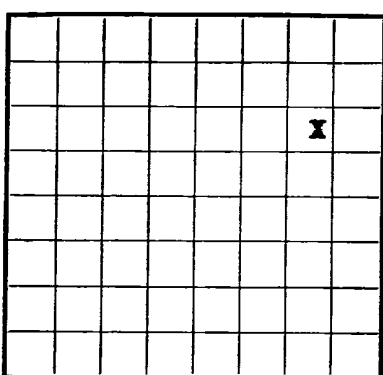




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa FeSERIAL NUMBER 079521-ALEASE OR PERMIT TO PROSPECT RECEIVEDUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SEP 7 1961

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico
Lessor or Tract San Juan 28-5 Unit Field Blanco Mesa Verde State New Mexico
Well No. 51 Sec. 31 T. 28-N R. 5-W Meridian N.M.P.M. County Rio Arriba
Location 1800 ft. NE of N. Line and 1150 ft. NE of E. Line of Section 31 Elevation 6417
(Denote base 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: A.M. SMITHDate September 5, 1961Title Petroleum Engineer

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

Commenced drilling 7-31-61, 1961 Finished drilling 8-11, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3211 to 3293 (G) No. 4, from 5388 to 5488 (G)
No. 2, from 4950 to 5070 (G) No. 5, from _____
No. 3, from 5070 to 5388 (G) No. 6, from _____

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—	
9 5/8"	32.3	8.54	J-55	5470	HI-LOK	Oil			Production
7"	21.3	8.54	J-55	5470	HI-LOK	Oil			Production
4 1/2"	9.5	8.54	J-55	5470	HI-LOK	Oil			Production
2 3/8"	4.7	8.54	J-55	5470	HI-LOK	Oil			Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	294	245	circulated & squeeze		
7"	3430	150	single stage		
4 1/2"	3285-5578	260	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
5404-10; 5420-26; 5430-42; 5448-54;						
5462-68; 5480-86; 5496-5502;						
5026-5038;						

Rotary tools were used from 0 feet to 3820 feet, and from 3820 feet to 5580 feet

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

DATES

8-15-61, 1961 Put to producing _____, 1961

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 3,986,000

Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 1082

A.O.F. 6983 MCF/D

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2490	2490	Tan to gry cr-grn ss interbedded w/gry sh.
2490	2661	171	Ojo Alamo ss. White cr-grn s.
2661	2942	281	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2942	3211	269	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3211	3293	82	Pictured Cliffs forms. Gry, fine-grn, tight, varicolored silt ss.
3293	4950	1657	Lewis form. Gry, fine-grn, dense silt ss.
4950	5070	120	Cliff House ss. Gry, fine-grn, dense silt ss.
5070	5388	318	Mammoth form. Gry, fine-grn s, carb sh & coal.
5388	5488	100	Point Lookout form. Gry, very fine silt ss w/frequent sh breaks.
5488	5580	92	Mancos form. Gry carb sh.

LEAVE OR PERMIT TO PROSPECT.

LOG OF OIL OR GAS WELL

A blank grid paper template consisting of a 10x10 grid of squares. The grid is formed by thin black lines. There are no markings or text on the grid itself.

OIL OR GAS SANDS OR ZONES

(Denote das by G)

IMPORTANT WATER SANDS

CASING RECORD

1. Is the well 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 the well has been dynamited, give date, size, position, and method of dynamiting. If things 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

MUDGING AND CEMENTING RECORD	
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MUDDING AND CEMENTING RECORD

		PLUGS AND ADAPTERS	
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PLUGS AND ADAPTERS

SHOOTING RECORD			
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SHOOTING RECORD

[illegible]

may please use 42004 I.R. 474 BPR.

DATES	
10	10

DATE

emulsion; and	cc water; and	cc sediment
Gravity, ° Bé.		

EMPLOYEES		
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EMPLOYEES

FORMATION RECORD	
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FORMATION RECORD

[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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FORMATION RECORD—Continued