UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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Sundry Notices and Reports on Wel	ls
4. m C. m11	5. Lease Number SF-077874 6. If Indian, All. or
1. Type of Well GAS	Tribe Name
2 Warrands Organism	7. Unit Agreement Name
2. Name of Operator Southland Royalty	
Sodeniand Royaley	8. Well Name & Number
3. Address & Phone No. of Operator	Hanks #16E
PO Box 4289, Farmington, NM 87499 (505) 326-9700	9. API Well No.
4. Location of Well, Footage, Sec., T, R, M	10. Field and Pool
1520'FNL, 1725'FWL, Sec 6, T-27-N, R-9-W, NMPM	Basin Dakota 11. County and State San Juan Co, NM
12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE	, REPORT, OTHER DATA
Type of Submission Type of Ac x Notice of Intent Abandonment	Change of Plans
x Notice of Intent Abandonment x Recompletion	New Construction
Subsequent Report x Plugging Back	Non-Routine Fracturing
Casing Repair	_ Water Shut off
Final Abandonment Altering Casing Other -	_ Conversion to Injection
13. Describe Proposed or Completed Operations	
It is intended to plugback the wellbore from the coal formation according to the attached diagrams.	Dakota to the Fruitland procedure and wellbore
RECEIVI AUG-2 1993	DELMED BLM 2: 40
OIL CON. DIN	1. ₹ 5
14. I hereby certify that the foregoing is true and	correct.
Signed Lany Madhue (KAS) Title Regulatory A	<u>ffairs</u> Date 7/15/93
(This space for Federal or State Office use) APPROVED BYTitle	Date
CONDITION OF APPROVAL, if any:	APPROVED
(3)	AUL 8 9 1993
	A DISTRICT MANAGER

NMOCD

TATE OF NEW MEXICO

440

P. O. BOX 2048

form C-102 Bevised 10-1-7

CANTA FE. NEW MEXICO 87501 . MO MINERALS LIEPARTMENT must be from the cuter boundaries of the Section Well No. Cperator 16E HANKS SOUTHLAND ROYALTY COMPANY County Township Range Unit Letter San Juan 27N 6 Actual Footage Location of Well: West 1725 North feet from the line line and feet from the Dedicated Acres 4,33 Ground Level Elev. Producing Formation 320 Basin Fruitland Coal Acres 6350 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation ☐ No Yes If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. **CERTIFICATION** eby certify that the inform Peyyy Bradfield 17251 Regulatory Representative Southland Royalty Company Sec. Date AUG - 2 1993 0 OIL CON. DIV DIST 3 Date Surveyed

