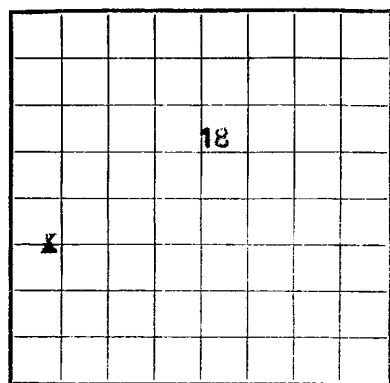


U. S. LAND OFFICE Santa Fe, N. M.
SERIAL NUMBER 14-20-603-1285
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address P.O. Box 158, Farmington, N. M.
Lessor or Tract Federal - Carson Unit Field Bisti State New Mexico
Well No. 13-18 Sec. 18 T. 25N R. 11W Meridian NMPM County San Juan
Location 1980 ft. N. of S. Line and 750 ft. E. of W. Line of Sec. 18 Elevation 6395 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.
Original signed by B. W. SHEPARD
Signed

Date March 25, 1960 Title Exploitation Engineer

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

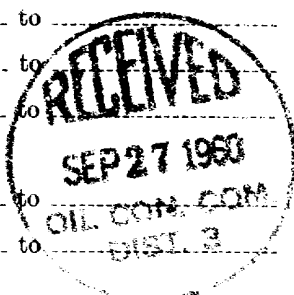
Commenced drilling January 11, 19 60 Finished drilling January 17, 19 60

OIL OR GAS SANDS OR ZONES

(gross) (Denote gas by G)
No. 1, from 4874 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. 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>22</u>	<u>8</u>	<u>Waco</u>	<u>100</u>	<u>Blind</u>	<u>4874</u>	<u>4984</u>	<u>Production</u>	
<u>4-1/2"</u>	<u>9.5</u>	<u>11.5</u>	<u>Waco</u>	<u>5038</u>	<u>Blind</u>	<u>4874</u>	<u>4984</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>8-5/8"</u>	<u>109</u>	<u>100</u>	<u>Displacement</u>		
<u>4-1/2"</u>	<u>5038</u>	<u>150</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 5040 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

....., 19 60 Put to producing March 7, 19 60
The production for the first 24 hours was 25 barrels of fluid of which 99.6% was oil;%
emulsion;% water; and 0.4% sediment. Gravity, 66 °Bé 40 API (approx.)
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 Erinkerhoff Drilling Co., Driller
....., Driller, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
<u>1190</u>	<u>1407</u>	<u>217</u>	<u>Pictured Cliffs</u>
<u>1407</u>	<u>1575</u>	<u>168</u>	<u>Lewis</u>
<u>1575</u>	<u>2030</u>	<u>455</u>	<u>Cliff House</u>
<u>2030</u>	<u>3702</u>	<u>1672</u>	<u>Allison-Menefee</u>
<u>3702</u>	<u>3863</u>	<u>161</u>	<u>Point Lookout</u>
<u>3863</u>	<u>4773</u>	<u>910</u>	<u>Mancos</u>
<u>4773</u>	<u>-</u>	<u>-</u>	<u>Gallup</u>

FOLD | MARK

SHELL OIL COMPANY

Carson Unit 13-18
WELL NO.

DRILLING REPORT

FOR PERIOD ENDING

18

(SECTION OR LEASE)

Bisti

(FIELD)

1-18-60

25 N

11 W

San Juan, New Mexico

(COUNTY)

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
			Location: 1980' N and 750' E of SW Corner Section 18, T. 25 N., R. 11 W., N.M.P.M., San Juan County, New Mexico Elevations: DF 6393.8 GR 6386.3 KB 6395.3
1-11 to 1-12	0	2501	Spudded 1:45 P.M. 1-11-60. Ran and cemented (100') 8-5/8" 28#, J-55 casing at 109' 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.
1-13 to 1-16	2501	4830	<u>Drilled 2329'</u> .
1-17 To 1-18	4830	5040 (TD)	<u>Drilled 210'</u> . Ran Micro-SP log. Ran and cemented (5029') 4-1/2", 9.5#, J-55 casing at 5038' with 150 sacks cement treated with 4% gel. Displaced with oil, held 1500 psi, OK. Released rig 11:15 A.M. 1-18-60. Checked BOP daily Mud Summary wt 9.1 - 9.8 #/gal vis 50 - 120 sec. wl 5 - 5.2 cc FC 2/32"

Contractor: Brinkerhoff Drlg. Co.
 Co. Pusher: W. C. Thompson

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

SHELL OIL COMPANY

Carson Unit 13-18
 WELL NO.

DRILLING REPORT
 FOR PERIOD ENDING

3-7-60

Bisti

(FIELD)

San Juan, New Mexico

(COUNTY)

18

(SECTION OR LEASE)

25 N 11 W

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
1-19	5040		Perforated four 1/2" bullet holes/ft. 4874-90, 4892-98, 4904-12, 4954-68, 4974-84. Spotted 200 gal. mud acid. Sand oil fractured with 50,000 gal. crude, 1#/gal. sand, 120 balls - no effect, maximum pressure 2500 psi, average rate 31.9 bbls./min. Bailed frac sand. Ran 2-3/8" tubing to 4880', ran rods and pump. Pumped and recovered all load and frac oil, 1486 bbls. INITIAL PRODUCTION Pumping 25 B/D gross, 25 B/D clean, cut 0.4%, 57 MCF/D gas, GOR 2280, Completed 3-7-60.
	(TD)		
1-20			
to			
1-21			
1-22			
1-23			
1-24			
to			
3-6			
3-7			

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	115	8-5/8"	109'
7-7/8"	115	5040	4-1/2"	5038'
DRILL PIPE 4-1/2" SIZES				

M. W. McGarry, Jr. *mm*