

U. S. LAND OFFICE Santa Fe, N.M.

SERIAL NUMBER SF 078063

LEASE OR PERMIT TO PROSPECT

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

RECEIVED

LOG OF OIL OR GAS WELL 1958

U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO
d. Farmington, N.M.

LOCATE WELL CORRECTLY

Company Shell Oil Company Address 101 S. Behrend, Farmington, N.M.
Lessor or Tract Federal-Carson Unit Field Bisti State New Mexico
Well No. 12-19 Sec. 19 T. 25N R. 11W Meridian NMPM County San Juan
Location 1977 ft. N. of N. Line and 660 ft. E. of W. Line of Sec. 19 Elevation 6443.7 KB

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 _____ Original signed by
E. W. SHESARD

Date January 10, 1958 Title Exploitation Engineer

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

Commenced drilling August 25, 19 57 Finished drilling September 2, 19 57

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

(Denote gas by G)

No. 1, from <u>4866</u> gross to <u>4974</u>	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

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	173	100	Displacement	-	-
4-1/2"	5022	150	Displacement	-	-

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 0 feet to 5030 feet, and from 0 feet to 0 feet
Cable tools were used from - feet to - feet, and from - feet to - feet.

DATES

-----January 10-----, 1958 Put to producing -----December 30-----, 1957

The production for the first 24 hours was 408 barrels of fluid of which 99.9% was oil; -----% emulsion; -----% water; and 0.1% sediment. Gravity, 84 Approx. 300 API.

If gas well, cu. ft. per 24 hours ----- Gallons gasoline per 1,000 cu. ft. of gas -----

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

EMPLOYEES		Brinkerhoff Drilling Co.
W. Black	Driller	G. Adams
E. Babcock	Driller	

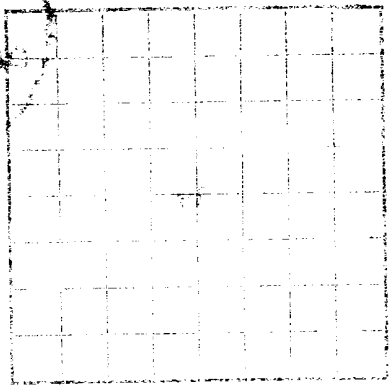
FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1225	1406	181	Pictured Cliffs
1406	1584	178	Lewis
1584	2056	472	Cliff House
2056	3694	1638	Allison-Menefee
3694	3862	168	Point Lookout
3862	4764	902	Mancos
4764	-	-	Gallup

U.S. GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR
WASHINGTON, D.C.



Form 10-5890



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company _____
Location or Name of Well _____
Well No. _____
Location _____
The information given hereafter is a complete and correct record of the well and all work done thereon.
Signed _____
Date _____

The summary of the logs is for the completion of the well at above date.
The summary of the logs is for the completion of the well at above date.
The summary of the logs is for the completion of the well at above date.
The summary of the logs is for the completion of the well at above date.
The summary of the logs is for the completion of the well at above date.

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 "abandoned," 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.

HISTORY OF OIL OR GAS WELL

FROM		TO		TOTAL FEET		FORMATION	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100	
100		100		100		100</	

Bisti

DRILLING REPORT FOR PERIOD ENDING

CARSON UNIT 12-19

WELL NO.

(FIELD)
San Juan, New Mexico
(COUNTY)

9-2-57

19
(SECTION OR LEASE)
T25N R11W
(TOWNSHIP OR RANGHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
8-25 To 8-26	0	1874	<p><u>Location:</u> 1977' S and 660' E of NW Corner, Section 19, T25N, R11W, N.M.P.M., San Juan County, New Mexico</p> <p><u>Elevations:</u> DF 6442.5 GR 6434.7 KB 6443.7</p> <p>Spudded 4:30 P.M. 8-25-57. Ran and cemented (163') 8-5/8", 24#, J-55 J-S casing at 173' with 100 sacks cement treated with 2% calcium chloride. Good returns to surface. Flanged up and waited on cement. Pressure tested casing and BOP with 500 psi for 15 minutes, OK.</p>
8-27 To 8-31	1874	4890	<p><u>Drilled 3016'.</u></p>
9-1	4890	5030	<p><u>Drilled 140'.</u> Ran Electrical Survey and Microlog.</p>
9-2	5030	TD	<p>Ran and cemented (5014') 4-1/2", 9.5# casing at 5022' with 150 sacks cement treated with 4% gel. Final pressure 1500 psi. Released rig 9:30 A. M. 9-2-57.</p> <p>Checked BOP daily Mud Summary wt 9.6 - 9.9 #/gal vis 52 - 120 sec WL 7-12 cc FC 2-3/32"</p>

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
DRILL PIPE SIZES				

Contractor: Brinkerhoff Drilling Company
 Drillers: W. Black
 E. Babcock
 C. Adams

R. D. Allen

SIGNED

Bisti

DRILLING REPORT

FOR PERIOD ENDING

19

WELL NO.

San Juan, New Mexico
(COUNTY)

12-30-57

T25N R11W
(SECTION OR LEASE)
(TOWNSHIP OR RANGHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
11-1	5030	TD	Ran Gamma Ray - collar log. Ran perforating gun - perforated bottom interval (?), gun stuck at 3829'.
11-2 To 11-3			Moved in pulling unit, fished for gun, no recovery. Ran overshot on tubing, recovered gun.
11-4			Perforated four 1/2" holes/ft 4866-81, 4897-4903, 4932-39, 4947-59, 4965-74.
11-26			Sand oil fracture #1, Spotted 200 gal. mud acid on perforations. Broke down formation at 2700 psi. Injected 20,000 gal. crude oil with 1#/gal. sand and 50 nylon core balls, pressure increased from 2750-2800 psi. Injected 7000 gal. oil with 1#/gal sand and 50 nylon core balls. Injected 30,000 gal. oil with 1#/gal. sand and 50 nylon core balls. Maximum pressure 2900 psi, Minimum pressure 2700 psi, average rate 37 bbl./min. Displaced and flushed with 160 bbl. oil. Shut in pressure after 15 minutes, 900 psi.
11-27 To 11-28			Landed tubing at 4866'. Swabbed 110 bbls in 4 hours. Repaired swabbing unit.
11-30 To 12-29			Swabbed 20 bbls, well started to flow. Flowed and recovered 1520 bbls. load and frac. oil.
12-30			INITIAL PRODUCTION Flowing 408 B/D gross, 408 B/D clean, cut 0.1%, 32/64" bean, gas 310 MCF/D, GOR 760, TP 200, Completed 12-30-57

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	173	8-5/8"	173'
7-7/8"	173	5030	4-1/2"	5022'
DRILL PIPE SIZE 4-1/2"				

E. B. Johnstone

SIGNED