

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 ☐	GAS WELL ☒	DRY ☐	Other ☐		
b. TYPE OF COMPLETION:		NEW WELL ☒	WORK OVER ☐	DEEP-EN ☐	PLUG BACK ☐	DIFF. RESVR. ☐	Other ☐
2. NAME OF OPERATOR Southland Royalty Company							
3. ADDRESS OF OPERATOR P.O. Drawer 570, Farmington, New Mexico 87499							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface (M) 940' FSL & 790' FWL At top prod. interval reported below At total depth							
5. LEASE DESIGNATION AND SERIAL NO. SF-078872-A							
6. IF INDIAN, ALLOTTEE OR TRIBE NAME							
7. UNIT AGREEMENT NAME							
8. ARM OR LEASE NAME Frontier "B"							
9. WELL NO. 2E							
10. FIELD AND POOL, OR WILDCAT Basin Dakota							
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Section 9, T27N, R11W							
12. COUNTY OR PARISH San Juan				13. STATE New Mexico			
15. DATE SPUDDED 9-22-84		16. DATE T.D. REACHED 10-03-84		17. DATE COMPL. (Ready to prod.) 10-19-84		18. ELEVATIONS (DF, RSB, ET, GR, ETC.)* 6207' KB	
19. ELEV. CASINGHEAD 6195' GL		20. TOTAL DEPTH, MD & TVD 6710'		21. PLUG, BACK T.D., MD & TVD 6663'		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY →		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6501'-6529'		25. WAS DIRECTIONAL SURVEY MADE Deviational		26. TYPE ELECTRIC AND OTHER LOGS RUN CDL/CNL, GR-Induction, GR-Log, Micro-Seismogram Log Cased Hole	
27. WAS WELL CORED No		28. CASING RECORD (Report all strings set in well)					
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
8-5/8"		24#, K-55		227'		12-1/4"	
4-1/2"		11.6#, K-55		6709'		7-7/8"	
CEMENTING RECORD		AMOUNT PULLED					
SEE OTHER SIDE FOR CEMENT		RECORD					
29. LINER RECORD		30. TUBING RECORD					
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
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31. PERFORATION RECORD (Interval, size and number) Dakota - 6 Holes 6501', 6506', 6511', 6516', 6523', 6529'		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		DEPTH INTERVAL (MD)			
				6501'-6529'			
				AMOUNT AND KIND OF MATERIAL USED			
				Fraced with 37,240 gals of 70 Quality Foam and 40,000# of 20/40 sand.			
33.* PRODUCTION							
DATE FIRST PRODUCTION 10-25-84		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or shut-in) Shut-In	
DATE OF TEST 10-25-84		HOURS TESTED 3		CHOKE SIZE 3/4"		PROD'N. FOR TEST PERIOD →	
FLOW. TUBING PRESS. 70		CASING PRESSURE 347		CALCULATED 24-HOUR RATE →		OIL—BBL. ---	
						GAS—MCF. 118	
						WATER—BBL. ---	
						GAS-OIL RATIO ---	
						OIL GRAVITY-API (CORR.) ---	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold						TEST WITNESSED BY Leroy Castleman	
35. LIST OF ATTACHMENTS							
36. I hereby certify that the foregoing and attached information is complete and correct as determined by the undersigned.							
SIGNED Catherine J. Grezger		TITLE Secretary		DATE 11-02-84		ACCEPTED FOR RECORD NOV 16 1984	

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

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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: "Stacks 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: 8-5/8" Casing cemented with 200 sacks (236 cu.ft.) of Class "B" with 1/4# cellophane/sack & 3% CaCl2. Plug down at 8:15 PM 9-22-84. Circ 20 bbls cmt to surf.

4-1/2" Casing cemented as follows: STAGE 1: Pumped 20 bbls gelled water flush followed with 160 sxs (238 cu.ft.) of Class "H" 50/50 Poz with 2% gel, 10% salt, 1/4# celloflake per sack, followed with 50 sacks (60 cu.ft.) of Class "B" neat cmt. Flushed w/28 bbls wtr & 75 bbls mud. Bumped plug with 1500 psi-held good. PD @ 8:10 PM 10-5-84.

37. SUMMARY OF POROUS ZONES: Good circ. STAGE 2: Pumped 20 bbls gelled water flush followed with 242 sxs (406 cu.ft.)

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	TOP	
				MEAS. DEPTH	TRUE VERT. DEPTH
ESTIMATED			of Class "H" 65/35 Poz with 2% gel, 10% salt, 10% Gypseal, 12-1/2# gilsonite per sack, followed with 50 sxs (60 cu.ft.) of Class "B" with 2% CaCl2. Flushed with 34 bbls water & 40 bbls mud. Bumped plug with 2500 psi-held good. PD @ 12:37 AM 10-6-84. Good circ. Bumped bomb. Bumped with 1100 psi and circ 3 hrs. STAGE 3: Pumped 20 bbls gelled water flush followed with 320 sxs (537 cu.ft.) of Class "H" 65/35 Poz with 2% gel, 10% salt, 10% Gypseal, 12-1/2# gilsonite per sack, followed with 50 sxs (60 cu.ft.) of Class "B" with 2% CaCl2. Flushed with 34 bbls water. Bumped plug with 3200 psi-held good. PD @ 4:59 AM 10-6-84. Good circ.		
Ojo Alamo	795'				
Kirtland	950'				
Fruitland	1655'				
Pictured Cliffs	1857'				
Cliff House	3538'				
Point Lookout	4375'				
Gallup	5500'				
Dakota	6495'				