

DATE 7/10/57

THE OHIO OIL CO.

FIELD ~~Fletcher-Retz~~

HISTORY OF OIL OR GAS WELL

WELL NO. 1 LEASE Government 020500 SEC 23 TWP. 28N R. 11W

STATE New Mexico COUNTY San Juan

1190' from South line

1190' from West line

NE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$

KB Elev. 5552'

(Top of Oil String Grad Elev. 5542')

History Prepared By GEORGE SUSICH

Measurements (Top of Rotary Table _____)

Taken From (Grd. or Mat _____)

TITLE _____

DATE Contractor: San Juan Drilling Co. Rig #12.

7/10/51 MIRT. Rigged up, broke tour, drilled rat hole, spudded 13 3/4" surface hole at 6:00 P.M. Drilled 175' of surface hole. Circulated 1 hour. Came out of hole to run casing.

7/11/57 TD 175'. Rigged up to run casing. Ran 5 Jts 10 3/4" O.D., 32.75#, 8 Rd, H-40 casing:
156.47 Net
9.30 Mat to KB
1.33 Below Mat
167.10

Belled bottom joint and landed same at 167.10 KB. Cemented with 100 sacks regular cement. Displaced casing with 16.5 barrels water. Plug down @ 3:00 A.M. Good returns on cement. Top of plug in casing at 145' KB. W.O.C.

7/12/57 TD 1279'. W.O.C. Pressured surface casing with 600 psi for 1/2 hr. Casing OK. Drilled out at midnight. Top of cement at 145' KB. Drilled 22 feet cement. Drilling ahead with Bit #1 RR Smith DT 7 7/8", 175' to 523'. Made trip for Bit #2 Smith DT 7 7/8", 523' to 1618'. Encountered water flow @ 500'. Gas blow at 1295'. Well unloading every ten minutes. Used water for drilling fluid.

7/13/57 TD 1618'. Finished drilling hole to 1618'. Circulated 1 hour, came out of hole to run Schlumberger. Ran Schlumberger Micro-Caliper Log from 167-1598'. ES-Induction Log from 167' to 1608'. Schlumberger TD 1608', Drillers TD 1618'.

Schlumberger Tops:

Kirtland SS	528' (+ 5024')
Farmington SS	836' (+ 4716')
Fruitland SS	1292' (+ 4260')
Pictured Cliff SS	1494' (+ 4058')
Lewis Shale	1590' (+ 3962')

Went in hole with bit, cleaned out to bottom, circulated 1 hour, came out of hole laying down drill pipe. Rigged up to run casing.

Ran 48 Jts 5 1/2" O.D., 15 1/4#, 8 Rd, J-55 casing: 1600.55 Net
Baker Guide Shoe 1.37
Baker Float Collar 1.53
1603.45 Total

Spotted centralizer @ 1564'. Landed shoe @ 1600' KB. Cemented casing with 600 sacks regular cement (2% jel) by HOWCO. Displaced casing with 38 barrels water. Bumped plug with 2000 psi. Plug down @ 1:00 A.M., circulated 5 barrels cement to the surface, lost circulation. Displaced 33 barrels cement into annulus. PBTD 1565'.

7/14/57 PBTD 1565'. Landed casing, set slips, W.O.C. Ran Temperature survey. Found top of cement in annulus @ 55' KB. PBTD 1559'.



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DATE

- 7/15/57 PBTD 1565'. Hippled up, pressured up casing with 1000 psi for 1/2 hour. Casing OK. W.O.C. until midnight.
- 7/16/57 PBTD 1565'. Perforated Fruitland from 1292'-1330' (38' - 4 holes per foot), 152-9/16" bullets by Schlumberger. Checked Ohio collars 3½ feet high, corrected measurements to Ohio Collars and shot off same. PBTD 1562'. Sand-water frac from 1292-1330 with 30,000# (20-40) sand and 29,186 gallons water. Broke down formation with 2200 psi. Pumped 10,000# sand, injected 50 nylon balls, no apparent breakdown. Pumped 20,000# sand, injected 50 nylon balls, no apparent breakdown. Pumped remaining 10,000# sand, injected 25 nylon balls, no apparent breakdown. Flushed sand with 2754 gallons water. Pumped 1200 gallons water ahead of sand. Average injection rate 48½ barrels per min. Treatment pressure 1300 psi. Final pressure 650 psi. Sand mix @ (1.2#/gal). Rigged up to blow well. Ran 42 Jts 2 3/8" O.D., 4.7#, 8 Rd, EUE, H-40 tubing:
- | | |
|---------|------------------------------|
| 1285.10 | Net (including anchor joint) |
| 9.00 | KB to tubing head |
| 6.00 | pup |
| 1300.10 | Total |
- Landed anchor joint at 1300.10 KB with perforations at 1290'-1300' KB. Casing filled up with sand while blowing well from 1330 to 1565'. Blowing well.
- 7/17/57 PBTD 1565'. Blew well until 7:00 A.M., landed tubing, released rig @ 12:00 Noon. Shut in well @ 3:00 P.M. for 7 day A.O.F. test.

