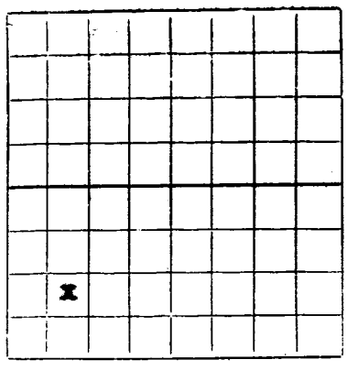
(Revised 7/1/52)
(Form C-105)



AREA 640 ACRES
LOCATE WELL CORRECTLY

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE. If State Land submit 6 Copies

PUBCO PETROLEUM CORPORATION (Company or Operator) STATE (Lease)

Well No. 25, in NE ¼ of SW ¼, of Sec. 36, T. 29N, R. 11W, NMPM.

FULCHOR-KUTZ Pool, SAN JUAN County.

Well is 1290 feet from WEST line and 1090 feet from SOUTH line of Section 36. If State Land the Oil and Gas Lease No. is E9228

Drilling Commenced Feb. 24, 19 56 Drilling was Completed March 16, 19 56

Name of Drilling Contractor Smith Drilling Corp., JG Roberts

Address Farmington, New Mexico Aztec, N.M.

Elevation above sea level at Top of Tubing Head 5720 The information given is to be kept confidential until present, 19.....

OIL SANDS OR ZONES

No. 1, from.....to..... No. 4, from.....to.....

No. 2, from.....to..... No. 5, from.....to.....

No. 3, from.....to..... No. 6, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from 1848 to 1889 feet. 1000 after frac.

No. 2, from.....to.....feet.

No. 3, from.....to.....feet.

No. 4, from.....to.....feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
9-5/8	32.30	new	119.13	no shoe			surface
5-1/2	14	new	1860.94	Baker			Production
1		new	1717				

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
12-1/4	9-5/8	131.53	100 SW Portland			
8-3/4	5-1/2	1848.77	(135 Reg.			
			(135 Stratacrete 6% gel			

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

SEE ATTACHED SHEET

RECEIVED
JUL 27 1956
OIL CON. COM.
DIST. 3

Result of Production Stimulation.....

.....

Depth Cleaned Out.....

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

Rotary tools were used from Surface feet to 1849 feet, and from ..... feet to ..... feet.

Cable tools were used from 1849 feet to 1889 feet, and from ..... feet to ..... feet.

PRODUCTION

Put to Producing ....., 19.....

OIL WELL: The production during the first 24 hours was ..... barrels of liquid of which ..... % was was oil; ..... % was emulsion; ..... % water; and ..... % was sediment. A.P.I. Gravity .....

GAS WELL: The production during the first 24 hours was 106 M.C.F. plus No barrels of liquid Hydrocarbon. Shut in Pressure 547 lbs.

Length of Time Shut in 7 days

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Devonian	T. Ojo Alamo	675
T. Salt	T. Silurian	T. Kirtland-Fruitland	823
B. Salt	T. Montoya	T. Farmington	----
T. Yates	T. Simpson	T. Pictured Cliffs	1845
T. 7 Rivers	T. McKee	T. Menefee	
T. Queen	T. Ellenburger	T. Point Lookout	
T. Grayburg	T. Gr. Wash	T. Mancos	
T. San Andres	T. Granite	T. Dakota	
T. Glorieta	T.	T. Morrison	
T. Drinkard	T.	T. Penn	
T. Tubbs	T.	T.	
T. Abo	T.	T.	
T. Penn	T.	T.	
T. Miss	T.	T.	

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
Surf	675	675	Wasatch				
675	823	148	Ojo Alamo				
823	1628	805	Kirtland				
1628	1845	217	Fruitland				
1845	1889	44	Pictured Cliffs				

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

July 19, 1956
(Date)

Company or Operator PUBCO PETROLEUM CORP. Address 107 W. Chaco, Aztec, N.M.

