

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well
GAS

RECEIVED

JAN 4 2008

2. Name of Operator
ConocoPhillips

Bureau of Land Management
Farmington Field Office

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M
Sec., T—N, R—W, NMPM

Unit C (NENW), 660' FNL & 2080' FWL, Sec. 21, T24N, R3W NMPM

5. Lease Number
SF-078913

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

Lindrith B Unit

8. Well Name & Number

Lindrith B Unit 31

9. API Well No.

30-039-23968

10. Field and Pool

W Lindrith Gallup DK

11. County and State
Rio Arriba, NM

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

Type of Submission:

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

Type of Action:

☐ Abandonment

☐ Recompletion

☐ Plugging

☐ Casing Repair

☐ Altering Casing

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-off

☐ Conversion to Injection

☒ Other : BH repair

13. Describe Proposed or Completed Operations

Conocophillips intends to repair the BH per the attached procedure.

RCVD JAN 9 '08

OIL CONS. DIV.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

DIST. 3

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

Signed

Philana Thompson

Philana Thompson

Title Regulatory Tech

Date 1/4/08

(This space for Federal or State Office use)

APPROVED BY

Raymond J. [Signature]

Title

Pet. Eng.

Date

1-7-08

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

NMOC



Lindrith B Unit 31 GP/DK
Bradenhead Repair/Tubing repair
Latitude : N 36° 18' 5", Longitude: W 107° 9' 48"

Prepared by: Soledad Moreno Production Engineer 01/02/2008

Scope of work: Repair leak in Bradenhead. Pull & inspect tubing. Replace damaged joints as necessary. Run noise log and CBL to locate source of shallow Bradenhead leak and TOC behind the 9 5/8" intermediate string. Determine depth to perforate squeeze-holes (approximately 2,430') & cement-squeeze to repair Bradenhead leak. Drill-out cement. Circulate wellbore clean. Test casing. Return well to production.

Estimated cost: \$99,000

Estimated rig days: 8

Well data

API: 330039239680000
Location: 660 FSL & 2080FEL, Unit C, Section 021, T24N, R3W
PBTD: 7,758'
TD: 7,800'
Perforations: 7,454' – 7,478' (DK)
7,494' – 7,505' (DK)
7,511' – 7,518' (DK)
7,570' – 7,576' (DK)
7,654' – 7,678' (DK)

Well history: The Lindrith B Unit 31 was completed in 1986. It was converted from pump to plunger lift in 1998. In 2001 they shot the tubing and set a stop in the tubing. It failed the Braden Head test on 5/31/2007. It was retested on and also failed. (see attached BH re-test on 8/15/2007).

B2 adapters are required on all wells other than pumping wells.

Artificial lift on well: Plunger

Estimated reservoir pressure: 1400 psi DK

Well failure date: 10/23/2007 (BH re-test failure)

Current rate: 82 mcfd **Estimated post-remedial rate:** 82 mcfd

Earthen pit required: Yes

Special requirements: Several joints of 2-3/8" tubing for replacement of any scaled or worn joints.

BAE production engineer: Soledad Moreno, Office: 505-324-5104, Cell: 505-320-8529

BAE backup engineer: Jim Arroyo, Office: 505-599-3477, Cell: 505-320-2568

Dryonis Pertuso, Office: 505-599-3409, Cell: 505-320-6568

MSO: Pat Stawinski, Cell: 505-486-1920, Pager: 505-949-0541

Lead: Matt Crane, Office: 505-324-5138, Cell: 505-320-1400

Area foreman: Terry Bowker, Office: 505-599-3448, Cell: 505-320-2600, Pager: 505-949-0367



Lindrith B Unit 31 GP/DK
Bradenhead Repair/Tubing repair
Latitude : N 36° 18' 5", Longitude: W 107° 9' 48"

PBTD: 7,758' KB
KB: 10'

Procedure

1. Hold safety meeting. Comply with all NMOCD, BLM and ConocoPhillips safety and environmental regulations. Test rig anchors and build blow pit prior to moving in rig.
2. MIRU. Record tubing, casing, and bradenhead pressures, and record in WellView. RU blow lines from casing valves and begin blowing down casing pressure. Kill well with 2% KCL if necessary. ND wellhead and NU BOP.
3. Release donut and remove. Remove **tubing anchor @ 7,252' KB (right hand release)**. TOOH with 7,239' of 2-3/8" tubing. (Detail below). Visually inspect tubing out of hole. Make note of corrosion or scale. Report findings in WellView. Tubing landed @ 7,559' KB.

