

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **SF-078926**LEASE OR PERMIT TO PROSPECT
Gallegos Canyon Unit

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **Amexican Petroleum Corporation** Address **Box 480, Farmington, New Mexico**
 Lessor or Tract **Gallegos Canyon Unit** Field **Totah Gallup** State **New Mexico**
 Well No. **92** Sec. **35** T. **29N** R. **12E** Meridian **N.M.P.M.** County **San Juan**
 Location **1850 ft. [N.] of [S.] Lat. and 190 ft. [E.] of [W.] line of Section 35** Elevation **5809 (RDB)**
 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 **R. M. Bauer, Jr.** Title **Senior Petroleum Engineer**
 Date **May 3, 1961**

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

Commenced drilling **April 9, 1961** Finished drilling **April 23, 1961**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **5720** to **5720**
 No. 2, from **5720** to **5720**
 No. 3, from **5720** to **5720**
 No. 1, from **5720** to **5720**
 No. 2, from **5720** to **5720**
 No. 4, from **5720** to **5720**
 No. 5, from **5720** to **5720**
 No. 6, from **5720** to **5720**
 No. 3, from **5720** to **5720**
 No. 4, from **5720** to **5720**

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8-5/8"	20	8VT	198	198	Cable				Oil string
4-1/2"	9.5	8RT	5828	5828	Cable				Oil string

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	210'	160 sacks of cement	Halliburton	1 plug.	
4-1/2"	5809'	350 sacks of cement	B J Service	2 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

TOOLS USED

Rotary tools were used from **0** feet to **5810** feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Completed as Totah Gallup Field Oil Well. **May 1, 1961** DATES Date first new oil produced. Put to producing **April 30, 1961**

The production for the first 24 hours was **362** barrels of fluid of which **99.8%** was oil; _____ % emulsion; _____ % water; and **.2%** sediment. Gravity, °Bé. **41.0°** API
 Flowing Oil well on **25/64"** choke Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

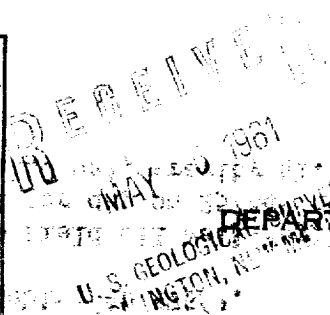
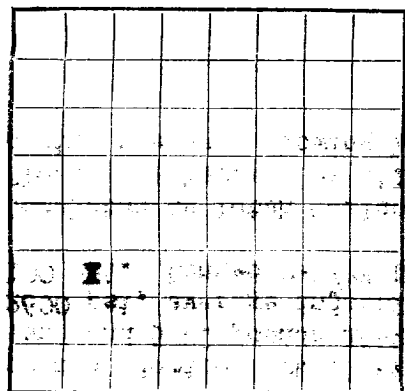
EMPLOYEES

Cotton Gibson, Driller **James Smith**, Driller
Bert W. Farris, Driller **Gene B. Sanderfer**, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1653	1653	Surface sands and shales including Ojo Alamo, Fruitland and Farmington Zones.
1653	1806	153	Pictured Cliffs sands and shales.
1806	3205	1399	Lewis shale.
3205	4422	1217	Mesaverde sands, shales, and coals.
4422	5344	922	Mancos shale.
5344	5710	366	Gallup sands and shales.
5710	5810	100	Gallup Pay sands and shales.

(Tops from E Log)

U. S. LAND OFFICE **Santa Fe**SERIAL NUMBER **SF-078926**LEASE OR PERMIT TO PROSPECT
Gallegos Canyon Unit

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **Pan American Petroleum Corporation** Address **Box 100, Farmington, New Mexico**Lessor or Tract **Gallegos Canyon Unit** Field **Totah Gallup** State **New Mexico**Well No. **92** Sec. **35** T. **29N** R. **13W** Meridian **N.M.P.M.** County **San Juan**Location **1850** ft. **N.** of **S** Line and **790** ft. **E.** of **W** Line of **Section 35** Elevation **5889** (RDB)

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

R. M. Bauer, Jr.

Date **May 3, 1961**Title **Senior Petroleum Engineer**

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

Commenced drilling **April 9**, 19**61** Finished drilling **April 23**, 19**61****OIL OR GAS SANDS OR ZONES**

(Denote gas by G)

No. 1, from **5720** to **5728** No. 4, from **5728** to **5730**No. 2, from **5728** to **5730** No. 5, from **5730** to **5732**No. 3, from **5730** to **5732** No. 6, from **5732** to **5734****IMPORTANT WATER SANDS**No. 1, from **5730** to **5732** No. 3, from **5732** to **5734**No. 2, from **5732** to **5734** No. 4, from **5734** to **5736****CASING RECORD**

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8-5/8"	20	8PT	X-52	198	Guide				Surface
4-1/2"	9.5	8PT	J-55	5828	Guide				Oil string

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	210'	160 sacks of cement	Halliburton	1 plug.	
4-1/2"	5809'	350 sacks of cement	B J Service	2 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

TOOLS USEDRotary tools were used from **0** feet to **5810** feet, and from _____ feet to _____ feet

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

Completed as Totah Gallup Field Oil

Well. **May 1**, 19**61**

DATES Date first new oil produced.

