UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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ıa.	TYPE OF WORK DRILL	5.	LEASE NUMBER SF-077874
lb.	TYPE OF WELL GAS	6.	IF INDIAN, ALL. OR TRIBE NAME
2.	OPERATOR SOUTHLAND ROYALTY CO.	7.	UNIT AGREEMENT NAME
3.	ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499		FARM OR LEASE NAME HANKS WELL NO.
	0, 133		230
4.	LOCATION OF WELL 1460'S 855'W	1	FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL SEC. T. R. M OR BLK.
			SEC. 7 T27N R09W NMPM
14.	DISTANCE IN MILES FROM NEAREST TOWN 10 MILES FROM BLOOMFIELD	12.	COUNTY 13. STATE SAN JUAN NM
15.	DISTANCE FROM 16. ACRES PROPOSED LOCATION 855' TO NEAREST PROPERTY OR LEASE LINE.	SIN	LEASE 17. ACRES ASSIGNED TO WELL 323.36
18.	PROPOSED LOCATION TO NEAREST WELL DR. 300' COMPL., OR APPLIED FOR ON THIS LEASE	2104	DEPTH 20. ROTARY OR CABLE TOOLS ROTARY This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.
21.	ELEVATIONS (DF, FT, GR, ETC.)	. 2:	2. APPROX. DATE WORK WILL START
23.	PROPOSED CASING AND	CEME	NTING PROGRAM
	*SEE OPERATIONS P	LAN	MAY2 61299
24.	AUTHORIZED BY REGULATORY AFFAIRS	Q.P	OIL CON. DIV. DIST. 35-6-89 DATE
PERMI	IT NO. APPROVA	L DA'	APPROVED
	OVED BY TITLE		AS AWENDED
			— MAY 22 1989
NOTE:	THIS FORMAT IS ISSUED IN LIEU OF US	S BLI	M FORM 3160-3. AREA MANAGER

DATE: MAY 5,1989

Well Name: 230 HANKS

1460'S 855'W

Sec. 7 T27N R09W BASIN FRUITLAND COAL SAN JUAN NEW MEXICO Elevation 6190'GL

Formation tops: Surface- NACIMIENTO

Ojo Alamo- 1168 Kirtland- 1310

Fruitland- 1855

Fruitland Coal Top- 1988

Fruitland Coal Base- 2102

Intermediate TD- 1968

Total Depth- 2104

Pictured Cliffs- 2106

Logging Program: Mud logs from intermediate to total depth.

Mud Program: Interval 0 - 200 200 - 1968 1968 - 2104	Type Spud Non-dispersed Formation Water		Visc. 40-50 30-60	Fl. Loss no control no control no control
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Casing Program:	Hole Size	Depth Interv	al Csg. Size	Weight	Grade
	12 1/4"	0 - 200	9 5/8"	32.3#	H - 40
	8 3/4"	0 - 1968	3 7"	20.0#	K-55
	6 1/4"	1918 - 2104	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2104	2 7/8"	6.5#	J-55

Float Equipment: 9 5/8" surface casing - saw tooth guide shoe.

7" intermediate casing - guide shoe and self-fill insert float valve. Three centralizers run every other joint above shoe. Run insert float one joint above the guide shoe.

5 1/2" production casing - float shoe on bottom and a pre-drilled liner run to the 7" casing with a minimum 50' overlap. Liner hanger is a double slip grip type.

Wellhead Equipment: 9 5/8" x 7" x 2 7/8" x 11" 3000 psi xmas tree assembly.

9 5/8" surface casing - cement with 106 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (125 cu ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

7" intermediate casing - lead with 63 sacks of 65/35 class "B" poz with 6% gel, 2% calcium chloride and 1/2 cu.ft. Perlite/sack (10.3 gallons of water/sack) tail with 100 sacks of class "B" with 2% calcium chloride. 240 lu ft. of slurry, 100% excess to cover the Ojo Alamo. Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1500 psi for 30 minutes.

5 1/2" liner - do not cement.

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Review 1-1-29

DISTRICT I P.O. Box 1980, Hobbs, NIM 882/10

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III

DISTRICT II

1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Drawer DD, Artesia, NM \$1210

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section Well No Southland Royalty Company Hanks (SF-077874) 230 Unit Letter Carriera Township Range County L 27 North 9 West San Juan NMPM Actual Footage Location of Well: 1460 feet from the South 855 line and feet from the Rest Ground level Elev. Producing Formation Provi 6190 * Fruitland Coal 323.36_{Acres} Basin 1. Outline the acreage dedicated to the subject well by colored peacel or hackers marks on the plat below. 2. If more then 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 interest of all owners been consolidated by communication, unstitution, force-posting, etc.? Yes If answer is "yes" type of consolidation If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse ade of this form if necessary. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unstitution, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION Reissued to show I hereby certify that the information moved location best of my inculadge and belief. uld Peggy Bradfield Printed Name Southland Royalty Co Regulatory Affairs Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and <u>855'</u> belief. 4-4-89 Date Surveyed Neal 889710 SUN 330 660 990 1320 1650 1900 2310 2640 2008 1500 1000 500 0

