

NOTED

APR 3 1961

Budget Bureau No. 42-R355.4.

Approval expires 12-31-60.

New Mexico

U. S. LAND OFFICE

LC 002869

SERIAL NUMBER

LEASE OR PERMIT TO PROSPECT

STANDLEY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Panther City Investment Company Address Box 1178 Montana, Texas
Lessor or Tract Harry Federal Field Paducah-Belmont State New Mexico
Well No. 77 Sec. 21 T. 25S R. 32E Meridian 10N County Lea
Location 660 ft. N of 8 Line and 660 ft. E of 7 Line of Sec 21 Elevation 3396.7'
(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

Allen SmithDate March 31, 1961Title Assistant Div. Eng. Mgr.

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

Commenced drilling March 14, 1961 Finished drilling March 22, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1664 to 1664 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>8-5/8</u>	<u>24.4</u>	<u>4</u>	<u>API</u>	<u>100</u>	<u>API</u>	<u>1664</u>	<u>1664</u>	<u>1664</u>	<u>Counting</u>
<u>4-1/2</u>	<u>17.8</u>	<u>4</u>	<u>API</u>	<u>150</u>	<u>API</u>	<u>1664</u>	<u>1664</u>	<u>1664</u>	<u>Production</u>
<u>3-1/8</u>	<u>16.6</u>	<u>4</u>	<u>API</u>	<u>119</u>	<u>API</u>	<u>1664</u>	<u>1664</u>	<u>1664</u>	<u>Production</u>
<u>Perforations (1664' to 1664') (1664' to 1664')</u>									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8</u>	<u>396.65</u>	<u>325</u>	<u>RP</u>	<u>15.7</u>	<u>Hole Full</u>
<u>4-1/2</u>	<u>1778.39</u>	<u>150</u>	<u>RP</u>	<u>14.9</u>	<u>Hole Full</u>
<u>3-1/8</u>	<u>1666.00</u>	<u>Swag</u>		<u>Water</u>	<u>Hole 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 Natural</u>						

TOOLS USED

Rotary tools were used from 4 feet to 1778 feet, and from _____ feet to _____ feet

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

DATES

March 31, 1961 Put to producing March 27, 1961

The production for the first 24 hours was 66.4 barrels of fluid of which 100% was oil; 0%
emulsion; 0% water; and 0% sediment. Gravity, °Bé. 12.0 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. E. Kettin, Driller Ray #1114am, DrillerG. E. Cross, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>746</u>	<u>746</u>	<u>Sand, Gyp & Shale</u>
<u>746</u>	<u>995</u>	<u>249</u>	<u>Anhydrite & Dolomite</u>
<u>995</u>	<u>1115</u>	<u>120</u>	<u>Shale & Gyp</u>
<u>1115</u>	<u>1336</u>	<u>221</u>	<u>Salt & Anhydrite</u>
<u>1336</u>	<u>1598</u>	<u>262</u>	<u>Anhydrite</u>
<u>1598</u>	<u>1593</u>	<u>5</u>	<u>Black Shale</u>
<u>1593</u>	<u>1665</u>	<u>72</u>	<u>Sand</u>
<u>1665</u>	<u>1778</u>	<u>113</u>	<u>Sand & Shale - Total Depth</u>
	<u>1777</u>		<u>Aug Back Total Depth</u>
GEOLOGICAL TOPS			
<u>Top Rustler Anhydrite</u>	<u>746</u>		
<u>Top Rustler Dolomite</u>	<u>801</u>		
<u>Base Rustler Dolomite</u>	<u>978</u>		
<u>Top Salt</u>	<u>1115</u>		
<u>Base Salt</u>	<u>1336</u>		
<u>Top Adams Line</u>	<u>1556</u>		
<u>Top Belmont Sand</u>	<u>1593</u>		
<u>Total Depth</u>	<u>1778</u>		
<u>Plug Back Total Depth</u>	<u>1777</u>		
FROM—	TO—	TOTAL FEET	FORMATION

FORM

ILLEGIBLE

10-48094-4

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

DATE WILL CORRECTLY

[illegible]

