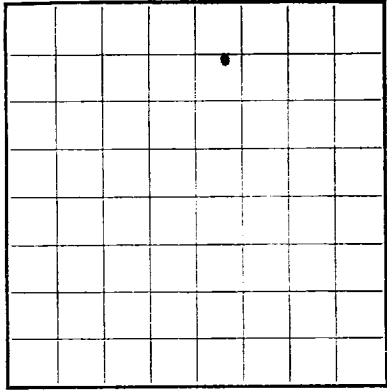




UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY
Company Arnold H. Bruner Address C/o J. N. Sikes, Jr. Allen Building, Midland, Texas
Lessor or Tract Federal-Shearn Field Allison Penn. State New Mexico
Well No. 1 Sec. 24 T. 8S R. 36E Meridian NMPM County Roosevelt
Location 766 ft. N of N Line and 1874 ft. E of E Line of Sec. 24 Elevation 4093
(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 [Signature]
Date February 26, 1963 Title Agent

The summary on this page is for the condition of the well at above date.
Commenced drilling January 5, 1963 Finished drilling February 5, 1963

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 9685 to 9691 No. 4, from _____ to _____
No. 2, from 9696 to 9708 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—	
13-3/8	48#	8 rd	H-40	363	Tex. Pat.	+	-	-	Surf. csg.
8-5/8	32#	8 rd	J-55	4295	Larkin	-	-	-	Salt string
5-1/2	13.5	8 rd	J-55	9775	Larkin	-	9685	9691	Oil string
	& 17						9698	9708	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	375	300	Pump & plug		
8-5/8	4295	300	"		3650-375
5-1/2	9775	250	"		8820-4295

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 9775 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing February 20, 1963.
The production for the first 24 hours was 146 barrels of fluid of which 82 % was oil; _____ % emulsion; 18 % water; and _____ % sediment. Gravity, °Bé. 47
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

James A. Roberts, Driller James D. Kuykendall, Driller
Arthur E. Dennis, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION	
0	2400	2400	Red beds	Tops:
2400	2865	465	Salt	
2865	2965	100	Sand	Yates 2865
2965	3585	620	Anhy. & salt	
3585	4060	475	Anhy., red beds, salt	San Andres 4060
4060	5530	1470	Lime, anhy., salt	Glorieta 5530
5530	6212	682	Sand, salt & lime	Clearfork 6212
6212	6960	748	Lime/salt stringers	Tubb 6960
6960	7822	862	Lime, sand & shale	Abo 7822
7822	9775	1953	Lime w/shale strks.	Wolfcamp 9104
	T.D.		Bough "C"	9678

Figure 1 shows a 2D hexagonal lattice of atoms. A central atom is highlighted with a larger, bolded circle. A dashed line connects this central atom to one of its six nearest neighbors. The lattice is arranged in a regular hexagonal pattern, with atoms extending to the edges of the frame.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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 "sinkerholed," 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 bailing.

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