Name James E. Goldeman Position or Title District Geologist

State #25 was drilled by rotary tools from surface to 1849 and 5-1/2" 14# casing was set at that depth with 270 sacks of cement. Cable tools were then used to drill from 1849' for an open hole completion Pictured Cliffs well. The well flowed 86 MCFGPD before stimulation. The well was sand water fraced with 720 barrels of water and 36,000 pounds of sand; treating pressure was 1100 psi, injection rate 50 barrels per minute. After frac considerable amounts of salt water were swabbed and the well would not dry up. In order to be certain that no casing leaks existed, a Baker bridge plug was set at 1848 and the casing tested to 3000 psi. This test revealed no leaks. The bridge plug was then drilled, a calseal plug run from 1873 to 1858 and a cement squeeze performed on the interval from 1858 to 1849. One hundred sacks of cement were squeezed to a maximum pressure of 3100 psi. After that the calseal plug was drilled out to 1888 (according to Welex Measurements) and the well given a three hour dry test. Welex was used to open hole perforate the hole with 12 3-1/2" jets from 1866 to 1878 (one per foot). The purpose of this was to open a zone for a second frac job and thusly protect the cement squeeze. The well was then fraced a second time (1849-1888) with 720 barrels of water and 36,000 pounds of sand; treating pressure 1200 psi, no breakdown; injection rate 53 barrels per minute. Gauge before perforating indicated 1.5 MCFGPD after perforating but before frac 3 MCFPD. After the sandfrac the well again yielded considerable amounts of salt water.

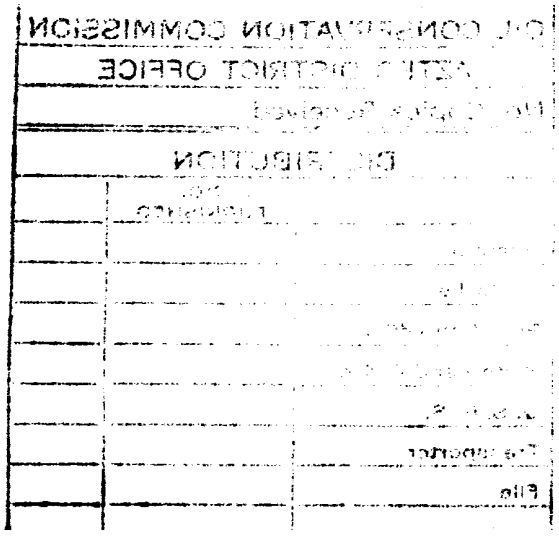
The cable tools were moved off for about a week and during this period the well unloaded occasionally. Two-inch tubing was run in it and it kicked off making 800 MCFPD with about 24 barrels of water per day. It blew for 72 hours before being shut in for 7-day pressure build up. At the end of 7 days the casing pressure was 408 psi and the tubing pressure was 409 psi. The well was opened through tubing and it blew hard for nearly ten minutes and then died and the casing pressure dropped to 50 psi. It sat for several days and the casing pressure built back up to 350 psi. A swabbing unit was moved on and after one pull with the swab, the well unloaded and the casing pressure dropped back to 50 psi and water was swabbed at a rate of 5 barrels per hour for 9 hours. The tubing was then pulled and the hole was loaded and a combination calseal plug with a dydromite cap was run from 1888' to 1864'. The well was swabbed for 13 hours through the casing and continued to make water with a 20,000 PPM chloride content at a 5 barrel per hour rate.

Attempts to complete the well in the Pictured Cliffs were then abandoned in favor of a Fruitland completion. To effect this a Baker cast iron permanent bridge plug was set at 1830. After a two hour dry test, indicating a good seal, the casing was perforated from 1684-to 1680 with two Schlumberger jets and four bullets per foot. The gas flow after perforating was 6 MCFGPD with no fluid entry. In an attempt to increase the gas flow the interval from 1675-1662 was perforated with two Schlumberger bullets per foot. On test the resultant gas flow was 5 MCFGPD with no fluid entry.

The well was then shut in for two and a half months during which time it was decided to sand water frac the perforations from 1662-to 1684. The sand water frac consisted of 500 barrels of water and 20,000 pounds of sand, breakdown pressure 2700 psi, treating pressure 1250 to 1450 psi, injection rate 38.5 barrels per minute. The well was then swabbed for two days. The morning after frac, after the well was shut down 13 hours, fluid was encountered at approximately 1100 feet (rose 500 feet in pipe). The second morning the fluid stood only about 130 feet in the hole.

One inch tubing was run to 1717 with 2 joints perforated. On test thru tubing just after tubing was landed the well made 62 MCFGPD. In order to clean out any remaining water the well was left open through the tubing for four days and then shut in for seven day pressure build up test.

After seven days the well was tested through a 3/8" choke on tubing. The flow through the choke was 103 MCFGPD; calculated open flow 106 MCFGPD; SICP 547 psi, SITP 547 psi, WTP 22 psi, WCP 81 psi.



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