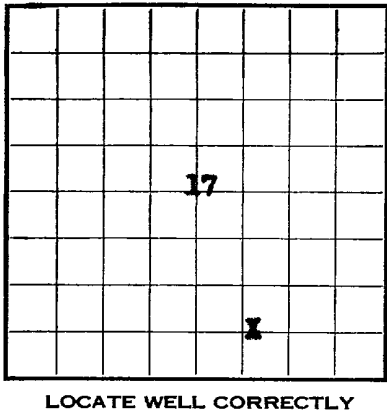


Form 9-280



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 Field Bisti State New Mexico
Carson Unit
Well No. 34-17 Sec. 17 T. 25 N R. 11 W Meridian NMPM County San Juan
Location 660 ft. N. of S. Line and 1942 ft. E. of E. Line of Sec 17 Elevation 6402.9 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 B. W. Shepard

Date November 11, 1957 Title Exploitation Engineer

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

Commenced drilling June 2, 1957 Finished drilling June 10, 1957

OIL OR GAS SANDS OR ZONES

(Gross) (Denote gas by G)
No. 1, from 4886 to 4994 No. 4, from _____
No. 2, from _____ to _____ No. 5, from _____
No. 3, from _____ to _____ No. 6, from _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from None
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" 24#</u>		<u>8</u>		<u>202</u>	<u>Baker</u>				<u>Surface</u>
<u>4-1/2" 12#</u>		<u>8</u>		<u>6018</u>	<u>Baker</u>				<u>Production</u>
HISTORY OF OIL OR GAS WELLS									

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>212</u>	<u>130</u>	<u>Displacement</u>	<u>-</u>	<u>-</u>
<u>4-1/2"</u>	<u>5028</u>	<u>150</u>	<u>-</u>	<u>-</u>	<u>-</u>

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set 5025
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
			<u>None</u>			

TOOLS USED

Rotary tools were used from 0 feet to 5032 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

November 11, 1957 Put to producing October 20, 1957
The production for the first 24 hours was 656 barrels of fluid of which 99.8 % was oil; _____ % emulsion; _____ % water; and 0.2 % sediment. Gravity, °Bé 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

C. C. Adams, Driller Brinkerhoff Drilling Company
J. Speaker, Driller E. Babcock

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>1184</u>	<u>1440</u>	<u>256</u>	<u>Pictured Cliffs</u>
<u>1440</u>	<u>1580</u>	<u>140</u>	<u>Lewis</u>
<u>1580</u>	<u>2025</u>	<u>445</u>	<u>Cliff House</u>
<u>2025</u>	<u>3686</u>	<u>1661</u>	<u>Allison Menefee</u>
<u>3686</u>	<u>3882</u>	<u>196</u>	<u>Point Lookout</u>
<u>3882</u>	<u>4780</u>	<u>898</u>	<u>Manaca</u>
<u>4780</u>	<u>-</u>	<u>-</u>	<u>Callup</u>

FORMATION RECORD—Continued

ADDITIONAL EXPENSE 11-21-50
RE: FBI Bureau No. 44-38861

ADDITIONAL PAPERS IN THE
BIOLOGICAL SERIES NO. 1-100

U.S. LAND OFFICE
SERIAL NUMBER
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

[illegible]

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.

Location _____ Sec. _____ T. _____ R. _____ S. _____
of _____ Line and _____ W. _____ E. _____
of _____ Line of _____ N. _____ S. _____
County _____ State _____

Digger or Tract _____
Company _____

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

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OIL OR GAS SANDS OR ZONES

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IMPOBILIZANT WATER SANDS

	mon 8.0Z	01	mon 1.0Z
01	mon 4.0Z	01	mon 6.0Z

SECRET

[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 their size and if any casing was "backpacked" 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

16-43084-2 U. S. GOVERNMENT PRINTING OFFICE

[illegible]

SHELL OIL COMPANY

Carson Unit

WELL NO. 34-17

DRILLING REPORT

FOR PERIOD ENDING

17

Bisti

(FIELD)

