

U. S. LAND OFFICE **Sante Fe, N. Mexico**

SERIAL NUMBER _____
LEASE OR PERMIT TO PROSPECT **075794**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company The Ohio Oil Company Address P. O. Box 120, Casper, Wyoming
Lessor or Tract Ohio Aztec Government Field Angels Peak State New Mexico
Well No. 2-23 Sec. 23 T. 28N R. 11W Meridian _____ County San Juan
Location 1070 ft. N. of 3 Line and 1050 ft. W. of 5 Line of Section 23 Elevation 5762 Grd.
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____

Date December 30, 1960 Title Division Production Superintendent
The summary on this page is for the condition of the well at above date.

Commenced drilling November 15, 19 60 Finished drilling December 8, 19 60

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

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

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
10-3/4	40.5	10V	DMX	538.29	CL		6386	6467	Surface
10-3/4	32.75	8rd	H-48	30.03	CL		6388	6398	Surface
5-1/2	13.5	8rd	J-55	3600.12	CL	Baker Stage Collar	6363	6374	Production Stg.
5-1/2	17	8rd	J-55	832.15	CL	Filled Collar & Guide Shoe	6356	6364	Production Stg.
							6281	6238	
							6204	6214	

MUDDING AND CEMENTING RECORD 4 Jets per foot.

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	581.80 KB	450 - 50-50 Pozmix	Halliburton		
		3% CaCl ₂			
5-1/2	446.02 KB	1st stage 450 sacks			
		2nd stage 450 sacks			

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from _____ feet to 6450 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

December 20, 19 60 Put to producing _____, 19 _____

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours 7,081 MCF/D thru 3/4" Orifice
13,878 MCF/D - CAOF Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			LOC. TOPS: Fruitland 1458'
			Pictured Cliff 1750'
			Lewis State 1903'
			Cliff House 3274'
			Manefee 3422'
			Point Lookout 4116'
			Mancos 4450'
			Gallup 5325'
			Sanastee 5759'
			Greenhorn 6108'
			Graneros 6167'
			Dakota 6284'

[illegible]

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and amount of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or pulling.

HISTORY OF OIL OR GAS WELL

Spudded 10:45 PM November 15, 1960. Ran 29 Jcs. 10-3/4" 40.5# DBX casing, OAL 542.77, EL 538.27 and 1 Jc. 10-3/4" 32.75# H-40 casing, OAL 33.35, EL 33.03, landed at 581.80' KB. Cemented with 45 sacks 50-50 Pozmix, 3% Caci2. Good returns. Plug down at 5:00 PM 11-16-60. WOC 18 hrs. Tested casing and BOP with 500# for 30 minutes. Held OK.

Total Depth 6450' December 3, 1960. Ran 141 lbs. 5 1/2" J-55 8rd casing, OAL 5642.42, EL 5600.12 and 25 lbs. 5 1/2" J-55 8rd casing, OAL 839.65, EL 832.15. Baker differential fillip collar 2.00, Baker stage collar 1.85 and Baker guide shoe 1.40. Landed at 6446.02' KB. Cemented 1st stage with 450 sacks 50-50 Pozmix with 2% CaCl₂. Plug down with 1500# psi at 7:45 PM 12-4-60. Good circulation during job. WOC 4 hrs. Cemented 2nd stage with 450 sacks 50-50 Pozmix 2% CaCl₂. Good circulation during job. Closed stage collar with 1800# psi at 12:20 AM 12-5-60. WOC 18 hrs. Tested OK.

Perforated lower Dakota. Perforated out to 6410'. Treating pressure 2200-2400# psi. Average injection rate 47.5 BPM. Instant shut in 800# psi, 5 min. shut in 600# psi. Completed at 2:00 AM 12-7-60.

6396-6407, 6330-6390, 6368-6374, 6356-6364 with 4 jets per foot. Sand water fraced with 35,000# 20-40 sand and 48,000 gals. HVC-8 treated water. Broke formation with 2850 psi. Maximum pressure while injecting 2500# psi. Treating pressure 2200-2400# psi. Average injection rate 47.5 BPM. Instant shut in 800# psi, 5 min. shut in 600# psi. Completed at 2:00 AM 12-7-60.

Perforated upper Dakota 6284-6330, 6228-6238, 6204-6214 with 4 jet shots per foot. Fraced with 40,000# 20-40 sand, 45,000 gals. water. Pumped in with 300#. Maximum pressure 3500#, minimum pressure 2100#. Average injection rate 48 bbl. per minute. Well sanded off. Instant shut in 3500#, 5 min. shut in 2500#. While flowing well back, well died. Ran tubing and found sand in casing at 5850'. Washed to BPD 6410'. Landed tubing, swapped well 2 1/2 hrs. and well flowed water and gas. Shut in and released rig at 7:00 PM 12-8-60.

WILL FIRST BEAT APRIL 1987 AND DURING THE SAME PERIOD

SI 1F - 1198 818
E 1F - 566 818
E 1F - 1571 818

Flow at end of 3 hrs. thru 3/4" office 7,081 MCF/D

CAOF - 15,878 MCF/D - 17-20-80.