100-443887-100

THEIR OR GAS STANDS OR XCHES

From	To	Amount	Balance
10/1/01	10/1/01	100.00	100.00
10/1/01	10/1/01	100.00	200.00
10/1/01	10/1/01	100.00	300.00
10/1/01	10/1/01	100.00	400.00
10/1/01	10/1/01	100.00	500.00
10/1/01	10/1/01	100.00	600.00
10/1/01	10/1/01	100.00	700.00
10/1/01	10/1/01	100.00	800.00
10/1/01	10/1/01	100.00	900.00
10/1/01	10/1/01	100.00	1000.00
10/1/01	10/1/01	100.00	1100.00
10/1/01	10/1/01	100.00	1200.00
10/1/01	10/1/01	100.00	1300.00
10/1/01	10/1/01	100.00	1400.00
10/1/01	10/1/01	100.00	1500.00
10/1/01	10/1/01	100.00	1600.00
10/1/01	10/1/01	100.00	1700.00
10/1/01	10/1/01	100.00	1800.00
10/1/01	10/1/01	100.00	1900.00
10/1/01	10/1/01	100.00	2000.00
10/1/01	10/1/01	100.00	2100.00
10/1/01	10/1/01	100.00	2200.00
10/1/01	10/1/01	100.00	2300.00
10/1/01	10/1/01	100.00	2400.00
10/1/01	10/1/01	100.00	2500.00
10/1/01	10/1/01	100.00	2600.00
10/1/01	10/1/01	100.00	2700.00
10/1/01	10/1/01	100.00	2800.00
10/1/01	10/1/01	100.00	2900.00
10/1/01	10/1/01	100.00	3000.00
10/1/01	10/1/01	100.00	3100.00
10/1/01	10/1/01	100.00	3200.00
10/1/01	10/1/01	100.00	3300.00
10/1/01	10/1/01	100.00	3400.00
10/1/01	10/1/01	100.00	3500.00
10/1/01	10/1/01	100.00	3600.00
10/1/01	10/1/01	100.00	3700.00
10/1/01	10/1/01	100.00	3800.00
10/1/01	10/1/01	100.00	3900.00
10/1/01	10/1/01	100.00	4000.00
10/1/01	10/1/01	100.00	4100.00
10/1/01	10/1/01	100.00	4200.00
10/1/01	10/1/01	100.00	4300.00
10/1/01	10/1/01	100.00	4400.00
10/1/01	10/1/01	100.00	4500.00
10/1/01	10/1/01	100.00	4600.00
10/1/01	10/1/01	100.00	4700.00
10/1/01	10/1/01	100.00	4800.00
10/1/01	10/1/01	100.00	4900.00
10/1/01	10/1/01	100.00	5000.00
10/1/01	10/1/01	100.00	5100.00
10/1/01	10/1/01	100.00	5200.00
10/1/01	10/1/01	100.00	5300.00
10/1/01	10/1/01	100.00	5400.00
10/1/01	10/1/01	100.00	5500.00
10/1/01	10/1/01	100.00	5600.00
10/1/01	10/1/01	100.00	5700.00
10/1/01	10/1/01	100.00	5800.00
10/1/01	10/1/01	100.00	5900.00
10/1/01	10/1/01	100.00	6000.00
10/1/01	10/1/01	100.00	6100.00
10/1/01	10/1/01	100.00	6200.00
10/1/01	10/1/01	100.00	6300.00
10/1/01	10/1/01	100.00	6400.00
10/1/01	10/1/01	100.00	6500.00
10/1/01	10/1/01	100.00	6600.00
10/1/01	10/1/01	100.00	6700.00
10/1/01	10/1/01	100.00	6800.00
10/1/01	10/1/01	100.00	6900.00
10/1/01	10/1/01	100.00	7000.00

SECRET

of mod 1307 mod 1307

of mod 1307 mod 1307

CALLING RECORD

Well	Amount	Kind of work	From	To	Remarks
					It is of the greatest importance to have a complete history of the well. Please state in detail the dates of drilling, together with the reasons for the work and its results. If there were any changes made in the casing, size, position, and if any casing was slackened or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of charges. If things or bridges were put in a test for water, state kind of material used, position, and results of pumping or testing.

