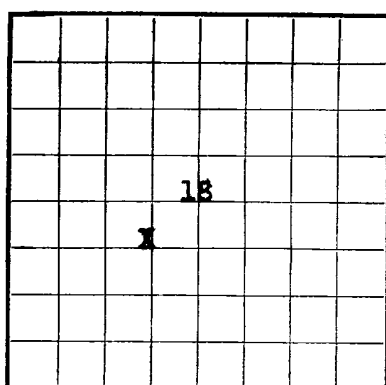


U. S. LAND OFFICE Santa Fe, N. M.
SERIAL NUMBER 14-20-603-1285
LEASE OR PERMIT TO PROSPECT -



LOCATE WELL CORRECTLY

RECEIVED
APR 30 1953
CU. CON. COM.
DIST. DEPT.

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 Tribal - Allotted Carson Unit Field Bisti State New Mexico
 Well No. 23-18 Sec. 18 T. 25N R. 11W Meridian NMPM County San Juan
 Location 1980 ft. N of S Line and 1888 ft. E of W Line of Section 18 Elevation 6380 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.

Date April 1, 1958 Title Exploitation Engineer

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

Commenced drilling February 16 19 58 Finished drilling February 23 19 58

OIL OR GAS SANDS OR ZONES

(gross) (Denote gas by G)

No. 1, from 4875 to 4984 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. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Yield point	Tensile strength	Diameter pulled from	Perforated		Purpose
							From—	To—	
8-5/8"	26	8	Nat'l	92	Baker	-	-	Surface	
4-7/8"	19.1	8	-	490	Baker	4875	4984 (gross)	Production	
HISTORIA DE OIL CO. CYS. MEXICO									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	102	100	Displacement	"	"
4-1/2"	5006	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 5010 feet, and from _____ feet to _____ feet

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

DATES

April 1, 19 58 Put to producing March 30, 19 58

The production for the first 24 hours was 148 barrels of fluid of which 99.9 % was oil; _____ % emulsion; _____ % water; and 0.1 % sediment. Gravity: 38° 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 Brinkerhoff Drlg. Co.

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1198	1405	207	Pictured Cliffs
1405	1575	170	Lewis
1575	2024	449	Cliff House
2024	3707	1683	Allison - Menefee
3707	3873	166	Point Lookout
3873	4773	900	Mancos
4773	-	-	Gallup

SHELL OIL COMPANY

Carson Unit

WELL NO. 23-18

Bisti

(FIELD)

DRILLING REPORT

FOR PERIOD ENDING

San Juan, New Mexico

(COUNTY)

2-23-58

18

(SECTION OR LEASE)

T 25 N, R 11 W

(TOWNSHIP OR RANGHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
			<p>Location: 1980' N and 1888' E of SW Corner, Section 18, T. 25 N., R. 11 W., N. M. P. M., San Juan County, New Mexico.</p> <p><u>Elevations:</u> DF 6378.57 GR 6371.67 KB 6380.77</p>
2-16 To 2-17	0	2219	Spudded 3:15 P.M. 2-16-58. Ran and cemented (92') 8-5/8", 24#, J-55 Nat'l casing at 102' 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.
2-18 To 2-21	2219	4840	<u>Drilled 2621'.</u>
2-22 To 2-23	4840	5010	<p><u>Drilled 170'.</u> Ran Electrical Survey and Microlog. Ran and cemented (4998') 4-1/2", 9.5# casing at 5006' with 150 sacks cement treated with 4% gel. Displaced with oil. Released rig. 11:00 A. M. 2-23-58.</p> <p>Checked BOP daily Mud Summary wt 9.2 - 9.8 #1 gal. vis 42 - 130 sec WL 5.8 - 7.3 cc FC 1/32"</p>

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

Contractor: Brinkerhoff Drlg. Co.

 Drillers: C. C. Adams
 W. F. Black
 E. Babcock

 R. D. Allen

SIGNED

SHELL OIL COMPANY

Carson Unit

WELL NO. 23-18

Bisti

DRILLING REPORT

FOR PERIOD ENDING

3-30-58

18

(SECTION OR LEASE)

(FIELD)
San Juan, New Mexico

(COUNTY)

T 25 N

R 11 W

(TOWNSHIP OR RANCH)

DAY	DEPTHS		REMARKS
	FROM	TO	
2-28	5010	TD	Ran Gamma Ray - collar log. Perforated four 1/2" bullet holes/ft. 4875-91, 4901-13, 4944-51, 4965-70, 4974-84.
3-13			Spotted 200 gal. mud acid opposite perforations. <u>Sand oil fracture treatment #1.</u> Broke down formation at 1950 psi. Injected 16,600 gal. crude oil with 1#/gal. sand, 50 nylon core balls. Injected 4700 gal. crude, 1#/gal. sand, 50 nylon core balls, Injected 10,000 gal. crude, 1#/gal. sand, 50 nylon core balls. Injected 3700 gal. crude, 1#/gal. sand, 50 nylon core balls. Injected 7100 gal. crude, 1#/gal. sand, 20 nylon core balls. After injecting 840 bbls, crude (1#/gal. sand and 200 nylon core balls) pressure increased from 2650 to 2900 psi. Maximum pressure 3000 psi, minimum pressure 2600 psi. average rate 36.4 bbls/min.
3-14 To 3-29			Cleaned out approximately 60' sand fill. Landed tubing at 4875'. Swabbed and well began flowing. Flowed and recovered all load and frac oil, 1486 bbls.
3-30			<u>INITIAL PRODUCTION</u> Flowing 148 B/D gross, 148 B/D clean, 0.1% cut, 16/64" choke, 680 MCF/D gas, GOR 4600, TP 1080. Completed 3-30-58

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	115	8-5/8"	102'
7-7/8"	115	5010	4-1/2"	5006'
DRILL PIPE SIZES 4-1/2"				

E. B. Johnstone