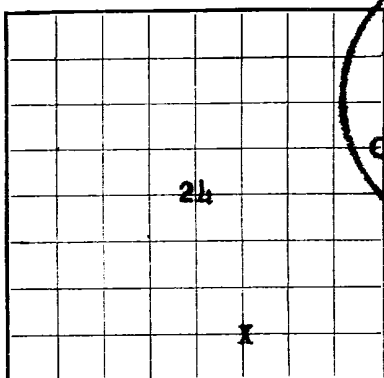
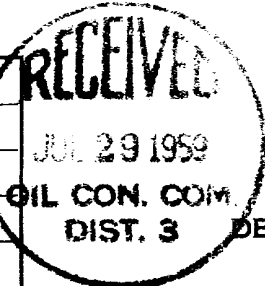


U. S. LAND OFFICE Santa Fe, N.M.SERIAL NUMBER SP 078064

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 705 West Municipal Drive, FarmingtonLessor or Tract Federal - Carson Unit Field 81st State New MexicoWell No. 31-24 Sec. 24 T. 25N R. 12W Meridian NMPM County San JuanLocation 660 ft. N. of S. Line and 1980 ft. W. of E. Line of Sec. 24 Elevation 6461 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
P. W. SHEPARDDate July 23, 1959 Title Exploitation Engineer

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

Commenced drilling June 17, 1959 Finished drilling June 23, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4826 gross to 4934 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—	
3-5/8"	21	8	National	90	Ball	Surface			Surface
4-1/2"	27	8	National	1100	Ball	1100			Production
									(gross)

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
3-5/8"	109	100	Displacement	—	—
4-1/2"	4995	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 5000 feet, and from _____ feet to _____ feet

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

DATES

_____ June 23, 1959 Put to producing July 7, 1959The production for the first 24 hours was 187 barrels of fluid of which 99.8 % was oil; _____ % emulsion; _____ % water; and 0.2 % sediment. Gravity 1.026 approx. 40° 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 Drilling Co.J. Speaker, Driller E. Babcock, DrillerM. Adams, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1228	1395	167	Pictured Cliffs
1395	1564	169	Lewis
1564	2065	501	Cliff House
2065	3667	1602	Allison - Manefee
3667	3828	161	Point Lookout
3828	4741	913	Mancos
4741	—	—	Gallup
1228	40—	3045 FEET	FORMATION

FORMATION RECORD—Continued



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

The information given herein is a complete and correct record of the well and all work thereon as far as can be determined from all available records.

Signed _____

C. E. _____

Location of well in _____ Township _____ Range _____
_____ of _____ Indian Reservation
Well No. _____ and Sec. _____ T. _____ R. _____ S. _____ Meridian
Person or firm having charge of well _____
Address _____ State _____ Field _____

Commanded drilling ... 1947 ... finished building ... 1947 ... The sum many on the part is for the condition of the ship at ... 1947 ...

THE OF GAS BANDS OF XOMEX

(Dated 20.12.2014)

.....	to	about 1.0%		to	about 1.0%
.....	to	about 2.0%		to	about 2.0%
.....	to	about 0.0%		to	about 2.0%

Attached, Drilling History

CASINO RECORD

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 drilled, 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

