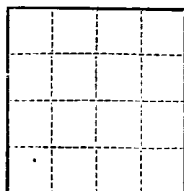


(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____
Window Rock _____
Allottee Navajo Tribal
Lease No. 21-20-603-734



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	
Intention to convert to water Inj. ☒	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 26, 1962

Horseshoe Gallup Unit
Well No. 19 is located 2021 ft. from N line and 742 ft. from W line of sec. 30
NW SW 30 31N 16W NMPM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Horseshoe Gallup **San Juan** **New Mexico**
(Field) (County or Subdivision) (State or Territory)
Ground

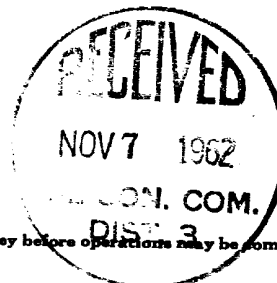
The elevation of the derrick floor above sea level is 5598 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Request permission to convert this well to water injection in connection with our secondary recovery project. Water will be injected down the below a packer for the lower Gallup and down the annulus above the packer for the upper Gallup

"Effective May 3, 1966, The Atlantic Refining Company changed its name to Atlantic Richfield Company"



I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

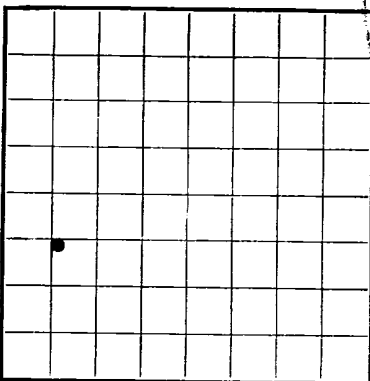
Company The Atlantic Refining Company

Address P. O. Box 2197

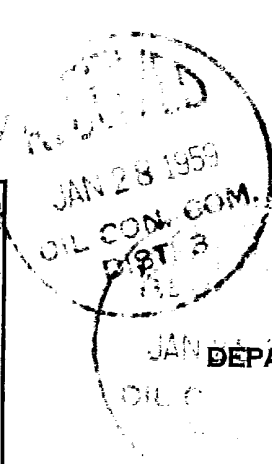
Farmington, New Mexico

By B. J. Sartain

Title Production Supervisor



LOCATE WELL CORRECTLY

U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER
LEASE OR PERMIT TO PROSPECT **11-20-603-731**

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

JAN 27 1959

LOG OF OIL OR GAS WELL

Company **The Atlantic Refining Co.** Address **Box 520, Casper, Wyoming**
Lessor or Tract **Tribal (Navajo)** Field **Horseshoe Gallup** State **New Mexico**
Well No. **19** Sec. **30** T. **11N** R. **10W** Meridian **13N** County **San Juan**
Location **2021** ft. **N.** of **3** Line and **742** ft. **E.** of **W** Line of **Sec. 30** Elevation **5528.01**
(Derrick floor relative to base of well)

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 **1-22-59** Title **District Clerk**

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

Commenced drilling **1-11-59**, 19____ Finished drilling **1-11-59**, 19____

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **1256** to **1284** No. 4, from _____ to _____
No. 2, from **1356** to **1374** 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—	
8 1/2	102.67	115	115	115	115	115	115	115	115
5 1/2	113.13	130	130	130	130	130	130	130	130

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 1/2	102.67	115	pump-plug	9.6	
5 1/2	113.13	130	pump-plug	9.6	

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

DATES

_____, 19____ Put to producing _____, 19____

The production for the first 24 hours was _____ barrels of fluid of which **100** % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. **100**

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas **11.0**

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1225		Mancos
1225	1394		Gallup
1394			Juana Lopez
First Fracture Treatment			
Treated perforations 1256-1374 with 25,000# 10/20 sand and 10,290 gallons lease crude. Average treating pressure 11,000# at 32BPM			
Second Fracture Treatment			
Treated perforations 1256-1284 with 25,000# 10/20 sand and 25,000 gallons lease crude. Average treating pressure 11,000# at 36BPM			

(OVER)

16-43094-4

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C. 20240

LIBRARY OF THE
U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DENVER, COLORADO 80202

LOCATE WELL CORRECTLY

The information given in this report is based on a review of the well log and the well log data. The information given in this report is based on a review of the well log and the well log data. The information given in this report is based on a review of the well log and the well log data.