238 jts- 2-3/8" 4.7# J-55 EUE Tubing
1 - 5 1/2" Tubing anchor
10 jts - 2-3/8" 4.7# J-55 EUE Tubing
1- 2-3/8" x 1.78" Seating Nipple
1- 2-3/8" Perf Pipe
1- 2-3/8" Mud anchor

4. TIH with tubing and additional joints needed to reach PBTD, to tag for fill, note depth of any fill in WellView.

Note: it is recommended here to pull out tubing with anchor tubing before tagging for fill, however, as this anchor needs 40,000 psi to actually get shear effect, the operation can be performed by releasing the tubing anchor and just adding tubing to tag for fill on the same trip.

5. MIRU wireline unit. Run gauge ring to +/- 7,404'. NU lubricator and RIH with CIBP for 5-1/2" casing. Set the CIBP at +/- 7,404' (50' above perforations).
6. Pressure test casing (CBIP) above DK perforations to 500 psi for 30 minutes. Record pressure and any leak off. If the pressure test holds, continue with procedure. If it does not hold, contact Superintendent and Production Engineer for further instructions.
7. Run a CBL from 3,000' to surface to confirm TOC of the intermediate casing. Deliver CBL to production engineer and expense superintendent to determine if noise log is necessary. If noise log will be run: RU loggers and run noise log from CIBP from 3,000' to surface to identify shallow water source. Make two runs w/ noise log: one w/ bradenhead valve closed and one w/ bradenhead valve open.
8. NU wireline. Perforate 2 squeeze holes @180° spacing through the 9 5/8 " intermediate casing at about 2,430' (depending on CBL results, cement top should be at 2,530').



Lindrith B Unit 31 GP/DK
Bradenhead Repair/Tubing repair
Latitude : N 36° 18' 5", Longitude: W 107° 9' 48"

9. RIH w/Packer and set +/- 50' above Squeeze Perfs. Ensure 9 5/8" x 13 3/8" annulus is open to pit. Establish circulation rate. Notify Superintendent and Production Engineer if well does not circulate and wait on orders.
10. POOH w/Packer. RIH w/Cement Retainer and set +/- 50' above Squeeze Perfs.
11. Tag pre-flush water w/ dye to ensure it is distinguishable from water flowing from bradenhead. Establish circulation rate. Pump 805 sx (or amount determined by engineer after CBL is run) Class A cement (Theoretic volume between 9 5/8" and 13 3/8": 170 bbls or 952 ft³) with no excess taken into account. Max pump pressure will be 1500 psi (depending on the pressure the Intermediate casing holds) or maximum allowable wellhead pressure, whichever is less. Monitor rate and pressure. Sting out of CR and circulate tubing clean.
12. If water flow and pressure is eliminated, continue per procedure. If pressure is present or water flow is continued, contact Superintendent and Production Engineer.
13. RDMO cementers. WOC. Check that Bradenhead pressure is at zero. Check intermediate pressure.
14. Run a CBL from 3000' to surface to confirm TOC at surface.
15. PU appropriate bit and TIH to drill out retainer and excess cement left in casing. TOOH.
16. After drilling out cement and before drilling out CIBP, pressure test each squeeze to 500 psi for 30 min. Call Superintendent and Production Engineer if pressure test fails.
17. PU appropriate bit, drill out temporary CIBP @ 7,404' and clean out to TPBD @ 7,758'. TOOH with tubing and bit.
18. PU and TIH with tubing (detail below). Broach tubing while TIH. Land tubing at 7,559' +/-10'.

238 jts- 2-3/8" 4.7# J-55 EUE Tubing
1 - 5 1/2" Tubing anchor
10 jts - 2-3/8" 4.7# J-55 EUE Tubing
1- 2-3/8" x 1.78" Seating Nipple
1- 2-3/8" Perf Pipe
1- 2-3/8" Mud anchor
Pup joints as needed to surface

