

STATE 31 NO. 1WELL HISTORY

LOCATION: 1,980' FROM NORTH LINE, 660' FROM EAST LINE, SECTION 31-11S-35E, LEA COUNTY, NEW MEXICO.

CONTRACTOR: TRG Drilling Corporation

4/23/75	Building location.	
4/25/75		
4/26/75	Moved in and rigged up. Preparing to spud.	
4/27/75	D 304' (304'). SPUDED AT 8:45 P.M., 4/26/75. 1/4 degree at 300'. Running 13-3/8" casing.	
4/28/75	D 1,320' (1,016'). 1/2 degree at 800'. Ran 10 joints, 13-3/8", 54.50#, K-55, ST&C, casing; set at 304'. Cemented with 325 sacks, Class C, with 2% CaCl ₂ . Plug down at 8:45 A.M., 4/27/75. Had cement returns. Drilled out at 9 P.M., 4/27/75. CDC, \$116,100.	
4/29/75	D 2,160' (840'). Mud weight, 9.5#; viscosity, 36 sec. 1/2 degree at 1,300' and 1,800'; 3/4 degree at 1,900'. CMC, \$600; CDC, \$117,700.	
4/30/75	D 2,882' (722'). Mud weight, 9.4#; viscosity, 35 sec. 3/4 degree at 2,200'. CMC, \$800; CDC, \$117,900.	
5/ 1/75	D 3,470' (588'). Mud weight, 10.2#; viscosity, 35 sec. 1 degree at 2,875' and 3,375'.	
5/ 2/75	D 3,845' (375'). Mud weight 10.2#; viscosity, water. 1-1/2 degrees at 3,600'. CMC, \$1,200; CDC, \$119,100.	
5/ 3/75	D 4,212' (367'). Mud weight, 10.0#; viscosity, 35 sec. 3/4° at 3,970'. Circulating.	
5/ 4/75	D 4,255'. (43'). Mud weight, 10.0#; viscosity, 35 sec. 1/2° at 4,212'. Rigged up and ran 106 jts, 8-5/8" casing. Set at 4,212'. Cemented with 225 sxs Class "C" plus 2% CaCl. Plug down at 6 PM, 5/3/75. Waited on cement, 6 hrs. Drilled plug and 45' cement. Drilling.	
5/4/75	36 jts, 32#, K-55, LT&C, 8-5/8" 8rd R3	1062.30'
	59 " , 28#, H-40, ST&C, 8-5/8" 8rd R3	3071.93'
	2 " , 32#, K-55, LT&C, 8-5/8" 8rd R3	83.39'
		4217.62'
	Less up on Landing joint	5.00'
		Seat 4212.62'
5/5/75	D 4,710' (455'). Mud weight, 9.0#, viscosity, water. Drilling.	
5/6/75	D 5,320' (610'). Viscosity, water. 1/2° at 4,780'; 3/4° at 5,250' Drilling. CMC, \$2,000; CDC \$119,900.	

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5/ 7/75 D 5,766' (446'). Mud weight, 8.5#; viscosity, water. 3/4° at 5,750'.
Tripping.

5/ 8/75 D 6,255' (489'). Mud weight, 8.5#; viscosity, water. Drilling. CMC, \$1,296;
CDC, \$169,090.

5/ 9/75 D 6,650' (395'). Mud weight, 8.5#; viscosity, water. 1° at 6,250'.
Drilling. \$169,290.

5/10/75 D 6,905' (255'). Mud weight, 9.4#; viscosity, water. 1/2° at 6,670'.
Drilling.

5/11/75 D 7,365' (460'). Mud weight, 9.6#; viscosity, water. Drilling.

5/12/75 D 7,655' (290'). Mud weight, 9.5#; viscosity, water. 1° at 7,150'; 3/4°
at 7,408'. Drilling.

5/13/75 D 8,025' (370'). Mud weight, 9.6#; viscosity, 45 sec. 1° at 7,900'.
Drilling. CMC, \$1,296; CDC, \$169,290.

5/14/75 D 8,225' (200'). Mud weight, 9.6#; viscosity, 46 sec; water loss, no control;
oil, 7%. 1° at 8,180'. Drilling in lime and shale. CDC, \$170,290.

5/15/75 D 8,440' (215'). Mud weight, 9.8#; viscosity, 45 sec; water loss, no control;
% oil 6-1/2. Drilling in lime and shale. CDC, \$209,273.

5/16/75 D 8,650' (210'). Mud weight, 9.9#; viscosity, 46 sec; water loss, no control;
%oil, 6. Drilling. CDC, \$213,033.

5/17/75 D 8,900' (250'). Mud weight, 9.8#; viscosity 43 sec; %oil, 6. 1-1/4° at
8,650'. Drilling.

5/18/75 D 9,045' (145'). Mud weight, 9.8#; viscosity, 42 sec; %oil, 6. 1-3/4° at
8,870'. Drilling.

5/19/75 D 9,270' (225'). Mud weight, 9.8#; viscosity, 43 sec; % oil, 6. Drilling
in lime and shale. CDC, \$213,533.

5/20/75 D 9,470' (200'). Mud weight, 10.1#; viscosity, 40 sec; water loss, no control;
%oil, 7. 1-1/2° at 9,350'. Drilling in lime and shale. CMC, \$2,582;
CDC, \$213,033.

5/21/75 D 9,660' (190'). Mud weight, 10.1#; viscosity, 44 sec; %oil, 6.
Drilling in lime and shale. CMC, \$2,582; CDC, \$213,033.

5/22/75 D 9,757' (97'). Mud weight, 10.2#; viscosity, 42 sec; % oil, 6. 2-1/4° at
9,700'. Drilling in lime and shale. CMC, \$2,979; CDC, \$213,517.

