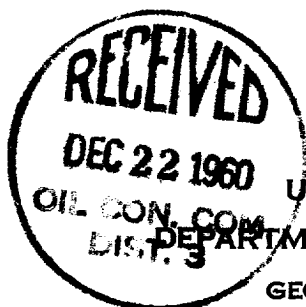
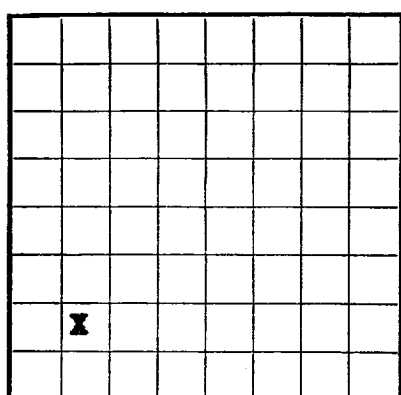


U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **679867**
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYRECEIVED
DEC 22 1960U. S. GEOLOGICAL SURVEY
WASHINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **El Paso Natural Gas Company** Address **Box 990, Farmington, New Mexico**
Lessor or Tract **San Juan 32-8 Unit** **Minerals N.V. &**
Well No. **35(100)** Sec. **13** T. **31-N** R. **8-W** Meridian **N.M.P.M.** State **New Mexico**
Location **990** ft. **N.** of **8** Line and **890** ft. **E.** of **W** Line of **Section 13** Elevation **6522**
(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 H.E. McANALLY**Date **December 14, 1960**Title **Petroleum Engineer**

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

Commenced drilling **8-20-** 19**60** Finished drilling **9-21-** 19**60**Casing No. 1: **8032-8039** **Sec. 30, 1** **OIL OR GAS SANDS OR ZONES**Casing No. 2: **8041-8039** **Sec. 30, 2** (Denote gas by G)Casing No. 3: **1022-1029** **Sec. 21, 3**No. 1, from **1022-1029** to **Sec. 21, 3** No. 4, from _____ to _____

No. 2, from _____ to _____ No. 5, from _____ to _____

No. 3, from _____ to _____ No. 6, from _____ to _____

No. 4, from _____ to _____

No. 5, from _____ to _____

No. 6, from _____ to _____

No. 7, from _____ to _____

No. 8, from _____ to _____

No. 9, from _____ to _____

No. 10, from _____ to _____

CASING RECORD

Casing No.	Size per foot	Depth ft.	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
13-3/8"	302	370	370	370	370	370			
9-5/8"	3751	220	220	220	220	220			
7"	7912	1080	1080	1080	1080	1080			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8"	302	370	circulated		
9-5/8"	3751	220	single stage		
7"	7912	1080	single stage		

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
		See Well History				

TOOLS USED

Rotary tools were used from **0** feet to **3772** feet, and from **3772** feet to **7912** feetCable tools were used from _____ feet to _____ feet, and from **7912** feet to **8156** feet

DATES

P & A **9-21-** 19**60** 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 **P & A** Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

