

DATE 7/26/57

THE OHIO OIL CO

FIELD Fulcher Kutz

HISTORY OF OIL OR GAS WELL

WELL NO. 1 LEASE Government 020498

SEC. 15 TWP. 28N R. 11W

STATE New Mexico COUNTY San Juan

1670' from South line  
1770' from West line  
SW $\frac{1}{4}$  NE $\frac{1}{4}$  SW $\frac{1}{4}$

KB Elev. 5580'  
( Top of Oil String Grnd Elev. 5572'  
Measurements ( Top of Rotary Table Elev. \_\_\_\_\_  
Taken from ( Grd. or Mat \_\_\_\_\_ Elev. \_\_\_\_\_

History Prepared By GEORGE SUSICH  
TITLE \_\_\_\_\_

DATE San Juan Drilling Co. - Contractor.

- 7/26/57 MIRT, Rigged up, Spudded surface hole @ 7:00 P.M. TD 133'.
- 7/27/57 TD 175'. Finished drilling 175 feet of 13 3/4" surface hole, circulated 1/2 hr, came out of hole to run casing.  
Ran 5 Jts 10 3/4" O.D., 8 Rd, H-40, 155.43' Net  
1.50 Below ground  
9.30 KB to ground  
166.23 Total  
Landed casing @ 166.23, cemented with 150 sacks regular cement with 2% jel by HOWCO. Displaced casing with 15 $\frac{1}{2}$  bbls water. Plug down at 4:30 A.M. Good returns on cement. Top of plug @ 136 KB. W.O.C. Nipped up. Pressured casing @ 7:30 P.M. with 650 psi for 1/2 hr, casing OK.
- 7/28/57 TD 1018'. W.O.C. Started drilling out @ 4:15 A.M. Drilled 35' of cement, top of plug @ 131' KB. Drilling ahead with Bit #1 Smith DT. Encountered water flow at 500' and gas blow at 715'. Using water as drilling fluid. Made trip for Bit #2 HTC OSC-3. Found greater gas blow @ 800'.
- 7/29/57 TD 1675'. Drilled to 1675'. Deviation Survey @ 1362' (3/4 $^{\circ}$ ). Circulated 1 hour, came out of hole with 5 stands drill pipe (short trip) and ran same back to bottom. Circulated 1/2 hour, came out of hole for Schlumberger. Ran Schlumberger ES-Induction Log from 166 to 1671'. Ran Micro-Caliper Log from 166-1668'.  
Schlumberger Tops:  
Kirtland SS 546 (+ 5034')  
Farmington SS 706 (+ 4874')  
Fruitland SS (?) 1368' (+ 4212')  
Pictured Cliff SS 1555' (+ 4025')  
Lewis Shale 1650' (+ 3930')  
TD 1671' Schlumberger  
1675' Driller  
Went back in hole with drill pipe, circulated until 11:00 P.M. W.O.O. Came out of hole laying down drill pipe.
- 7/30/57 TD 1675'. Finished laying down drill pipe, rigged up to run casing. Ran 49 Jts 5 $\frac{1}{2}$ " O.D. 15 $\frac{1}{2}$ ", 8 Rd J-55 casing 1635.81 Net  
1.53 Baker float collar  
1.35 Baker guide Shoe  
1638.69 Total  
Spotted centralizer @ 1598', landed shoe at 1635' with float collar at 1598.82. Cemented with 600 sacks (2% jel) cement by HOWCO. Displaced casing with 38 $\frac{1}{2}$  bbls

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water. Bumped plug with 1500 psi. Plug down at 5:00 A.M. No returns to the surface. Lost circulation when displacing 38 bbls of casing. PBTD 1598'. Landed casing and set slips - started nipping up. Shut off gas and water flows. Ran Temperature survey by B & R Service, found top of cement in annulus @ 150'. PBTD 1596', W.O.C. Picked up 52 Jts 2 3/8" tubing, found plug @ 1596'.

7/31/57 PBTD 1596'. W.O.C. Pressured up casing @ midnight with 650 psi, casing OK.

