pressures on both. Check pressure on 7".
- 2) ND WH, NU BOP. Take delivery of 6800' of 2-7/8" work string. TIH w/ tbg to PBTD and circ hole with plug mud (9.5# brine mixed w/ 25 sx gel per 100 bbls). POOH and spot 35 sx Class C neat cmt from 6050' to +/-5840' (actual top of cmt will depend on yield). SD to let cmt set, and tag to verify that TOC is at 5950' or higher.
- 3) POOH and stand back 3000' of tbg. RU WL and perf 8 holes @ 3080'. Pump into perms with enough mud to establish that circulation can be obtained. TIH

w/ cmt retainer (make sure retainer will set in casing from 23# to 32#) and set at 3000'. Circulate cement through holes and up 7"x9-5/8" annulus to surface. Volume of cement = 85 bbls of light cmt (mixed at approx. 12.4# with 1.98 ft<sup>3</sup>/sk yield) plus 13 bbls of Class C neat tail. Shut down with 2 bbls cmt remaining in tbg, spot 2 bbls on top of retainer.

- 4) POOH 2610' and spot 30 sx Class C + 2% CaCl<sub>2</sub>.
- 5) POOH to 1330' and spot 35 sx Class C + 2% CaCl<sub>2</sub>. WOC and verify cement depth by tagging. Top of plug must be at 1180' or higher.
- 6) POOH. Spot 22 ft<sup>3</sup> surface cmt plug from 100' – 4'. Verify cement to surface in all annuluses and fill with cmt as needed. ND BOP. RD MO rig. Cut off csg below GL and weld on cap. Restore location.

**Kaiser-Francis****South Bell Lake #1A**

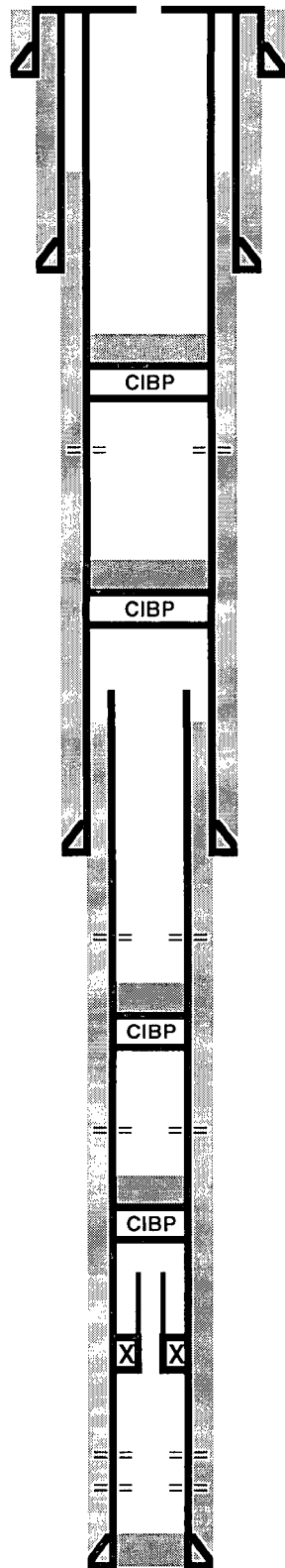
**Location:** 330' FSL, 2970' FEL, (SE-SW) Sec 31,  
T23S, R34E  
**County:** Lea  
**State:** New Mexico  
**Elevation:** DF - 3633'

**API -** 30-025-08488

**Spud Date:** 6/19/54

**Completed:** 4/55

**Diagram:** Updated - 2/10/14

**Work History:**

13-3/8" 48# @ 1254' w/ 1250 sx

TOC - 3,460'

9 5/8" 40# @ 6000' w/ 3145 sx

CIBP 6700' w/ 20' cement on top.

Cherry Canyon Perfs 6800'-6820' O/A

CIBP at 11875' w/ 10 sx cmt on top

TOL - 12,069'

TOC 12,158' (TS)

7" 23/26/29/32# @ 12,545' w/ 1000 sx,  
Orig TOC - 8024' by TS

Atoka Perfs 12,561'-12,586' O/A

CIBP 13,100' w/ 5 sx (90') cmt on top

Morrow Perfs 13,406'-13,432' O/A

CIBP at 13,555' w/ 100' cmt on top

1260' 2 3/8" tbg

Mod K 14820'

Devonian Perfs

14,942'-15,025' O/A

15,055'-15,070' O/A

4 1/2" FJ 15072' w/ 250 sx

PBTD: 6680'

TD: 15,120'

**SPUD: 06/19/54** - Drilled by Continental Oil Co. Atoka Core #1 - 12,551'-601'. DST #1 - 12,545'-601', 1390 mcfd, 30 bwph. Core #2 - 12,601'-656'. DST #2 - 12,638'-656', recov 30' mud, tr gas, no oil or wtr. Core #3 - 12,656'-699'. Whipstocked @ 14,785', no other details...

**COMPLETION - 4/55:** Perf Devonian: 15,055'-70' (60 holes), flwd 6165 mcfd, 24 bwph. Test pkr was set above liner top, notes indicate concerns about poss wtr from Atoka. Perf 14942'-15,025' (332 holes). Az 14,942'-15,025' w/ 2000 gal - AOF 15.5 MMCFD. Reports indicate 15,055'-70' may have been plugged off. Recov 3.5 BCF from Devonian.

**08/67:** TA well. - Cut off tbg at 13,560'. Mod K Pkr 14820'. Set CIBP @ 13,555' w/ 100' cmt on top. PBTD 13,455'. Fill w/8.5# mud.

**03/68:** Perf Morrow 13,406'-13,432'. Recov 2.3 BCF from Morrow, wtrd out.

**12/81:** Spent weeks recovering junk. Set CIBP at 13,100' w/ 5 sx cmt on top. (PBTD 13,010'). PFL ATOKA: 12561, 63, 71, 73, 76, 84, 86. Az w/ 2000 gal 15% NEFE. Recov 227 BW, no gas. SI 3/13/81.

**04/89:** Perf: Cherry Canyon: 6800, 3, 5, 9, 11, 13, 15, 20 [6800'-6820' O/A]. Frac w/14284 g gel 30% CO2 + 20/40 sd

**05/06:** Set CIBP @ 6700' and dump 20' cmt on top. Ran MIT.

**02/12:** Ran MIT. Tested to 500#.