

A 10x10 grid with a small 'X' mark in the 4th column and 6th row.

LOCATE WELL CORRECTLY

U. S. LAND OFFICE ~~Santa Fe~~
SERIAL NUMBER ~~SF-046563~~
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company ~~Pan American Petroleum Corporation~~ Address ~~Box 487, Farmington, New Mexico~~
Lessor or Tract ~~Fred Feasel~~ Field ~~Angels Peak~~ State ~~New Mexico~~
Well No. ~~1~~ Sec. ~~33~~ T. ~~28N~~ R. ~~10W~~ Meridian ~~N. 7. E.~~ County ~~San Juan~~
Location ~~1850~~ ft. ~~12N~~ of ~~N~~ Line and ~~790~~ ft. ~~12E~~ of ~~E~~ Line of ~~Section 33~~ Elevation ~~4005~~
(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 _____ ORIGINAL SIGNED BY _____

Date July 13, 1959 Title Area Engineer

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

Commenced drilling ----- May 18 -----, 1959 ----- Finished drilling ----- June 9 -----, 1959 -----

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6449 to 6496 (u) 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. 2, from _____ to _____

No. 3, 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
9-5/8"	448'	250 sacks of cement	Mountain States	1 plug.	
5-1/2"	6607	700 sacks of cement	Halliburton	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 _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from 0 feet to 6607 feet, and from _____ feet to _____ feet

DATES

Completed as shut in gas well Angels
Peak Dakota Field June 22, 1959.
Preliminary Test 3758 MFD
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 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 3,758,600

1917 EMPLOYEES casing pressure 3 days.

_____, Driller _____, Driller
Lee Waylor _____, Driller **Clair Wilson** _____, Driller

T. B. Cage FORMATION RECORD on Sanford

FORMATION RECORD Sanford

FROM—	TO—	TOTAL FEET	FORMATION
0	448	448	Surface sands & shales.
448	1043	595	Aninas sands & shales.
1043	1123	80	Ojo Alamo sands.
1123	1700	577	Kirtland-Puzzington sands & shales.
1700	1963	263	Fruitland sands, shales & coals.
1963	2060	97	Pictured Cliffs sands & shales.
2060	3525	1465	Lewis shales & sands.
3525	3620	95	Cliffhouse sands & shales.
3620	4275	655	Menefee sands, shales & coals.
4275	4450	175	Point Lookout sands & shales.
4450	5496	1046	Marcos shale.
5496	6264	768	Gallup shales & sands.
6264	6330	66	Greenhorn shale.
6330	6385	55	Graneros shales & sands.
6385	6443	58	Sokota sands & shales.
6443	6607	164	Sokota ls. sands & shales.
			(Tops from Electric log)

(Tops from Electric log)

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

LOG OF OIL OR GAS WELL

LOCATE WITH CONFIDENCE

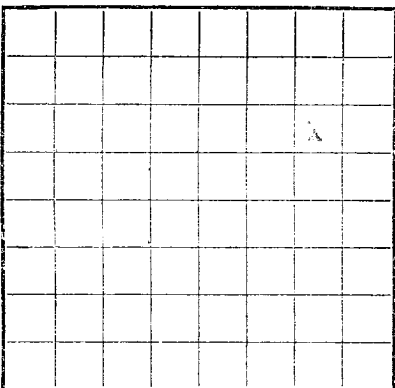
Total depth 6607. On June 12, 1959, 5-1/2" casing was set at 6607 feet in 2
 feet with staging tool set at 2205 feet. Cemented first stage with 350 sacks
 of cement and 1-1/2 pounds of lime per sack followed by 100 sacks neat.
 Cemented second stage with 250 sacks of cement mixed with one pound of lime
 per sack. After waiting on cement, tested casing with 3000 psi for thirty minutes
 with no drop in pressure. Continued cementation operations.
 Completed drilling. Finished drilling.
 On June 17, 1959, spotted 500 gallons and clean out agent down well bore and
 perforated intervals 6475-6495 with two shots per foot. Sand and water traced
 back to 40,000 psi. Cemented water mixed with 40,000 pounds of cement at an average input
 rate of 53 barrels per minute and a breakdown pressure of 2280-1700 psi.
 2-3/4" tubing set at 6178 feet. Completed as a shut in under 200 psi.
 Held gas well June 27, 1959. A preliminary test flowed 27.5 bbl per day
 after tube measurement.

