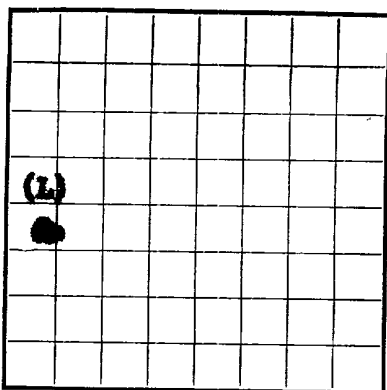




LOCATE WELL CORRECTLY

NOTED HOBBS
MAR 22 1961
STANDLEYU. S. LAND OFFICE
SERIAL NUMBER
LEASE OR PERMIT TO PROSPECT

New Mexico

12-01-55

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

MAR 22 1961

U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

LOG OF OIL OR GAS WELL

Company Parther City Investment Company Address Box 1178 Monahans, Texas
Lessor or Tract Perry-Federal Field Paducah-Delaware State New Mexico
Well No. 35 Sec. 21 T. 35 R. 3E Meridian NMPN County Lea
Location 1900 ft. of 8 Line and 660 ft. of W Line of Sec 21 Elevation 394.9' M.

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.

Date March 20, 1961 Signed Allen Bandy Title Assistant Div. Ofc. Mgr.

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

Commenced drilling March 20, 1961 Finished drilling March 11, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1590' to 1650' No. 4, from _____ to _____
No. 2, from 1670' to 1680' 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>7-5/8</u>	<u>26</u>	<u>8-1/2</u>	<u>JAL</u>	<u>300.32</u>	<u>Ball</u>	<u>None</u>			<u>Cementing</u>
<u>4-1/2</u>	<u>9.30</u>	<u>8-1/2</u>	<u>JAL</u>	<u>1711.30</u>	<u>Ball</u>	<u>None</u>	<u>1612</u>	<u>1612</u>	<u>Production</u>
<u>3-1/8</u>	<u>10.7</u>	<u>8-1/2</u>	<u>JAL</u>	<u>1000.00</u>	<u>Ball</u>	<u>None</u>			<u>Production</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>7-5/8</u>	<u>394.78</u>	<u>300</u>	<u>P&P</u>	<u>15.8</u>	<u>None Full</u>
<u>4-1/2</u>	<u>1711.30</u>	<u>150</u>	<u>P&P</u>	<u>14.6</u>	<u>None Full</u>
<u>3-1/8</u>	<u>1661.27</u>	<u>500</u>	<u>Water</u>		<u>None Full</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
<u>Completed</u>	<u>Natural</u>					

TOOLS USED

Rotary tools were used from 0 feet to 1712 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

March 20, 61 Put to producing March 11, 61

The production for the first 24 hours was 35 barrels of fluid of which 100 % was oil 0 %
emulsion, 0 % water; and 0 % sediment. Gravity, °Bé. 11.4 at 60 deg.

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

J. G. Hardin, Driller Ray Williams, Driller
O. E. Cross, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>1</u>	<u>726</u>	<u>726</u>	<u>Delicate, Shale & Gyp</u>
<u>726</u>	<u>1130</u>	<u>1656</u>	<u>Anhydrite & Dolomite</u>
<u>1130</u>	<u>1539</u>	<u>3169</u>	<u>Anhydrite & Salt</u>
<u>1539</u>	<u>1576</u>	<u>37</u>	<u>Black Limestone</u>
<u>1576</u>	<u>1653</u>	<u>77</u>	<u>Sand</u>
<u>1653</u>	<u>1712</u>	<u>59</u>	<u>Sand & Shale - Total Depth</u>
	<u>1698</u>		<u>Plug Back Total Depth</u>
GEOLOGICAL TOPS			
<u>Top Harder Anhydrite</u>	<u>726'</u>		
<u>Top Harder Dolomite</u>	<u>720'</u>		
<u>Base Harder Dolomite</u>	<u>926'</u>		
<u>Top Salt</u>	<u>1130'</u>		
<u>Base Salt</u>	<u>1517'</u>		
<u>Top Delaware Limestone</u>	<u>1539'</u>		
<u>Top Delaware Sand</u>	<u>1576'</u>		
<u>Total Depth</u>	<u>1712'</u>		
<u>Plug Back Total Depth</u>	<u>1698'</u>		

See attached sheet for core descriptions. NO DST taken.

ILLEGIBLE

PANTHER CITY INVESTMENT COMPANY
PERRY FEDERAL #35
Core Description And Analyses

Core #1: 4584-4659.

Cut 75', recovered 75'.

Commenced coring at 10:30 p.m. MST 3-10-61, at 4584.

Finished coring at 4:00 a.m. MST 3-11-61, at 4659.

Total coring time: 5 hrs. 30 min. Net coring time: 4 hrs. 40 min.

Coring time in minutes per foot: 12-12-12-12-12-8-6-6-4-4-3-3-3-2-7-6-2-2-2-2-2-1-2-1-3-2-1-1-4-3-3-2-2-1-1-1-2-1-1-2-1-1-2-1-1-2-1-3-2-1-1-2-9-6-3-3-2-2-2-2-2-1-1-2-2-2-6-6-7-9-13.

