UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	BUREAU OF LAND M	IANAGI	EMENT
	SUNDRY NOTICES AND REF	PORTS	ON WELLS 9 9 9 07
1.	TYPE OF WELL GAS		LEASE NUMBER JIC CONT. #416 IF INDIAN,ALL. OR TRIBE NAME JICARILLA APACHE
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 MEDIO CANYON WELL NO. 7
4.	LOCATION OF WELL 2310'FNL 660'FWL		FIELD, POOL, OR WILDCAT WEST LINDRITH GALLUP DAKOTA SEC. T. R. M OR BLK. SEC. 35 T24N R04W NMPM
14.	PERMIT NO. 15. ELEVATIONS 7042'GL	12.	COUNTY 13. STATE RIO ARRIBA NM
16.	SUBSEQUENT REPORT OF:		
17.	Describe proposed or completed opera		
	Please note the following change to the cer		
	4 1/2" Production casing cemented with one stage (see attached revised operat	light ions p	weight (Nitrified) cement in lan).

AUGI 41991
OIL CON. DIV. DIST. 3

18. AUTHORIZED BY: Segul ATORY AFFAIRS

8-9-9) DATE

NOTE:	THIS	FORMAT	IS	ISSUE	D IN	LIEU	OF	US	BLM	FORM	3160-5. APPROVED
(This	space	for Fe	dera	al or	State	off	ice	use	≘)		AUG 09 1991
	VED BY	F APPRO	VAL	, IF A	NY:	T	ITL	E			AREA MANAGER

OPERATIONS PLAN MEDIO CANYON #7

REVISED 08-08-91

Location:

2310' FNL, 660' FWL Sec. 35-T24N-R04W

Rio Arriba County, New Mexico

Field:

West Lindrith Gallup Dakota

7042' Graded Ground Level Elevation:

Formation Tops

	D. Lookout	5050′
Surtace	P. LOOKOUL	
2350′	Mancos	5230′
2845′	Kgl.	6135′
2855′	T/ GH	7045′
	B/ GH	7105′
	· .	7120′
	•	7230′
29807	Dakota	7230
4510′		
4545'	Total Depth	7550′
	2845' 2855' 2955' 2955' 2980' 4510'	2350' Mancos 2845' Kgl. 2855' T/ GH 2955' B/ GH 2955' T/ Gran 2980' Dakota 4510'

Logging Program:

Mud logs from 2800' to 3000', 5500' to TD.

LDT/CNL/GR: TD - Int. TD

FMS:

(1200ft) - TD - Int. TD

DIL/GR: CALIPER: TD to Surface TD to Surface

CET:

TD to Surface

Mud Program:

<u>Interval</u>	Typ <u>e</u>	<u>Weight</u>	<u>Visc.</u>	<u>Fl.Loss</u>
0 - 200	Spud	8.4 - 8.9	40-50	no control
	Non-dispersed	8.4 - 9.1	30-60	> 12 cc's

Casing Program:

Hole size (inches) 12 1/4" 7 7/8"	Measured <u>Depth (Ft)</u> 200' > (7550'	Casing <u>Size (in)</u> 8 5/8" 4 1/2"	Weight <u>(lbs/ft)</u> 24.0 10.5	<u>Grade</u> K-55 K-55
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Casing Equipment:

- 8 5/8" Surface Casing Sawtooth guide shoe. Centralizers 1. will be run in accordance with Onshore Order #2.
- 4 1/2" Production Casing Cement nose guide shoe on bottom, 2. float collar one joint off bottom. Centralizers spaced as follows: One every other joint from shoe to Ojo Alamo. Two (2) turbolizing type centralizers -one below and one into the Ojo Alamo @ 2530'. One every fourth joint from top of Ojo Alamo to surface.

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7700' of 2 3/8", 4.7#, J-55, 8rd EUE tubing with a seating nipple Tubing: one joint off bottom and an expendable check valve on bottom.

Wellhead Equipment: 8 5/8" x 4 1/2" x 2 3/8" - 11" (3000psi) Wellhead

Cementing

8 5/8" Surface Casing: Use 140 sacks of Class 'B' cement with 1/4# / sack Flocele and 3% Calcium Chloride (165 cu. feet of slurry, 100% excess to circulate to surface.) Wait on cement 12 hours. Test casing to 600 psi.

4 1/2" Production Casing: Lightweight (Nitrified) cement to be pumped between a cap of premium cement and a tail of pozmix slurry.

Non-Nitrified Cap: 87 sacks of Class 'G' with 0.25% Retarder, 0.1 gal/sack Foam stabilizer, and 1.5% (BVOW) Foamer.

Density: 15.8 ppg

Yield: 1.16 cu ft / sack 4.95 gal / sack Water:

Nitrified (Foam) Cement: 856 sacks of Class 'G' with 0.25% Retarder, 0.1 gal / sack Foam Stabilizer, and 1.5% (BVOW) Foamer.

Pumped in (5) stages as follows:

Stage (1): 218 scf N2 / BBL Density: 9.0 ppg

Yield: 2.16 cu ft/sack 386 scf N2 / BBL Stage (2):

554 scf N2 / BBL Stage (3): 717 scf N2 / BBL Stage (4): 872 scf N2 / BBL Stage (5):

Non-Nitrified Tail: 200 sacks of 50/50 poz / Class 'G' with 2% Bentonite, 0.6% Fluid Loss Additive, 0.25% dispersant, and 1/4# / sack cellophane flake.

Density: 13.6 ppg

1.26 cu ft / sack Yield: 5.40 gal / sack Water:

General Cement Data

Fluid Loss: 235 cc / 30 min 0.0 ml / mlFree Water:

8 hours Compressives: 500 psi

1600 psi 12 hours

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BOP and Tests:

Surface to Intermediate TD - 11", 2000psi (minimum) double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams to 600 psi for 30 minutes.

From Surface to TD - Choke Manifold (Reference Figure #3.)

Pipe Rams will be actuated at least once each day and blind rams will be actuated once each trip to test proper functioning. A kelly cock valve and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional Information

- * The Gallup Dakota formation will be completed and commingled.
- * This is an oil pool.
- * The NW/4 of Section 35 is dedicated to this well.
- * New casing will be utilized.
- * Pipe movement (reciprocation) will be done if hole conditions permit.
- * No hazardous zones are expected.
- * Possible lost circulation problems at 6200' will treat mud with LCM as required.
- * Cementing contractor will provide the BLM with a chronological log including the pump rate, pressure, slurry density and volume for all cement jobs.