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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other In-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355.5.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. Jicarilla Contract 451	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Southland Royalty Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P.O. Drawer 570, Farmington, New Mexico 87499		8. FARM OR LEASE NAME Jicarilla 451	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface (K) 1650' FSL & 1750' FWL At top prod. interval reported below At total depth		9. WELL NO. 1	
14. PERMIT NO. _____ DATE ISSUED _____		10. FIELD AND POOL, OR WILDCAT Blanco Mesaverde	
15. DATE SPUDDED 1-29-84		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Section 4, T29N, R3W	
16. DATE T.D. REACHED 2-22-84		12. COUNTY OR PARISH Rio Arriba	
17. DATE COMPL. (Ready to prod.) 3-29-84		13. STATE New Mexico	
18. ELEVATIONS (DF, R&B, RT, GR, ETC.)* 7163' KB		19. ELEV. CASINGHEAD 7151' GL	
20. TOTAL DEPTH, MD & TVD 8700'		21. PLUG, BACK T.D., MD & TVD 7423' 6825'	
22. IF MULTIPLE COMPL., HOW MANY* _____		23. INTERVALS DRILLED BY ROTARY TOOLS 0-8700	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6203'-6244' (Mesaverde)		25. WAS DIRECTIONAL SURVEY MADE Deviational	
26. TYPE ELECTRIC AND OTHER LOGS RUN Induction-SFL Formation Density-Comp Neutron, CBL, Induction Spherically Focused Log		27. WAS WELL CORED NO	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
9-5/8"	32.30# K-55	523.33'	12-1/4"
5-1/2"	17# & 15.5#	7270.89'	7-7/8"
	N-80 & K-55		
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
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30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2-3/8"	6190.38'	---	
31. PERFORATION RECORD (Interval, size and number) Mesaverde - 7 Holes 6203', 6209', 6217', 6222', 6227' 6239', 6244'			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED		
6203'-6244'	Fraced with 41,200 gals 70 Quality Foam and 43,000# of 20/40 sand.		
33.* PRODUCTION			
DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)		WELL STATUS (Producing or shut-in)
---	WELL NOT CAPABLE OF PRODUCTION		SHUT IN
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD
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FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)
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34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)			
TEST WITNESSED BY			
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35. LIST OF ATTACHMENTS			
CURRENTLY EVALUATING UPHOLE POTENTIAL.			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED <u>Esther J. Grayson</u>		TITLE Secretary	
DATE <u>MAR 17 1985</u>		DATE <u>MAR 17 1985</u>	

\*(See Instructions and Spaces for Additional Data on Reverse Side)

NMOCC

FARMINGTON RESOURCE AREA

RV

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## INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on Items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see Item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in Item 22, and in Item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

**Item #28:** 9-5/8" Csg cemented with 324.5 cu.ft. (275 sacks) of Class "B" with 1/4# gel flake per sack and 3% CaCl<sub>2</sub>. Plug down at 11:45 AM 1-30-84. Circ 10 bbls cmt to surface.  
5-1/2" Csg cemented with 196 sacks (245 cu.ft.) of Class "B" 50/50 Poz with 2% gel, .6% D-19 and .5% salt, tailed in with 50n sacks (59 cu.ft.) of Class "B" Neat with 2% CaCl<sub>2</sub>.

37. SUMMARY OF POROSITY ZONES: 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				38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP MEAS. DEPTH TRUE VERT. DEPTH
<b>ESTIMATED</b>					
Ojo Alamo	3255'				
Kirtland	3435'				
Fruitland	3530'				
Pic. Cliffs	3784'				
Lewis	4712'				
Cliff House	5972'				
Menefee	6000'				
Pt. Lookout	6191'				
Gallup	7308'				
Greenhorn	8210'				
Graneros	8251'				
Dakota	8436'				
Morrison	8665'				

SOUTHLAND ROYALTY COMPANY - JICARILLA 451 #1  
ATTACHMENT TO FORM 9-330  
DSTS

- DST #1: 3785'-3865'. Tool opened at 5:35 AM 2-4-84. Tool opened 30 mins, ISIP 60 mins, FF 15 mins, FSIP 120 mins. IP Opnd with weak blow 3" in water, closed with very weak blow 1/2" blow, FF No flow. IHP 1770, IFP 33-47, FHP 1756, FFP 47-47, ISIP 60, FSIP 73-119. Temp 114 deg at 3865'. Sample chamber no press, no gas. 2240 CC drlg mud. Rec 65' drlg mud in DP.
- DST #2: 6168'-6250'. Unable to get packer seat. TOOH with test tools, did not get test.
- DST #3: 6158'-6250'. IF 30 mins, ISI 60 mins, FF 90 mins, FSI 240 mins. IF: Opnd with medium blow (8 oz) increased to 53 psi at 30 mins. FF: open with strong blow (49 psi) with 10-15' flare, decreased to 41 psi at 90 mins, 10' flare. Rec 347' drlg mud. Sampler 91 cu.ft. Gas at 139 psi. Pressures - IHP 3047.9, FHP 2994.7, IFP 133.4-188.7, ISIP 1193.5, FFP 106.7-173.8, FSIP 1278.0
- DST #4: 7298'-7400'. IF opnd with weak blow, gas to surface 4 mins at 400# on 1/4" choke. 15 mins 500#, 30 mins 550#, ISI 60 mins, FF 90 mins. Opnd with moderate blow to strong blow at 200# on 1/4" choke. Gas started decreasing after 30 mins. FLo brkdwn: 5 mins 140#, 15 mins 200#, 30 mins 180#, 60 mins 100#, 90 mins 70#, FSI 4 hrs.
- DST #4 BHP: IHP 3465.7, IFP 637.8 - 800.5, ISIP 1967.7, FFP 392 - 336, FSI 1903.1, FHP 3457.1. BHT 194 deg. Rec 750' GCM
- DST #5: 7543'-7635' (92') IF 30 mins, ISI 60 mins, FF 120 mins, FSI 360 mins. IF opnd with weak blow to strong blow 12.5# on 1/8" bubble hose. Gas to surface in 11 mins 4# on 3/8" choke. FF opened with strong blow 20# on 1/8" choke. INcreased to 33# on 1/4" choke. Press declined after 6 mins on FF 9# on 1/4" choke at end of flow - 120 mins.
- DST #5 BHP: IHP 3845.8, IFP 120-160, FHP 3633.0, FFP 93.4-133.4, ISIP 1469.8, FSIP 2674.4, Temp 200 deg at 7631'. DP Rec 65' of gas cut drlg mud. Sample Chamber: 1.86 cu.ft. gas, 100 CC drlg mud at 310#, pit mud 4.18, Rec at 45 deg. Sampler mud 4.42, Rec at 45 deg.