

U. S. LAND OFFICE San Antonio
SERIAL NUMBER SE 079325-A
LEASE OR PERMIT TO PROSPECT _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APR 17 1961

U. S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Royal Development Co Address Box 1299 Albuquerque N M
Lessor or Tract Royal Kern Field Undesig State N M
Well No. 1 (d) Sec. 3 T. 25N R. 1E Meridian NMP M County Rio Arriba
Location 1965 ft. S of N Line and 675 ft. W of E Line of Sec. 3 Elevation 7052 GL

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 3 17 61 Signed N E Shillander
Title Bus. Mgr.

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

Commenced drilling 9/2/60, 1960 Finished drilling 9/13/60, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1145 to 1155 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 **1888** to **1890** 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--	
8-3/4	14.5	12	14-3/4	14.5	14-3/4	14.5	14-3/4	14.5	14-3/4
2-3/4	14.5	12	14-3/4	14.5	14-3/4	14.5	14-3/4	14.5	14-3/4
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14-3/4 14.5 14-3/4 14.5 14-3/4 14.5 14-3/4 14.5 14-3/4 14.5									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	167' 4"	5 bag	displacement		
2-7/8	1212'	50 sac 50% Pennix Hall.		Water	Water

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

DATE	TIME	LOCATION	DEPTH	FORMATION	REMARKS
12/1/55	10:00	100' below surface	100'	Shale	Drill bit was used from 100' to 105' and from 105' to 110'.
12/1/55	10:15	105' below surface	105'	Shale	Drill bit was used from 105' to 110' and from 110' to 115'.
12/1/55	10:30	110' below surface	110'	Shale	Drill bit was used from 110' to 115' and from 115' to 120'.
12/1/55	10:45	115' below surface	115'	Shale	Drill bit was used from 115' to 120' and from 120' to 125'.
12/1/55	11:00	120' below surface	120'	Shale	Drill bit was used from 120' to 125' and from 125' to 130'.
12/1/55	11:15	125' below surface	125'	Shale	Drill bit was used from 125' to 130' and from 130' to 135'.
12/1/55	11:30	130' below surface	130'	Shale	Drill bit was used from 130' to 135' and from 135' to 140'.
12/1/55	11:45	135' below surface	135'	Shale	Drill bit was used from 135' to 140' and from 140' to 145'.
12/1/55	12:00	140' below surface	140'	Shale	Drill bit was used from 140' to 145' and from 145' to 150'.
12/1/55	12:15	145' below surface	145'	Shale	Drill bit was used from 145' to 150' and from 150' to 155'.
12/1/55	12:30	150' below surface	150'	Shale	Drill bit was used from 150' to 155' and from 155' to 160'.
12/1/55	12:45	155' below surface	155'	Shale	Drill bit was used from 155' to 160' and from 160' to 165'.
12/1/55	13:00	160' below surface	160'	Shale	Drill bit was used from 160' to 165' and from 165' to 170'.
12/1/55	13:15	165' below surface	165'	Shale	Drill bit was used from 165' to 170' and from 170' to 175'.
12/1/55	13:30	170' below surface	170'	Shale	Drill bit was used from 170' to 175' and from 175' to 180'.
