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U. S. LAND OFFICE Santa Fe, N.M.
SERIAL NUMBER 14-20-603-1285
LEASE OR PERMIT TO PROSPECT -

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address 101 S. Behrend, Farmington, N.M.
Lessor or Tract Tribal - Allotted Field Bisti State New Mexico
Well No. 14-18 Sec. 18 T. 25N R. 11W Meridian NMPM County San Juan
Location 660 ft. N. of S Line and 662.8 E. of W Line of Section 18 Elevation 6423 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 _____
Original signed by
B. W. SHEPARD

Date March 31, 1958 Title Exploitation Engineer

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

Commenced drilling January 17-----, 1958 Finished drilling January 23-----, 1958

OIL OR GAS SANDS OR ZONES

(gross) (Denote gas by G)

No. 1, from <u>4877</u> to <u>4997</u> No. 2, from _____ to _____ No. 3, from _____ to _____	No. 4, from _____ to _____ No. 5, from _____ to _____ No. 6, from _____ to _____
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IMPORTANT WATER SANDS

No. 1, from to
No. 2, from to
No. 3, 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—	
8-5/8"	24	8	Nat'l	90.5	Baker	-	-	-	Surface
4-1/2"	9.5	8	-	5015	Baker	-	1977	1997	Production
							(gross)		

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	100.5	100	Displacement	-	-
4-1/2"	502.3	150	"	-	-

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 5025 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

March 31, 1958 Put to producing March 19, 1958.

The production for the first 24 hours was 291 barrels of fluid of which 99.8% was oil; -----% emulsion; -----% water; and 0.2% sediment. Gravity, ~~886~~ 884 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 Brinkerhoff Drlg. Co.

<u>E. Babcock</u>	Driller	<u>W. Black</u>	Driller
<u>C. Adams</u>	Driller	Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1230	1421	191	Pictured Cliffs
1421	1592	171	Lewis
1592	2073	481	Cliff House
2073	3710	1637	Allison - Menefee
3710	3867	157	Point Lookout
3867	4780	913	Mancos
4780	-	-	Gallup



B. W. SHIBANO
Original signed by

Attached: Drilling History

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.

HISTORY OF OIL OR GAS WELL

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

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SHELL OIL COMPANY

Carson Unit

WELL NO. 14-18

Bisti

(FIELD)

DRILLING REPORT

FOR PERIOD ENDING

1-24-58

18

(SECTION OR LEASE)

San Juan, New Mex.co

(COUNTY)

T25N


R11W

(TOWNSHIP OR RANGE)

DAY	DEPTHS		REMARKS
	FROM	TO	
1-17 Pc 1-18	0	2210	<p><u>Location:</u> 660' N and 662.8' E of SW Corner, Section 18, T25N, R11W, NMPM, San Juan County, New Mexico.</p> <p><u>Elevations:</u> DF 6421.95 GR 6413.62 KB 6423.12</p> <p>Spudded 2:45 P. M. 1-17-58. Ran and cemented (90.5') 8-5/8", 24#, J-55 National casing at 100.5' with 100 sacks cement treated with 2% calcium chloride. Good returns to surface. Flanged up and waited on cement.</p>
1-19 Pc 1-23	2210	5025	<p><u>Drilled 2815'.</u></p>
1-24	5025	TD	<p>Ran Electrical Survey, and Microlog. Ran and cemented (5015') 4-1/2", 9.5# casing at 5023' with 150 sacks cement treated with 4% gel. Displaced with oil, final pressure 1500 psi. Released rig 2:00 P. M. 1-24-58.</p> <p>Checked BOP daily Mud Summary WT 9.3-9.5#/gal vis 38-55 sec WL 4.8-8 cc FC 1/32</p>

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

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

 R. D. Allen

Bisti

DRILLING REPORT

FOR PERIOD ENDING

18

San Juan New Mexico

3-19-58

(SECTION OR LEASE)

T25N

R11W

(COUNTY)

(TOWNSHIP OR RANCH)

DAY	DEPTH		REMARKS
	FROM	TO	
2-16	5025	TD	Ran Gamma Ray - collar log. Bullet perforated four 1/2" holes/ft. 4877-4904, 4911-4923, 4951-4957, 4962-4976, 4980-4997.
2-4			Spotted 200 gal. mud acid on perforations. Sand oil Fracture Treatment #1 Broke down formation at 1700 psi. Injected 16,800 gal. crude oil with 1#/gal. sand, 100 nylon core balls. Injected 4200 gal. crude, 3/4#/gal. sand. 50 nylon core balls. Injected 8400 gal. crude oil with 1#/gal. sand, 25 nylon core balls. Injected 8400 gal. crude, 1#/gal. sand, 10 nylon core balls. Injected 12,600 gal. crude, 1#/gal. sand. Displaced and overflushed with 160 bbls. crude. Maximum pressure 3400 psi, Minimum pressure 2650, average rate 36 bbl/min.
3-5			Cleaned out frac sand from 5008 to 5020. Ran and landed tubing at 4872'.
3-6 To 3-18			Swabbed 80 bbls., well began to flow. Flowed and recovered all load and frac oil, 1440 bbl.
3-19			INITIAL PRODUCTION Flowing 291 B/D gross, 290 B/D clean, 0.2% cut, 137 MCF/D gas GOR 470, 64/64" choke, TP 110. Completed 3-19-58

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	101	8-5/8"	100.5'
7-7/8"	101	5025	4-1/2"	5023'
DRILL PIPE SIZES			4-1/2"	

E. B. Johnstone

SIGNED