submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

5. **Lease Number**
NM-4456

1. **Type of Well**
GAS

6. **If Indian, All. or Tribe Name**

7. **Unit Agreement Name**

2. **Name of Operator**
SOUTHLAND ROYALTY COMPANY

8. **Well Name & Number**
Cat Draw #1

3. **Address & Phone No. of Operator**
PO Box 4289, Farmington, NM 87499 (505) 326-9700

9. **API Well No.**
30-039-20121

4. **Location of Well, Footage, Sec., T, R, M**
1040'FSL, 1040'FWL, Sec.4, T-30-N, R-5-W, NMPM

10. **Field and Pool**
Basin Dakota

11. **County and State**
Rio Arriba Co, NM

12. **CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA**

Type of Submission	**Type of Action**	
_X_ Notice of Intent	_X_ Abandonment	___ Change of Plans
	___ Recompletion	___ New Construction
___ Subsequent Report	___ Plugging Back	___ Non-Routine Fracturing
	___ Casing Repair	___ Water Shut off
___ Final Abandonment	___ Altering Casing	___ Conversion to Injection
	___ Other -	

13. **Describe Proposed or Completed Operations**

It is intended to plug and abandon the subject well according to the attached procedure and wellbore diagram.

RECEIVED
FEB - 6 1995
OIL CON. DIV.
DIST. 3

14. **I hereby certify that the foregoing is true and correct.**

Signed [signature] (ROS7)Title Regulatory Affairs Date 1/16/95

(This space for Federal or State Office use)
APPROVED BY _____ Title _____ Date APPROVED AS AMENDED
CONDITION OF APPROVAL, if any:

FEB 01 1995
DISTRICT MANAGER

NMOCD

PERTINENT DATA SHEET

WELLNAME:	Cat Draw #1	**DP NUMBER:**	7920
		PROP. NUMBER:	0020618
WELL TYPE:	Basin Dakota	**ELEVATION:**	GL: 6380'
			KB: 6393'
LOCATION:	1040' FSL 1040' FWL SW Sec. 4, T30N, R5W Rio Arriba County, New Mexico	**INITIAL POTENTIAL:**	AOF 792 MCF/D
		SICP: May, 1993	1661 PSIG
OWNERSHIP:	GWI: 25.000000% NRI: 21.875000%	**DRILLING:**	SPUD DATE: 07-19-68 COMPLETED: 08-19-68 TOTAL DEPTH: 8025' PBTD: 7890' COTD: 7890'

CASING RECORD:

HOLE SIZE	SIZE	WEIGHT	GRADE	DEPTH	EQUIP.	CEMENT	TOC
15-1/4"	13-3/8"	48.0#		306'	-	300 sx	surface
12-1/4"	9-5/8"	36.0#		3425'	-	300 sx	2405' (75%)
8-3/4" & 7-7/8"	4-1/2"	11.6#		8024'	DV Tool @ 5705' Float Collar @ 8001'	200 sx 175 sx	4950' (75%) 7780' (CBL)
Tubing	2-3/8" EUE	4.7#	J-55	7863'			

254 jts 2-3/8" EUE, 4.7#, J-55, tbg set at 7863'.

FORMATION TOPS:

Nacimiento	1205'	Mesaverde	5293'
Ojo Alamo	2395'	Gallup	6666'
Kirtland	2610'	Dakota	7751'
Fruitland	3028'		
Pictured Cliffs	3178'		

LOGGING: CBL, TL, I-GR, FDC

PERFORATIONS 7780' - 98', w/4 SPF, 7844' - 50', 7860' - 66', w/2 SPF, 7900' - 30', w/4 SPF, Total 216 holes.

STIMULATION: 7780' - 7866': Treated w/64,170 gal of treated wtr and 40,000# 40/60 sand.

7900' - 7930': Treated w/55,070 gal of wtr and 40,000# 40/60 sand, tailed w/4,000# 20/40 sand.

WORKOVER HISTORY: Nov. 1982: LD production string. TIH w/2-3/8" wrk string & csg scraper. CO to 7890'. Set pkr @ 4650' and pressure tested backside to 1500 psi. Reset pkr @ 7765' & pressure backside to 550 psi. Reset pkr below perfs @ 7889'. Swab tbg to 3500', wouldn't swab down. Backside flowing. Set drillable BP @ 7890'. Pressure tested to 1500 psi below pkr. Land 254 jts 2-3/8" EUE, 8rd, tbg @ 7863'. Swabbed fluid to 7855'. Shut-in for pressure build up.

