

Santa Fe

U. S. LAND OFFICE

SERIAL NUMBER

03547

LEASE OR PERMIT TO PROSPECT

B reach 474

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Caulkins Oil Company Address Post Office Box 967, Farmington, New Mexico
Lessor or Tract Federal Field Hilanco Mesa Verde State New Mexico
Well No. WV 12 Sec. 35 T. 27N R. 6W Meridian NMIM County Rio Arriba
Location 990 ft. S. of N. Line and 990 ft. W. of E. Line of Section 35 Elevation 6619
(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 July 23, 1958Title Field Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling 5-11-58, 19 58 Finished drilling 7-23, 19 58

TOPS OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from Pictured Cliffs 3212 No. 4, from Point Lookout to 5360
No. 2, from Cliff House to 4920 No. 5, from _____ to _____
No. 3, from Mesa Verde to 5160 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	32.72	8-11	3-40	124	Reg.				Surface
7 5/8	26.11	8-11	3-33	590	Reg.				Intermediate
5 1/2	15.60	8-11	3-23	2308	Reg.				Mesa Verde Hill Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4	124'	100	Plug		
7 5/8	3391'	203	Plug		
5 1/2	5670	350	Plug		

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 5682 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Will furnish information when well is tested 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 _____ 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
0	124	124	Surface (sand and gravel)
124	368	244	Sand and Shale
368	650	282	Shale
650	1645	995	Sand and Shale
1645	1935	290	Shale
1935	2200	265	Sand, Shale and Hard Shells
2200	2620	420	Sand and Shale
2620	2655	35	Hard Sand
2655	2695	40	Sandy Shale
2695	2808	113	Shale and Shells
2808	3063	255	Sand and Shale
3063	3073	10	Shale
3073	3274	201	Sand and Shale
3274	3374	100	Sandy Shale
3374	5682	2308	Sand and Shale (Drilled With Gas)
FORMATION TOPS			
Pictured Cliffs		3212	
Cliff House		4920	
Mesa Verde		5160	
Point Lookout		5360	

(OVER)

16-43094-4

FORMATION RECORD—Continued[illegible]

HISTORY OF OIL OR GAS WELL

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 number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Shoulded 12:00 Midnight 5-10-50

Drilled 13 3/8" hole to 124' and cemented 10 3/4" casing at 124' with 100 sacks. Plug down 9:15 AM 5-11-58.

Drilled to TD of 3400'. Then Schlumberger, (Electric Log).

Cemented 7 5/8" 26.75# J-55 Casing at 3391' with 75 sacks cement, 75 sacks
Pulver, 3 Howcogel followed by 50 sacks Mast. 100' with 24 CaCL. Plug down

10:55 PM 5-18-58.

Drilled with gas 3400' to 5682'

Flange 5 1/2" 15.5# J-55 Liner 3323 to 5670
 Cemented liner with 250 sacks Pozmix with 6% Ugel and Flocele and 50 sacks Keat

XXXXXXXXXXXXXXXXXXXX Plug down 7:00 AM 5-24-58.

Tested liner with 800# pressure. Found hanger had leak.

Set OM cement retainer at 4781' and squeezed with 40 sacks. Final pressure 3500#. Run retrievable squeeze packer to 4215' and squeezed top of liner with 110 sacks. Final pressure 3750#.

Drilled out cement to top of DE retainer then tested casing and found formation would take fluid at rate of 3 barrels per minute.

Set retrievable retainer at 3214 and squeezed with 75 sacks. Final pressure 3700#.

Drilled out cement and tested casing with 3000#. Tested satisfactory.

Drilled out IM retainer and cleaned out to 5642.

Perforated Point Lookout as follows:

5360 to 5366 2 holes per foot

5378 to 5382 2 holes per foot

\$4.02 to \$4.08 2 holes per foot

\$4.50 to \$5.00 2 holes per foot

5530 to 5536 2 holes per foot

3548 to 3552 2 holes per foot

Fractured above section with 47,161 gallons water and 60,000# sand.

Flushed with 9800 gallons water.

Average injection rate 64.6 BPH

B rackdown pressure 1600 to 155

Treating pressure 1000 to 1300

Final pressure 300#.

Roll on vacuum in 25 drops.

Used 40 rubber balls after 1st and

100-443887-100

HISTORY CONTINUED ON ATTACHED SHEET

ГЕОЛОГИЧ. ЗНАЧЕНА

DEPARTMENT OF THE INTERIOR

UNITED STATES

DEPT OF DEFENSE AND DEPT OF COMMERCE

DEBILITAZIONE

UNITED STATES

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