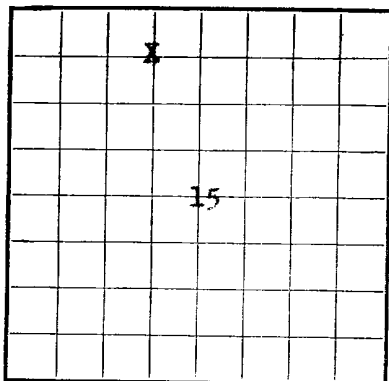


U. S. LAND OFFICE Santa Fe, N.M.SERIAL NUMBER NM 036254LEASE OR PERMIT TO PROSPECT -

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address 101 S. Behrend, Farmington, N.M.
Lessor or Tract Federal - Gov't. Field Bisti State New Mexico
Well No. 21-15 Sec. 15 T. 25N R. 12W Meridian NMPM County San Juan
Location 660 ft. (X) of N Line and 2109.34 ft. (E) of W Line of Sec. 15 Elevation 6210.3 KB
(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 CRIG SIGNED BY N.E. METHVENDate January 9, 1958Title Exploitation Engineer

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

Commenced drilling August 10, 1957 Finished drilling August 18, 1957

OIL OR GAS SANDS OR ZONES

(gross) (Denote gas by G)
No. 1, from 4719 to 4822 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—	
<u>8-5/8"</u>	<u>24#</u>	<u>8</u>	<u>-</u>	<u>107</u>	<u>Baker</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>Surface Production</u>
<u>4-1/2"</u>	<u>9.5</u>	<u>8</u>	<u>-</u>	<u>4827</u>	<u>Baker</u>	<u>-</u>	<u>4719</u>	<u>4822</u>	
							<u>(gross)</u>		

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8"</u>	<u>117</u>	<u>85</u>	<u>Displacement</u>	<u>-</u>	<u>-</u>
<u>4-1/2"</u>	<u>4837</u>	<u>150</u>	<u>"</u>	<u>-</u>	<u>-</u>

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 4840 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

----- January 9 -----, 1958 Put to producing ----- December 22 -----, 1957

The production for the first 24 hours was 264 barrels of fluid of which 99.8 % was oil; _____ % emulsion; _____ % water; and 0.2 % sediment. Gravity, 84.4 Approx. 39° 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

M. D. Schulze -----, Driller Brinkerhoff Drlg. Co.
J. Ham -----, Driller
R. C. Cary -----, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>1030</u>	<u>1248</u>	<u>218</u>	<u>Pictured Cliffs</u>
<u>1248</u>	<u>1428</u>	<u>180</u>	<u>Lewis</u>
<u>1428</u>	<u>1933</u>	<u>505</u>	<u>Cliff House</u>
<u>1933</u>	<u>3543</u>	<u>1610</u>	<u>Allison-Menefee</u>
<u>3543</u>	<u>3707</u>	<u>164</u>	<u>Point Lookout</u>
<u>3707</u>	<u>4617</u>	<u>910</u>	<u>Mancos</u>
<u>4617</u>	<u>-</u>	<u>-</u>	<u>Gallup</u>

SHELL OIL COMPANY

Gov't. 21-15

WELL NO. _____

Bisti

DRILLING REPORT

FOR PERIOD ENDING

15

San Juan, New Mexico
(COUNTY)

8-18-57

T25N

R12W

(TOWNSHIP OR RANGE)

DAY	DEPTHS		REMARKS
	FROM	TO	
			<p><u>Location:</u> 660' S and 2109.34' E of NW Corner, Section 15, T25N, R12W, N.M.P.M., San Juan County, New Mexico.</p> <p><u>Elevations:</u> DF 6209.1 GR 6201.8 KB 6210.3</p>
8-10 To 8-11	0	2335	Spudded 12-01 A. M. 8-10-57. Ran and cemented (107') 8-5/8", 24#, J-55 casing at 117' with 85 sacks cement (treated) Good returns to surface. Flanged up and waited on cement. Pressure tested casing and BOP with 500 psi, for 30 minutes, OK.
8-12 To 8-16	2335	4706	<u>Drilled 2371'.</u>
8-17	4706	4840	<u>Drilled 134'.</u> Ran Electrical Survey and Microlog.
8-18	4840	TD	Ran and cemented (4827') 4-1/2", 9.5# casing at 4837' with 150 sacks 4% gel treated cement. Released rig 1:30 P.M. 8-18-57.
			<p>Checked BOP daily</p> <p>Mud Summary</p> <p>wt 9.4-9.7#/gal</p> <p>vis 36-120 sec</p> <p>WL 5-6 cc</p> <p>FC 2/32"</p>

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
DRILL PIPE SIZES				

Contractor: Brinkerhoff Drilling Company
 Drillers: M. D. Schulze
 R. C. Cary
 J. Ham

R. D. Allen

7-7/8"	125	4840	4-1/2"	4837'
DRILL PIPE SIZES 4-1/2"				

E. B. Johnstone

SHELL OIL COMPANY

Gov't 21-15

WELL NO. _____

DRILLING REPORT

FOR PERIOD ENDING

12-22-57

15

(SECTION OR LEASE)

T25N

R12W

(TOWNSHIP OR RANCHO)

Bisti

(FIELD)

San Juan, New Mexico

(COUNTY)

DAY	DEPTHS		REMARKS
	FROM	TO	
9-4	4840	TD	Ran Gamma Ray - collar log. Jet perforated four 1/2" holes/ft. 4719-4740, 4752-4762, 4781-4789, 4795-4806, 4812-4822.
9-5			Landed tubing at 4712'.
10-28			Swabbed 6 hours, 80 bbls., fluid level 4500'.
11-19			Spotted 200 gal. mud acid on perforations.
11-20			Sand oil fracture #1. Broke down formation at 1200 psi. Injected 55,000 gal. oil with 1#/gal. sand. Dropped 60 nylon core balls after 16,000 gal. oil and 40 core balls after injection of 35,000 gal. oil. No increase in pressure due to core balls. Maximum pressure 3200 psi. Minimum pressure 2500 psi, rate 35 bbl/min. Flushed with 160 bbls. oil.
11-21			Swabbed 286 bbls oil in 18 hours.
11-22 To			Well started flowing, flowed and recovered all load and frac oil (1480 bbls).
12-21			
12-22			INITIAL PRODUCTION Flowing 264 B/D gross, 263 B/D clean, cut 0.2%, 64/64" bean, GOR 310, gas 818 MCF/D, TP 35, Completed 12-22-57

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	125	8-5/8"	117'
7-7/8"	125	4840	4-1/2"	4837'
DRILL PIPE SIZES			4-1/2"	

E. B. Johnstone