PRODUCTION HISTORY:	Gas	Oil
Cumulative as of Oct. 94:	321.1 MMcf	0 MBbl
Current Rate:	0 Mcfd	0 Bopd

DATE OF LAST PRODUCTION:	Gas	Oil
Sept., 1992	0.43 Mcf/D	0 bbl/D

PIPELINE: NWPC

PLUG & ABANDONMENT PROCEDURE

1-11-95

Cat Draw #1
Basin Dakota
SW Section 4, T-30-N, R-05-W
Rio Arriba Co., New Mexico

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.

1. Install and/or test rig anchors. Prepare blow pit. Comply to all NMOCD, BLM and Meridian safety rules and regulations.

2. MOL and RU daylight pulling unit. Blow well down; kill with water if necessary. ND wellhead and NU BOP and stripping head; test BOP.

3. POH and tally 2-3/8", 4.7#, tubing (254 jts at 7863', SN @ 7863'), visually inspect. If necessary, PU 2" workstring. PU 4-1/2" casing scraper or wireline gauge ring and round trip to 7730'.

4. **Plug #1 (Dakota Perforations, 7890' - 7701'):** PU and RIH with a 4-1/2" cement retainer and set at 7730'; pressure test tubing to 1000#. Establish rate into Dakota perfs. Mix and pump 30 sx Class B cement, squeeze 24 sx below retainer into Dakota perforations and spot 6 sx above the retainer to 7701'. POH to 6800'. Load well with water and circulate clean. Pressure test 4-1/2" casing to 500#. POH with setting tool.

5. **Plug #2 (Gallup top, 6716' - 6616'):** Perforate 4 squeeze holes at 6716'. If casing pressure tested, then establish rate into squeeze holes. PU 4-1/2" cement retainer and RIH; set at 6666'. Establish rate into squeeze holes. Mix and pump 64 sx Class B cement, squeeze 52 sx cement outside casing and leave 12 sx cement inside 4-1/2" casing from 6716' to 6616'. POH to 5343'.

6. **Plug #3 (Mesaverde top, 5343' - 5243'):** Mix 12 sx Class B cement and spot a balanced plug inside casing from 5343' to 5243' over Mesaverde top. POH with tubing. Pressure test casing to 500#.

7. **Casing Cut:** RIH with wireline and locate casing collars from 3450' to 3300'. Perforate 4-1/2" casing at 3475'. Establish circulation to surface out 9-5/8" intermediate valve; circulate annulus clean. ND BOP and tubing head. Weld slip on collar on 4-1/2" casing. RIH with casing shot and shoot off 4-1/2" casing at approximately 3400'. NU 10" BOP and RU casing crew. POH and LD 4-1/2" casing.

8. **Plug #4 (4-1/2" Casing stub & 9-5/8" casing shoe, 3475' - 3340'):** PU 9-5/8" cement retainer and RIH; set at 3390' or 10 ' above casing stub. Mix and pump 70 sxs Class B cement, squeeze 51 sx cement below retainer over 4-1/2" casing stub and leave 19 sx cement above retainer. POH with tubing and LD setting tool. Pressure test 9-5/8" casing to 500#.

PLUG & ABANDONMENT PROCEDURE

Cat Draw #1
Basin Dakota
SW Section 4, T-30-N, R-05-W
Rio Arriba Co., New Mexico

9. **Plug #5 (Pictured Cliffs and Fruitland tops, 3228' - 2978'):** RIH with open ended tubing to 3228'. Mix 111 sx Class B cement and spot a balanced plug inside casing from 3228' to 2978' over Pictured Cliffs and Fruitland tops. POH to 2660'.

10. **Plug #6 (Kirtland top, 2660' - 2560'):** Mix 56 sx Class B cement and spot a balanced plug inside casing from 2660' to 2560' over Kirtland top. POH with tubing. Pressure test 9-5/8" casing to 500#.

11. **Plug #7 (Ojo Alamo top, 2445' - 2345'):** Perforate 6 squeeze holes at 2445' through 9-5/8" casing. If casing tested, establish rate into squeeze holes, then RIH with open ended tubing to below squeeze holes. Mix and spot 109 sx Class B cement inside casing; POH above cement and squeeze 53 sx cement outside casing. If casing did not test then PU 9-5/8" packer or cement retainer and do an inside/outside squeeze over the Ojo Alamo top. POH; WOC and tag cement if necessary. POH with tubing and LD packer or setting tool. Pressure test casing to 500#.

