UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

		5.	Lease Number SF-078134		
. Type of Well GAS		6.	If Indian, All. or Tribe Name		
		7.	Unit Agreement Name		
. Name of Operator SOUTHLAND ROYALTY COMPANY					
		8.	Well Name & Number Crandell #3		
PO Box 4289, Farmington, NM 87499 (505) 326-9700		9.	API Well No. 30-045-20479		
. Location of Well, Footage, Sec., T, R, M		10.	Field and Pool		
990'FSL, 1650'FEL, Sec.19, T-31-N, R-10-W, NMPM		11.	Blanco Pictured Clift County and State		
			San Juan Co, NM		
2. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	REPORT, C	THER	DATA		
Type of Submission Type of Action					
X_ Notice of Intent Abandonment Recompletion	Change of New Cons				
Subsequent Report Plugging Back					
Casing Repair	Water Sh	nut of	f		
Final Abandonment Altering Casing		on to	Injection		
X_Other - Bradenhead	repair				
3. Describe Proposed or Completed Operations					
It is intended to repair the kradenhead of the sub	ject well	acco	ording to the		
It is intended to repair the kradenhead of the sub attached procedure and wellbore diagram.	ject well	acco	ording to the		
	ject well	acco	ording to the		
	ject well	acco	ording to the		
	ject well	acco	ording to the		
	ject well	acco	PRORIMEIN		
	ject well	. acco	NECETVEN.		
	ject well	,	PROBLEMED MAR - E 1998 D		
	ject well	,	PROBLEMED MAR - E 1998 D		
	ject well	,	NECETVEN.		
	ject well	,	PROBLEMED MAR - E 1998 D		
		,	PROBLEMED MAR - E 1998 D		
attached procedure and wellbore diagram.	rrect.	↓	PROBLEMED MAR - E 1998 D		
attached procedure and wellbore diagram. 1 hereby certify that the foregoing is true and co	rrect.	Dat	PAROENVED MAR - E 1995 D ONL COME DONG DUSTE &		

JOHN TANDRIALER

WORKOVER PROCEDURE - BRADENHEAD REPAIR

CRANDELL # 3 Pictured Cliffs SE/4 Sec. 19, T31N, R10W San Juan Co., New Mexico DPNO 10352

- 1. Comply to all NMOCD, BLM, and MOI regulations. Conduct daily safety meetings for all personnel on location.
- Test location rig anchors and repair if necessary. Prepare blow pit. MOL and RU daylight pulling unit. Install a 400 bbl frac tank. NU blooie line to blow pit. Fill frac tank as needed with 1% KCl water.
- 3. Blow down production tubing (2688' of 1.315", 1.7#) to atmospheric tank. Control well with fresh water as needed. ND wellhead and NU BOP's. Test and record operation of BOP's. Send wellhead to A-1 Machine for inspection.
- PU on tubing and strap out of hole. Visually inspect tubing, and replace joints that are in bad condition. Note any buildup of scale, and notify Operations Engineer.
- 5. RU wireline unit. Fun gauge ring (4 1/2", 9.5 ppf) to PBTD of 2780'. Wireline set 4 1/2" RBP at 2680'. Pressure test casing to 1000 psig. Dump one sack of sand on top of RBP.
- 6. TOC is at 1328' per cement bond log. Contact Operations Engineer for design of squeeze cement.
- 7. Perforate 4 squeeze holes at 1310'. PU 4 1/2" fullbore packer and 2 3/8" workstring. Set packer 200' above squeeze holes. Pressure up backside to 500 psig. Establish rate into perforations with bradenhead valve open. Max pressure 1000 psig.
- 8. Mix and pump cement slurry. (If cement circulates to surface, go to tail slurry.) Displace cement to packer, close bradenhead valve and squeeze 1 to 2 bbl of cement into perforations. WOC 12 hours (overnite).
- Release packer and TOH. TIH with 3 7/8" bit and drill out cement. Pressure test casing to 1000 psig. Re-squeeze as necessary to hold pressure.
- 10. TIH with retrieving tool and retrieve RBP. POOH and LD RBP. TIH with 3 7/8" bit and CO to PBTD with air. Blow well clean and gauge production. POOH and LD workstring.
- 11. TIH with production tubing (open-ended). Land tubing at 2720'.

- 12. ND BOP's and NU wellhead. Obtain final gauge.
- 13. Release rig.

Recommend:

Operations Engineer

Approve

Orilling Superintendent

Contacts:

Cement

Cementers Inc.

632-3683

Wireline

Blue Jet

325-5584

Operations Engineer

Larry Dillon

326-9714

PERTINENT DATA SHEET

2/9/95

WELLNAME:	Crandell SRC #3			DP NUMBER: 10352					
WELL TYPE:	Pictured Cliffs				ELEVATION:	GL: KB:	5986' 5999'		
LOCATION:	990' FSL, 1650' FEL Sec. 19, T31N, R10W			INITIAL POTENTIAL:	AOF	2,597	Mcf/d		
	San Juan County, New Mexico		0		INITIAL SICP:		905	psig	
OWNERSHIP:	GWI: 25.0000% NRI: 21.1250%			DRILLING:	SPUD DATE: COMPLETED: TOTAL DEPTH: PBTD:		:	04-18-69 04-25-69 2780' 2780'	
CASING RECORD:									
HOLE SIZE	SIZE	<u>WEIGHT</u>	GRADE	DEPTH	EQUIP.		EMENT	-	тос
12 1/4"	8-5/8"	24#	J 5 5	105'	-	•	70 sx	Circ.	Surfac
6 3/4"	4 1/2"	9.5#		2780		:	250 sx	CBL	1328
Tubing	1" (128 jts)	1.7#		2688'			<u>-</u>		
FORMATION TOPS:	Nacimiento Ojo Alamo Kirtland Fruitland Pictured Cliffs Chacra Cliff House Menefee		330' 820' 902' 2267' 2680'		Point Looko Gallup Greenhorn Graneros Dakota	out			
LOGGING:	ES-Induction; B.J. Garnma Ray; B.J. Bond Log								
PERFORATIONS	2686' 2720' w	/4 spf							
STIMULATION:	29,980 gal. water & 25,000# 10/20 sand								
WORKOVER HISTORY:	NONE				<u>.</u>			<u></u>	
PRODUCTION HISTORY:	Gas	<u>Oil</u>			DATE OF LAST PRODUC	TION:	Gas	<u>Oil</u>	
Cumulative as of 1994: Current:	582.5 MMcf 1.3 MMcf/m	O EIbl			Noven	nber, 1994 1.3 MMcf/m 0 B			
PIPELINE:	SUG					· · · · ·			

Crandell SRC #3

CURRENT - 2-1-95

Pictured Cliffs DPNO 10352

990' FSL, 1650' FEL, Section 19, T-31-N, R-10-W, San Juan County, NM

Spud: 4-18-69

Completed: 4-25-69

Nacimiento @ 330'

Ojo Alamo @ 820'

Kirtland @ 902'

Fruitland @ 2267'

Pictured Cliffs @ 2680'

