

**RECEIVED**

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

JUL 07 2010

Sundry Notices and Reports on Wells

Bureau of Land Management  
Farmington Field Office

1. Type of Well  
GAS

5. Lease Number  
NMSF-078908

6. If Indian, All. or  
Tribe Name

2. Name of Operator  
**CONOCOPHILLIPS COMPANY**

7. Unit Agreement Name  
Lindrith B Unit

3. Address & Phone No. of Operator

8. Well Name & Number  
Lindrith B Unit 79

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

9. API Well No.

30-039-25105

4. Location of Well, Footage, Sec., T, R, M

10. Field and Pool

Surf: Unit B (NWNE), 1120' FNL & 1850' FEL, Section 7, T24N, R2W, NMPM

11. West Lindrith GL DK  
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

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☒ Other - Reservoir Stimulation

☐ Subsequent Report

☐ Recompletion

☐ New Construction

RCVD JUL 12 '10

☐ Final Abandonment

☐ Plugging

☐ Non-Routine Fracturing

OIL CONS. DIV.

☐ Casing Repair

☐ Water Shut off

DIST. 3

☐ Altering Casing

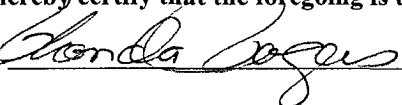
☐ Conversion to Injection

**13. Describe Proposed or Completed Operations**

ConocoPhillips wishes to perform a Reservoir Stimulation per attached procedures and wellbore schematic.

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

Signed



Rhonda Rogers Title Staff Regulatory Technician Date 7/7/10

(This space for Federal or State Office use)

APPROVED BY Original Signed: Stephen Mason Title \_\_\_\_\_ Date JUL 08 2010

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.

NMOCD 

**ConocoPhillips**  
**LINDRITH B UNIT 79**  
**Expense - Reservoir Stimulation**

Lat 36° 19' 45.548" N

Long 107° 5' 15.252" W

**PROCEDURE**

1. Hold pre-job safety meeting. Comply with all NMOC, BLM, and COPC safety and environmental regulations. Test rig anchors prior to moving in rig.
2. MIRU work over rig. Check casing, tubing, and bradenhead pressures and record them in Wellview.
3. RU blow lines from casing valves and begin blowing down casing pressure. Kill well with KCl water if necessary.
4. Pressure test tubing to 1000 psi before unseating the pump, release pressure.
5. TOOH with Rods (details below). If possible do not hot oil rods and tubing. Try to collect sample of paraffin. Notify engineer if sample is collected so that NALCO can analyze it.

Number	Description
1	1-1/4" x 22' Polished Rod
3	7/8" x 8' Pony rod
193	7/8" plain sucker rods
1	7/8" Pony Rods (4')
84	3/4" plain sucker rods
30	3/4" Guided rod
2	1" x 40" Stabilizer rod
4	1 1/2" Sinker Bars (no neck, 100')
1	22,000# Shear tool
1	1" x 40" Stabilizer rod
1	1" x 1' Lift sub
1	RHAC-Z 2 1/2" x 1-1/4" x 9' x 4' pump
1	1 x 1" strainer nipple 3/4" x 6' Dip Tube

If scale is found on/near the pump call Gary Noyse at Energy Pump. Pump will need to be tore down and a scale sample sent to NALCO for analysis.

6. ND wellhead and NU BOPE. PU and remove tubing hanger and tag for fill, adding additional joints as needed (tubing currently landed @ 7860', PBD @ 7873'). If fill is tagged above bottom perf (7798') CO to PBD. Record fill depth in Wellview. If fill cannot be cleaned out notify production engineer.

7. TOOH with tubing (details below).

Number	Description
1	2-7/8", 6.5#, J-55 Tubing Joint
2	2-7/8" x 10' Pup joint
247	2-7/8", 6.5#, J-55 Tubing Joints
1	2-7/8" x 5.5" x 3.05' Tubing anchor
4	2-7/8, 6.5#, J-55 Tubing Joints
1	2-7/8" F nipple (ID 2.25")
1	2-7/8" Price Type Cover Joint (29.5')
1	2-7/8" Mule Shoe

Use Tuboscope Unit to inspect tubing and record findings in Wellview. Make note of corrosion or scale. LD and replace any bad joints.