12. **Plug #8 (Nacimiento top, 1255' - 1155'):** Perforate 6 squeeze holes at 1255' through 9-5/8" casing. If casing tested, establish rate into squeeze holes, then RIH with open ended tubing to below squeeze holes. Mix and spot 109 sx Class B cement inside casing; POH above cement and squeeze 53 sx cement outside casing. If casing did not test then PU 9-5/8" packer or cement retainer and do an inside/outside squeeze over the Ojo Alamo top. POH; WOC and tag cement if necessary. POH and LD tubing.

13. **Plug #8 (Surface):** Perforate 4 squeeze holes at 356'. Establish circulation out bradenhead valve. Mix approximately 245 sx Class B cement and pump down 9-5/8" casing, circulate good cement out bradenhead valve. Shut in well and WOC.

14. ND BOP and cut off casing below surface casing flange. Install P&A marker with cement to comply with regulations. RD, Move off location, cut off anchors and restore location.

Recommended: _____
Operations Engineer

Approval: _____
Production Superintendent

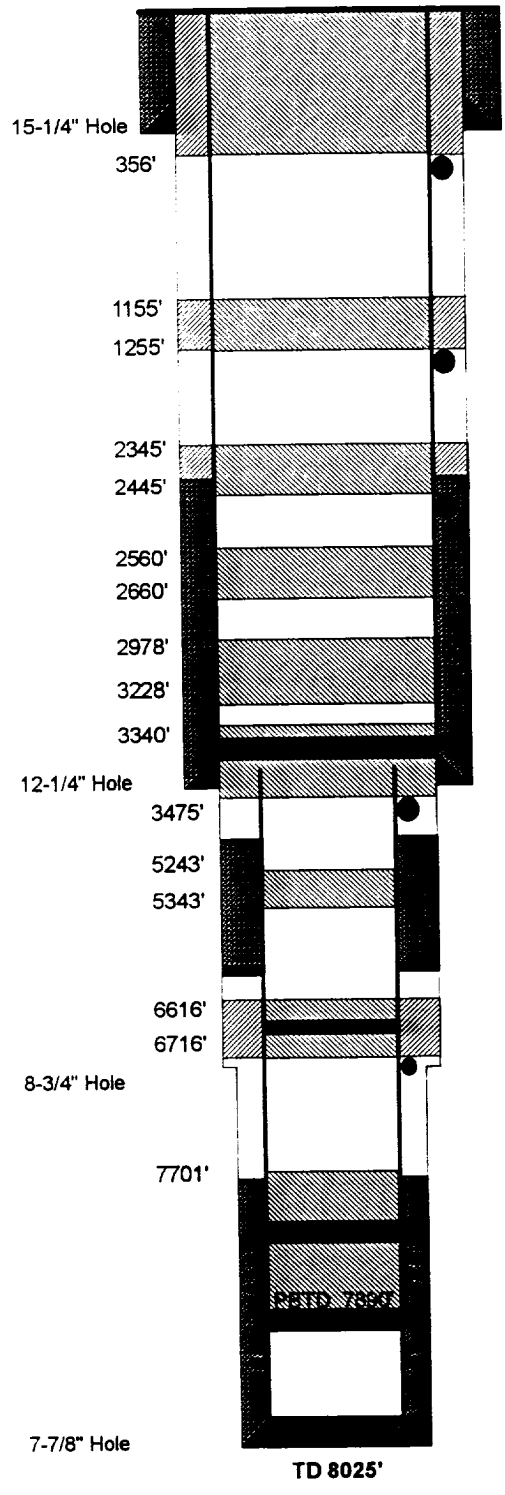
CAT DRAW #1

PROPOSED P & A

Basin Dakota

SW Sec. 4, T-30-N, R-5-W, Rio Arriba County, NM

Today's Date: 1/11/95
Spud: 7/19/68
Completed: 8/19/68



Nacimiento @ 1205'

Ojo Alamo @ 2395'

Kirtland @ 2610'

Fruitland @ 3028'

Pictured Cliffs @ 3178'

Mesaverde @ 5293'

Gallup @ 6666'

Dakota @ 7751'

Plug #9: 356' - Surface', Cmt w/245 sx Class B cmt

13-3/8", 48.0#, Csg set @ 306', Cmt w/300 sx (Circulated to Surface)

Perforate @ 356'

Plug #8: 1255' - 1155', Cmt w/109 sx cmt, 53 sx outside csg and 56 sx inside csg

Perforate @ 1255'

Plug #7: 2445' - 2345', Cmt w/109 sx cmt, 53 sx outside csg and 56 sx inside csg

Top of Cmt @ 2405' (Calc, 75%)

Perforate @ 2445'