Commenced drilling - 10/1/54. 6' - 10' - 12' - 14' - 16' - 18' - 20' - 22' - 24' - 26' - 28' - 30' - 32' - 34' - 36' - 38' - 40' - 42' - 44' - 46' - 48' - 50' - 52' - 54' - 56' - 58' - 60' - 62' - 64' - 66' - 68' - 70' - 72' - 74' - 76' - 78' - 80' - 82' - 84' - 86' - 88' - 90' - 92' - 94' - 96' - 98' - 100' - 102' - 104' - 106' - 108' - 110' - 112' - 114' - 116' - 118' - 120' - 122' - 124' - 126' - 128' - 130' - 132' - 134' - 136' - 138' - 140' - 142' - 144' - 146' - 148' - 150' - 152' - 154' - 156' - 158' - 160' - 162' - 164' - 166' - 168' - 170' - 172' - 174' - 176' - 178' - 180' - 182' - 184' - 186' - 188' - 190' - 192' - 194' - 196' - 198' - 200' - 202' - 204' - 206' - 208' - 210' - 212' - 214' - 216' - 218' - 220' - 222' - 224' - 226' - 228' - 230' - 232' - 234' - 236' - 238' - 240' - 242' - 244' - 246' - 248' - 250' - 252' - 254' - 256' - 258' - 260' - 262' - 264' - 266' - 268' - 270' - 272' - 274' - 276' - 278' - 280' - 282' - 284' - 286' - 288' - 290' - 292' - 294' - 296' - 298' - 300' - 302' - 304' - 306' - 308' - 310' - 312' - 314' - 316' - 318' - 320' - 322' - 324' - 326' - 328' - 330' - 332' - 334' - 336' - 338' - 340' - 342' - 344' - 346' - 348' - 350' - 352' - 354' - 356' - 358' - 360' - 362' - 364' - 366' - 368' - 370' - 372' - 374' - 376' - 378' - 380' - 382' - 384' - 386' - 388' - 390' - 392' - 394' - 396' - 398' - 400' - 402' - 404' - 406' - 408' - 410' - 412' - 414' - 416' - 418' - 420' - 422' - 424' - 426' - 428' - 430' - 432' - 434' - 436' - 438' - 440' - 442' - 444' - 446' - 448' - 450' - 452' - 454' - 456' - 458' - 460' - 462' - 464' - 466' - 468' - 470' - 472' - 474' - 476' - 478' - 480' - 482' - 484' - 486' - 488' - 490' - 492' - 494' - 496' - 498' - 500' - 502' - 504' - 506' - 508' - 510' - 512' - 514' - 516' - 518' - 520' - 522' - 524' - 526' - 528' - 530' - 532' - 534' - 536' - 538' - 540' - 542' - 544' - 546' - 548' - 550' - 552' - 554' - 556' - 558' - 560' - 562' - 564' - 566' - 568' - 570' - 572' - 574' - 576' - 578' - 580' - 582' - 584' - 586' - 588' - 590' - 592' - 594' - 596' - 598' - 600' - 602' - 604' - 606' - 608' - 610' - 612' - 614' - 616' - 618' - 620' - 622' - 624' - 626' - 628' - 630' - 632' - 634' - 636' - 638' - 640' - 642' - 644' - 646' - 648' - 650' - 652' - 654' - 656' - 658' - 660' - 662' - 664' - 666' - 668' - 670' - 672' - 674' - 676' - 678' - 680' - 682' - 684' - 686' - 688' - 690' - 692' - 694' - 696' - 698' - 700' - 702' - 704' - 706' - 708' - 710' - 712' - 714' - 716' - 718' - 720' - 722' - 724' - 726' - 728' - 730' - 732' - 734' - 736' - 738' - 740' - 742' - 744' - 746' - 748' - 750' - 752' - 754' - 756' - 758' - 760' - 762' - 764' - 766' - 768' - 770' - 772' - 774' - 