

Elev: 3627 GL 3647 KB

PLN 276227

21 Jan 94

**Fed KL 17-#1**  
**Empire Morrow S.**  
**Eddy County, New Mexico**  
**F Sec 17-17S-29E**  
**1840 FNL, 1980 FWL**  
WI: 1.000000 RI: 0.8650000

13-7/8", 54.5# K55 csg @ 407'  
w/ 570 sx, (17-1/2" hole), circ.

9-5/8", 43.5# N80 csg @ 2612'  
cmt w/ 2058 sx, (12-1/4" hole)  
(used DV tool); circ

TOC 8000' (CBL)

Guiberson on-off tool w/ 1.875" F profile  
Baker Lokset pkr @ 10215', set w/ 15,000# C

Perf Atoka 10,296-308' w/ 4 JSPF (6/2/87)

Baker "FWV" check valve w/ 1.875" profile  
Baker Lokset pkr @ 10,449'

Perf Morrow 10,500-510'  
10,518-533'  
10,541-550' (12/6/81)

Vann gun fish @ 10,553' (12/6/81)  
Cement retainer @ 10616'  
Perf L. Morrow 10628-636' (11/7/81)

5-1/2", 17# N80 csg @ 10736'  
cmt w/ 860 sx (7-7/8" hole)

TD - 10732'

PBTD: 10553'

lease #: NM 0397623

8/23/81: spud

11/7/81: Perf L. Morrow 10628-636' w/ Vann TCP gun

11/8/81: Acidz w/ 1200 G (pump total 168 bbls, acid, CO2, flush)

11/14/81: frac 10628-636' w/ Halliburton

12/3/81: fish Vann gun assembly from hole

12/4/81: set cmt retainer @ 10,620', sqz off perfs 10628-636'

12/6/81: Perf Morrow 10500-510; 518-533; 541-550; w/ Vann TCP gun; did  
not appear that all shots fired; drop Vann gun & prep to perf again

12/7/81: Reperf same intervals w/ thru-tbg gun

12/8/81: Acidz w/ Western: 6800 G 7-1/2% MS acid + 41 tons CO2; MIR  
5.5 bpm, MTP 8000#; pump in 4 stages, drop 40-7/8" BS after end of  
first three stages; ISIP 4100, 5 min 3800, 10 min 3600, 15 min 3400, 1 hr 2500

12/81: BHA: 1 jt 2-3/8" N80 ABC mod tbg; (2)-10' 2-3/8" N80 ABC Mod tbg  
subs, (335) jts 2-3/8" N80 ABC Mod tbg; on-off tool w/ "FL" receptacle cut  
to 1.875" profile; 5-1/2" Baker Lokset pkr.

1984: Tenneco proposed & filed Sundry notice to add 12 SPF to Morrow  
nothing in files to indicate they did work

8/25/86: TOC filed Sundry notice to downhole commingle; no evidence of approval

4/28/87: TOC filed Sundry notice to recomplate to Atoka

6/2/87: Perf Atoka w/ 4 SPF Vann gun @ 10,296-308'; intents filed w/ NMOCD &  
BLM, but no report after work done

1988: Lease acquired by Fina

1991: Fina got offer on well; RBates tried to RIH w/ BHP bomb before  
attempting Atoka recompletion; found a restriction in tbg @ approx 10,100'  
abandoned plans for Atoka

8/1/93: hook up to GPM (Phillips) low pressure line (25#)

10/93: make plans to frac 10500-550' to accelerate recovery; then recompl  
to the Atoka @ 10296-308'.

1/17/94: Begin work to frac Morrow; on 18th discovered TOC had perfed Atoka  
(Fina received no files from TOC covering any of work done from 1982 on)

1/18/94: abort workover; begin to put well back in same condition as it was; call BLM

1/21/94: well put back on sales.

files reviewed: 10/22/93