Plug #6: 2660' - 2560', Cmt w/56 sx Class B cmt

Plug #5: 3228' - 2978', Cmt w/111 sx Class B cmt

Plug #4: 3475' - 3340', Cmt w/70 sx cmt, 51 sx below retainer and 19 sx above

Cement Rt @ 3390'
Cut 4-1/2" csg @ 3400'

9-5/8", 36.0#, Csg set @ 3425', Cmt w/300 sx

Perforate @ 3475'

Top of Cmt @ 4958' (Calc, 75%)

Plug #3: 5343' - 5243', Cmt w/12 sx Class B cmt

DV Tool @ 5705'
Cmt w/200 sx

Cement Rt @ 6666'

Perforate @ 6716'

Plug #2: 6716' - 6616', Cmt w/64 sx cmt, sqz 52 sx outside csg and 12 sx inside

Plug #1: 7890' - 7701', Cmt w/30 sx cmt, 24 sx below CR and 6 sx above

Top of Cmt @ 7780' (CBL)

Cement Retainer @ 7730'

Dakota Perforations:
7780' - 7930', Total 216 Holes

Bridge Plug @ 7890'

4-1/2", 11.6#, Csg set @ 8024', Cmt w/175 sx

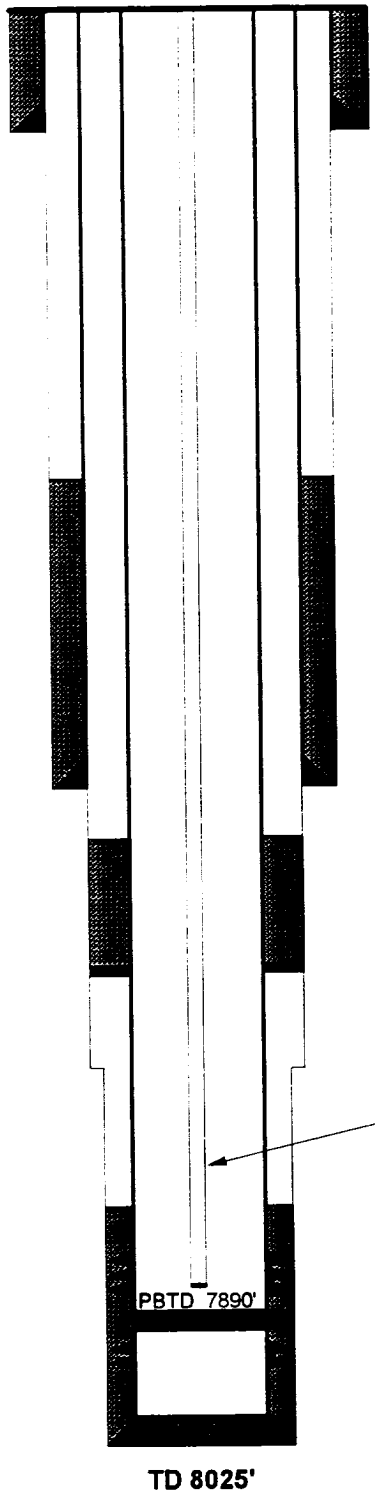
CAT DRAW #1

CURRENT

Basin Dakota

SW Sec. 4, T-30-N, R-5-W, Rio Arriba County, NM

Today's Date: 1/11/95
Spud: 7/19/68
Completed: 8/19/68



15-1/4" Hole

13-3/8", 48.0#, Csg set @ 306',
Cmt w/300 sx (Circulated to Surface)

Nacimiento @ 1205'

Ojo Alamo @ 2395'

Top of Cmt @ 2405' (Calc, 75%)

Kirtland @ 2610'

Fruitland @ 3028'

Pictured Cliffs @ 3178'

12-1/4" Hole

9-5/8", 36.0#, Csg set @ 3425',
Cmt w/300 sx

Top of Cmt @ 4958' (Calc, 75%)

Mesaverde @ 5293'

DV Tool @ 5705'
Cmt w/200 sx

Gallup @ 6666'

8-3/4" Hole

Changed Drill bits from 8-3/4" to 7-7/8" @ 7347'

254 jts 2-3/8", 4.7#, EUE, 8rd, J-55, tbg @ 7863',
(SN @ 7863')

Dakota @ 7751'

Top of Cmt @ 7780' (CBL)

Dakota Perforations:
7780' - 7930, Total 216 Holes

Bridge Plug @ 7890'

7-7/8" Hole

4-1/2", 11.6#, Csg set @ 8024',
Cmt w/175 sx

TD 8025'