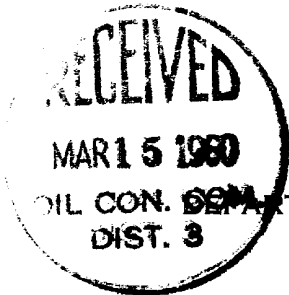


Form 9-330

LOCATE WELL CORRECTLY



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address Post Office Box 153, Farmington, N.M.
Lessor or Tract Federal - Carson Unit 31-19 Field Bisti State New Mexico
Well No. 31-19 Sec. 19 T25N R11W Meridian N.M.P.M. County San Juan
Location 660 ft. N. of E. Line and 1973 ft. E. of E. Line of Section 19 Elevation 6430 K3
(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 _____ Original signed by B. W. SHEPARD

Date February 11, 1960 Title exploitation Engineer

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

Commenced drilling December 3, 1959 Finished drilling December 13, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)
No. 1, from 4367 gross to 4932 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>3-5/8"</u>	<u>23</u>	<u>-</u>	<u>Lat'l</u>	<u>96</u>	<u>Baker</u>	<u>-</u>			<u>Surface</u>
<u>4-1/2"</u>	<u>9.5</u>	<u>-</u>	<u>-</u>	<u>5020</u>	<u>Baker</u>	<u>-</u>	<u>4367</u>	<u>4932</u>	<u>Production</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>3-5/8"</u>	<u>105'</u>	<u>100</u>	<u>Displacement</u>		
<u>4-1/2"</u>	<u>5020'</u>	<u>150</u>	<u>Displacement</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 _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 19____
February 11, 1960 The production for the first 24 hours was 32 barrels of fluid of which 99.6 % was oil; _____ %
emulsion; _____ % water; and 0.4 % sediment. Gravity, °Bé. XX 45° (approx.) 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

_____, Driller Brinkerhoff Drilling Company, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>1204</u>	<u>1417</u>	<u>213</u>	<u>Pictured Cliffs</u>
<u>1417</u>	<u>1571</u>	<u>154</u>	<u>Lewis</u>
<u>1571</u>	<u>2037</u>	<u>466</u>	<u>Cliff House</u>
<u>2037</u>	<u>3693</u>	<u>1661</u>	<u>Allison - Menefee</u>
<u>3693</u>	<u>3369</u>	<u>171</u>	<u>Point Lookout</u>
<u>3369</u>	<u>4773</u>	<u>904</u>	<u>Mancos</u>
<u>4773</u>	<u>-</u>	<u>-</u>	<u>Gallup</u>

FORMATION RECORD—Continued

[illegible]

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of peddling, 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.

HISTORY OF OIL OR GAS WELL

16-48094-2 U. S. GOVERNMENT PRINTING OFFICE

Attached - drilling history

10/10/1944

Bisti

DRILLING REPORT

FOR PERIOD ENDING

12-14-59

19

(SECTION OR LEASE)

T. 25 N., R. 11 W.

(TOWNSHIP OR RANCHO)

(FIELD)

San Juan, New Mexico

(COUNTY)

DAY	DEPTHS		REMARKS
	FROM	TO	
			Location: 660'S and 1973.5' W of NE Corner Sec. 19, T. 25 N., R. 11 W. N.M.P.M., San Juan County, New Mexico Elevations: DF 6428.8' GR 6421.1' KB 6430.3'
12-8 To 12-9	0	2617	Spudded 2:30 p.m. 12-8-59. Ran and cemented (94') 8-5/8", 28#, J-55 casing at 105' 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 700 psi, OK.
12-10 To 12-12	2617	4775	<u>Drilled 2158'.</u>
12-13 To 12-14	4775	5030	<u>Drilled 255'.</u> Ran SP-Micro Log. Ran and cemented (5020') 4 1/2", 9.5#, J-55 casing at 5029' with 150 sacks cement treated with 4% gel. Displaced with oil. Final pressure 1600 psi. Released rig 1:00 p.m., 12-14-59 Checked BOP Daily Mud Summary wt. 9.2-9.8#/gal. vis. 43-120 sec. WL 5-9.1 CC FC 2/32" Contractor: Brinkerhoff Drilling Co. Co. Pusher R. I. Alberts

CONDITION AT BEGINNING OF PERIOD			
HOLE		CASING SIZE	DEPTH SET
SIZE	FROM	TO	
DRILL PIPE SIZES			

M. W. McGarry, Jr.

SIGNED

SHELL OIL COMPANY

Carson Unit 31-19
WELL NO.

Bisti

DRILLING REPORT

FOR PERIOD ENDING

19

(FIELD)
San Juan, New Mexico

1-2-60

(SECTION OR LEASE)
T. 25 N., R. 11 W.
(TOWNSHIP OR RANCHO)

(COUNTY)

DAY	DEPTHS		REMARKS
	FROM	TO	
12-15	5030 TD		Bullet perforated four $\frac{1}{2}$ " holes/ft. 4867-95, 4900-10, 4922-26, 4940-44, 4952-58, 4964-70, 4976-82.
12-16			Filled frac tanks.
12-17			Spotted 200 gal. mud acid. Sand oil fractured with 50,000 gal. crude, 1#/gal. sand. Initial injection pressure 2300 psi, after 120 balls 2400 psi broke to 2300 psi. average rate 32 bbls/min.
12-18			Cleaned out frac sand. Ran 2-3/8" tubing to 4880'.
12-19			Ran rods and pump.
12-20			Pumped and recovered all load and frac oil, 1587 bbls.
-56			
To			
1-1-			
60			
1-2-			INITIAL PRODUCTION
60			Pumped 82 B/D gross, 82 B/D clean, 0.4% cut, 195 MCF/D gas, GOR 2400. Completed 1-2-60.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12 $\frac{1}{4}$	0	115	8-5/8"	105'
7-7/8"	115	5030	4 $\frac{1}{2}$ "	5029'
DRILL PIPE SIZES		4 $\frac{1}{2}$		

M. W. McGarry, Jr.

SIGNED