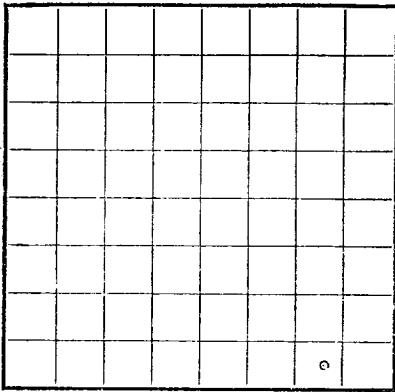




LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSanta Fe
U. S. LAND OFFICE
SERIAL NUMBER **14-20-603-1228**
LEASE OR PERMIT TO PROSPECT**RECEIVED**
FEB 24 1956
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

Company **Phillips Petroleum Co.** Address _____
Lessor or Tract _____ Field _____ State **New Mexico**
Well No. **1 Itahnap** Sec. **9** T. **25N** R. **12W** Meridian _____ County **San Juan**
Location **330** ft. **N** of **3** Line and **990** ft. **X** of **E** Line of **SW, SE, S** Elevation **6208**
(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 **Earl Stum** Title **Dist. Supt.**
Date **Feb. 14, 1956**The summary on this page is for the condition of the well at above date.
Commenced drilling **12-5-55**, 19 **55** Finished drilling **1-4**, 19 **56**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **4690** to **4738** No. 4, from _____ to _____
No. 2, from **4730** to **4752** No. 5, from _____ to _____
No. 3, from **4763** to **4888** 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—	
10-3/4	32.75	8 Rd.		189.64	Texas Pattern				Surface Csg.
7"	23#	8 Rd.		718.76	Blaker Orifice				
7"	23#	8 Rd.		10.16					Top Jts.
7"	23#	8 Rd.		4887.30	total pipe set	4880.25			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	205	225 sacks	Hal. Plug	45	50 sbs gel
7"	4880.25	200 sacks	Thru-rotainer	55	425 sacks gel quab. 800/500# caustic soda 400# Soda Ash/

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 **4880** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet; and from _____ feet to _____ feet

DATES

_____, 19 **55** Put to producing **Feb. 16**, 19 **56**

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. _____

EMPLOYEES

Bing Harris _____, Driller _____, Driller
Bill Douglas - Tool Pusher _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	150	150	Tertiary - Sands and shales
150	1110	960	Kirtland-Fruitland - Shales and thin sand beds with coal bed at the base
1110	1263	153	Pictured Cliffs - Water bearing sand with intermittent shale breaks
1263-	1450	187	Lewis - Shale
1450	1830	380	Chacra - Sand with shale stringers, primarily shale in lower part
1830	2838	1008	La Ventana - Intermittent sand (prob. water) and shale beds
2838	3528	690	Cliff House - Massive sand layers (water) with 200 ft. of shale and small sand stringers at base. (This lower zone may be Menafee)
3528-	3718	190	Neota-Point Lookout - Water bearing sands with minor shale breaks
3718	4555	837	Manaca - Shale with occasional thin sand stringers
4555	4880	325	Gallup - Interbedded sand and shale. Good oil shows with some possible gas sands.

LOOK AT IT! CORRECTLY.

Spud on 12-5-55 at 1:00 A.M. - out under surface 3' 00" - M. 12-5-55. Tested pipe 800# before drlg. plug and after drlg plug for water shut off held O.K. for 15 min. Set 662 1-8-56, cemented w/ 150 sacks. Found all cement in pipe. Drl'd out set retainer 3400 and recomended w/ 200 sacks ~~disposal~~ cement slurry. Drl. retainer and went to bottom and did not find cement in pipe. Set retainer 1562 and attempted to squeeze held 1500# for 10". B & R temperature survey showed cement a 3760. Perforated from 4192-4796, 4506-4815 and 4824-4836 by Lane Well w/ 4 bullets per ft. fractured by do loaded hole 160 bbl. broke formation 1700# pumped all 10,000 gal w/ 10,000 lbs sand into formation w/ 113 bbls overflush at 1500 lbs. Injection rate over entire job 37.9 bbls per minute. Ran Homco retainer to 4762 and tested well by swabbing tubing head. 263 bbls in 42 hrs. well swabbed about 3 bbls per hr. Perforated from 4730-4750 by Lane Wells & hose shots per ft. fractured by disintegration - broke formation 1800# pumped mixture 20,000 gal. at 20,000 lbs. and 1700# overflushed with 230 bbls of injection rate entire job 46 bbls per minute. Flooded back 182.50. Went in hole to testwater 4762 found sand 4736. Drl. retainer & cleaned out to bottom, flowed 22 bbls white drlg. Then tubing w/ anchor & setting shoe. Swabbed & tested. 235 bbls. No out rotary. Set Unit-run rods & put on pump. Test: 113.71 bbls first 15 hrs. pumped 125 bbls while being put on pump.