2000

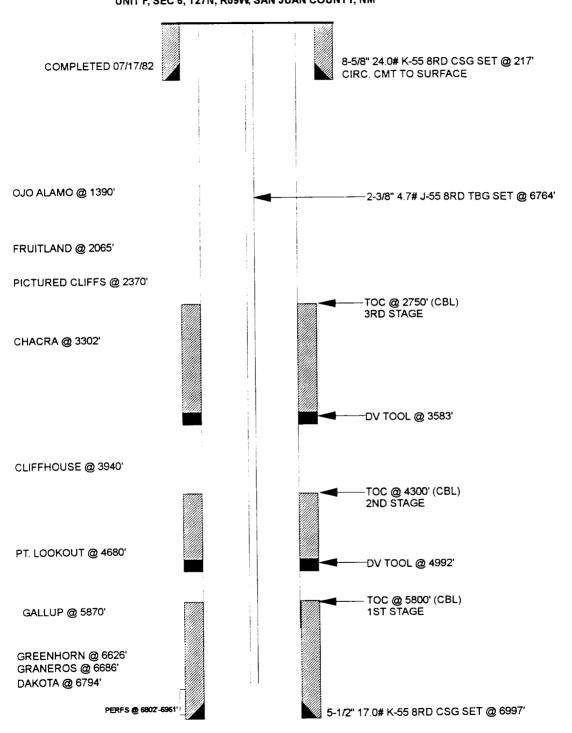
1000

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HANKS #16E

CURRENT

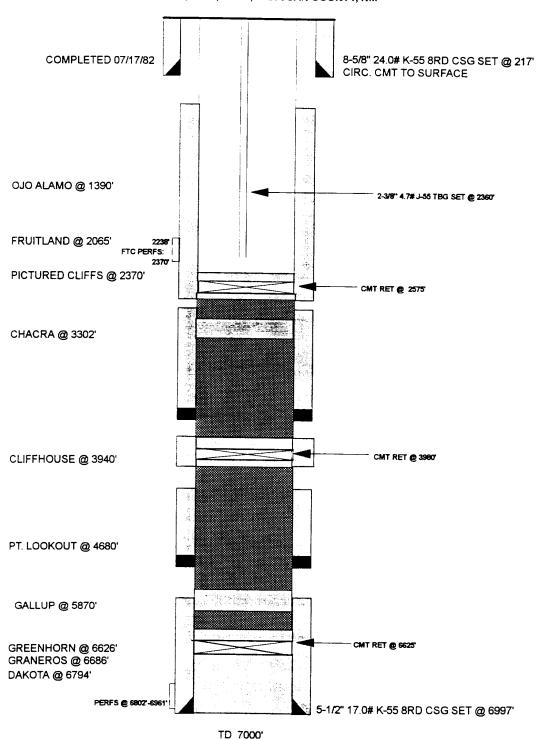
BASIN DAKOTA UNIT F, SEC 6, T27N, R09W, SAN JUAN COUNTY, NM



HANKS #16E

PROPOSED

BASIN DAKOTA UNIT F, SEC 6, T27N, R09W, SAN JUAN COUNTY, NM



Hanks # 16E Recommend Recompletion Procedure Unit F Section 6 T27N R9W

- 1. Test rig anchors and repair if necessary. Install 2-400 bbl frac tanks on location and fill with 2% KCI water. Filter all water to 25 microns.
- 2. MOL and RU. Comply to all NMOCD, BLM and MOI rules & regulations. Hold safety meeting, ND wellhead. NU BOP. Test operation of rams. NU two relief lines.

P&A Procedure

- NOTE 24 Hours before activity, notify BLM (326-6201) & NMOCD (327-5344).
 - Cement volumes are 100% excess outside pipe and across perforations & 50% excess inside pipe.
- 3. TOOH w/ 6764' of 2-3/8" tbg. Visually inspect for and replace all bad jts. TIH w/ 5-1/2" 17# csq scraper and 4-3/4" bit and CO to 6650'. Load hole with water. TOOH.
- 4. TIH w/ 2-3/8" tubing & set 5-1/2" cmt ret @ 6625'. Plug # 1 from 6997' 6575' w/ 76 sxs cmt (70 sxs below ret, 6 sxs on top of ret). Follow cmt with 25 bbls water. Pull tbg up 3 stands and reverse circ 2 tbg volumes.
- 5. Pump approx 23 bbls mud: 15# sodium bentonite w/ non fermenting polymer, 9# gal weight & 50 sec/qt vis or greater to fill hole from 6575' to 5920'. PU to 5920'. Plug # 2 from 5920' to 5820' w/ 17 sxs cmt. Follow w/ 23 bbls water. Pull tbg up 3 stands and reverse circ 2 tbg volumes. WOC.
- 6. Pump approx 64 bbls mud: 15# sodium bentonite w/ non fermenting polymer, 9# gal weight & 50 sec/qt vis or greater to fill hole from 5820' to 3990'. TOOH. RU wireline and perf 4 sq holes @ 3990' (50' below the top of the Cliff House).
- 7. TIH w/ 5-1/2" cmt ret and set @ 3980'. Plug # 3 from 3990' 3890' w/ 47 sxs cmt (below ret w/ 32 sxs cmt, displaced on top of ret w/ 15 sxs). Follow cmt w/ 15 bbls water. Pull tbg up 3 stands and reverse circ 2 tbg volumes.
- 8. Pressure test csg to 500 psi. If pressure test fails locate holes and use cmt ret for Chacra plug. Contact Production Engineering if holes are above 2600'.
- 9. Pump approx 18 bbls mud: 15# sodium bentonite w/ non fermenting polymer, 9# gal weight & 50 sec/qt vis or greater to fill hole from 3890' to 3352'.
- 10. TIH to 3352' (50' below top of CH). Plug # 4 from 3352' 3252' w/ 17 sxs cmt. Follow cmt with 13 bbls water. Pull 2 stands and reverse circ 2 tbg volumes.