12/1/55	13:45	175' below surface	175'	Shale	Drill bit was used from 175' to 180' and from 180' to 185'.
12/1/55	14:00	180' below surface	180'	Shale	Drill bit was used from 180' to 185' and from 185' to 190'.
12/1/55	14:15	185' below surface	185'	Shale	Drill bit was used from 185' to 190' and from 190' to 195'.
12/1/55	14:30	190' below surface	190'	Shale	Drill bit was used from 190' to 195' and from 195' to 200'.
12/1/55	14:45	195' below surface	195'	Shale	Drill bit was used from 195' to 200' and from 200' to 205'.
12/1/55	15:00	200' below surface	200'	Shale	Drill bit was used from 200' to 205' and from 205' to 210'.
12/1/55	15:15	205' below surface	205'	Shale	Drill bit was used from 205' to 210' and from 210' to 215'.
12/1/55	15:30	210' below surface	210'	Shale	Drill bit was used from 210' to 215' and from 215' to 220'.
12/1/55	15:45	215' below surface	215'	Shale	Drill bit was used from 215' to 220' and from 220' to 225'.
12/1/55	16:00	220' below surface	220'	Shale	Drill bit was used from 220' to 225' and from 225' to 230'.
12/1/55	16:15	225' below surface	225'	Shale	Drill bit was used from 225' to 230' and from 230' to 235'.
12/1/55	16:30	230' below surface	230'	Shale	Drill bit was used from 230' to 235' and from 235' to 240'.
12/1/55	16:45	235' below surface	235'	Shale	Drill bit was used from 235' to 240' and from 240' to 245'.
12/1/55	17:00	240' below surface	240'	Shale	Drill bit was used from 240' to 245' and from 245' to 250'.
12/1/55	17:15	245' below surface	245'	Shale	Drill bit was used from 245' to 250' and from 250' to 255'.
12/1/55	17:30	250' below surface	250'	Shale	Drill bit was used from 250' to 255' and from 255' to 260'.
12/1/55	17:45	255' below surface	255'	Shale	Drill bit was used from 255' to 260' and from 260' to 265'.
12/1/55	18:00	260' below surface	260'	Shale	Drill bit was used from 260' to 265' and from 265' to 270'.
12/1/55	18:15	265' below surface	265'	Shale	Drill bit was used from 265' to 270' and from 270' to 275'.
12/1/55	18:30	270' below surface	270'	Shale	Drill bit was used from 270' to 275' and from 275' to 280'.
12/1/55	18:45	275' below surface	275'	Shale	Drill bit was used from 275' to 280' and from 280' to 285'.
12/1/55	19:00	280' below surface	280'	Shale	Drill bit was used from 280' to 285' and from 285' to 290'.
12/1/55	19:15	285' below surface	285'	Shale	Drill bit was used from 285' to 290' and from 290' to 295'.
12/1/55	19:30	290' below surface	290'	Shale	Drill bit was used from 290' to 295' and from 295' to 300'.
12/1/55	19:45	295' below surface	295'	Shale	Drill bit was used from 295' to 300' and from 300' to 305'.
12/1/55	20:00	300' below surface	300'	Shale	Drill bit was used from 300' to 305' and from 305' to 310'.
12/1/55	20:15	305' below surface	305'	Shale	Drill bit was used from 305' to 310' and from 310' to 315'.