19. ND BOP, NU wellhead. Notify lease operator that well is ready to be returned to production. RDMO.

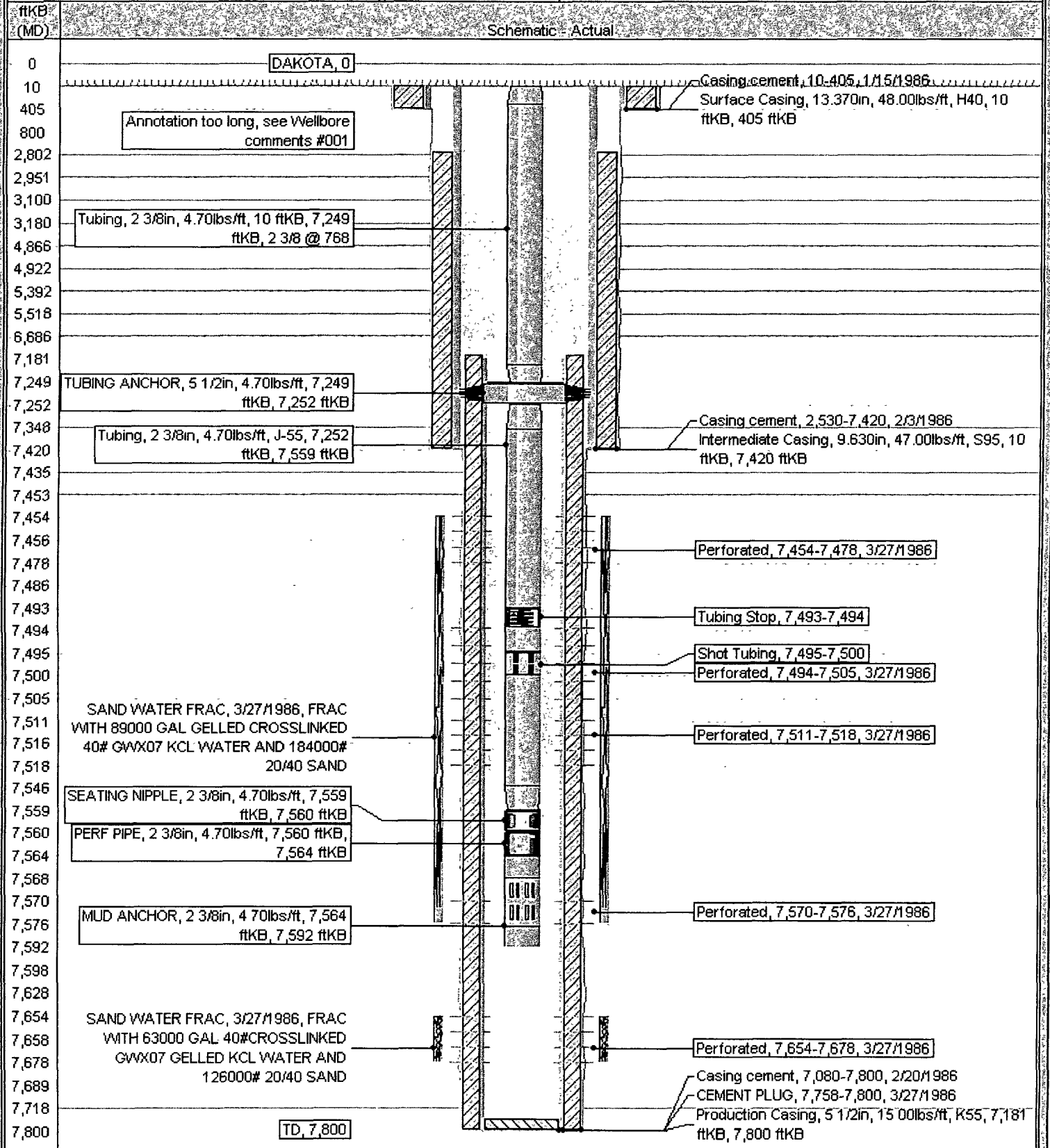
Current Schematic

ConocoPhillips

Well Name: LINDRITH B UNIT 031

API Well:	Surface Legal Location:	Field Name:	License No.:	State/Province:	Well Configuration Type:	Edit
300392396800	NMPM-24N-03VV-21-C	DK		NEW MEXICO	Vertical	
Ground Elevation -ft	Original L.S. Elevation -ft	L.S. Ground Elevation -ft	L.S. Casing Elevation -ft	L.S. Tubing Elevation -ft	L.S. Tubing Hanger Elevation -ft	
7,020.00	7,030.00					