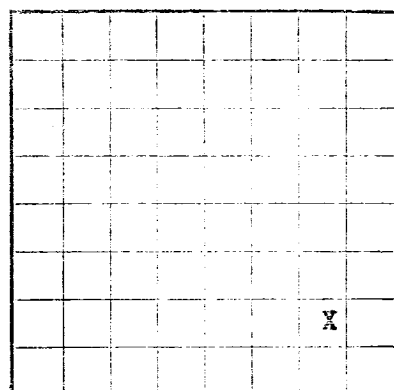
FROM—	TO—	TOTAL FEET	FORMATION
Undev.	2700	2700	Ojo Alamo ss. White cr-grn s.
2700	3086	386	Kirtland form. Gry sh interbedded w/tight gry fin
3086	3423	337	grn ss.
3423	3617	194	Fruitland form. Gry carb sh, scattered coals,
3617	5314	1697	coals and gry, tight, fine-grn ss.
5314	5404	90	Pictured Cliffs form. Gry, fine-grn, tight,
5404	5668	264	varicolored soft ss.
5668	5862	194	Lewis form. Gry, fine-grn, dense sil ss.
5862	7160	1298	Cliff House ss. Gry, fine-grn, dense sil ss.
7160	7363	203	Mammoth form. Gry, fine-grn s, carb sh & coal.
7363	7760	397	Point Lookout form. Gry, very fine sil ss
7760	7812	52	w/frequent sh breaks.
7812	7934	122	Mammoth form. Gry carb sh.
7934	8123	189	Gallup form. Lt gry to brn calc carb micac
8123	8156	33	glauco very fine gry ss w/irreg.interbed sh.
LEON—	LO—	LOLVF LEEEL	San Juan form. Brk gry calc very fine to fine
			gry ss w/calc veins w/irreg inter drk gry s.
			Greenhorn form. Highly calc gry sh w/thin lmst.
			San Juan form. Brk gry sh, fossil & carb w/rite
			incl.
			San Juan form. Lt to dk gry foss carb sl calc sl
			silty ss w/rite incl thin sh bands clay &
			sh breaks.
			San Juan form. Interbed grn brn & red waxy sh
			& gr to cr grn ss.

FORMATION RECORD—Continued

PLEASE OR PERMIT TO PROSPECT
SERIAL NUMBER
U.S. LAND OFFICE
Santa Fe

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
DEC 3 5 1960
U.S. DEPARTMENT OF
GEOL.



LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

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 _____

Witness _____

Section 13 of _____ Township _____ Range _____

Location _____

Well No. _____

32 (nd) Sec. 13 T. 8 N. R. 8 W. Meridian

San Juan 32-3 Unit

High Basin District

State New Mexico

County San Juan

Address _____

Box 990, Farmington, New Mexico

Company _____

U.S. DEPARTMENT OF JUSTICE

Not a reference to

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Age	Sex	Height (cm)	Weight (kg)	Body fat (%)	Heart rate (b/min)	VO ₂ (l/min)	VO ₂ max (l/min)	VO ₂ max (ml/kg/min)	VO ₂ max (ml/kg/min)
20.0	M	178.0	75.0	15.0	150	3.5	4.5	25.0	25.0
20.0	F	165.0	55.0	18.0	140	3.0	4.0	22.0	22.0
20.0	M	170.0	70.0	12.0	160	3.8	4.8	28.0	28.0
20.0	F	160.0	50.0	20.0	130	2.8	3.8	20.0	20.0
20.0	M	175.0	72.0	14.0	155	3.6	4.6	26.0	26.0
20.0	F	162.0	52.0	19.0	135	2.9	3.9	21.0	21.0
20.0	M	172.0	68.0	13.0	158	3.7	4.7	27.0	27.0
20.0	F	161.0	51.0	21.0	132	2.7	3.7	19.0	19.0
20.0	M	176.0	74.0	16.0	152	3.4	4.4	24.0	24.0
20.0	F	164.0	54.0	17.0	138	3.1	4.1	23.0	23.0
20.0	M	171.0	69.0	11.0	162	3.9	4.9	29.0	29.0
20.0	F	163.0	53.0	22.0	131	2.6	3.6	18.0	18.0
20.0	M	173.0	71.0	15.0	156	3.5	4.5	25.0	25.0
20.0	F	166.0	56.0	19.0	136	3.0	4.0	22.0	22.0
20.0	M	174.0	73.0	14.0	154	3.6	4.6	26.0	26.0
20.0	F	167.0	57.0	20.0	134	2.9	3.9	21.0	21.0
20.0	M	177.0	76.0	17.0	151	3.3	4.3	23.0	23.0
20.0	F	168.0	58.0	21.0	133	2.8	3.8	20.0	20.0
20.0	M	179.0	78.0	18.0	149	3.2	4.2	22.0	22.0
20.0	F	169.0	59.0	23.0	130	2.5	3.5	17.0	17.0
20.0	M	180.0	80.0	19.0	148	3.1	4.1	21.0	21.0
20.0	F	170.0	60.0	24.0	129	2.4	3.4	16.0	16.0
20.0	M	181.0	81.0	20.0	147	3.0	4.0	20.0	20.0
20.0	F	171.0	61.0	25.0	128	2.3	3.3	15.0	15.0
20.0	M	182.0	82.0	21.0	146	2.9	3.9	19.0	19.0
20.0	F	172.0	62.0	26.0	127	2.2	3.2	14.0	14.0
20.0	M	183.0	83.0	22.0	145	2.8	3.8	18.0	18.0
20.0	F	173.0	63.0	27.0	126	2.1	3.1	13.0	13.0
20.0	M	184.0	84.0	23.0	144	2.7	3.7	17.0	17.0
20.0	F	174.0	64.0	28.0	125	2.0	3.0	12.0	12.0
20.0	M	185.0	85.0	24.0	143	2.6	3.6	16.0	16.0
20.0	F	175.0	65.0	29.0	124	1.9	2.9	11.0	11.0
20.0	M	186.0	86.0	25.0	142	2.5	3.5	15.0	15.0
20.0	F	176.0	66.0	30.0	123	1.8	2.8	10.0	10.0
20.0	M	187.0	87.0	26.0	141	2.4	3.4	14.0	14.0
20.0	F	177.0	67.0	31.0	122	1.7	2.7	9.0	9.0
20.0	M	188.0	88.0	27.0	140	2.3	3.3	13.0	13.0
20.0	F	178.0	68.0	32.0	121	1.6	2.6	8.0	8.0
20.0	M	189.0	89.0	28.0	139	2.2	3.2	12.0	12.0
20.0									

