

U. S. LAND OFFICE Santa Fe  
SERIAL NUMBER 080375  
LEASE OR PERMIT TO PROSPECT BolackUNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company PETRO-ATLAS CORPORATION Address Simms Building, Albuquerque, N.M.  
Lessor or Tract BOLACK Field BALLARD State NEW MEXICO  
Well No. 2 Sec. 6 T. 25N R. 7W Meridian N.M.P.M. County RIO ARriba  
Location 1700 ft. N. of S. Line and 1190 ft. E. of E. Line of SEC. 6 Elevation 6531  
(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

Date January 3rd, 1957 Title President

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

Commenced drilling August 5th, 1956 Finished drilling August 14th, 1956

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2273 to 2415 (G) 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 \_\_\_\_\_ 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 |            |
| 8-5/8"      | 24#             | 8                | J-55 | 944    | -            | -                   | -          | -  | Surface    |
| 5-1/2"      | 15.5#           | 8                | J-55 | 4921   | Texas        | -                   | -          | -  | Production |
| 5-1/2"      | 14#             | 8                | J-55 | 1878   | Pattern      | -                   | -          | -  | Production |

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|-------------|-------------|--------------------|
| 8-5/8"      | 104       | 70                     | Pump & Plug |             |                    |
| 5-1/2"      | 2358      | 175                    | "           |             |                    |

## PLUGS AND ADAPTERS

Heaving plug—Material None Length \_\_\_\_\_ Depth set \_\_\_\_\_  
Adapters—Material None Size \_\_\_\_\_

## SHOOTING RECORD

| Size | Shell used | Explosive used | Quantity | Date | Depth shot | Depth cleaned out |
|------|------------|----------------|----------|------|------------|-------------------|
|      |            | None           |          |      |            |                   |

## TOOLS USED

Rotary tools were used from Surface feet to 2415 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from to drill in feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

Ran Tubing State Potential Test  
October 2nd, 1956 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 5,921,000 Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_Rock pressure, lbs. per sq. in. 645 (shut in 8 days)

## EMPLOYEES

Benson-Montin-Greer, Driller \_\_\_\_\_, Driller  
Drilling Corp., Driller \_\_\_\_\_, Driller

## FORMATION RECORD

| FROM—   | TO—  | TOTAL FEET | FORMATION                                                          |
|---------|------|------------|--------------------------------------------------------------------|
| Surface | 2165 | 2165       | Surface sand and shale, Ojo Alamo, Kirtland & Fruitland formations |
| 2165    | 2170 | 5          | Coal                                                               |
| 2170    | 2265 | 95         | Shale                                                              |
| 2265    | 2270 | 5          | Coal                                                               |
| 2270    | 2273 | 3          | Shale                                                              |
| 2273    | 2415 | 42         | Sand                                                               |
|         |      |            | TOP OF PICTURED CLIFFS 2273'                                       |

ESTATE OF JIMMY L. ...