8/1/57 PBTD 1596'. Perforated casing opposite Pictured Cliff sandstone from 1555-80' with 104 , 9/16" bullets (4 per foot) by Schlumberger. Checked Ohio collars OK and shot off same. PBTD 1596' by Schlumberger. Shot 4 extra bullets. Sand-water frac from 1555-80' with 30,000# of (20-40) sand and 30,996 gals water by HOWCO. Broke down formation with 1800 psi, pumped 20 bbls water ahead of sand, pumped 15,000# sand in formation at 800 psi, injected 50 nylon balls, breakdown pressure 1000 psi, pumped another 7,000# sand treatment pressure 1000 psi; injected 25 nylon balls, breakdown pressure 1200 psi, pumped final 8,000# sand treatment pressure 1200 psi, Final pressure 1200 psi. Pumped total of 888 bbls water and 33 bbls sand. Flushed sand with 130 bbls water. Sand mix @ .97#/gal with average injection rate of 51 bbls per minute.

20 bbls water ahead of sand

771 bbls water and sand (33 bbls)

130 bbls water flush

921 bbls total fluid in 18 minutes

100# (20-40) sand is equal to 4.61 gals by displacement.

Nipped up to run tubing, ran 51 Jts tubing in well, bottom of perforations @ 1565'. Waiting on swabbing unit.

8/2/57 PBTD 1596'. Waiting on swabbing unit. Swabbing unit on location @ 1:00 P.M. Rigging up to swab. Swabbed well in @ 5:15 P.M. Blowing well.

8/3/57 PBTD 1596'. Blowing well until 12:00 Noon, well making 750 MCFD with 85# on casing. Gauge with 1" side static nipple. Well making estimated 1 bbl salt water per hour.

Ran 51 Jts, 2 3/8" O.D., 4.7#, KUE, H-40 tubing; 1534.81 Net  
30.50 Anchor Jt.  
8.00 KB to head  
Landed AJ 1573.31 Total

Perforations @ 1563-1573' KB.

Shut well in at Noon, Released rig at 2:00 P.M.

8/4/57 PBTD 1596'. Static.

8/5/57 PBTD 1596'. Well shut in 48 hours, 430# on casing, blew well 5 minutes, gas and water blowing across highway U.S. 44. Shut well in with 300# on casing. Opened well, well would not blow. Shut in same. Estimate 600' of water in well.

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# ACTUAL CASING RECORD

WELL Gov't 020498

FIELD Fulcher-Kutz

ELEV KB 5580'

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 \_\_\_\_\_ Csg. size 5 1/2" Wt. 15 3/4# Landed at 1635' Hole T.D. 1675'

Distance from KB to Mat 9' All measurements from KB

JT. NO.	LENGTH	COLLAR DEPTH	REMARKS	JT. NO.	LENGTH	COLLAR DEPTH	REMARKS
1	33.65			25	33.29	799.81	
2	33.58	29.96		26	33.52	833.13	
3	33.25	63.54		27	33.61	866.65	
4	33.34	96.79		28	33.30	900.26	
5	33.59	130.13		29	33.20	933.56	
6	33.67	163.72		30	33.19	966.76	
7	33.71	197.39		31	33.71	999.95	
8	33.61	231.10		32	33.70	1,033.66	
9	33.72	264.71		33	31.91	1,067.36	
10	32.79	298.43		34	33.13	1,099.27	
11	33.56	331.22		35	32.97	1,132.40	
12	33.38	364.78		36	33.44	1,165.37	
13	32.64	398.16		37	33.08	1,198.81	
14	33.68	430.80		38	32.97	1,231.89	
15	33.77	464.48		39	33.36	1,264.86	
16	33.58	498.25		40	33.45	1,298.22	
17	33.60	531.83		41	33.35	1,331.67	
18	33.54	565.43		42	33.60	1,365.02	
19	33.11	598.97		43	33.41	1,398.62	
20	33.70	632.08		44	32.97	1,432.03	
21	33.68	665.78		45	33.04	1,465.00	
22	33.50	699.46		46	33.60	1,498.04	
23	33.37	732.96		47	33.50	1,531.64	
24	33.51	766.33		48	33.68	1,565.14	

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