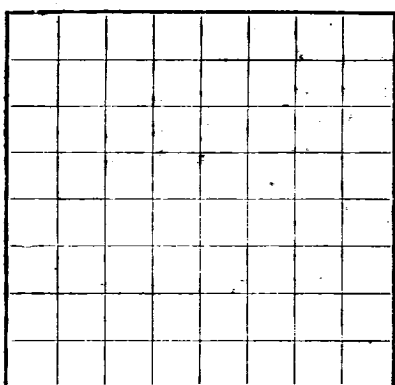


5 - U. S. S.
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1 - FileU. S. LAND OFFICE
SERIAL NUMBER 070005
LEASE OR PERMIT TO PROSPECT
San Juan Unit 2-53UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Phillips Petroleum Co. Address P.O. Box 939, Aztec, N.M.
Lessor or Tract _____ Field Elancho State New Mexico
Well No. Head 4-6 Sec. 6 T. 29N R. 5 Meridian N.M.P.M. County San Juan
Location 1650 ft. S of S Line and 990 ft. E of W Line of Section 6 Elevation 6571.12
(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 Starn Title Dist. Supt.
Date December 28, 1954

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

Commenced drilling 8-11-53, 19____ Finished drilling 9-24-53, 19____

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5364 to 5408 No. 4, from _____ to _____
No. 2, from 5414 to 5702 No. 5, from _____ to _____
No. 3, from 5702 to 5963 (TD) 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
13-3/8"	27.3	J	Armco	240'	Baker			
9-5/8"	32.8	82	J-55	3639'	Baker			
7"	23.7	82	J-55	5963'	Baker			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8"	254.77'	300 sx	Halliburton		
9-5/8"	3635.39	300 sx	Halliburton		
7"	5960.96'	260 sx	Halliburton		

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
		See Reverse Side				

TOOLS USED

Rotary tools were used from _____ feet to 5963 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

2-22-54, 19____ Put to producing _____, 19____

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

Rock pressure, lbs. per sq. in. 5150 / 1132

EMPLOYEES

J. L. Mann - Lease Foreman, Driller _____, Driller _____
_____, Driller _____, Driller _____

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	5386	5386	Sand & shale
5386	5414	28	Lower Cliff House
5414	5702	288	Mesa
5702	5963 (TD)	261	Point Lookout

[OVER]

16-43004-3

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	DATE	FORMATION	10-73001-3
Continued from Below:					
packer at 5421. Top packer at 5492'. Acidized perforations 5506-5514'. Pumped in 4 bbls kerosene in front of acid. Acidized w/ 1000 gals. Dowell Super mud acid w/ M-38 additive. Displaced w/ 23 bbls kerosene. Took acid on vacuum, no pressures. Job completed 3:06 p.m. 12-9-53. Swabbed back acid and kerosene. Picked up Howco Straddle packer and set bottom packer at 5493'. Top packer at 5464'. Acidized w/ 2000 gals Dowell Super mud acid w/ M-38 additive. Displaced w/ 23 bbls kerosene. Job complete 10:00 a.m. 12-10-53. No press. until 10 bbls acid in formation. Press to 200 after 10 bbls acid in. Gradually built up to 400 press until rest of acid in formation. After all acid in, shut pump down. After 1 min, press dropped to 100. After 2 min, on vacuum, swab ed tubing down. Pulled straddle packer and tubing. Ran 2" tubing w/ Halliburton DC BP. Set at 5435'. Pulled tubing and landing tool. Perforated w/ Lane Wells 5364-5408 w/ 3 jet shots and 2 bullet holes/foot. Ran 2-3/8" tubing w/ Halliburton retrievable packer. Set packer at 5353'. Acidized perforations 5364-5408 w/ 3000 gals. Dowell Super mud acid w/ M-38 additive. Tubing press. zero when acid hit formation. After 3 bbls acid in, tubing press 200. When 14 bbls, acid, tubing press 700. 2 bbls kerosene overflush in form. Final pump press 750, 5 mins, after acid in formation on vacuum. Swab ed back acid water, job compl December 15, 1953. Pulled tubing, drilled and drive bridge plugs to 5940'					

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, 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.