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## NEW 843 800 JUN 79 2011

breasting pressure 1500#, injection rate 32.7 BBL/D

WTH 3,500 gallons after. Breakdown: 2,000 gallons, 1,500 gallons, 1,000 gallons, 500 gallons, 250 gallons, 125 gallons, 62.5 gallons, 31.25 gallons, 15.625 gallons, 7.8125 gallons, 3.90625 gallons, 1.953125 gallons, 0.9765625 gallons, 0.48828125 gallons, 0.244140625 gallons, 0.1220703125 gallons, 0.06103515625 gallons, 0.030517578125 gallons, 0.0152587890625 gallons, 0.00762939453125 gallons, 0.003814697265625 gallons, 0.0019073486328125 gallons, 0.00095367431640625 gallons, 0.000476837158203125 gallons, 0.0002384185791015625 gallons, 0.00011920928955078125 gallons, 0.000059604644775390625 gallons, 0.0000298023223876953125 gallons, 0.00001490116119384765625 gallons, 0.000007450580596923828125 gallons, 0.0000037252902984619140625 gallons, 0.00000186264514923095703125 gallons, 0.000000931322574615478515625 gallons, 0.0000004656612873077392578125 gallons, 0.00000023283064365386962890625 gallons, 0.000000116415321826934814453125 gallons, 0.0000000582076609134674072265625 gallons, 0.00000002910383045673370361328125 gallons, 0.000000014551915228366851806640625 gallons, 0.0000000072759576141834259033203125 gallons, 0.00000000363797880709171295166015625 gallons, 0.000000001818989403545856475830078125 gallons, 0.0000000009094947017729282379150390625 gallons, 0.00000000045474735088646411895751953125 gallons, 0.000000000227373675443232059478759765625 gallons, 0.0000000001136868377216160297393798828125 gallons, 0.00000000005684341886080801486968994140625 gallons, 0.000000000028421709430404007434844970703125 gallons, 0.0000000000142108547152020037174224853515625 gallons, 0.00000000000710542735760100185871124267578125 gallons, 0.000000000003552713678800500929355621337890625 gallons, 0.0000000000017763568394002500646778106689453125 gallons, 0.00000000000088817841970012503233890533447265625 gallons, 0.000000000000444089209850062516169452667236328125 gallons, 0.0000000000002220446049250312580847263336181640625 gallons, 0.00000000000011102230246251562904236316680908203125 gallons, 0.000000000000055511151231257814521181583404541015625 gallons, 0.0000000000000277555756156289072605907917022705078125 gallons, 0.00000000000001387778780781445363029539585113525390625 gallons, 0.000000000000006938893903907226815147697925567626953125 gallons, 0.0000000000000034694469519536134075738489627838126953125 gallons, 0.00000000000000173472347597680670378692448139190634765625 gallons, 0.000000000000000867361737988403351893462240695953173828125 gallons, 0.0000000000000004336808689942016759467311203479765869140625 gallons, 0.00000000000000021684043449710083797336556017398829345703125 gallons, 0.000000000000000108420217248550418986682780086994146728515625 gallons, 0.0000000000000000542101086242752094933413900434970733642578125 gallons, 0.00000000000000002710505431213760474667069502174853668212890625 gallons, 0.0000000000000000135525271560688023733353475108742683410642578125 gallons, 0.00000000000000000677626357803440118666767375543713417053212890625 gallons, 0.0000000000000000033881317890172005933338368777185670852660642578125 gallons, 0.00000000000000000169406589450860029666691843885928354263303212890625 gallons, 0.0000000000000000008470329472543001483334592194296417713165160642578125 gallons, 0.00000000000000000042351647362715007416672960971482088565825803212890625 gallons, 0.0000000000000000002117582368135750370833648048574104428291290160642578125 gallons, 0.00000000000000000010587911840678751854168240242870522141456450803212890625 gallons, 0.0000000000000000000529395592033937592708412012143526107072822540160642578125 gallons, 0.00000000000000000002646977960169687963542060060717630535364112700803212890625 gallons, 0.0000000000000000000132348898008484398177103003035881526768205635040160642578125 gallons, 0.00000000000000000000661744490042421990885515015179407633841028175200803212890625 gallons, 0.0000000000000000000033087224502121099544275750758970381692051408760040160642578125 gallons, 0.00000000000000000000165436122510605497721378753794851908460257043800200803212890625 gallons, 0.0000000000000000000008271806125530274886068937689742595423012852190010040160642578125 gallons, 0.000000000000000000000413590306276513744303446884487129771150642609500500200803212890625 gallons, 0.00000000000000000000020679515313825687215172344224356488557532130475025010040160642578125 gallons, 0.000000000000000000000103397576569128436075861721121782442787660652375125050200803212890625 gallons, 0.00000000000000000000005169878828456421803793086056089122139383032618756252510040160642578125 gallons, 0.0000000000000000000000258493941422821090189654302804456106969151630937812525050200803212890625 gallons, 0.00000000000000000000001292469707114105450948271514022280534845758154689062525050200803212890625 gallons, 0.000

ten holes per foot. Sandtraced through perforations with 27,500 gallons water and 30,000# sand. Finished

1400#, injection rate 40.4 BPM. Set Baker CI  
 including plug at 2910'. Perforated 2280-2404' with

water - breakdown pressure 3,000# treating pressure 3,000#

9-29-56 Sandtraced from 2558' to 2584' with 28,600 gallons water and 90,000' sand, 11,100' with 4,000 gallons

9-28-56 ID 2415. Plugged back to 2384 with calbeal.

1957-8-6

9-27-56 Moved in cable tools.

8-14-56 TD 2415, KRB-3847-5-1/2, coating.

8-10-56 Moved to rotary.

8-6-56 TD 1041 RKB Set 8-6/8 Counting.

8-5-56 moved in shotguns to set snare casting. Spurred.

[illegible]

of the well has been determined. If the well is to be used for water, state kind of material proposed, and in what form. If the well is to be used for other purposes, state the purpose. If the well is to be used for other purposes, state the purpose. If the well is to be used for other purposes, state the purpose.