Put to producing **April 30**, 19**61**The production for the first 24 hours was **362** barrels of fluid of which **99.8%** was oil; _____%emulsion; _____% water; and **.2%** sediment. Gravity, °Bé. **41.0°** APIFlowing Oil Well on **25/64"** choke

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES**Cotton Gibson**, Driller **James Smith**, Driller**Bert W. Harris**, Driller **Gene B. Sandefer**, Driller**FORMATION RECORD**

FROM—	TO—	TOTAL FEET	FORMATION
0	1653	1653	Surface sands and shales including Ojo Alamo, Fruitland and Farmington Zones.
1653	1806	153	Pictured Cliffs sands and shales.
1806	3205	1399	Lewis shale.
3205	4422	1217	Mesaverde sands, shales, and coals.
4422	5344	922	Mancos shale.
5344	5710	366	Gallup sands and shales.
5710	5810	100	Gallup Pay sands and shales.

(Tops from E Log)

Completed as Total Gallon Field Oil Well No. 1, 1961, Potential test May 1, 1961, GEOLICAL SURVEY

1100 p.m. Landed 2-3/8" tubing at 5756'.

Moved in and filled up pulling unit and displaced water with oil and spotted 500 gallons of oil. New Gamma Ray correlation log and perforated casing with 6 shoes per foot 5720-5728'. Placed treatment with 1000 gallons oil containing 5 Gallons G-15 and 5 gallons I-5 additives. Sand oil treated with 21,000 gallons oil containing 50 pounds Adamsite Mark II with 2 Gallons G-15 per 1000 gallons and 5,000 pounds 20-40 sand and 5000 pounds 10-20 sand. Breakdown pressure 1800-1200 psi, treating pressure 2600 psi, average injection rate 32 barrels per minute. Immediate shut in pressure

178 April 25, 1961. Preparing for completion operations.

Test depth 5870'. Plug back depth 5774'. Set 4-1/2" collar set at 1932'. Cemented first 125 sacks 6 percent gel cement with 1-1/2 pounds water per bag followed by 75 sacks wet cement. Waited on cement 4 hours. Cemented second stage with 150 sacks 6 percent gel cement. Drilled stage collar at 1932'. Tested casing with 1800 psi for 30 minutes, which held with no indication of pressure drop. The casing is 5769' and showed no indication of pressure drop. Released 1500 psi for 15 minutes, which held with no indication of pressure drop. Released

[illegible]

Core No. 3 5723-5745' - Recovered 221' (see log) 5' sand, fair porosity and permeability
good odor and bleed, vertically fractured, occasional thin shale partings, 2' light shaly
sand, vertically fractured, 15' shale with occasional thin shale partings. Redwood

policy and responsibility, occasional thin state parties 5721-5723.

Vertically fractured throughout, good odor and bleed.

[illegible]

500 ft. down 5 percent (Calculus Chalk). After waiting on cement tested casing with reduced rate to 7-8" per sec. assumed drilling operations.

1. Location of well, give date, size, position, and number of pipes 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

MUDLOGGING RECORD		CUTTING RECORD	
Time	Depth	Time	Depth
10:00	100	10:00	100
10:05	105	10:05	105
10:10	110	10:10	110
10:15	115	10:15	115
10:20	120	10:20	120
10:25	125	10:25	125
10:30	130	10:30	130
10:35	135	10:35	135
10:40	140	10:40	140
10:45	145	10:45	145
10:50	150	10:50	150
10:55	155	10:55	155
11:00	160	11:00	160
11:05	165	11:05	165
11:10	170	11:10	170
11:15	175	11:15	175
11:20	180	11:20	180
11:25	185	11:25	185
11:30	190	11:30	190
11:35	195	11:35	195
11:40	200	11:40	200
11:45	205	11:45	205
11:50	210	11:50	210
11:55	215	11:55	215
12:00	220	12:00	220
12:05	225	12:05	225
12:10	230	12:10	230
12:15	235	12:15	235
12:20	240	12:20	240
12:25	245	12:25	245
12:30	250	12:30	250
12:35	255	12:35	255
12:40	260	12:40	260
12:45	265	12:45	265
12:50	270	12:50	270
12:55	275	12:55	275
13:00	280	13:00	280
13:05	285	13:05	285
13:10	290	13:10	290
13:15	295	13:15	295
13:20	300	13:20	300
13:25	305	13:25	305
13:30	310	13:30	310
13:35	315	13:35	315
13:40	320	13:40	320
13:45	325	13:45	325
13:50	330	13:50	330
13:55	335	13:55	335
14:00	340	14:00	340
14:05	345	14:05	345
14:10	350	14:10	350
14:15	355	14:15	355
14:20	360	14:20	360
14:25	365	14:25	365
14:30	370	14:30	370
14:35	375	14:35	375
14:40	380	14:40	380
14:45	385	14:45	385
14:50	390	14:50	390
14:55	395	14:55	395
15:00	400	15:00	400