San Juan, New Mexico

(COUNTY)

6-11-57

(SECTION OR LEASE)
T25N R11W

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
57			
			<u>Location:</u> 660' N and 1942' W of SE Corner, Section 17, T25N, R11W, N.M.P.M., San Juan County, New Mexico. <u>Elevations:</u> DF 6401.7 Gr 6394.1 KB 6402.9
6-2 to 6-3	0	1590	Spudded 4:30 P.M. 6-2-57. Ran and cemented (202') 8-5/8", 24#, J-55 casing at 212' with 130 sacks construction cement. Good returns to surface. Flanged up and waited on cement. Pressure tested casing and BOP with 700 psi. O.K.
6-4 to 6-10	1590	5032	<u>Drilled 3442'</u>
6-11	5032	T.D.	Ran Electrical Survey and Microlog. Ran and cemented (5018') 4-1/2", 9.5# casing at 5028' with 150 sacks cement treated with 4% gel. Final pressure 1500 psi. Located plug at 5025'. Released rig 11:15 P.M. 6-11-57. Checked BOF daily. Mud Summary: Wt 9.8-10#/gal. vis 37-63 sec. WL 3.0-10 cc. FC 1/32" Contractor: Brinkerhoff Drilling Company Drillers: C. C. Adams J. Speaker E. Babcock
CONDITION AT BEGINNING OF PERIOD			
HOLE			CASING SIZE
SIZE	FROM	TO	DEPTH SET
DRILL PIPE SIZES			



R. D. Allen

Bisti

DRILLING REPORT

FOR PERIOD ENDING

17

(SECTION OR LEASE)

T25N

R11W

(TOWNSHIP OR RANCHO)

(FIELD)
San Juan, New Mexico

(COUNTY)

10-20-57

DAY 57	DEPTHS		REMARKS
	FROM	TO	
9-3	5032 5025	TD PBTD	Ran Gamma Ray-Collar log. Jet perforated 4 holes/ft. 4886-4902, 4909-17, 4953-57, 4967-77, 4988-94. Ran tubing to 4864'.
9-19			Swabbed 8-1/2 hours, recovered 81, fluid level 4500'
10-8			Moved in well pulling unit, scrapped perforations. Set retrievable bridge plug at 4982'. Set packer at 4932. <u>Sand oil Fracture Treatment #1</u> Broke down formation at 5300 psi. started fracing at 5 bbl./min. 1/4#/gal. sand, sanded out after 12 bbls. Unset packer, circulated out sand to bridge plug, spotted 250 gal. mud acid, pulled packer up to 4932', circulated out acid. Set packer and broke down formation at 4900 psi. injected 18,000 gal. crude with 1/4#/gal. sand, maximum rate 5.8 bbl./min., overflushed with 40 bbls. oil.
9-10			Circulated sand from top of bridge plug. Reset bridge plug at 4940, packer at 4920, tested plug with 5000 psi. O.K. Moved packer and reset at 4905', communication behind casing with lower perforations at 4000 psi. Pulled packer and tubing. Sand oil fractured down casing with 32,000 gal. crude oil 1/4#/gal. sand, break down pressure 3000 psi, treating pressure 2900-3100 psi. average injection rate 28.5 bbl./min. Displaced and overflushed with 160 bbls. Shut in pressure after 5 minutes, 1100 psi.
9-11 to 9-13			Recovered bridge plug. Reran tubing to 4858'. Swabbed 5-1/2 hours, 80 bbls. well started to flow.
9-14 to 10-20			Flowed average rate 606 B/D gross (frac oil). Recovered all load and fracture oil. <u>INITIAL PRODUCTION</u> Flowing 656 B/D gross, 655 B/D clean, cut 0.2%, 25/64" bean, TP 160, CP 430, gas 524 MC/D, GOR 800, gravity approx. 39° API. Completed 10-20-57

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12 1/2"	0	212'	8 5/8"	212'
7 7/8"	212'	5032	4 1/2"	5028'
DRILL PIPE SIZES 4 1/2"				



E. B. JOHNSTONE

SIGNED