

A blank 10x10 grid for graphing, consisting of 10 columns and 10 rows of squares.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED

MAR 7 1959

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company O. A. Larrazolo, Operator Address 253 Korber Bldg, Albuquerque
Lessor or Tract No. 149-Ind-7973 Field Torreón State New Mexico
Well No. 2161 Sec. 21 T. 18N 4 W Meridian N. M. P. M. County Sandoval
Location 660 ft. N. of N Line and 660 ft. E of E Line of Sec 22 Elevation

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 _____

Date March 12, 1959 Title Operator

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

Commenced drilling **February 1,** 19**59** Finished drilling **March 2,** 19**59**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from No Gas sands to _____
 No. 2, from _____ to _____
 No. 3, from _____ to _____
 No. 4, from _____ to _____
 No. 5, from _____ to _____
 No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 878 to 902 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—	
7" 4#	Surface 12.5#	8 round	Nat.	32' 988'	cemented to top Larkin		878	902	Test sand
		Ran 2"	tubing to 900 ft.	with no packer.					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7"	32'	cemented to top			
4 1/8"	988'	Halliburton 100	sacks		

PLUGS AND ADAPTERS

Heaving plug—Material ----- Length ----- Depth set -----

Adapters—Material	Size
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SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Hydrafracked 878 to 902 with 20,000 gals.. water and 20,000 lbs..						

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

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

DATES

Put to producing _____, 19____

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours ----- Gallons gasoline per 1,000 cu. ft. of gas -----

Rock pressure, lbs. per sq. in. _____

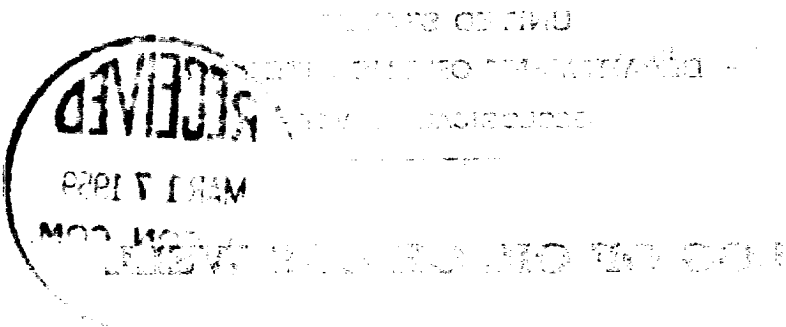
EMPLOYEES

_____, Driller

_____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
45	50	5	Coal and bituminous sandstone.
50	70	20	Medium grain gray sandstone.
70	80	10	Bituminous gray shale and gray sandstone
80	85	5	Coal
85	90	5	Blue gray shale.
90	120	30	Soft gray shaly sandstone.
120	125	5	Dark gray sandy shale.
125	185	60	Dark gray lignitic shale, trace coal.
185	205	20	Light gray medium grain sandstone.
205	245	40	Bituminous black shale.
245	305	60	Dark gray bituminous sandstone and shale.
305	315	10	Hard dark blue shale.
315	335	20	Hard medium grain gray sandstone and gray shale.
335	345	10	Black carbonaceous shale.
345	385	40	Dark gray sandy shale.
385	405	20	Soft dark gray shaly sandstone.
405	425	20	Dark gray sandy bentonitic shale.
425	455	30	Blue gray sandy shale.
455	465	10	Light gray shaly sandstone.
465	475	10	Carbonaceous shale.
475	565	90	Very sandy gray shale.
565	575	10	Light gray fine grain sandstone.
575	585	10	Dark gray sandy shale.



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 for 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
585	605	20	Very soft fine grain shaly gray sandstone.
605	625	20	Very sandy gray shale and shaly sandstone.
625	635	10	Hard fine grain light gray sandstone.
635	645	10	Dark, somewhat carbonaceous shale.
645	735	90	Very sandy gray shale.
735	765	30	Soft gray very shaly sandstone.
765	805	35	Soft dark gray sandstone and gray shale.
805	815	10	Coarse grain quartzitic sandstone.
815	845	30	Very shaly sandstone and gray sandy shale.
845	855	10	Gray fine grain quartzitic sandstone.
855	875	20	Sandy gray shale and shaly sandstone.
875	895	20	Coarse grain quartzitic sandstone with lime cement.
895	905	10	Sandy light gray shale.
905	915	10	Blue gray slightly carbonaceous shale.
915	965	30	Sandy blue gray shale sandstone stringers.
965	985	20	Medium grain quartzitic sandstone--
985	1015	20	Some gray shale.
1015	1019	4	Dark gray shale.
1019	1029	30	Carbonaceous gray shale.
1029	1037	10	Fine grained gray sandstone and carbonaceous shale.
1037	1045	8	Cored: Recovered: 5' 2" fine grain gray sandstone. 1' 0" carbonaceous gray sandstone. NO SHOWS.
1045	1065	20	Cored: Recovered: 5' 1" sandstone 1' coal 8". NO SHOWS.
1065	1075	10	Somewhat sandy gray shale.
1075	1085	10	Sandy gray shale sandstone stringers.
1085	1095	10	Bandy gray shale--some gray sandstone.
1095	1115	20	Light gray sandy shale some sandstone.
1115	1195	80	Light gray sandstone. T.D.