5/23/75 D 9,925' (168'). Mud weight, 10.3#; viscosity, 52 sec; water loss, 28 cc.
Drilling in lime and shale. CMC, \$2,979; CDC, \$213,517.

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- 5/24/75 D 10,029' (104'). Mud weight, 10.0#; viscosity, 47 sec; water loss, 9.6 cc. Drilling in lime.
- 5/25/75 D 10,085' (56'). Mud weight, 10.2#; viscosity, 45 sec; water loss, 10 cc.. 1-3/4" at 10,080'. Drilled to 10,085'; reached total depth at 2:15 PM. Took steel line measurement; no correction. Rigging up to log.
- 5/26/75 TD 10,085' (driller). Mud weight, 10.2#; viscosity, 48 sec; water loss, 10 cc; Circulated and conditioned to log. Rigged up and ran Schlumberger DILL, Density CNL and Sonic, 4,200' - 10,091'. Rigged up to run drillstem test No. 1. Running drillstem test No. 1.
- 5/27/75 TD 10,091' (Schlumberger). Set packer at 10,048'. Drillstem Test No. 1 - 10,048' - 10,091' - Bough "B":
Opened on 3/8" bottomhole choke with good blow; no water cushion. Gas to surface in 11 minutes. Initial open 15 minutes; ISI, 60 minutes. Maximum build up at surface, 20#. Opened on 1/4" choke, 90 minutes; shut in. Recovered 6,000' oil and gas (50% oil, small amount of water); 46.8° API gravity oil. Bottomhole temperate, 148° F.
- | <u>1st Test</u> | | | | <u>2nd Test</u> | | | |
|-----------------|------|----|------|-----------------|------|-----|-----------|
| IH | 5567 | FH | 5394 | | | | |
| IF | 1140 | FF | 1349 | IF | 1288 | FF | 2543 |
| ISI (BH) | 3119 | | | | | FSI | 3169 (BH) |
- Calculated BH (static) 3264#. Estimated oil productio, 238 bbls/day; water, 400 bbls/day; chlorides, 92.5 ppm. Total production 638 bbls/day. Rigged up to run HOWCO Straddle packer test, 4,940' - 5,043' - San Andres. Running drillstem test No. 2. CMC, \$5,697; CDC, \$232,835.
- 5/28/75 TD 10,091'. Mud weight, 10.0#; viscosity, 50 sec; water loss, 10 cc. Attempted to set packers for DST No. 2; failed. Pulled out of hole; loaded out test tools. Went in hole to bottom; washed 3' of fill. Circulated. Waiting on 5-1/2" casing. CMC, \$8,926; CDC, \$250,000; CCC, \$840; CWC, \$250,840.
- 5/29/75 TD 10,091'. Mud weight, 10.0#. Circulated while waiting on 5-1/2" casing, 11 hrs. Unloaded and measured casing on rack. Laid down 4-1/2" drill pipe. Rigged up and ran 6,000' 5-1/2" casing. Running 5-1/2" casing. CMC, \$8,926; CDC, \$250,000; CCC, \$2,975; CWC, \$252,975.

5/30/75 TD 10,091'. Ran 240 jts, 17# and 15.5#, N-80 and K-55, LT&C new 5-1/2" casing as follows:

22 jts 17# N-80 LT&C	989.57'
29 jts 17# K-55 LT&C	1165.66'
79 jts 15.5#; K-55 LT&C	3280.95'
HOWCO DV Tool	2.85'
3 jts 15.5# K-55 LT&C	121.14'
50 jts 17# K-55 LT&C	1983.09'
57 jts 17# N-80 LT&C	2560.72'
HOWCO Float Collar	1.50'
HOWCO Float Shoe	1.65'
240 jts	10107.13'
Less above rotary	16.13'
Set at	10091.00'

DV Tool	Top	5,420.05'
	Bottom	5,422.90'

Top of Float Collar 10,087.85'

Top of Float Shoe 10,089.35'

Rigged up HOWCO and cemented first stage with 300 sxs Lite-wate with 15% salt plus .6% Hallad 22, plus 275 sxs Class "C" with 8% salt plus .6% Hallad 22. Dropped bomb and opened DV tool. Circulated through DV tool, 6 hrs. Cemented second stage with 450 sxs Class "C" with 6% salt plus .6% CFUR. Plug down at 7:30 AM, 5/30/75, with 1500#. Set casing slips. Nippled up tubing head and blowout preventers. Waited on cement, 10-1/2 hrs. Waiting on cement. CMC, \$8,926; CDC, \$250,000; CCC, \$75,974; CWC, \$325,974.

5/31/75 TD 10,091'. Waited on tubing, 11-1/2 hrs. Pulled up 162 jts, 5,420' to DV tool. Drilled 120' cement and DV tool. Picking up tubing.

6/ 1/75 TD 10,091'. Finished picking up 2-7/8" tubing. Drilled floact collar and plug. Tested casing to 2,000#; O.K. Pulled out of hole; laid down drill collars. Rigged up McCullough. Logging.

6/ 2/75 PBTD 10,089'. Ran GR-IES and CBL Sonic logs. Rigged up and ran 318 jts. 2-7/8" J-55 6.5# EUE tubing to 9,879'. Seating nipple at 6,014'.

Completion string:	Rotary elevation	9.00'
	318 jts 2-7/8 J-55 6.5# EUE tbg	9879.00'
	Baker Model "R" Packer	8.00'
	Packer set at	9896.00'

Tested packer to 1500#; O.K. Nippled down blowout preventers; installed tree. Cleaned mud tanks. Rigged down derrick. RIG RELEASED 12 Midnight, 6/1/75. Waiting on swabbing unit.

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