HISTORY OF OIL OR GAS WELL

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

ARRESTING AND CRIMINAL RECORD

[illegible]

CHET JAGA and GUY SULLIVAN

[illegible]

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[illegible][illegible]

1901	to 1902	from 1901 to 1902	1901	to 1902	from 1901 to 1902
1902	to 1903	from 1902 to 1903	1902	to 1903	from 1902 to 1903

DATE

Gallop gasoline per 1,000 cu. ft. of gas

(Density) 68° F.

The new No. 1 which is about 10% heavier than the old No. 1 was oil.

Let to produce 100 gal. of No. 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Dr. J. H. ...	Dr. J. H. ...	Dr. J. H. ...
Dr. J. H. ...	Dr. J. H. ...	Dr. J. H. ...

FORMATION RECORD

FORMATION	TOTAL FEET	TO -	FROM -
1. 1000 - 1000	1000	1000	1000
2. 1000 - 1000	1000	1000	1000
3. 1000 - 1000	1000	1000	1000
4. 1000 - 1000	1000	1000	1000
5. 1000 - 1000	1000	1000	1000
6. 1000 - 1000	1000	1000	1000
7. 1000 - 1000	1000	1000	1000
8. 1000 - 1000	1000	1000	1000
9. 1000 - 1000	1000	1000	1000
10. 1000 - 1000	1000	1000	1000
11. 1000 - 1000	1000	1000	1000
12. 1000 - 1000	1000	1000	1000
13. 1000 - 1000	1000	1000	1000
14. 1000 - 1000	1000	1000	1000
15. 1000 - 1000	1000	1000	1000
16. 1000 - 1000	1000	1000	1000
17. 1000 - 1000	1000	1000	1000
18. 1000 - 1000	1000	1000	1000
19. 1000 - 1000	1000	1000	1000
20. 1000 - 1000	1000	1000	1000
21. 1000 - 1000	1000	1000	1000
22. 1000 - 1000	1000	1000	1000
23. 1000 - 1000	1000	1000	1000
24. 1000 - 1000	1000	1000	1000
25. 1000 - 1000	1000	1000	1000
26. 1000 - 1000	1000	1000	1000
27. 1000 - 1000	1000	1000	1000
28. 1000 - 1000	1000	1000	1000
29. 1000 - 1000	1000	1000	1000
30. 1000 - 1000	1000	1000	1000
31. 1000 - 1000	1000	1000	1000
32. 1000 - 1000	1000	1000	1000
33. 1000 - 1000	1000	1000	1000
34. 1000 - 1000	1000	1000	1000
35. 1000 - 1000	1000	1000	1000
36. 1000 - 1000	1000	1000	1000
37. 1000 - 1000	1000	1000	1000
38. 1000 - 1000	1000	1000	1000
39. 1000 - 1000	1000	1000	1000
40. 1000 - 1000	1000	1000	1000
41. 1000 - 1000	1000	1000	1000
42. 1000 - 1000	1000	1000	1000
43. 1000 - 1000	1000	1000	1000
44. 1000 - 1000	1000	1000	1000
45. 1000 - 1000	1000	1000	1000
46. 1000 - 1000	1000	1000	1000
47. 1000 - 1000	1000	1000	1000
48. 1000 - 1000	1000	1000	1000
49. 1000 - 1000	1000	1000	1000
50. 1000 - 1000	1000	1000	1000
51. 1000 - 1000	1000	1000	1000
52. 1000 - 1000	1000	1000	1000
53. 1000 - 1000	1000	1000	1000
54. 1000 - 1000	1000	1000	1000
55. 1000 - 1000	1000	1000	1000
56. 1000 - 1000	1000	1000	1000
57. 1000 - 1000	1000	1000	1000
58. 1000 - 1000	1000	1000	1000
59. 1000 - 1000	1000	1000	1000
60. 1000 - 1000	1000	1000	1000
61. 1000 - 1000	1000	1000	1000
62. 1000 - 1000	1000	1000	1000
63. 1000 - 1000	1000	1000	1000
64. 1000 - 1000	1000	1000	1000
65. 1000 - 1000	1000	1000	1000
66. 1000 - 1000	1000	1000	1000
67. 1000 - 1000	1000	1000	1000
68. 1000 - 1000	1000	1000	1000
69. 1000 - 1000	1000	1000	1000
70. 1000 - 1000	1000	1000	1000
71. 1000 - 1000	1000	1000	1000