

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
NMNM30586

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name	
b. Type of Completion <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____		7. Unit or CA Agreement Name and No.	
2. Name of Operator SOUTHLAND ROYALTY COMPANY E-Mail: CBLAYLOCK@MSPARTNERS.COM		8. Lease Name and Well No. CARRACAS 32-5 24-1	
3. Address 400 W 7TH STREET FORT WORTH, TX 76102		9. API Well No. 30-039-31362-00-S1	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWSW 2610FSL 897FWL 36.965641 N Lat, 107.319504 W Lon At top prod interval reported below Sec 24 T32N R5W Mer NMP At total depth NWSW 2610FSL 897FWL 36.965641 N Lat, 107.319504 W Lon		10. Field and Pool, or Exploratory BASIN DAKOTA BASIN MANCOS 11. Sec., T., R., M., or Block and Survey or Area Sec 24 T32N R5W Mer NMP 12. County or Parish RIO ARRIBA 13. State NM	
14. Date Spudded 08/31/2017		15. Date T.D. Reached 11/20/2017	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 07/02/2018		17. Elevations (DF, KB, RT, GL)* 7340 GL	
18. Total Depth: MD TVD 8953		19. Plug Back T.D.: MD TVD 8891	
20. Depth Bridge Plug Set: MD TVD 8740			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) 7340 GL		22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)	

## 23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J-55	54.5	0	618		475		0	85
17.500	13.375 J55	54.5	0	618		475		0	85
12.250	8.625 N-80	32.0	0	4533		1460		0	70
12.250	8.625 N80	32.0	0	4533		1460		0	70
7.875	5.500 P110	17.0	0	8953		715		4700	0
7.875	5.500 P-110	17.0	4700	8953		715		4700	0

## 24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	8163		2.375	7946	7980			

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) FRUITLAND COAL	3842	4056	8108 TO 8111	0.420	4	OPEN
B) PICTURED CLIFFS	4056	4533	8108 TO 8122	0.420	8	OPEN
C) MANCOS	8108	8206	8119 TO 8122	0.420	4	OPEN
D) DAKOTA	8775	8870	8146 TO 8149	0.420	4	OPEN

## 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8108 TO 8206	2,000 GAL 15% HCL AND 47,001 GAL FW
8146 TO 8155	15% HCL(66 BIOBALLS), 1500 GALS WATER, 314,118 GALS SLICKWATER, 69.2K# .5, 1, 1.5 PPG-100 MESH
8720 TO 8740	CIBP
8775 TO 8873	2500 GAL 15% HCL, 4916 BW, 38900# 100 MESH 73,125# 40/80 HYDROPRO LWC, 27,180# 30/50 CRC

## 28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/02/2018	11/20/2017	12	→	0.0	256.0	236.0			GAS LIFT
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
42/64	200 SI	500.0	→	0	512	472		PGW	

## 28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/02/2018	08/01/2018	24	→	0.0	241.0	30.0			GAS LIFT
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→	0	241	30		PGW	

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #429945 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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DISTRICT III

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28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/02/2018	11/20/2017	12	→	0.0	256.0	236.0			GAS LIFT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas-Oil Ratio	Well Status	
42/64	200	500.0	→	0	512	472		PGW	

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas-Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)  
CAPTURED

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
FRUITLAND COAL PICTURED CLIFFS MANCOS DAKOTA	3842 4056 8108 8775	8206 8870			

32. Additional remarks (include plugging procedure):  
ADDITIONAL PERFORATION RECORD:

8775 - 8870 40 HOLES; CLOSED

FRAC TREATMENT REPORT ATTACHED.