TRAINING RECORD

HISTORY OF OIL OR GAS WELL.

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 "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, 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.

No. of well	Height	Direction of flow	State	Owner	Containing	Location	Remarks
1	100	North	Ill.	John Doe	Oil	Springfield	1910
2	120	South	Ill.	John Doe	Oil	Springfield	1911
3	110	West	Ill.	John Doe	Oil	Springfield	1912
4	130	East	Ill.	John Doe	Oil	Springfield	1913
5	140	North	Ill.	John Doe	Oil	Springfield	1914
6	150	South	Ill.	John Doe	Oil	Springfield	1915
7	160	West	Ill.	John Doe	Oil	Springfield	1916
8	170	East	Ill.	John Doe	Oil	Springfield	1917
9	180	North	Ill.	John Doe	Oil	Springfield	1918
10	190	South	Ill.	John Doe	Oil	Springfield	1919

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

HISTORY OF OIL OR GAS WELL

FROM-	TO-	TOTAL FEET	FORMATION
#1 -	1092	1162	50' Red 49.5' 6.5' sd 1/2' coal 3' sand 2' coaly sha
#2 -	1162	1192	50' rec. 50' 2' sd & sh. 1' sd 4' sd & sh. 6' sd
#3 -	3528	3578	50' Red 50' 3528-51 shale 3531-3544 sd. 3544-3545 coal
#4 -	4693	4665	32' Red 32' 4633-4665 sd stone light gray vert. fine.
#5 -	4667	4717	4660'-4663 black shale w/sd streaks 4663-4664 sdy lime.
#6 -	4717	4767	4664-4665 shale.
#7 -	4768	4797	50' Red 50' 4667-4687 dark gr. shale interbedded w/lime.
#8 -	4797	4835	other bleeding oil. 4687-4690 porous lime stone, good odor
#9 -	4835	4858	4690-4708 shale 4708-4717 limestone interbedded w/shale, g
#10 -	4858	4885	odor, vertical fractures thru out core.
#11 -	4885	4919	50' out Red 50' 4717-21 sdy shale 4721-27 shale 4727-54
#12 -	4919	4969	good odor & stain 4754-67 shale 4764-67 sand.
#13 -	4969	4989	Cut 51' Red 51' 4768-4819 sand - good odor, stain & flint
#14 -	4989	5019	thin out core. 4791-4800 & 4806-4819 looks very good.
#15 -	5019	5049	Cut 16' Red 15.8" 4819-4822 shale, 4822-4834 med. grain
#16 -	5049	5079	sand 4834-4858 shale.
#17 -	5079	5109	Cut 24' Red 24' 4835-4840 sand 4840-4858 shale.
#18 -	5109	5139	D.I.P. SECTION
#19 -	5139	5169	Open 1 hr. closed 30" for B.H.P. Need. 20' Drig. mud Init.
#20 -	5169	5192	Final flow press-O, Hyd. Band 500, S.I.B.H.P. 240
#21 -	5192	5233	Open 2 hrs. closed 30" for B.H.P. Need 1500 salty water.
#22 -	5233	5278	flow press. 105, final flow press. 600, Hyd. Press 2000,
#23 -	5278	5300	S.I.B.H.P. 1350
#24 -	5300	5328	Open 1 hr. closed 30" for B.H.P. Need. 2050 salty water
#25 -	5328	5378	Int. flow press 195, final flow press. 900, Hyd. press 195
#26 -	5378	5432	S.I.B.H.P. 1670, SAND
#27 -	5432	5465	Open 1 hrs. closed 30" for B.H.P. head gas to surface 46
#28 -	5465	5500	at end of hr. mess. 40 MCF at end of 1 hr measured same.
#29 -	5500	5528	head. 620 fluid, 520' gas cut mud, 90' oil & water cut mud.
#30 -	5528	5578	Hyd. Int. press 2475, final 2325, Int. flow press 285 fine
#31 -	5578	5600	270, S.I.B.H.P. 1740
#32 -	5600	5632	Open 1 hr. closed 30" for B.H.P. small blow for 50" & disc
#33 -	5632	5683	head. 301 oil and gas cut mud, Hyd. press. Int. 2500, final
#34 -	5683	5717	Flowing press Int. 100, final 125, S.I.B.H.P. 125