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- 11. WOC. POH to 2000'. RIH to 3252'. Tag Plug # 4. Pump approx 23 bbls mud: 15# sodium bentonite w/ non fermenting polymer, 9# gal weight & 50 sec/qt vis or greater to fill hole from 3252' to 2600'.
- 12. TOOH w/ tbg. Perf 4 sq holes @ 2600'. TIH w/ 5-1/2" cmt ret and set @ 2575'. Open bradenhead and establish circulation. After circulation is established, pump 370 sxs below retainer, and displace 6 sxs on top of retainer. WOC.

STAGE ONE

- 13. Circ hole w/ 2% KCL water. RU wireline and run CBL CCL GR from 2400' 1300'. If bond appears inadequate, rerun CBL with 1000 psi on csg. Pressure test csg to 3000 psi.
- 14. RU wireline and perf the following coal interval w/ 4" HSC w/ 9.8 gram charges @ 4 SPF (correlate depths to neutron density log).

2348' - 2370'

Total: 22 feet: 88 holes

LOWER COAL

- 15. RU hydraulic tree saver. RU treatment company for frac. Hold safety meeting with <u>all</u> personnel. Pressure test surface lines to 4000 psi. Fracture treat lower coal according to attached schedule w/ 70Q foam at 30 BPM with 80,000 lbs of 20/40 mesh Arizona sand. Flush with 51 bbls gel. Estimated treating pressure is 1600 psi. <u>MAXIMUM PRESSURE IS LIMITED TO 3000 PSI!</u> Monitor braden head pressure during frac. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.
- 16. SI well for 3 hours for gel break.
- 17. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
- 18. Re-fill 400 bbl frac tank with 2% KCl water and filter to 25 microns.
- 19. When well ceases to flow, TIH w/ 2-3/8" tbg and csg scraper to 2300'. TOOH. RU wireline and set 5-1/2" RBP @ 2290'.
- 20. RU tree saver & pressure test csg & RBP to 3000 psi. RD tree saver.

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UPPER COAL

21.	RU wireline	and	perf	the	following	coal	interval	w/	4"	HSC	w/	9.8	gram	charges	@	4	SPF
	(correlate de	epths	to ne	eutro	on density	log).									_		

2238' - 2254'

Total: 16 feet: 64 holes

- 22. RU hydraulic tree saver. RU treatment company for frac. Hold safety meeting with <u>all</u> personnel. Pressure test surface lines to 4000 psi. Fracture treat upper coal according to attached schedule w/ 70Q foam at 30 BPM with 50,000 lbs of 20/40 mesh Arizona sand. Flush with 48 bbls gel. Estimated treating pressure is 1800 psi. <u>MAXIMUM PRESSURE IS LIMITED TO 3000 PSI!</u> Monitor backside and braden head pressures during frac. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.
- 23. SI well for 3 hours for gel break.
- 24. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
- 25. When well ceases to flow, TIH w/ 2-3/8" tbg and retrieving head and clean out upper zone until sand flow stops. Take Pitot gauge before drilling out BP. Retrieve BP set @ 2290' and TOOH.
- 26. TIH w/ 2-3/8" tbg w/ F nipple 1 jt off bottom and expendable check on bottom and CO to PBTD(2500'). PU tbg and land tbg string @ 2360'.
- 27. ND BOP and NU independent wellhead. Pump off check. <u>Take final Pitot gauge and gas & water samples.</u> Rig down & release rig.

	Approve:					
	•••	J. A. Howieson				
VENDORS:						
Wireline:	Petro	326-6669				
Fracturing:	Western	327-6222				
Tree Saver	WIT	599-5609				
KAS:kas						