33. Circle enclosed attachments:

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7. Other:     |                       |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #429945 Verified by the BLM Well Information System.  
For SOUTHLAND ROYALTY COMPANY LLC, sent to the Farmington  
Committed to AFMSS for processing by JACK SAVAGE on 09/12/2018 (18JWS0215SE)

Name (please print) CONNIE BLAYLOCK

Title REGULATORY TECH

Signature (Electronic Submission)

Date 08/03/2018

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\***

Additional data for transaction #429945 that would not fit on the form

23. Casing and Liner Record, continued

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Btm (MD)	Stg Cmnt	Sx, Type Cmnt	Slurry Vol	Cement Top	Amt Pulled
7.875	5.200 P-110	17.0	4700	8953		715		4700	0

26. Perforation Record, continued

Perf Interval	Size	No. Holes	Perf Status
8146 TO 8156	0.420	28	OPEN
8153 TO 8156	0.420	4	OPEN
8178 TO 8181	0.420	4	OPEN
8203 TO 8206	0.420	4	OPEN
8775 TO 8789	0.420	14	
8775 TO 8789	0.420	14	
8826 TO 8840	0.420	14	
8826 TO 8840	0.420	14	
8858 TO 8870	0.420	12	
8858 TO 8870	0.420	12	

27. Acid, Fracture, Treatment, Cement Squeeze, etc., continued

Depth Interval	Amount and Type of Material
8775 TO 8873	2500 GAL 15% HCl, 4916 BW, 38900# 100 MESH 73125#40/80 HYDROPRO LWC, 27180# 30/50 CRC

32. Additional remarks, continued





Remarks and Primary Data								
Time	Remarks	Pressure		Rate	Slurry (bbl)	Clean (bbl)	Prop (lb)	Prop Job (lb)
		STP	ANN	Slurry				
11:06	OPEN WELL 10:07 AM 445 PSI	594	0	0.0	0.0	0.0	0	0
11:18	ANNOTATION	394	0	0.8	1.1	0.0	0	0
11:57	ISIP 2203 PSI FG.71	1955	6	0.1	87.5	90.7	0	0
12:00	STAGE PAD	1666	6	5.1	88.6	91.0	0	0
12:16	STAGE .50 100 MESH	4982	6	65.9	1.1	476.0	10000	10000
12:23	STAGE 1.0 100 MESH	4474	0	66.2	16.5	535.0	22200	32500
12:31	STAGE 1.5 100 MESH	4276	6	66.3	25.4	595.0	37000	69200
12:42	STAGE 1.0 40/70 WHITE SAND	4269	6	66.2	87.1	1414.0	60000	130000
1:03	STAGE 1.25 40/70 WITE SAND	4256	0	66.3	1468.5	1414.6	59573	160000
1:26	STAGE 1.5 40/70 WHITE SAND	4526	6	66.1	4.4	4.2	57000	187500
1:38	STAGE 1.25 40/70 WHITE SAND	5200	0	65.7	86.6	82.8	30000	275848
1:45	MARK FLUSH	6002	6	65.4	579.3	192.0	0	0
1:53	ISIP 3149 PSI FG .82	2733	0	0.0	0.0	0.0	0	0
1:53	5 MIN 2607 PSI	2607	0	0.0	0.0	0.0	0	0
1:54	10 MIN 2549 PSI	2549	0	0.0	0.0	0.0	0	0
1:54	15 MIN 2509 PSI	2509	0	0.0	0.0	0.0	0	0
1:55	SHUT INN WELL 2450 PSI	2450	0	0.0	0.0	0.0	0	0
Total					2446.1	4895.3	275773	
Summary								
Max Sly Rate	Avg Sly Rate			Max PSI	Avg Psi	Avg Ann Psi		
66.4	54.1			6535	4003	4		
Slurry (bbl)	Clean (bbl)	Prop (lb)	Clean (gal)	Pump Time				
7758.7	7479.0	288412	314120.0	179				
Customer Authorized Representative				Treater/Service Supervisor				
HENRY VALDEZ				BEN HITCHCOCK				
X				X				
Service Rating: _____ Satisfactory _____ Unsatisfactory								