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

FROM-	TO-	TOTAL FEET	FORMATION
100.0	100.0	0.0	FORMATION
99.0	100.0	1.0	FORMATION
98.0	100.0	2.0	FORMATION
97.0	100.0	3.0	FORMATION
96.0	100.0	4.0	FORMATION
95.0	100.0	5.0	FORMATION
94.0	100.0	6.0	FORMATION
93.0	100.0	7.0	FORMATION
92.0	100.0	8.0	FORMATION
91.0	100.0	9.0	FORMATION
90.0	100.0	10.0	FORMATION
89.0	100.0	11.0	FORMATION
88.0	100.0	12.0	FORMATION
87.0	100.0	13.0	FORMATION
86.0	100.0	14.0	FORMATION
85.0	100.0	15.0	FORMATION
84.0	100.0	16.0	FORMATION
83.0	100.0	17.0	FORMATION
82.0	100.0	18.0	FORMATION
81.0	100.0	19.0	FORMATION
80.0	100.0	20.0	FORMATION
79.0	100.0	21.0	FORMATION
78.0	100.0	22.0	FORMATION
77.0	100.0	23.0	FORMATION
76.0	100.0	24.0	FORMATION
75.0	100.0	25.0	FORMATION
74.0	100.0	26.0	FORMATION
73.0	100.0	27.0	FORMATION
72.0	100.0	28.0	FORMATION
71.0	100.0	29.0	FORMATION
70.0	100.0	30.0	FORMATION
69.0	100.0	31.0	FORMATION
68.0	100.0	32.0	FORMATION
67.0	100.0	33.0	FORMATION
66.0	100.0	34.0	FORMATION
65.0	100.0	35.0	FORMATION
64.0	100.0	36.0	FORMATION
63.0	100.0	37.0	FORMATION
62.0	100.0	38.0	FORMATION
61.0	100.0	39.0	FORMATION
60.0	100.0	40.0	FORMATION
59.0	100.0	41.0	FORMATION
58.0	100.0	42.0	FORMATION
57.0	100.0	43.0	FORMATION
56.0	100.0	44.0	FORMATION
55.0	100.0	45.0	FORMATION
54.0	100.0	46.0	FORMATION
53.0	100.0	47.0	FORMATION
52.0	100.0	48.0	FORMATION
51.0	100.0	49.0	FORMATION
50.0	100.0	50.0	FORMATION

SHELL OIL COMPANY

Carson Unit
WELL NO. 31-21

DRILLING REPORT
FOR PERIOD ENDING

24

(SECTION OR LEASE)

T25N R12W

(TOWNSHIP OR RANCHO)

Bisti

(FIELD)

San Juan, New Mexico

(COUNTY)

6-24-59

DAY	DEPTHS		REMARKS
	FROM	TO	
6-17 to 6-18	0	2500	Location: 660' N and 1980' W of SE Corner Section 24, T25N, R12W, NMPM, San Juan County, New Mexico Elevations: DF 6459.8' CR 6452.3' KB 6461.3' Spudded 8:30 A.M. 6-17-59. Ran and cemented (99') 8-5/8", 24#, 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.
6-19 to 6-23	2500	5000	<u>Drilled 2500'.</u>
6-24	5000 (TD)		Ran electrical survey and microlog. Ran and cemented (4985') 4-1/2", 9.5#, J-55 casing at 4995' with 150 sacks cement treated with 4% gel. Displaced with oil. Final pressure 1800 psi. Released rig 3:00 P.M. 6-24-59. Checked BOP daily Mud Summary wt. 9.3-9.9#/gal. vis. 45-120 sec. WL 8-9 cc FC 2/32" Contractor: Brinkerhoff Drilling Co. Drillers: E. Babcock C. Adams J. Speaker

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

M. W. McGarry

SIGNED

SHELL OIL COMPANY

Carson Unit
 WELL NO. 34-24

DRILLING REPORT
 FOR PERIOD ENDING

Bisti
 (FIELD)
San Juan, New Mexico
 (COUNTY)

7-8-59

24
 (SECTION OR LEASE)
T25N R12W
 (TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
6-25	5000 (TD)		Perforated four 1/2" jet holes/foot 4826-28', 4833-35', 4838-40', 4844-54', 4869-79', 4882-97', 4900-12', 4922-34'.
6-26			Spotted 200 gallons mud acid. Sand oil fractured with 50,000 gallons crude, 1#/gallon sand + 250 rubber balls. Treating pressure 2150-2250, rate 35 barrels/minute. No effect from balls.
6-27			Cleaned out frac sand 4932-4885. Ran 2-3/8" tubing to 4897'.
6-28 to 7-7			Pumped and recovered all load and frac oil, 1545 barrels.
7-8			INITIAL PRODUCTION Pumped 187 B/D gross, 187 B/D oil, 0.2% cut, 161 MCF/D gas, GOR 850. (17-1/2 hour test) Completed 7-8-59.

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	5000	4-1/2"	4995'
DRILL PIPE SIZES 4-1/2"				

M. W. McGarry *mm*
 SIGNED