

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 checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____																											
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. LESVR. <input type="checkbox"/> Other _____																											
2. NAME OF OPERATOR Southland Royalty Company																											
3. ADDRESS OF OPERATOR P. O. Drawer 570, Farmington, NM 87401																											
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) 1865' FNL & 1520' FEL At top prod. interval reported below At total depth																											
14. PERMIT NO. _____ DATE ISSUED _____ U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.																											
5. LEASE DESIGNATION AND SERIAL NO. SF-078872A																											
6. IF INDIAN, ALLOTTEE OR TRIBE NAME																											
7. UNIT AGREEMENT NAME																											
8. FARM OR LEASE NAME Frontier "E"																											
9. WELL NO. #1E																											
10. FIELD AND POOL OR VICINITY Kutz Gallup/ Basin Dakota																											
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 4, T27N, R11W																											
12. COUNTY OR PARISH San Juan																											
13. STATE NM																											
15. DATE SPUDDED 5-24-80																											
16. DATE T.D. REACHED 6-3-80																											
17. DATE COMPL. (Ready for prod.) 12-1-80																											
18. ELEVATIONS (DF, RES. BT, GR, ETC.) * 6155' GR																											
19. ELEV. CASINGHEAD																											
20. TOTAL DEPTH, MD & TVD 6766'																											
21. PLUG BACK T.D., MD & TVD 6724'																											
22. IF MULTIPLE COMPL., HOW MANY * 2																											
23. INTERVALS DRILLED BY ROTARY TOOLS 0'-6776'																											
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) * Glp: 5812' - 5994'																											
25. WAS DIRECTIONAL SURVEY MADE? Deviation																											
26. TYPE ELECTRIC AND OTHER LOGS RUN IES and GR-Density																											
28. CASING RECORD (Report all strings set in well)																											
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31. PERFORATION RECORD (Interval, size and number) Glp: 5812', 20', 28', 33', 38', 43', 48', 53', 58', 77', 86', 5920', 25', 84', 90', 94'. (16 holes)																											
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.																											
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34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold																											
35. LIST OF ATTACHMENTS																											
36. I hereby certify that the foregoing and attached information is true and correct as determined from all available records																											
SIGNED _____ TITLE District Production Manager DATE 2-6-81																											

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

NMOC

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: "Seals 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.)

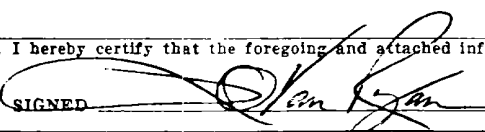
37. SUMMARY OF POROSITY ZONES:				38. GEOLOGIC MARKERS		
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF. CORREL INTERVALS, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL, TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				NAME	TOP	
FORMATION	TOP	BOTTOM	MEAS. DEPTH		TRUE VERT. DEPTH	
Ojo Alamo	930'					
Ermitland	1712'					
Pictured Cliffs	1952'					
Cliff House	3532'					
Pt. Lookout	4404'					
Gallup	5563'					
Greenhorn	6390'					
Graneros	6440'					
Dakota	6550'					

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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. SF-078872A	
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, NM 87401		8. FARM OR LEASE NAME Frontier "E"	
4. LOCATION OF WELL (Report location clearly and in accordance with instructions on reverse side) At surface 1865' FNL & 1520' FEL At top prod. interval reported below At total depth		9. WELL NO. #1E	
14. PERMIT NO. GEOLOGICAL SURVEY FARMINGTON, N. M.		10. FIELD NO. OR SURVEY Kutz Gallup/ Basin Dakota	
15. DATE SPUDDED 5-24-80		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 4, T27N, R11W	
16. DATE T.D. REACHED 6-3-80		12. COUNTY OR PARISH San Juan	
17. DATE COMPL. (Ready to prod.) 12-1-80		13. STATE NM	
18. ELEVATIONS (DF, BEB, RT, GR, ETC.) 6155' GR		19. ELEV. CASINGHEAD	
20. TOTAL DEPTH, MD & TVD 6766'		21. PLUG BACK T.D., MD & TVD 6724'	
22. IF MULTIPLE COMPL., HOW MANY? 2		23. INTERVALS DRILLED BY 0'-6766'	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* DK: 6556' - 6644'		25. WAS DIRECTIONAL SURVEY MADE Deviation	
26. TYPE ELECTRIC AND OTHER LOGS RUN IES and GR-Density		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#	243'	12 1/4"
7"	23#	6766'	8 3/4"
CEMENTING RECORD		AMOUNT PULLED	
120 SX			
495 SX			
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
30. SIZE 2 3/8"		PACKER SET (MD) 6145'	
31. PERFORATION RECORD (Interval, size and number) DK: 6556', 6562', 6568', 6574', 6579', 6586', 6592', 6621', 6644'. (9 holes.)			
32. ACID, SHOT, FRACTURE, GEL, SQUEEZE, ETC.		DEPTH INTERVAL (MD)	
		6556'-6644'	
		102,203 gals 30# gel wtr & 58,300# 20/40 sd.	
33. PRODUCTION			
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing	
WELL STATUS (Producing or shut-in) Shut-in			
DATE OF TEST 12-19-80	HOURS TESTED 3 hrs	CHOKE SIZE 5/8"	PROD'N. FOR TEST PERIOD
FLOW. TUBING PRESS. 201	CASING PRESSURE ---	CALCULATED 24-HOUR RATE ---	OIL—BBL. ---
GAS—MCF. 1725		WATER—BBL. ---	
OIL GRAVITY-API (CORR.)			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold			
TEST WITNESSED BY Tom Wagner			
35. LIST OF ATTACHMENTS			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED 		TITLE District Production Manager	
		DATE 2-6-81	

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

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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.)

37. SUMMARY OF POROUS 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	<div>TOP</div> <div>MEAS. DEPTH</div> <div>TRUE VERT. DEPTH</div>
Ojo Alamo	930'				
Fruitland	1712'				
Pictured Cliffs	1952'				
Cliff House	3532'				
Pt. Lookout	4404'				
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