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A C T U A L C A S I N G R E C O R D

Kutz Canyon #23-1
 WELL Gov't 020500 FIELD Fulcher Kutz ELEV KB 5552'

This form is to be filled out after each casing job. Its purpose is to give an accurate record of the sequence in which the joints were run so that at any later date, the collars can be accurately located.

Date 7/14/57 Csg. size 5 1/2" Wt. 15.5 Landed at 1680.55 Hole T.D. 5 1618

Distance from KB to Mat. 8.58' All measurements from KB

JT. NO.	LENGTH	COLLAR DEPTH	REMARKS	JT. NO.	LENGTH	COLLAR DEPTH	REMARKS
1	33.54	30.09		23	33.77	762.26	
2	32.48	62.57		24	33.83	796.09	
3	33.67	96.24		25	33.51	829.60	
4	33.69	129.93		26	32.65	862.25	
5	33.80	163.73		27	33.24	895.49	
6	33.93	197.66		28	33.43	928.92	
7	32.96	230.62		29	33.35	962.27	
8	33.68	264.30		30	33.82	996.09	
9	32.42	296.72		31	32.80	1,028.89	
10	33.69	330.41		32	33.37	1,062.26	
11	33.68	364.09		33	32.22	1,094.48	
12	32.69	396.78		34	32.87	1,127.35	
13	33.47	430.25		35	33.71	1,161.06	
14	33.75	464.00		36	33.80	1,194.86	
15	32.15	496.15		37	33.78	1,228.64	
16	33.31	529.46		38	33.31	1,261.95	
17	33.43	562.89		39	33.78	1,295.73	
18	33.77	596.66		40	33.60	1,329.33	
19	33.44	630.10		41	33.77	1,363.10	
20	33.32	663.42		42	33.52	1,396.62	
21	33.66	697.08		43	33.66	1,430.28	
22	31.41	728.49		44	33.37	1,463.65	

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DATE July 10, 1957

THE OHIO OIL CO

HISTORY OF OIL OR GAS WELL

FIELD KUTZ CANYON

WELL NO. 1 LEASE Government 020500 BLOCK 23 SEC. 23 TWP. 28N R. 11W
 STATE New Mexico PARISH San Juan COUNTY San Juan

MEASUREMENTS TAKEN FROM KB ELEV. 5552'
TOP OF OIL STRING Grnd ELEV. 5542'
TOP OF ROTARY TABLE ELEV. _____
GRD. OR MAT ELEV. _____

HISTORY PREPARED BY George Susich
 TITLE Engineer

IT IS OF THE GREATEST IMPORTANCE TO HAVE A COMPLETE HISTORY OF THE WELL. USE THIS FORM IN REPORTING THE HISTORY OF ALL IMPORTANT OPERATIONS AT THE WELL, TOGETHER WITH THE DATES THEREOF, INCLUDING SIZE OF HOLE, SIZE AND NUMBER OF BITS, COMPLETE DESCRIPTION OF CASING, CEMENTING, FISHING OR DRILLING DIFFICULTIES, SURVEYS, ALL TESTS, ALL COMPLETION OPERATIONS AND PROCEDURE, ETC.

DATE

7/24/57

One point back pressure test. 7 day shut in.
 Gov't #23-1 - Kutz Canyon (7-24-57)

Initial Shut-in casing 593#
 " " tubing 593#

Casing flow pressure 297#

Choke pressure 193#

Temp. 65°

Barometer 12#

Gravity .68

N = .85

Choke size 3/4"

Duration of test - 3 hours

$$Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = 14.1605 \times 205 \times .9952 \times .9393 \times 1.023$$

$$Q = 2780 \text{ MCFD}$$

$$AOF = Q \left(\frac{605^2}{605^2 - 309^2} \right)^N$$

$$= 2780 \left(\frac{366}{366 - 95.5} \right)^{.85}$$

$$= 2780 \left(\frac{366}{270.5} \right)^{.85}$$

$$= 2780 \left(\frac{1.352}{1} \right)^{.85}$$

$$= 2780 \left(\frac{1.292}{1} \right)$$

$$= 3,590 \text{ MCFD}$$

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