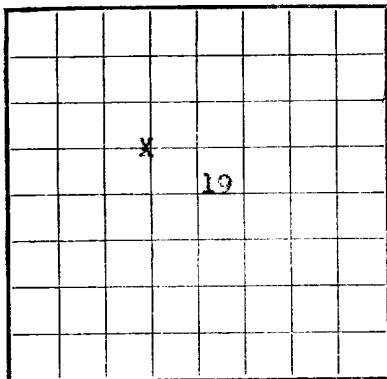


U. S. LAND OFFICE Santa Fe, N. M.
SERIAL NUMBER SF 078063
LEASE OR PERMIT TO PROSPECT _____

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 Disti State New Mexico
Well No. 22-19 Sec. 19 T. 25N R. 11W Meridian NMP County San Juan
Location 1980 ft. N. of N. Line and 1980 ft. E. of N. Line of Sec. 19 Elevation 6449 KB
(Derrik 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
Signed E. W. SHEPARD

Date April 12, 1960 Title Exploitation Engineer

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

Commenced drilling March 11, 1960 Finished drilling March 17, 1960

OIL OR GAS SANDS OR ZONES

(gross) (Denote gas by G)
No. 1, from 4868 to 4980 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>28.8</u>	<u>8</u>	<u>AMCO</u>	<u>5000</u>	<u>Ball</u>	<u>Surface</u>	<u>4868</u>	<u>4980</u>	<u>Production</u>
<u>4-1/2"</u>	<u>9.5</u>	<u>11.5</u>	<u>AMCO</u>	<u>5000</u>	<u>Ball</u>	<u>Surface</u>	<u>4868</u>	<u>4980</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>108</u>	<u>100</u>	<u>Displacement</u>	<u>-</u>	<u>-</u>
<u>4-1/2"</u>	<u>5027</u>	<u>150</u>	<u>"</u>	<u>-</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 _____ feet to 5030 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

April 12, 1960 Put to producing April 3, 1960
The production for the first 24 hours was 167 barrels of fluid of which 99.9 % was oil; _____ %
emulsion; _____ % water; and 0.1 % sediment. Gravity, °Bé. xxx 40° approx. 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

_____, Driller Grinkerhoff Drilling Co., Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>1214</u>	<u>1420</u>	<u>206</u>	<u>Pictured Cliffs</u>
<u>1420</u>	<u>1592</u>	<u>172</u>	<u>Lewis</u>
<u>1592</u>	<u>2089</u>	<u>497</u>	<u>Cliff House</u>
<u>2089</u>	<u>3696</u>	<u>1607</u>	<u>Allison-Menefee</u>
<u>3696</u>	<u>3863</u>	<u>167</u>	<u>Point Lookout</u>
<u>3863</u>	<u>4770</u>	<u>907</u>	<u>Mancos</u>
<u>4770</u>	<u>-</u>	<u>-</u>	<u>Gallup</u>

10-10-68
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10-10-68

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NOTE OF OIL OR GAS WELL

Y-123456789 1111 17420 1

The information given hereafter 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 _____
County Clerk

Witness my hand and seal at _____ this _____ day of _____ A.D. 19____.
(Seal of County Clerk)

Welford, _____ Son of _____, _____
Lessor or Trustee of the above described land
County _____ State _____
Address _____

Quantity of building materials furnished during calendar year 1941 _____

The summary on this page is for the condition of the work as shown date _____

Date _____

This is a preliminary report.

OUT OF GAS BANDS OR ZONES

Q. ed 207: 10/1/11

No. 1, from	to	No. 4, from
No. 2, from	to	No. 5, from
No. 3, from	to	No. 6, from

IMPORTANT WATER SANDS

.....		mod 1.8.07			mod 1.07
.....		mod 1.07			mod 1.07

CHRONER DUNLAP

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 balling.

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE 10-50994-2

[illegible]

FORMATION RECORD—Continued

FORMATION

THE UNIVERSITY OF CHICAGO

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DRILLING REPORT FOR PERIOD ENDING

19

(FIELD)

(SECTION OR LEASE)

San Juan, New Mexico

3-20-60

T25N R11W

(COUNTY)

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
			Location: 1980' S and 1980' E of NW corner Sec. 19, T25N, R11W, NMPM, San Juan County, New Mexico.
			Elevations: DF 6447.4' GR 6439.8' KB 6448.9'
3-11 to 3-12	0	2806	Spudded 6:00 A.M. 3-11-60. Ran and cemented (99') 8-5/8", 28#, J-55 casing at 108' 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.
3-13 to 3-16	2806	4945	Drilled 2139'.
3-17	4945	5030	Drilled 85'. Stuck pipe while pulling to run logs. Pulled 160,000#, top section of derrick collapsed, crown dropped 3' and held in derrick.
3-18 to 3-19	5030 TD		Circulated, waited on new top section, replaced, pulled pipe free. Ran Micro-SP log.
3-20	5030 TD		Ran and cemented (5018') 4-1/2", 9.5#, J-55 casing at 5027' with 150 sacks cement treated with 4% gel. Displaced with oil, held 1500 psi, OK. Rig released 9:15 A.M. 3-20-60.
			Checked BOP daily Mud Summary Wt 9.4-9.8#/gal. Vis 60-120 sec. WL 5-6 cc Fc 2-3/32"
			Contractor: Brinkerhoff Drilling Co. Co. Pusher: W. C. Thompson

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
DRILL PIPE SIZE				

M. W. McGarry, Jr.

SIGNED

Bisti

DRILLING REPORT
FOR PERIOD ENDING

19

(SECTION OR LEASE)

(FIELD)
San Juan, New Mexico

4-3-60

T25N R11W

(COUNTY)

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
3-21	5030 TD		Perforated four 1/2" holes/ft. 4868-88, 4898-4905, 4934-42, 4952-62, 4968-80.
3-22			Spotted 200 gal. mud acid. Sand oil fractured with 50,000 gal. crude, 1#/gal. sand, 120 balls. Maximum pressure 2200 psi, average rate 31 bbls/min.
3-24 to 3-25			Cleaned out frac sand 4975-5020'. Ran 2-3/8" tubing to 4870', ran rods and pump.
3-26 to 4-2			Pumped and recovered all load and frac oil, 1526 bbls.
4-3			INITIAL PRODUCTION Pumping 167 B/D gross, 167 B/D clean, 0.1% cut, 299 MCF/D gas, GOR 1790. Completed 4-3-60

CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	115	8-5/8"	108'
7-7/8"	115	5030	4-1/2"	5027'
DRILL PIPE SIZE 4-1/2"				

M. W. McGarry, Jr.

SIGNED