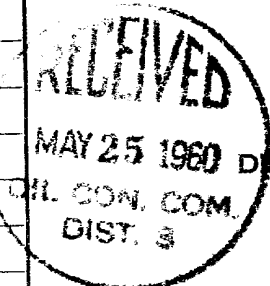


U. S. LAND OFFICE **Santa Fe, N. M.**
SERIAL NUMBER **SF 078061**
LEASE OR PERMIT TO PROSPECT

17

X



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Shell Oil Company Address Post Office Box 158, Farmington, N. M.

Lessor or Tract Federal - Carson Unit Field Bisti State New Mexico

Well No. 24-17 Sec. 17 T. 25N R. 11W Meridian N.M.P.M. County San Juan

Location 660 ft. N. of S Line and 1980 ft. E. of W Line of Section 17 Elevation 6396 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 _____

Checked signed by
B. J. [illegible]

Date May 4, 1960 Title Exploitation Engineer

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

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

Commenced drilling February 24, 1960. Finished drilling March 1, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

(Denote gas by G)

No. 1, from <u>4870</u> ^{gross} to <u>4978</u>	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

CASING RECORD							Perforated		Purpose
Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	
8-5/8	28								
4-1/2	8								
HISTORY OF OIL OR GAS WELL									
							4-1/2	8	COALBURNED BY THE OIL CO.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	105	100	Displacement	-	-
4-1/2	5023	150	Displacement	-	-

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

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

GENERAL DATA		DATES	
May 4	19 60	Put to producing	April 26, 19 60
The production for the first 24 hours was 25 barrels of fluid of which 99.3% was oil; %		emulsion; % water; and 0.7% sediment.	
		Gravity, 86.5 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 **Brinkerhoff Drilling Co.**

EMPLOYEES		SIGNATURE		DATE	
_____	Driller	_____	Driller	_____	_____
_____	Driller	_____	Driller	_____	_____

FORMATION RECORD

FROM--	TO--	TOTAL FEET	FORMATION
1202	1403	201	Pictured Cliffs
1403	1571	168	Lewis
1571	2016	445	Cliff House
2016	3698	1682	Allison-Menefee
3698	3868	170	Point Lookout
3868	4764	896	Mancos
4764	-	-	Gallup

[OVER]
FORMATION RECORD - 10/11/64

16-43094-3

U. S. LAND OFFICE
SERIAL NUMBER
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

[illegible]

LOCALITY: NEW YORK

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 _____

Well No. _____ Sec. _____ T. _____ R. _____ Meridian
Location _____ of _____ Line and _____ W. _____
_____ of _____ Line of _____ Section _____ Elevation _____ Feet
County _____ State _____ New Mexico
Address _____
Company _____

Completed drilling _____, 19____. Finished drilling _____, 19____. The summary on this page is for the condition of the well at above date.

Date _____ Title _____

OIL OR GAS SANDS OR ZONES

(U) and (S) (U)

No. 1, from	to	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. 8, from	to
No. 2, from	to	No. 4, from	to

CASING RECORD

State	Median net cost	Third-party payor	Age	Amount	Kind of case	Out and related costs	From	To	Performed	Support
-------	-----------------	-------------------	-----	--------	--------------	-----------------------	------	----	-----------	---------

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, note fully, and if any cements were "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 piers 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

MUDDING AND CEMENTING RECORD

Weight lb.	Number and size of cement	Mortar used	Water used	Amount of mud used
-				
-				

PLUGS AND ADAPTERS

[illegible]

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from	feet to	feet and from	feet to
Cable tools were used from	feet to	feet and from	feet to

DATE

10 21 Put to producing	10 21 The production for the first 24 hours was
10 22 partels of fluid of which 99.9% was oil;	10 22 emulsion; 1% water; and 1% sediment.
10 23 Gravity, 80°	10 23 72 per cent. oil per 24 hours
10 24 Gallons gasoline per 1,000 cu. ft. of gas	10 24 72 per cent. oil per 24 hours

EMPLOYEES

Driller		
Driller		

FORMATION RECORD

[illegible]

FORMATION RECORD—Continued (OAR)

1950

FORMATION
$$S_1 \geq \frac{1}{2} \left(\frac{1}{2} \right)^{\frac{1}{2}} = \frac{1}{2}$$

SHELL OIL COMPANY

Carson Unit
 WELL NO. 24-17

DRILLING REPORT
 FOR PERIOD ENDING

3-2-60

Bisti

(FIELD)

San Juan, New Mexico

(COUNTY)

17

(SECTION OR LEASE)

T25N R11W

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
			Location: 660'N and 1980'E of SW corner Sec. 17, T25N, R11W, NMPM, San Juan County, New Mexico Elevations: DF 6394.91 GR 6387.16 KB 6396.41
2-24 To 2-25	0	2550	Spudded 2:15 p.m. 2-24-60. Ran and cemented (96') 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.
2-26 To 2-29	2550	4900	Drilled 2550'.
3-1 To 3-2	4900	5025 (TD)	Drilled 125'. Ran Micro-SP log. Ran and cemented (5014') 4-1/2", 9.5#, J-55 casing at 5023' with 150 sacks cement treated with 4% gel. Displaced with oil. Held 1500 psi, OK. Released rig 1:00 a.m. 3-2-60. Checked BOP daily Mud Summary Wt 9.2-9.8 #/gal. Vis 44-120 sec. WL 5-6 cc FC 2/32" Contractor: Brinkerhoff Drilling Co. Co. Pusher: C. L. Christiansen

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
 WELL NO. 24-17

DRILLING REPORT
 FOR PERIOD ENDING

Bisti

(FIELD)

San Juan, New Mexico

(COUNTY)

4-23-60

17

(SECTION OR LEASE)

T25N R11W

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
3-4	5025 (TD)		Perforated four 1/2" holes/ft. 4870-87, 4892-4901, 4932-43, 4552-62, 4970-78.
3-5			Spotted 200 gal. mud acid. Sand oil fractured with 50,000 gal. crude, 1#/gal. sand. Dropped 125 balls, 100 psi increase. Maximum pressure 2500 psi, average rate 29.0 bbls/min.
3-6 To 3-7			Cleaned out frac sand. Ran 2-3/8" tubing to 4875, ran rods and pump.
3-8 To 4-22			Pumped acid, 200 gal. 10% HCl, 100 gal. 5% HCl.
4-23			INITIAL PRODUCTION Pumping 24 B/D gross, 24 B/D clean, cut 0.7%, 44 MCF/D gas, GOR 1830. Completed 4-23-60

CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	106	8-5/8"	105
7-7/8"	106	5025	4-1/2"	5023
DRILL PIPE SIZES 4-1/2"				

M. W. McGarry, Jr.

SIGNED