5 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

## HISTORY OF OIL OR GAS WELL

10-43095-2 U. S. GOVERNMENT PRINTING OFFICE

| FROM    | TO      | TOTAL FEET | FORMATION |
|---------|---------|------------|-----------|
| 0-10    | 10-20   | 10         | SANDSTONE |
| 10-20   | 20-30   | 10         | SANDSTONE |
| 20-30   | 30-40   | 10         | SANDSTONE |
| 30-40   | 40-50   | 10         | SANDSTONE |
| 40-50   | 50-60   | 10         | SANDSTONE |
| 50-60   | 60-70   | 10         | SANDSTONE |
| 60-70   | 70-80   | 10         | SANDSTONE |
| 70-80   | 80-90   | 10         | SANDSTONE |
| 80-90   | 90-100  | 10         | SANDSTONE |
| 90-100  | 100-110 | 10         | SANDSTONE |
| 100-110 | 110-120 | 10         | SANDSTONE |
| 110-120 | 120-130 | 10         | SANDSTONE |
| 120-130 | 130-140 | 10         | SANDSTONE |
| 130-140 | 140-150 | 10         | SANDSTONE |
| 140-150 | 150-160 | 10         | SANDSTONE |
| 150-160 | 160-170 | 10         | SANDSTONE |
| 160-170 | 170-180 | 10         | SANDSTONE |
| 170-180 | 180-190 | 10         | SANDSTONE |
| 180-190 | 190-200 | 10         | SANDSTONE |
| 190-200 | 200-210 | 10         | SANDSTONE |
| 200-210 | 210-220 | 10         | SANDSTONE |
| 210-220 | 220-230 | 10         | SANDSTONE |
| 220-230 | 230-240 | 10         | SANDSTONE |
| 230-240 | 240-250 | 10         | SANDSTONE |
| 240-250 | 250-260 | 10         | SANDSTONE |
| 250-260 | 260-270 | 10         | SANDSTONE |
| 260-270 | 270-280 | 10         | SANDSTONE |
| 270-280 | 280-290 | 10         | SANDSTONE |
| 280-290 | 290-300 | 10         | SANDSTONE |
| 290-300 | 300-310 | 10         | SANDSTONE |
| 300-310 | 310-320 | 10         | SANDSTONE |
| 310-320 | 320-330 | 10         | SANDSTONE |
| 320-330 | 330-340 | 10         | SANDSTONE |
| 330-340 | 340-350 | 10         | SANDSTONE |
| 340-350 | 350-360 | 10         | SANDSTONE |
| 350-360 | 360-370 | 10         | SANDSTONE |
| 360-370 | 370-380 | 10         | SANDSTONE |
| 370-380 | 380-390 | 10         | SANDSTONE |
| 380-390 | 390-400 | 10         | SANDSTONE |
| 390-400 | 400-410 | 10         | SANDSTONE |
| 400-410 | 410-420 | 10         | SANDSTONE |
| 410-420 | 420-430 | 10         | SANDSTONE |
| 420-430 | 430-440 | 10         | SANDSTONE |
| 430-440 | 440-450 | 10         | SANDSTONE |
| 440-450 | 450-460 | 10         | SANDSTONE |
| 450-460 | 460-470 | 10         | SANDSTONE |
| 460-470 | 470-480 | 10         | SANDSTONE |
| 470-480 | 480-490 | 10         | SANDSTONE |
| 480-490 | 490-500 | 10         | SANDSTONE |
| 490-500 | 500-510 | 10         | SANDSTONE |
| 500-510 | 510-520 | 10         | SANDSTONE |
| 510-520 | 520-530 | 10         | SANDSTONE |
| 520-530 | 530-540 | 10         | SANDSTONE |
| 530-540 | 540-550 | 10         | SANDSTONE |
| 540-550 | 550-560 | 10         | SANDSTONE |
| 550-560 | 560-570 | 10         | SANDSTONE |
| 560-570 | 570-580 | 10         | SANDSTONE |
| 570-580 | 580-590 | 10         | SANDSTONE |
| 580-590 | 590-600 | 10         | SANDSTONE |
| 590-600 | 600-610 | 10         | SANDSTONE |
| 600-610 | 610-620 | 10         | SANDSTONE |
| 610-620 | 620-630 | 10         | SANDSTONE |
| 620-630 | 630-640 | 10         | SANDSTONE |
| 630-640 | 640-650 | 10         | SANDSTONE |
| 640-650 | 650-660 | 10         | SANDSTONE |
| 650-660 | 660-670 | 10         | SANDSTONE |
| 660-670 | 670-680 | 10         | SANDSTONE |
| 670-680 | 680-690 | 10         | SANDSTONE |
| 680-690 | 690-700 | 10         | SANDSTONE |
| 690-700 | 700-710 | 10         | SANDSTONE |
| 700-710 | 710-720 | 10         | SANDSTONE |
| 710-720 | 720-730 | 10         | SANDSTONE |
| 720-730 | 730-740 | 10         | SANDSTONE |
| 730-740 | 740-750 | 10         | SANDSTONE |
| 740-750 | 750-760 | 10         | SANDSTONE |
| 750-760 | 760-770 | 10         | SANDSTONE |
| 760-770 | 770-780 | 10         | SANDSTONE |
| 770-780 | 780-790 | 10         | SANDSTONE |
| 780-790 | 790-800 | 10         | SANDSTONE |
| 790-800 | 800-810 | 10         | SANDSTONE |
| 800-810 | 810-820 | 10         | SANDSTONE |
| 810-820 | 820-830 | 10         | SANDSTONE |
| 820-830 | 830-840 | 10         | SANDSTONE |
| 830-840 | 840-850 | 10         | SANDSTONE |
| 840-850 | 850-860 | 10         | SANDSTONE |
| 850-860 | 860-870 | 10         | SANDSTONE |
| 860-870 | 870-880 | 10         | SANDSTONE |
| 870-880 | 880-890 | 10         | SANDSTONE |
| 880-890 | 890-900 | 10         | SANDSTONE |
| 890-900 | 900-910 | 10         | SANDSTONE |
| 900-910 | 910-920 | 10         | SANDSTONE |
| 910-920 | 920-930 | 10         | SANDSTONE |
| 920-930 | 930-940 | 10         | SAND      |