776' - 778' - 780' - 782' - 784' - 786' - 788' - 790' - 792' - 794' - 796' - 798' - 800' - 802' - 804' - 806' - 808' - 810' - 812' - 814' - 816' - 818' - 820' - 822' - 824' - 826' - 828' - 830' - 832' - 834' - 836' - 838' - 840' - 842' - 844' - 846' - 848' - 850' - 852' - 854' - 856' - 858' - 860' - 862' - 864' - 866' - 868' - 870' - 872' - 874' - 876' - 878' - 880' - 882' - 884' - 886' - 888' - 890' - 892' - 894' - 896' - 898' - 900' - 902' - 904' - 906' - 908' - 910' - 912' - 914' - 916' - 918' - 920' - 922' - 924' - 926' - 928' - 930' - 932' - 934' - 936' - 938' - 940' - 942' - 944' - 946' - 948' - 950' - 952' - 954' - 956' - 958' - 960' - 962' - 964' - 966' - 968' - 970' - 972' - 974' - 976' - 978' - 980' - 982' - 984' - 986' - 988' - 990' - 992' - 994' - 996' - 998' - 1000' - 1002' - 1004' - 1006' - 1008' - 1010' - 1012' - 1014' - 1016' - 1018' - 1020' - 1022' - 1024' - 1026' - 1028' - 1030' - 1032' - 1034' - 1036' - 1038' - 1040' - 1042' - 1044' - 1046' - 1048' - 1050' - 1052' - 1054' - 1056' - 1058' - 1060' - 1062' - 1064' - 1066' - 1068' - 1070' - 1072' - 1074' - 1076' - 1078' - 1080' - 1082' - 1084' - 1086' - 1088' - 1090' - 1092' - 1094' - 1096' - 1098' - 1100' - 1102' - 1104' - 1106' - 1108' - 1110' - 1112' - 1114' - 1116' - 1118' - 1120' - 1122' - 1124' - 1126' - 1128' - 1130' - 1132' - 1134' - 1136' - 1138' - 1140' - 1142' - 1144' - 1146' - 1148' - 1150' - 1152' - 1154' - 1156' - 1158' - 1160' - 1162' - 1164' - 1166' - 1168' - 1170' - 1172' - 1174' - 1176' - 1178' - 1180' - 1182' - 1184' - 1186' - 1188' - 1190' - 1192' - 1194' - 1196' - 1198' - 1200' - 1202' - 1204' - 1206' - 1208' - 1210' - 1212' - 1214' - 1216' - 1218' - 1220' - 1222' - 1224' - 1226' - 1228' - 1230' - 1232' - 1234' - 1236' - 1238' - 1240' - 1242' - 1244' - 1246' - 1248' - 1250' - 1252' - 1254' - 1256' - 1258' - 1260' - 1262' - 1264' - 1266' - 1268' - 1270' - 1272' - 1274' - 1276' - 1278' - 1280' - 1282' - 1284' - 1286' - 1288' - 1290' - 1292' - 1294' - 1296' - 1298' - 1300' - 1302' - 1304' - 1306' - 1308' - 1310' - 1312' - 1314' - 1316' - 1318' - 1320' - 1322' - 1324' - 1326' - 132

6/7/03 110 40442 840 170 110

No. 1 from	1941	✓	to	1941
No. 2 from	1941	✓	to	1941
No. 3 from	1941	✓	to	1941

ВЕРНАЯ МЕТАЛА ТЕХНОЛОГИИ

No. 1 from	No. 8 from
No. 2 from	No. 9 from

CRIMINAL RECORD

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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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 not casing was checked, 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 pulling.

HISTORY OF OIL OR GAS WELL

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

[illegible]

FORMATION RECORD—Continued