TP 5963'. Perforated w/ Lane Wells Cone Jet shot from 5713-5718', 3 holes/ft. Reperforated w/ Lane Wells Bullets from 5713-5718', 2 holes/ft. Treated well w/ 2000 gal of Dowell Petrofrac w/ 3/4" sand per gal. Pumped 10 bbls kerosene flush ahead of gel. Volume in formation, pump pressure and pumping rate as follows: 10 gal kerosene 2200 psi, 3 gal/min; 4 bbls gel 2300 psi 2.5 gal/min; 12 bbls gel 4000 psi 1.2 gal/min; 26 bbls gel 3900 psi 1.3 gal/min, 30 bbl gel 5000 psi .6 gal/min, 47 gal gel 4400 psi .8 gal/min, 10 bbl kerosene 1.0 gal/min. Final pump press 4000 psi. Pressure bled back to 750 psi in 5 min, and held. Job completed 10-18-53.

TP 5963, Packer set 5674', acidized perforations 5713-5718 w/ 2000 gals of Dowell Super mud acid M-38 additive. Initial pressure 400, max press 2800, final 0. Displaced acid w/ 22 bbls kerosene, job compl 8:46 p.m. 10-22-53. Swabbed kerosene and acid water back. Drilled packer at 5674 to T.O. Perf. w/ Lane Wells Cone Jet shot 3 holes/ft from 5796-5806'. Reperforated w/ 2 holes/ft, set Baker Model K cement retainer at 5769'. Loaded annulus w/ kerosene. Petrofrac w/ 3000 gal of Dowell Petrofrac w/ 3/4" sand/gal. Loaded tubing w/ 24 bbl kerosene. In formation at 1800, pumping rate 3 bbls per min. 70 bbls in form w/ 1000, pumping rate 2 bbl/min. Flushed w/ 10 bbls kerosene. Final pump press 1000. Job completed 4:00 a.m. 11-5-53. Swabbed hole down, no recovery. Re-acidized perforation 5796-5806 w/ 1000 gal Dowell Super mud acid w/ M-38 additive. IP 0. 24 bbls acid in formation. Pump press 600. Flushed the w/ 24 bbls kerosene, press to 0 in 2 min, job compl 11-13-53. Swabbed back kerosene, drilled cement retainer at 5769 to TO. Set Halliburton bridge packer at 5760', perforated 5740-5760 w/ 10 jet shots and 10 bullets. Perforated 5708-13 w/ 15 jet and 10 bullets. Perforated 5718-40 w/ 66 jet shots and 14 bullets. Acidized perforations w/ 1000 gals Dowell Super mud acid w/ M-38 additive and 300 gals fix-a-frac. Displaced acid w/ 28 bbls, overdisplaced w/ 3 bbls. Job compl 9:30 p.m. 11-29-53. Max press 1000, press dropped to zero. Swabbed tubing down, perforated w/ Lane Wells from 5648-5664' w/ 48 jet shots and 19 15/32" bullets. Perf from 5587-5618 w/ 36 jet shots and 25 15/32" bullets. Perf from 5586 to 5590 w/ 12 jet shots and 9 15/32" bullets. Set Halliburton straddle packer, center of bottom packer set at 5666.44', top packer set at 5642'. Acidized perforations from 5648 to 5664 w/ 2000 gals. Dowell Super mud acid w/ M-38 additive. IP 0. 500 press when acid hit formation. When 14 bbls acid in, formation broke down to vacuum, rest of way into formation. Job compl 10:52 a.m. 12-4-53. Swabbed down tubing, pulled tubing and straddle packer. Set bottom packer at 5612.14, top packer set at 5612.14. Acidized perf 5618-5630 w/ 2000 gals Dowell Super mud acid w/ M-38 additive. Pumped in 3 bbls kerosene. 11 bbls acid in form w/ no press. Press up to 600 when 35 bbls acid in, form took rest of acid on vacuum. Swabbed tubing down, swabbed acid and kerosene flush. Picked up tubing and packer, set bottom packer at 5595'. Top packer at 5571.14'. Acidized perforations 5586-5590 w/ 1000 gals, Dowell Super mud acid w/ M-38 additive. Broke formation down w/ 1300. When 22 bbls acid in formation broke down to vacuum. Job compl 10:23 a.m. 12-5-53. Swabbed down tubing, pulled tubing and straddle packer. Ran Halliburton 7" DC BP. Set at 5535 w/ tubing. Pulled tubing and landing tool. Perforated 5506-5514 w/ 3 jet shots and 2 bullet holes/foot. Perforated 5462-5480 w/ 3 jet and 2 bullet holes/foot. Swabbed 7" casing, no water. Ran Halliburton straddle packer on tubing. Set bottom

(See Above for Continuation of Report)