From	To	Ft.	Description
4584	4593	9	Shaley sand with no show.
4593	4599½	6½	Shaley sand with show of oil.
4599½	4601	1½	Shaley sand with no show.
4601	4614	13	Medium grained sand with good show of oil.
4614	4617½	3½	Laminated sand with show of oil.
4617½	4640	22-3/4	Clean sand with show of oil.
4640	4642½	2½	Sand with no show.
4642½	4644	1½	Laminated sand with a show of oil.
4644	4646½	2½	Clean sand with a show of oil.
4646½	4647	½	Gray shale, no show.
4647	4652	5	Sandy shale with no show.
4652	4655½	3½	Sand with spotted fluorescence, shale inclusions, scattered show.
4655½	4657	1½	Dark gray shale, no show.
4657	4659	2	Shale?

Core #2: 4659-4734

Cut 75', recovered 74'.

Commenced coring 8:38 a.m. MST 3-11-61, at 4659.

Finished coring 3:26 p.m. MST 3-11-61, at 4734.

Total coring time 6 hrs. 48 min.

Net coring time 6 hrs. 24 min.

Coring time in minutes per foot: 8-14-15-10-7-8-6-6-8-8-10-10-6-8-5-3-2-2-4-6-6-5-3-2-2-2-3-2-1-6-4-4-2-4-4-6-6-6-6-6-4-6-4-4-4-2-2-2-3-2-1-1-2-2-4-2-3-3-2-4-16-8-4-4-4-6-6-4-4-6-8-8-6-6-5-

From	To	Ft.	Description
4659	4734	75	Tight shaley gray sand with no show.

CORE ANALYSIS

DEPTH		PERMEABILITY,	POROSITY,	OIL SATURATION	WATER SATURATION
From	To	Millidarcys	Percent	% Pore Space	% Pore space
4593	4594	1.0	18.8	8.0	54.4
4594	4595	1.4	19.1	10.5	57.1
4595	4596	2.3	18.9	11.6	55.6
4596	4597	1.3	18.9	7.9	65.7
4597	4598	1.8	20.0	7.5	61.0
4598	4599	24	23.0	19.6	45.6
4599	4600	No analysis			
4600	4601	No analysis			
4601	4602	118	28.0	19.2	46.4
4602	4603	43	27.3	17.6	48.7
4603	4604	37	25.4	16.5	46.0
4604	4605	30	25.6	16.4	44.8
4605	4606	112	28.4	18.2	40.8
4606	4607	15	19.9	17.6	48.8
4607	4608	18	23.1	15.6	47.5
4608	4609	22	23.0	17.0	42.6
4609	4610	44	28.0	19.2	45.3
4610	4611	22	26.4	15.1	50.0
4611	4612	43	27.7	16.6	48.4
4612	4613	56	28.5	17.8	44.3
4613	4614	49	26.0	17.3	45.0
4614	4615	1.4	18.6	6.5	65.6
4615	4616	1.6	19.4	9.3	57.8
4616	4617	1.6	19.7	9.1	59.8
4617	4618	51	26.5	14.7	47.5
4618	4619	27	25.9	14.6	49.0
4619	4620	15	23.5	12.3	49.7
4620	4621	21	24.6	13.4	50.4
4621	4622	24	24.7	12.1	49.4
4622	4623	28	25.0	13.2	48.0
4623	4624	39	25.6	14.0	44.3
4624	4625	28	26.8	12.3	47.4
4625	4626	22	26.1	13.8	49.4
4626	4627	14	25.3	13.0	49.3
4627	4628	14	25.3	14.2	50.3
4628	4629	4.1	22.6	4.9	62.0
4629	4630	20	24.9	12.4	47.0

PANTHER CITY INVESTMENT COMPANY
PERRY FEDERAL #35
Core Description and Analyses

Core Analyses Continued:

DEPTH		PERMEABILITY	POROSITY,	OIL SATURATION	WATER SATURATION
From	To	Millidarcys	Percent	% Pore Space	% Pore Space
4630	4631	5.9	23.7	9.7	52.2
4631	4632	15	25.7	13.2	47.5
4632	4633	8.6	24.9	11.6	52.2
4633	4634	10	26.3	12.9	50.2
4634	4635	8.6	25.7	9.7	54.5
4635	4636	35	25.1	14.7	51.8
4636	4637	26	26.0	14.6	44.3
4637	4638	15	27.8	14.0	47.8
4638	4639	18	26.7	10.5	49.4
4639	4640	29	27.0	12.2	46.6
4640	4641	No analysis			
4641	4642	No analysis			
4642	4643	2.8	22.9	7.4	44.0
4643	4644	4.7	24.7	10.5	45.0
4644	4645	18	25.9	11.9	44.8
4645	4646	6.3	25.3	5.9	57.0
4646	4647	5.8	24.2	4.6	55.5
4647	4648	No analysis			
4648	4649	"			
4649	4650	"			
4650	4651	7.1	22.7	7.5	52.8
4651	4652	No analysis			
4652	4653	8.1	23.4	7.7	52.5
4653	4654	3.5	19.6	7.7	52.0
4654	4655	109	27.6	13.0	41.0

A discrepancy of 8' exists between depths shown above as measured on the rig, and log depths shown by Schlumberger. To correct to log depth, subtract 8' from the depths shown above.