Core No.	Depth (feet)	Remarks
Core No. 1	1935-1985	to
Core No. 2	1586-2007	to
Core No. 3	2007-2036	to
Core No. 4	2036-2066	to
Core No. 5	2066-2100	to
Core No. 6	2100-2150	to
Core No. 7	2150-2200	to
Core No. 8	2200-2250	to
Core No. 9	2250-2300	to
Core No. 10	2300-2350	to
Core No. 11	2350-2400	to
Core No. 12	2400-2450	to
Core No. 13	2450-2500	to
Core No. 14	2500-2550	to
Core No. 15	2550-2600	to
Core No. 16	2600-2650	to
Core No. 17	2650-2700	to
Core No. 18	2700-2750	to
Core No. 19	2750-2800	to
Core No. 20	2800-2850	to
Core No. 21	2850-2900	to
Core No. 22	2900-2950	to
Core No. 23	2950-3000	to
Core No. 24	3000-3050	to
Core No. 25	3050-3100	to
Core No. 26	3100-3150	to
Core No. 27	3150-3200	to
Core No. 28	3200-3250	to
Core No. 29	3250-3300	to
Core No. 30	3300-3350	to
Core No. 31	3350-3400	to
Core No. 32	3400-3450	to
Core No. 33	3450-3500	to
Core No. 34	3500-3550	to
Core No. 35	3550-3600	to
Core No. 36	3600-3650	to
Core No. 37	3650-3700	to
Core No. 38	3700-3750	to
Core No. 39	3750-3800	to
Core No. 40	3800-3850	to
Core No. 41	3850-3900	to
Core No. 42	3900-3950	to
Core No. 43	3950-4000	to
Core No. 44	4000-4050	to
Core No. 45	4050-4100	to
Core No. 46	4100-4150	to
Core No. 47	4150-4200	to
Core No. 48	4200-4250	to
Core No. 49	4250-4300	to
Core No. 50	4300-4350	to
Core No. 51	4350-4400	to
Core No. 52	4400-4450	to
Core No. 53	4450-4500	to
Core No. 54	4500-4550	to
Core No. 55	4550-4600	to
Core No. 56	4600-4650	to
Core No. 57	4650-4700	to
Core No. 58	4700-4750	to
Core No. 59	4750-4800	to
Core No. 60	4800-4850	to
Core No. 61	4850-4900	to
Core No. 62	4900-4950	to
Core No. 63	4950-5000	to
Core No. 64	5000-5050	to
Core No. 65	5050-5100	to
Core No. 66	5100-5150	to
Core No. 67	5150-5200	to
Core No. 68	5200-5250	to
Core No. 69	5250-5300	to
Core No. 70	5300-5350	to
Core No. 71	5350-5400	to
Core No. 72	5400-5450	to
Core No. 73	5450-5500	to
Core No. 74	5500-5550	to
Core No. 75	5550-5600	to
Core No. 76	5600-5650	to
Core No. 77	5650-5700	to
Core No. 78	5700-5750	to
Core No. 79	5750-5800	to
Core No. 80	5800-5850	to
Core No. 81	5850-5900	to
Core No. 82	5900-5950	to
Core No. 83	5950-6000	to
Core No. 84	6000-6050	to
Core No. 85	6050-6100	to
Core No. 86	6100-6150	to
Core No. 87	6150-6200	to
Core No. 88	6200-6250	to
Core No. 89	6250-6300	to
Core No. 90	6300-6350	to
Core No. 91	6350-6400	to
Core No. 92	6400-6450	to
Core No. 93	6450-6500	to
Core No. 94	6500-6550	to
Core No. 95	6550-6600	to
Core No. 96	6600-6650	to
Core No. 97	6650-6700	to
Core No. 98	6700-6750	to
Core No. 99	6750-6800	to