Well Config: Vertical - Main Hole, 12/31/2007 2:03:15 PM



Pertinent Data Sheet

ConocoPhillips

Well Name: LINDRITH B UNIT 031

API/URN	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type	Edit
300392396800	NMPM-24N-03W-21-C	DK		NEW MEXICO	Vertical	
Ground Elevation (ft)	Original (ft)	15-Ground Distance (ft)	15-Casing Flange Distance (ft)	15-Tubing Hanger Distance (ft)		
7,020.00	7,030.00					

Well Attributes			Edit
Crk Spd Date	Latitude (DMS)	Longitude (DMS)	

Formations		Edit
Formation Name	Final Top MD (ft)	
POINT LOOKOUT	5,392.0	
MESAVERDE/CLIFF HOUSE	4,866.0	
DAKOTA	7,453.0	
GREENHORN	7,348.0	
OJO ALAMO	2,802.0	
PICTURED CLIFFS	3,100.0	
LEWIS SH	3,180.0	
GRANEROS	7,435.0	
BURRO CANYON	7,718.0	
MANCOS	5,518.0	
MANCOS	6,686.0	
KIRTLAND/FRUITLAND	2,951.0	
MENELEE	4,922.0	

Casing Strings										Edit
Casing Description	Run Date	Set Depth (ft)	Comment							
Surface Casing	1/15/1986	405.0								
Item Description	OD (in)	ID (in)	WT (lb/ft)	Grade	Jt	Let (ft)	Top (ft)	Let (ft)	Top (ft)	Edit
SURFACE CASING	13.37	12.720	48.00	H40		10			395.00	
Casing Description	Run Date	Set Depth (ft)	Comment							Edit
Intermediate Casing	2/3/1986	7,420.0								
Item Description	OD (in)	ID (in)	WT (lb/ft)	Grade	Jt	Let (ft)	Top (ft)	Let (ft)	Top (ft)	Edit
INTERMEDIATE CASING	9.63	8.680	47.00	S95		192			7,410.00	
Casing Description	Run Date	Set Depth (ft)	Comment							Edit
Production Casing	2/20/1986	7,800.0								
Item Description	OD (in)	ID (in)	WT (lb/ft)	Grade	Jt	Let (ft)	Top (ft)	Let (ft)	Top (ft)	Edit
PRODUCTION LINER	5 1/2	4.970	15.00	K55		14			619.00	

Cement				Edit
Description	Start Date	End Date	Comment	
	1/15/1986			
	2/3/1986			
	2/20/1986			
CEMENT PLUG	3/27/1986			

Tubing set at 7,592.0ftKB on 4/1/1986 00:00										Edit
Tubing Description	Run Date	Set Depth (ft)	Comment							
Tubing	4/1/1986	7,592.0								
Item Description	OD (in)	ID (in)	WT (lb/ft)	Grade	Jt	Let (ft)	Top (ft)	Edit		
Tubing	2 3/8	1.996	4.70		238	7,239.00				
TUBING ANCHOR	5 1/2	2.375	4.70		1	3.00				
Tubing	2 3/8	1.995	4.70	J-55	10	307.00				
SEATING NIPPLE	2 3/8	1.780	4.70		1	1.00				
PERF PIPE	2 3/8	1.996	4.70		1	4.00				
MUD ANCHOR	2 3/8	1.996	4.70		1	28.00				

Other In Hole				Edit
Description	Run Date	Top (ft)	Comment	
Tubing Stop	4/3/2001	7,493.0		
Shot Tubing	4/3/2001	7,495.0		

Perforations					Edit
Date	Top (ft)	Bot (ft)	Zone	Comment	
3/27/1986	7,454.0	7,478.0	DAKOTA, Main Hole	Formation: DAKOTA W/1 SPF - BKDN W/8000 GAL FL 2% WTR 80 BALL SLRS - FRAC W/89,000 GAL	
3/27/1986	7,494.0	7,505.0	DAKOTA, Main Hole	Formation: DAKOTA	
3/27/1986	7,511.0	7,518.0	DAKOTA, Main Hole	Formation: DAKOTA	
3/27/1986	7,570.0	7,576.0	DAKOTA, Main Hole	Formation: DAKOTA	
3/27/1986	7,654.0	7,678.0	DAKOTA, Main Hole	Formation: DAKOTA W/1 SPF - BKDN W/5000 GAL 2% KCL 50 BALL SLRS - FRAC W/63,000 GAL 40#	