8. Spot in frac equipment and complete re-fracture as specified in fracturing procedure.

9. TIH with tubing configuration below. Add additional joints as needed to CO to PBTB before landing tubing at specified depth. If fill cannot be CO to PBTB notify engineer and confirm/adjust landing depth.

**Recommended**

Tubing Drift ID: 2.347"  
Land Tubing At: 7848'  
Land F-Nipple At: 7818'

Number	Description
1	2-7/8" Mule shoe guide
1	2-7/8" Price type cover joint
1	2-7/8" F nipple (ID 2.25")
2	2-7/8", 6.5#, J-55 Tubing Joints
1	2-7/8" x 5.5" x 3.05' Tubing Anchor
244	2-7/8", 6.5#, J-55 Tubing Joints
As Needed	2-7/8", 6.5#, J-55 Pup Joints
1	2-7/8", 6.5#, J-55 Tubing Joint

10. ND BOP, NU B-1 Adapter, rod radigan, and flow tee (place rod radigan, below flow tee). RIH with rods (detail below). Place 5 guides per rod where rod wear was found.

Number	Description
1	1" x 1' Strainer Nipple
1	RHAC-Z 2-1/2" x 1-1/4" x 12' x 6' pump
1	1" x 1' Lift sub
1	1" x 40" Stabilizer rod
1	1 1/4" Shear coupling (22,000#)
8	1 1/2" Sinker Bars (200')
2	1" x 40" Stabilizer Rods
30	3/4" Guided Rods
156	3/4" Plain Rods
118	7/8" Plain Rods
1	7/8" Pony Rod (4')
1	1-1/4" x 22' Polished Rod

**Pump Component Description**  
Pump should have double traveling valves to comply with new pump standards. **Do not set pump to tag.**

Rod subs to be rotated once at a time each time the well is pulled to spread coupling wear in the tubing.

**Note:** IF Stabilizer rods are in good condition, proceed to reinstalled, If no install Guide rod.

11. Space out pump 3 to 4 inches for every 1000 ft of tubing depth and seat pump. Load tubing with water to pressure test tubing and pump to 1500 psi. Test for good pump action.