CASING RECORD

[illegible]

HISTORY OF OIL OR GAS WELL

U.S. GOVERNMENT PRINTING OFFICE 16-43004-2

MUDGING AND CEMENTING RECORD

Coating Size	Wetted set	Number rods of cement	Method used	Wind gravity	Amount to burn used
3/8"	305	50	Electric arc		
7/8"	347	50	Electric arc		
"	125	100	Electric arc		

PLUGS AND CAPS

Abaxons—Material	Length	Depth set
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SHOOTING RECORD

Site	Shell used	Explosive used	Quantity	Date	Report sheet	Depth cleaned out
See Well History						

CONCLUSIONS

[illegible]

100

It gas well, out ft. per 24 hours	7.5	4	Gallons gasoline per 1,000 cu. ft. of gas
Emulsion; % water; and % sediment	0	0	Gravity, °Bé.
The production for the first 24 hours was	10	0	barrels of fluid of which % was oil; %
Part to producing	10	0	

27 MAY 1964

.....	
.....	

FORMATION RECORD

FROM -	TO -	TOTAL FEET	FORMATION
0153	8150	33	Northton form. Interbedded tan and red waxy sh breaks.
1934	8153	180	Pakota form. Lt to dk grey fossiliferous clay & silty ss w/white thin sh bands clay & incl.
1935	1934	122	Graneros form. Dk grey sh, fossiliferous & carb w/p.
1936	1935	25	Greenhorn form. Highly calc grey sh w/thin l. of grey ss w/calc veins w/interbedded grey & calc.
1938	1936	301	Sanctae form. Dk grey calc very fine to silty. Interbedded grey ss w/interbedded silty.
1939	1938	203	Gallup form. Lt grey to brn calc carb misc.
1940	1939	1200	Mancos form. Grey carb sh.
1941	1940	194	Point Lookout form. Grey, very fine silty ss.
1942	1941	204	Mancos form. Grey, fine-grained, carb sh & co.
1943	1942	90	Cliff House ss. Grey, fine-grained, dense silty ss.
1944	1943	1007	Lewis form. Grey, fine-grained, dense silty ss.
1945	1944	194	Varicolored soft ss.
1946	1945	194	Flinted cliffs form. Grey, fine-grained, silty, coals and grey, light, fine-grained ss.
1947	1946	331	Fruitland form. Grey carb sh, scattered coals.
1948	1947	386	Grass ss.
1949	1948	2700	Kirtland form. Grey sh interbedded w/light & dark grey ss. White cr-gm ss.
UNDG.	1949		

FORMATION RECORD—Continued

1990

3-10085-1