First Oil - while in P. 11/60 calling 596'
2nd Oil - " " free oil found when cleaning up to top of Bak Plug.
3rd Oil - babbled free oil for 3 hours. 11/25/60
Free oil 9/23/60.

Greenhorn1646:

GRABER 1704:

Dezote 1888:

TD 1890:

LEON-

10-

JOINT LEEL

LOEWEN

[OVER]

EVOLUTION RECORD—Continued

16-43094-5

PLEASE OR PERMIT TO PROSPECT
SERIAL NUMBER 27002-4
U. S. LAND OFFICE
Sante Fe

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APR 18 1961
U.S. DIST. CT.
S.D.N.Y.

LOG OF OIL OR GAS WELL

LOCATE WITH CORRECT X

Date 3 12 61
 Signed H E Brillmeyer
 Title H E Brillmeyer
 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.
 Location 1965 ft. S. of N. line and 475 ft. W. of E. line of Sec 3
 Well No. 1 (4) Sec 3 T. 32N. R. 12E. Meridian NMP. N
 Lessor or Tract Royal Kern
 Company Royal Development Co
 Address Box 1239 Alhambra N. M.
 Field Indiata
 State N. M.

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

Completed drilling 01/10/00

ON OR CAR BANDS OF ZONES

(D) $\frac{1}{2}$ (E) $\frac{1}{3}$

No. 1, from	to	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 1888, to 1890, No. 3, from
 No. 2, from to No. 4 from to

CASING RECORD

HISTORY OF OIL OR GAS WELL					U. S. GOVERNMENT PRINTING OFFICE				
1. NAME OF WELL					2. LOCATION				
3. KIND OF WELL					4. DATE OF COMPLETION				
5. KIND OF OIL OR GAS					6. DEPTH OF WELL				
7. KIND OF PUMPING					8. KIND OF VALVE				
9. KIND OF PIPE					10. KIND OF CEMENT				
11. KIND OF MUD					12. KIND OF SAND				
13. KIND OF WATER					14. KIND OF SALT				
15. KIND OF GAS					16. KIND OF OIL				
17. KIND OF PUMP					18. KIND OF VALVE				
19. KIND OF PIPE					20. KIND OF CEMENT				
21. KIND OF MUD					22. KIND OF SAND				
23. KIND OF WATER					24. KIND OF SALT				
25. KIND OF GAS					26. KIND OF OIL				
27. KIND OF PUMP					28. KIND OF VALVE				
29. KIND OF PIPE					30. KIND OF CEMENT				
31. KIND OF MUD					32. KIND OF SAND				
33. KIND OF WATER					34. KIND OF SALT				
35. KIND OF GAS					36. KIND OF OIL				
37. KIND OF PUMP					38. KIND OF VALVE				
39. KIND OF PIPE					40. KIND OF CEMENT				
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43. KIND OF WATER					44. KIND OF SALT				
45. KIND OF GAS					46. KIND OF OIL				
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51. KIND OF MUD					52. KIND OF SAND				
53. KIND OF WATER					54. KIND OF SALT				
55. KIND OF GAS					56. KIND OF OIL				
57. KIND OF PUMP					58. KIND OF VALVE				
59. KIND OF PIPE					60. KIND OF CEMENT				
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599. KIND OF PIPE					599. KIND OF CEMENT				
600. KIND OF MUD					600. KIND OF SAND				
601. KIND OF WATER					601. KIND OF SALT				
602. KIND OF GAS					602. KIND OF OIL				
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623. KIND OF PUMP					623. KIND OF VALVE				
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MUDGING AND CEMENTING RECORD

Time casting	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7/8 1915.	20 feet	20 sacks	Direct	Water	Water
2/8 1915.	20 feet	20 sacks	Direct	Water	Water

PLUGS AND ADAPTERS

9/23/60 Rigged cable tool completion rig. Cleaned out to top of
 Cement Plug at 1214'. Had 70' tree all in hole. Ran 1214' of 2-1/2"
 8 to 1222 on production string, set at 1212', from 61 and cemented with
 20 sac - 202 Pozzomix Cement. 200 lb. discovered Rubber Plug at 1212'.
 Swapped down and established communication with annulus, evidenced
 well in casing at 412'. Backed off at 347', laved down with 100 gal.
 and ran 2-7/8 inch and screwed in. Presented up to 1000 psi; held; no
 leak or communication. Drilled out plug from 347' to 1212'.
 9/22/60-9/30/60. Tested with 2500 pressure for 30 minutes. 1212' - 4 ft. 10 holes;
 Ran correlation gamma and perforated 117'-1141' - 4 ft. 10 holes;
 1147'-1159' 2 ft. 8 holes; 1158-1159' 2 ft. 8 holes. on 8' test with
 35 whole. Swapped tree all 3 AM to 6:30 AM on 10/1/60. Tested with
 26,822 gal oil at 12,000 20-40 hand, finished with 700 gal. total.
 29,223 gal oil. 10 Pump Rate 12.9 bbl. Breakdown 2000-1000.
 Max tree pres 24000, Min 25000. Instant Shutin 7500, 2 Min 2000.
 12 min 2000. Flowed back 140 bbl. Cleaned out sand. Flowed
 Swapped back 270 bbl and put on pump, 10/6/60. Had difficulty with
 pump cutting out with sand and gas locking and opened out, swapped
 changed pump several times. Estimated with loss of oil in liner,
 pumps, flowback while installing valve, 625 bbl of tree oil to
 recover, of which 198 bbl still to come-back as of 12/3/60.

First Oil - while Air Drilling 9/11/60.
 2nd Oil - 30' Free Oil found when cleaning out to top of well.
 3rd Oil - Swabbed free oil for 3 hours after penetrating and isolating.
 Total of 9123/60.