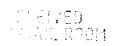
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT



	APPLICATION FOR PERMIT TO DRIL	L, D	EEPEN, OR PLUG	BACK 54 54 5: 53
la.	TYPE OF WORK DRILL			TTTTTTEATENTEESEELE AT 6. A EMERGICA, NOM TELACO
lb.	TYPE OF WELL GAS	6.		. OR TRIBE NAME
2.	OPERATOR SOUTHLAND ROYALTY CO.	7.	UNIT AGREEMEN	T NAME
3.	ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 7499		FARM OR LEASE EAST WELL NO. 104	NAME
4.	LOCATION OF WELL 810'S 1375'W OIL CO. DIST. 3		SEÇ. T. R. M (UITLAND COAL
14.	DISTANCE IN MILES FROM NEAREST TOWN 5 miles from Aztec	12.	COUNTY SAN JUAN	13.STATE NM
15.	DISTANCE FROM 16. ACRES PROPOSED LOCATION 810' TO NEAREST PROPERTY OR LEASE LINE.	S IN 256		ES ASSIGNED TO WELL 321.06
18.	DISTANCE FROM 19. PROPORTION 19. PRO	2535 7 #	DEPTH 20. ROTA This action is subject to brocedural review pursual and appeal pursuant to 4	nt to 43 CFR 3166.3
21.	ELEVATIONS (DF, FT, GR, ETC.) 6084'GL	22	2. APPROX. DATE	E WORK WILL START
23.	PROPOSED CASING AND (CEMEN	NTING PROGRAM	
	*SEE OPERATIONS PI	SU	IILLING OPERATIONS AUTH BIECT TO COMPLIANCE W GENERAL REQUIREMENTS"	ITH ATTACHED
24.	AUTHORIZED BY: REGULATORY AFFAIRS	e e		8-23-89 DATE
PERMI	T NO APPROVAL	L DAT	קי	APPROVED S AMENDED
APPRO	OVED BYTITLE	<u>-</u>	DATE<	SEP 1 3 1989
NOTE:	THIS FORMAT IS ISSUED IN LIEU OF US	BLM	FORM 3160-AP	FA MANAGER

DOCMA

Submit to Appropriate
District Office
Size Lease - 4 comes
For Lease - 3 comes

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Ariena, NM 88210
DISTRICT III

WELL LOCATION AND ACREAGE DEDICATION PLAT

perator				Loss					
೨out	hland H	Royalty (Ea	st (S	SF-077652	2)		Well No.
is Letter	Section	Townstep		Range			C	MINTY	104
Dal Footage Loc	23		North	12	West	NM	1	•	Juan
ಕ10		South							
ama level Elev.	feet from the	odocing Formation	line a	Pool	13	75 feet fr	om the	West	line
5 084 *		ruitland	Coal	1	Basin				Dedicated Acress: 321.06
l. Outline		dicated to the subje							A a
3. If more unstance if answer this form:	than one issue tion, force-pools Yes 18 "no" list the c	No Where and tract de	tip is dedicated to if answer is "yes' scriptions which is	the well, have the type of consolidate actually been	m interest of a mica connutidated.	ii owners been con	antidate	d by comm	uritization,
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DATE: SEP 8,1989

Well Name: 104 EAST

Sec. 23 T31N R12W SAN JUAN NEW MEXICO

810'S 1375'W

BASIN FRUITLAND COAL Elevation 6084'GL

Formation tops: Surface- NACIMIENTO

Ojo Alamo- 799 Kirtland- 841 Fruitland- 2171

Fruitland Coal Top- 2265

Fruitland Coal Base- 2525

Total Depth- 2535

Pictured Cliffs- 2565

Logging Program: Mud logs from 2171 to total depth.

Mud Program: Interval Type Weight Visc. Fl. Loss 0 - 200 Spud 8.4 - 8.940-50 no contro 200 - 2535 Non-dispersed 8.4 - 9.5 30-60 no contro.

Casing Program: Hole Size Depth Interval Csg. Size Weight Grade 12 1/4" 0 - 200 8 5/8" 24.0# K-407 7/8" 0 - 25355 1/2" 15.5# K-55 Tubing Program: 0 - 25352 3/8" 4.7# J-55

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

5 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe.

Wellhead Equipment: 8 5/8" x 5 1/2" x 2 3/8" x 11" 3000 psi xmas tree assemble

Cementing:

8 5/8" surface casing - cement with 140 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (165 cu ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

5 1/2" production casing - lead with 251 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. 602 cu 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.