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 "sidetracked" 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

16-43094-3 U. S. GOVERNMENT PRINTING OFFICE

[illegible]



LOCATE WELL CORRECTLY

U. S. LAND OFFICE State, Tex.
SERIAL NUMBER SP-045563
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company San American Petroleum Corporation Address 487, Farmington, New Mexico
Lessor or Tract Fred Feasel Field Angels Peak State New Mexico
Well No. 1 Sec. 33 T. 28 R. 16 Meridian N. County San Juan
Location 1850 ft. N. of 1 Line and 79 ft. E. of 3 Line of Section 33 Elevation 6005
(Derrick floor relative to 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 Sanford Title Area EngineerDate July 13, 1959

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

Commenced drilling May 18, 1959 Finished drilling June 9, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6443 to 6496 (G) 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

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>9-7/8"</u>	<u>22.3</u>	<u>8</u>	<u>CP</u>	<u>44</u>	<u>Guide</u>				<u>Surface</u>
<u>5-1/2"</u>	<u>14</u>	<u>8</u>	<u>CP</u>	<u>661</u>	<u>Guide</u>				<u>Oil String</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>9-5/8"</u>	<u>448'</u>	<u>250 sacks of cement</u>	<u>Mountain State</u>	<u>1 plug.</u>	
<u>5-1/2"</u>	<u>6607</u>	<u>700 sacks of cement</u>	<u>Ballbarren</u>	<u>2 stage</u>	

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 0 feet to 6607 feet, and from _____ feet to _____ feet

DATES

Completed as shut in gas well Angels Peak June 21, 1959. Put to producing for pipeline connection June 24
Preliminary test 3755 WCU
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 _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 3,7551917 EMPLOYEES casing pressure 6 days.

_____, Driller _____, Driller
Lee Taylor, Driller Earl Wilson, Driller
T. B. Gage

FORMATION RECORD: Sanford

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>448</u>	<u>448</u>	<u>Surface sands & shales.</u>
<u>448</u>	<u>1043</u>	<u>595</u>	<u>Animas sands & shales.</u>
<u>1043</u>	<u>1123</u>	<u>80</u>	<u>Ojo Alamo sands.</u>
<u>1123</u>	<u>1700</u>	<u>577</u>	<u>Kirtland-Farmington sands & shales.</u>
<u>1700</u>	<u>1963</u>	<u>263</u>	<u>Fruitland sands, shales & coals.</u>
<u>1963</u>	<u>2060</u>	<u>97</u>	<u>Pictured Cliffs sands & shales.</u>
<u>2060</u>	<u>3525</u>	<u>1465</u>	<u>Lewis shales & sands.</u>
<u>3525</u>	<u>3620</u>	<u>95</u>	<u>Cliffhouse sands & shales.</u>
<u>3620</u>	<u>4275</u>	<u>655</u>	<u>Seneca sands, shales & coals.</u>
<u>4275</u>	<u>4450</u>	<u>175</u>	<u>Point of View sands & shales.</u>
<u>4450</u>	<u>5496</u>	<u>1046</u>	<u>Maracaibo shale.</u>
<u>5496</u>	<u>6264</u>	<u>768</u>	<u>Gallop shales & sands.</u>
<u>6264</u>	<u>6330</u>	<u>66</u>	<u>Greenham shale.</u>
<u>6330</u>	<u>6385</u>	<u>55</u>	<u>Graneros shales & sands.</u>
<u>6385</u>	<u>6443</u>	<u>58</u>	<u>Artesian sands & shales.</u>
<u>6443</u>	<u>6607</u>	<u>164</u>	<u>Artesian sands & shales.</u>

(Type on Electric Log)