

DEC 21 2017

Form 3160-4
(August 2007)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

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			5. Lease Serial No. NMNM30586		
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 _____			6. If Indian, Allottee or Tribe Name		
2. Name of Operator SOUTHLAND ROYALTY COMPANY E-Mail: rgrigg@mspartners.com			7. Unit or CA Agreement Name and No.		
3. Address 400 W 7TH STREET FORT WORTH, TX 76102			8. Lease Name and Well No. CARRACAS 32-5 24-1		
3a. Phone No. (include area code) Ph: 817.334.7842			9. API Well No. 30-039-31362-00-X1		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 24 T32N R5W Mer NMP At surface NWSW 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 11/15/2017		15. Date T.D. Reached 11/20/2017 ?	16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 11/20/2017		17. Elevations (DF, KB, RT, GL)* 7340 GL
18. Total Depth: MD 8953 TVD 8953		19. Plug Back T.D.: MD 8891 TVD 8891		20. Depth Bridge Plug Set: MD 8740 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
12.250	8.625 N-80	32.0	0	4533		1460		0	70
7.875	5.200 P-110	17.0	4700	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	7946	7980						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) FRUITLAND COAL	3842		8108 TO 8111	0.420	4	OPEN
B) PICTURED CLIFFS	4056		8119 TO 8122	0.420	4	OPEN
C) MANCOS	8108	8206	8146 TO 8149	0.420	4	OPEN
D) DAKOTA	8775	8870	8153 TO 8156	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
8720 TO 8740	CIBP
8775 TO 8873	2500 GAL 15% HCl, 4916 BW, 38900# 100 MESH 73125#40/80 HYDROPRO LWC, 27180# 30/50 CRC
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
A	11/20/2017	12	→	0.0	256.0	236.0			FLows FROM WELL
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	

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
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

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

ELECTRONIC SUBMISSION #397998 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

NMOCDA

Verify Box 15 above
4

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
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

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:

8178'-8181'; 0.42 DIA, 4 HOLES, OPEN
8203'-8206'; 1.42 DIA, 4 HOLES, OPEN

24 TOTAL HOLES

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 #397998 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 12/14/2017 (18JWS0038SE)

Name (please print) ROBBIE A GRIGGTitle SUPVR REGULATORY REPORTING

Signature _____ (Electronic Submission)

Date 12/13/2017

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 ** REVISED ****

Additional data for transaction #397998 that would not fit on the form

26. Perforation Record, continued

Perf Interval	Size	No. Holes	Perf Status
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	