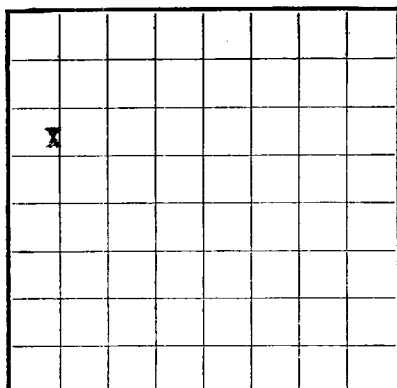




UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Pan American Petroleum Corporation Address Box 487, Farmington, New Mexico
Lessor or Tract Ute Mountain Tribal "C" Field Verde-Gallup State New Mexico
Well No. 2 Sec. 34 T. 31N R. 15W Meridian N.M.P.M. County San Juan
Location 1980 ft. N of E Line and 660 ft. E of W Line of Section 34 Elevation 5563
(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 _____

Date June 4, 1958 Title Field Clerk

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

Commenced drilling April 8, 1958 Finished drilling May 6, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3004 to 3070 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

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	413'	300 sacks cement	B. J. Service No. 1 plug		
5-1/2"	3285'	115 sacks cement	B. J. Service No. 2 plug		

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 3286 feet, and from _____ feet to _____ feet.

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

DATES

Completed as pumping oil well	Put to producing
Zanda-Gallup Field May 30 1958	May 20 1958

The production for the first 24 hours was ----- barrels of fluid, of which ----- % was oil; ----- barrels of fluid, of which ----- % was oil.

emulsion; -----% water; and -----% sediment.

If gas well, cu. ft. per 24 hours _____
 Pumping oil well _____ strokes per minute _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. -----

EMPLOYEES

_____, Driller

A. T. Old, Driller

L. I. Hutchison

FORMATION RECORD

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	560	560	Surface sands & shales
560	1338	778	Menefee sands, shales & coals
1338	1724	386	Point Lookout sand
1724	2743	1019	Mancos shale
2743	3286	543	Gallup sands

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	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	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
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the Mountain Tribal "C" Well No. 2 was spudded on April 8, 1958, and on April 10, 1958, 8-5/8" casing was set at 413' with 300 sacks of cement. After waiting on cement for 24 hours, casing and water were off were tested with 500 pounds pressure for thirty minutes, which held with no drop in pressure. Drilling operations were resumed.

Run 5-1/2" casing and set at 3285' with water collar at 2696'. Cemented first stage with 60 sacks 6% gel cement, followed by 55 sacks neat cement. Opened stage collar ports with 1200 pounds. Circulated with mud for 5 hours. No evidence of cement. Cemented second stage with 645 sacks 6% gel cement. Cement did not circulate. Used cement basket below stage tool. Closed two stage tool. Tested with 1950 pounds for 15 minutes, which held with no drop in pressure. Top cement at 530' by temperature survey.

Spotted 500 gallons 15% MCA on bottom. Perforated four shots per foot 3004-70', and oil tracked 40,500 gallons oil, 40,000 pounds sand. Initial breakdown 80 pounds, average injection rate 64 barrels per minute. 2" tubing landed at 3072'.

the Mountain Tribal "C" Well No. 2 was completed as pumping oil well. Verde Gallup Field, May 30, 1958.

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 "saddled" 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.

HISTORY OF OIL OR GAS WELL

16-43084-2 U. S. GOVERNMENT PRINTING OFFICE

FROM-	TO-	TOTAL FEET	FORMATION
			Section 1 Section 2 Section 3 Section 4 Section 5 Section 6 Section 7 Section 8 Section 9 Section 10 Section 11 Section 12 Section 13 Section 14 Section 15 Section 16 Section 17 Section 18 Section 19 Section 20 Section 21 Section 22 Section 23 Section 24 Section 25 Section 26 Section 27 Section 28 Section 29 Section 30 Section 31 Section 32 Section 33 Section 34 Section 35 Section 36 Section 37 Section 38 Section 39 Section 40 Section 41 Section 42 Section 43 Section 44 Section 45 Section 46 Section 47 Section 48 Section 49 Section 50 Section 51 Section 52 Section 53 Section 54 Section 55 Section 56 Section 57 Section 58 Section 59 Section 60 Section 61 Section 62 Section 63 Section 64 Section 65 Section 66 Section 67 Section 68 Section 69 Section 70 Section 71 Section 72 Section 73 Section 74 Section 75 Section 76 Section 77 Section 78 Section 79 Section 80 Section 81 Section 82 Section 83 Section 84 Section 85 Section 86 Section 87 Section 88 Section 89 Section 90 Section 91 Section 92 Section 93 Section 94 Section 95 Section 96 Section 97 Section 98 Section 99 Section 100