12. Notify lease operator that well is ready to be returned to production. RD, MOL

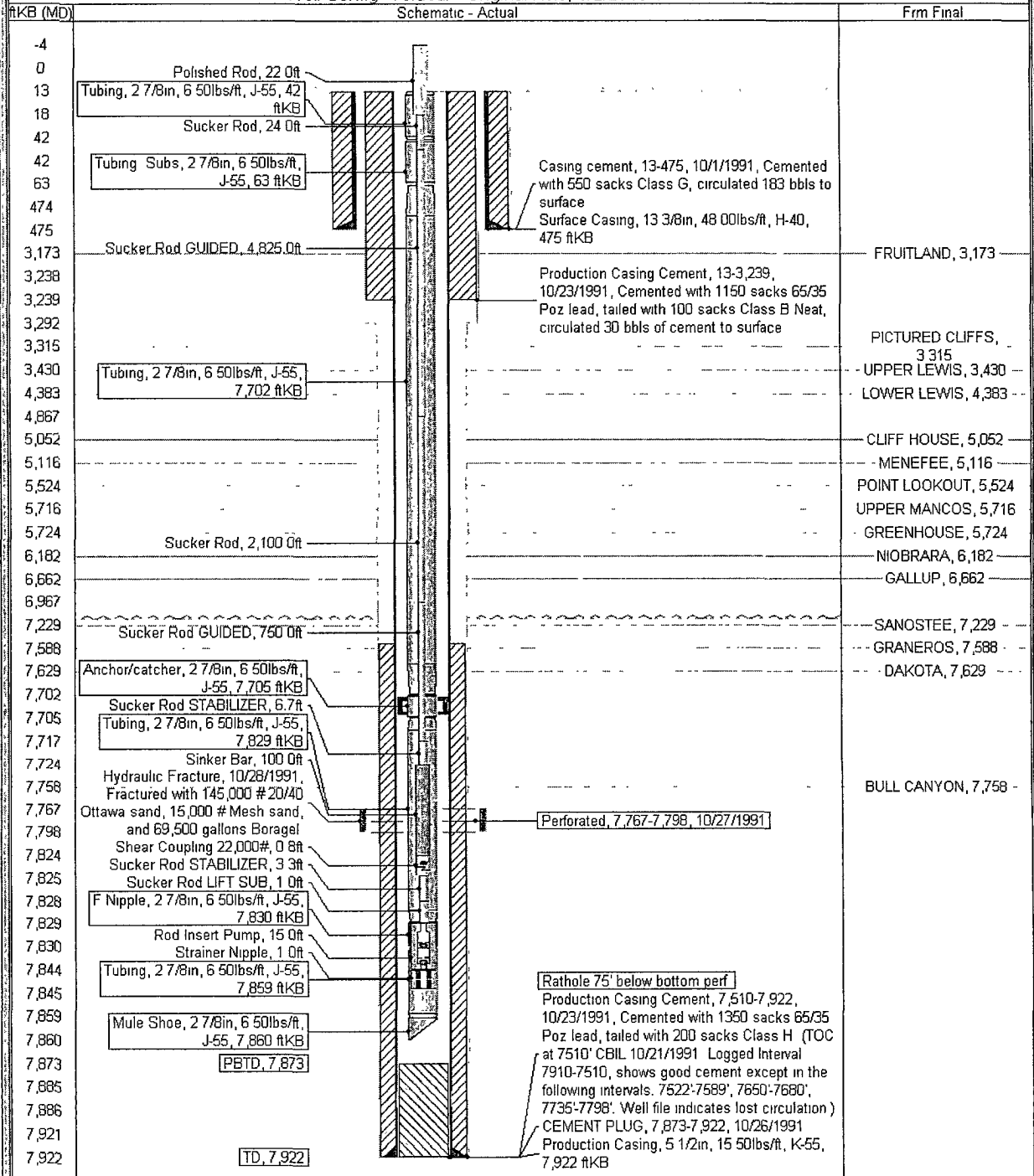
# Current Schematic - Revised

ConocoPhillips

Well Name: LINDRITH B UNIT #79

API / UWI 3003925105	Surface Legal Location NMPM-24N-02W-07-B	Field Name DK	License No	State/Province NEW MEXICO	Well Configuration Type Vertical	Edit
Ground Elevation (ft) 7,142.00	Original KB/RT Elevation (ft) 7,155.00	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft) 7,155.00	KB-Tubing Hanger Distance (ft) 7,155.00		

Well Config Vertical - Original Hole, 5/2/2010 10:15:54 AM



## **DIRECTIONS TO LOCATION**

See expense supervisor

## **PROJECT OBJECTIVE:**

The Lindrith B 79 was completed in 1991 in Dakota formation, this well was producing in a stable way, from 1991 to 2001. In this period of time several condensate amount were dropped due to it is a highly paraffin and scale producer. In 2001 the production drop from 80 mcf/d to 5 mcf/d, after that three workover jobs were performed and the production has never been recovered. In 2009 after the last workover job was done no gas and liquid were produced. Previous evaluation between RAM and Production Optimization departments, is likely a damage is present into the reservoir.

This is a 2010 1 stage DK 70Q recompletion. The Dakota/Gallup will be completed using a 60% 20# LG frac. Stimulations will be performed with a rig and down a 3-1/2" frac string. The cleanup will be done with a service rig.

## **RIG STIMULATION:**

- 1) Always inspect and photograph. Make sure time and date appears on photographs. Retain electronic copies of the reports & report any problems to the Farmington office.