Pertinent Data Sheet

ConocoPhillips

Well Name: LINDRITH B UNIT 031

API/Well	Surface Legal Location	Field Name	Lease No.	State/Province	Well Completion Type
800392396800	NMPM-24N-03W-21-C	DK		NEW MEXICO	Vertical
Ground Elevation (ft)	Original Elevation (ft)	Is Ground Debris (Y/N)	Is Mining Debris (Y/N)	Is Tubing Hanger Debris (Y/N)	
7,020.00	7,030.00				

Simulations & Treatments

SAID WATER FRAC on 3/27/1986 00:00

Type	Zone	Comment
SAND WATER		FRAC WITH 63000 GAL 40#CROSSLINKED GWX07 GELLED KCL WATER AND 128000# 20/40 SAND
FRAC		

SAID WATER FRAC on 3/27/1986 00:00

Type	Zone	Comment
SAND WATER		FRAC WITH 89000 GAL GELLED CROSSLINKED 40# GWX07 KCL WATER AND 184000# 20/40 SAND
FRAC		

Logs

4/21/1986 DIL-SFL (MW54 LogRun)



Bradenhead Re-Test Form

Use this form to document all re-test information. Please enter in all information using N/A where appropriate.

Well Information	
Well Name & Number:	Lindrith B 31
API:	30039239680000
Section:	21
Township:	024N
Range:	003W

Test Information	
Date of Re-Test:	August 15 th , 2007
Well Status:	Producing
Prod ~ SI ~ TA	
Initial Pressures	
TBG:	INT:
70 psi	0 psi
CSG:	BH:
150 psi	180 psi

BRADENHEAD

Test Time	BH	CSG	INT
5 minutes:	25	100	0
10 minutes:	40	100	0
15 minutes:	48	98	0
20 minutes:	58	97	0
25 minutes:	58	98	0
30 minutes:	63	99	0

End of Test 5 minute SI:	25 psi		
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Intermediate

INT	CSG
0	100
0	100
0	98
0	97
0	98
0	99

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Flow Characteristics	BH	INT
Steady Flow:	X	
Surges:		
Down to Nothing:		X
No Flow:		
Gas:		
Water:		
Gas & Water:		

Water Flow	
Clear	
Fresh	
Salty	
Sulfur	
Black	
Muddy	

MSO Comments/Info		
Remarks: Bradenhead did not blow down. opened for 15min to atmosphere. Had a steady flow. Intermediate blew down to nothing in 1sec.		
Tested By:	Company (BR or COP):	Witness:
Isley Cassador	COP	



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Farmington Field Office
1235 La Plata Highway, Suite A
Farmington, New Mexico 87401

Attachment to Notice of Intent for Remedial Work

Well: Lindrith B Unit #31

CONDITIONS OF APPROVAL:

- 1.) Farmington Field Office is to be notified at least 24 hours before remedial cementing operations commence (505) 599-8907.
- 2.) If circulation can be established to the surface from the squeeze perforations, pump adequate excess cement to circulate cement to the surface.

BLM CONDITIONS OF APPROVAL

WORKOVER AND RECOMPLETION OPERATIONS:

- 1. A properly functioning BOP and related equipment must be installed prior to commencing workover and/or recompletion operations.**
- 2. If this well is in a Seasonal Closure Area, adhere to the closure requirements and timeframes.**

SURFACE USE OPERATIONS:

The following Stipulations will apply to this well unless a particular Surface Managing Agency or private surface owner has supplied to BLM and operator a contradictory environmental stipulation. The failure of operator to comply with these requirements may result in assessments or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on location during construction, drilling and reclamation activity.

An agreement between operator and fee landowner will take precedence over BLM surface stipulations unless (in reference to 43 CFR Part 3160) 1) BLM determines that operator's actions will affect adjacent Federal or Indian surface, or 2) operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance, or 3) no such agreement exists, or 4) in the event of well abandonment, minimal Federal restoration requirements will be required.

STANDARD STIPULATIONS: All surface areas disturbed during work-over activities and not in use for production activities will be reseeded. This should occur in the first 90 days after completion of workover activities.

SPECIAL STIPULATIONS:

- 1. Pits will be fenced during workover operation.**
- 2. All disturbance will be kept on existing pad.**
- 3. All pits will be pulled and closed immediately upon completion of the workover activities.**
- 4. Pits will be lined with an impervious material at least 12 mils thick.**