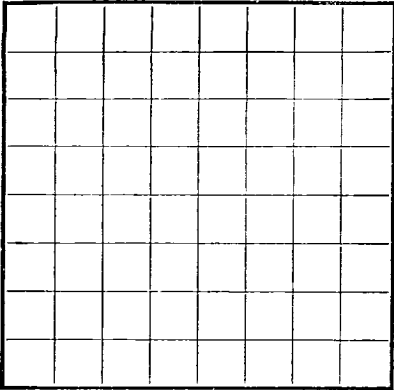
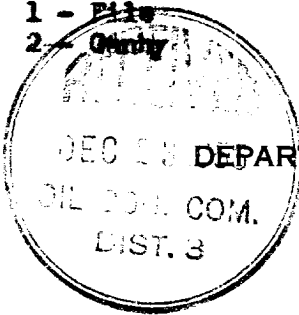


4 - U.S.G.S.
1 - W.P. Johnston
1 - Pitt
2 - Oddy

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 290379-A
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company PACIFIC NORTHWEST PIPELINE CORP. Address 413 1/2 W. Main St., Farmington, New Mex.
Lessor or Tract Unit 27-6 Field Blanco State New Mexico
Well No. 19-8 Sec. 8 T. 29N R. 6W Meridian N.M.P.M. County Rio Arriba
Location 940 ft. N of S Line and 1825 ft. W of E Line of 340.0 Elevation 6776.14
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all Under used Ground so far as can be determined from all available records.
Signed J. A. Morgan

Date October 6, 1955 Title District Engineer

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

Commenced drilling 6-7, 1955 Finished drilling 8-28, 1955

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 5461 to 6024.8 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 None 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>10-3/4"</u>	<u>32.79</u>	<u>8-11</u>	<u>Larkin</u>	<u>191.72</u>	<u>Shot</u>	<u>Shot</u>			
<u>7 1/2"</u>	<u>29</u>	<u>8-11</u>	<u>Republic</u>	<u>5469.58</u>					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>10-3/4"</u>	<u>331.72</u>	<u>150 ex. 4 1/2 gal</u>	<u>Halliburton</u>		
<u>7 1/2"</u>	<u>5461.50</u>	<u>250 ex. 8 1/2 gal</u>	<u>Halliburton</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 0 feet to 6025 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 1955 Put to producing _____, 19____
8-28

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. 3970
S.I.G.P. 9825 S.I.T.P. 9825

EMPLOYEES

Jim Newman, Drig. Foreman, Driller _____, Driller
Bob Meise, Drig. Foreman, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>2775</u>	<u>2775</u>	<u>Surface</u>
<u>2775</u>	<u>2922</u>	<u>147</u>	<u>Sand - Rio Arriba</u>
<u>2922</u>	<u>3393</u>	<u>471</u>	<u>Shale w/ some sand - Kirtland</u>
<u>3393</u>	<u>3659</u>	<u>266</u>	<u>Interbedded shales, coals & sands - Fruitland</u>
<u>3659</u>	<u>3773</u>	<u>114</u>	<u>Sand - Pictured Cliffs</u>
<u>3773</u>	<u>5454</u>	<u>1685</u>	<u>Shale - Lewis</u>
<u>5454</u>	<u>5550</u>	<u>92</u>	<u>Sand - Cliff House</u>
<u>5550</u>	<u>5856</u>	<u>306</u>	<u>Sands, Shales & Coals - Menefee</u>
<u>5856</u>			<u>Sand Point Lookout</u>
<u>5856</u>	<u>6025</u>	<u>169</u>	<u>Total Depth.</u>

[OVER]

FROM	TO	TOTAL FEET	FORMATION
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NAME	ADDRESS	CITY	STATE	ZIP	DATE	TIME	REMARKS
JOHN DOE	123 MAIN ST	ANYTOWN	CA	90210	10/10/77	10:00	ARRIVED
JANE SMITH	456 ELM ST	ANYTOWN	CA	90210	10/10/77	10:15	ARRIVED
BOB JONES	789 PINE ST	ANYTOWN	CA	90210	10/10/77	10:30	ARRIVED
ALICE BROWN	101 OAK ST	ANYTOWN	CA	90210	10/10/77	10:45	ARRIVED
CHARLIE WHITE	202 BIRCH ST	ANYTOWN	CA	90210	10/10/77	11:00	ARRIVED
DAVID GREEN	303 SAGE ST	ANYTOWN	CA	90210	10/10/77	11:15	ARRIVED
EVE BLACK	404 HICK ST	ANYTOWN	CA	90210	10/10/77	11:30	ARRIVED
FRANK GRAY	505 WALNUT ST	ANYTOWN	CA	90210	10/10/77	11:45	ARRIVED
GRACE HARRIS	606 CHERRY ST	ANYTOWN	CA	90210	10/10/77	12:00	ARRIVED
HELEN KIM	707 PEARL ST	ANYTOWN	CA	90210	10/10/77	12:15	ARRIVED
IRVING LEE	808 IVY ST	ANYTOWN	CA	90210	10/10/77	12:30	ARRIVED
JACK MORGAN	909 MAPLE ST	ANYTOWN	CA	90210	10/10/77	12:45	ARRIVED
KAREN NIXON	1010 CYPRESS ST	ANYTOWN	CA	90210	10/10/77	13:00	ARRIVED
LEON O'BRIEN	1111 CEDAR ST	ANYTOWN	CA	90210	10/10/77	13:15	ARRIVED
MARY PETERSON	1212 SPRUCE ST	ANYTOWN	CA	90210	10/10/77	13:30	ARRIVED
NORM QUINN	1313 REDWOOD ST	ANYTOWN	CA	90210	10/10/77	13:45	ARRIVED
OLIVIA ROSS	1414 JUNIPER ST	ANYTOWN	CA	90210	10/10/77	14:00	ARRIVED
PETER SAMPSON	1515 SIBYR ST	ANYTOWN	CA	90210	10/10/77	14:15	ARRIVED
RENE TAYLOR	1616 ACACIA ST	ANYTOWN	CA	90210	10/10/77	14:30	ARRIVED
STEVE THOMAS	1717 LOCUST ST	ANYTOWN	CA	90210	10/10/77	14:45	ARRIVED
TERESA WATSON	1818 BEECH ST	ANYTOWN	CA	90210	10/10/77	15:00	ARRIVED
WILLIAM YOUNG	1919 ASH ST	ANYTOWN	CA	90210	10/10/77	15:15	ARRIVED
XENIA ZIMMERMAN	2020 HAWTHORN ST	ANYTOWN	CA	90210	10/10/77	15:30	ARRIVED

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 "detached", 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 balling.

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

Total depth 6025', same from 5461-5564 with 10,000 gals. w/1#
sd/gal. I.P. 100# max and final 675', went on vacuum injection rate 39 BPM
well unjacked when hole was jetted. Dism sheardard transmission went out,
(went down). attempted flow from 5461-5564, with 15,000 gals. diesel, after
60 gals treatment into cementum, flow stopped; I.P. 150# pumping 400# max.
2900#. loaded hole w/500 gals. acid then jetted acid out; flow w/15,000 gals.
w/1# sd/gal. I.P. 450# max 675', final 590#; avg. I.R. 47.3 BPM, well went on
vacuum after job. and flow 5465-6025' w/10,000 gals. w/1# sd/gal. I.P.
150# max and final 1525' pressure dropped to 250' after two minutes, avg. I.R.
47.3 BPM. cleaned to total depth and ran 5969.48 2" tubing.

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