- 2) Deliver the following to Location

1.	3 - 400 bbl Frac Tanks w/PVC caps installed on all valves.
2.	10,000 psig Full Bore Frac Valve.
3.	2-7/8" X 5-1/2" Treating paker
4.	7700' 3-1/2" 9.3# slimhole N-80 frac string equipped w/ 2 jts of 2-7/8" L-80 with F-nipple
5.	1 4-1/2" composite bridge plug.

- 3) Add bactericide to tanks before filling with water. Test all water to assure quality. Add one load of fresh water to each tank before adding one load of 20% KCL water. Final concentration should be 2% KCL.
- 4) MU and TIH with 2-7/8" X 5-1/2" treating paker on 3-1/2" 9.3# slimhole N-80 frac string equipped w/ 2 jts of 2-7/8" L-80 with F-nipple. Run wireline blank inside F-nipple.
- 5) NU 10,000 psig frac valve. Load the 3-1/2" frac string and 3-1/2" X 5-1/2" annulus with 2% KCL. Pressure test casing and frac valve to 8,600 psig and ensure all fittings are rated 10,000 psig or above. Pressure Test 3-1/2" X 5-1/2" backside to 100 psig.
- 6) Under full lubricator. Retrieve "F" nipple plug with wireline.
- 7) Set & fill proppant containers with sand.
- 8) Open 5-1/2" X 3-1/2" backside casing valve and bleed off any pressure. Monitor annulus pressure during stimulation operations with a transducer.

- 9) Below are materials required for the proposed one stage fracture restimulation:

Stage	Dakota
Fluid Type	60% 20# LG
Acid Volume	10 bbls of 15% HCl
Fluid Volume	798 bbls
Sand Type	20/40 Arizona
Sand Amount	40,000 lbs
N2 Volume (w/out excess)	1,391 Mscf

### DAKOTA FRACTURE STIMULATION

- 10) If possible, MIRU wireline company the day before the frac.
- 11) Hold pre job safety meeting with all parties involved. Fill out and review JSA.
- 12) Hold pre job safety meeting with all parties involved. Discuss all phases and hazards of the job and explain that each person on location has the right and obligation to shut down the job if something is not being done safely or they are not sure of the procedure. Fill out and review JSA.  
*"OUR WORK IS NEVER SO URGENT OR IMPORTANT THAT WE CANNOT TAKE THE TIME TO DO IT SAFELY."*
- 13) Pressure test all surface lines to 9,600 psig. During test, make sure all parties are away from the Red Zone.
- 14) Begin breakdown by bullheading 10 bbls of 15% HCl (followed by the designed slickfoam pad). Do not exceed the maximum treating pressure. Record breakdown pressure and rate. If an injection rate cannot be established without exceeding 8,600 psig contact Ross Martin or Mike Martinez for further instructions. If an injection rate is achieved, continue with the stimulation by pumping the designed pad fluid.
- 15) Fracture stimulate the Dakota formation per the attached schedule at 50 bpm using 60% 20# LG with 40,000 lbs of 20/40 Arizona sand. Increase the injection rate above the scheduled rate (50 BPM) if pressure (anticipated surface pressure will be approximately 5,869 psig) and equipment will allow ensuring maximum fluid diversion. Do not exceed the maximum treating pressure of 8,600 psig. Flush with 60% N2 Slickwater foam once all the 0.75 ppg sand has cleared the blender tub. A rate of at least 40 BPM will be required for this job. Shut down and record ISIP. RDMO stimulation company.
- 16) Once Stimulation Company has rigged down, rig up & begin flow back of the stimulations. Provide ISIP and fluid volume pumped to flow back company.
- 17) Close 5-1/2" backside casing valve prior to flowback.
- 18) RU to flowback well to the pit. Follow the flowback procedure. Continue flowback until the well cleans up.

Contact Phone Numbers			
Position	Name	Office	Cell
Engineer	Ross Martin	324-6196	360-6811
	Email:	Alvin.R.Martin@ConocoPhillips.com	
Rigless Superintendent	Mike Martinez		320-2449
Frac Supervisor	Mark Byars		486-2831
	Rocky Couder		609-3417
	Rowz Martinez		215-9731
Stimulation	BJ Services	327-6222	