

Submit 3 Copies To Appropriate District  
Office  
District I  
1625 N French Dr , Hobbs, NM 88240  
District II  
1301 W Grand Ave , Artesia, NM 88210  
District III  
1000 Rio Brazos Rd , Aztec, NM 87410  
District IV  
1220 S St Francis Dr , Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
May 27, 2004

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. 30-039-05160
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. E-5582
7. Lease Name or Unit Agreement Name State H
8. Well Number #2
9. OGRID Number
10. Pool name or Wildcat Lybrook Gallup

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
6903' GL 6917' KB

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type Earth ☐ Depth to Groundwater \_\_\_\_\_ Distance from nearest fresh water well \_\_\_\_\_ Distance from nearest surface water \_\_\_\_\_

Pit Liner Thickness: \_\_\_\_\_ Below-Grade Tank: Volume \_\_\_\_\_ bbls; Construction Material \_\_\_\_\_

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

**Operator requests approval to plug and abandon this well per the attached plugging procedure.**

RCVD MAY 2 '08

OIL CONS. DIV.

DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Kirby Sanchez TITLE Production Foreman DATE May 1, 2008

Type or print name Kirby Sanchez E-mail address: Kirby.Sanchez@questar.com Telephone No. 505-330-9605

**For State Use Only**

APPROVED BY: H. Villanueva TITLE Deputy Oil & Gas Inspector, District #3 DATE MAY 02 2008  
Conditions of Approval (if any): - see attached comments -

D

## PLUG AND ABANDONMENT PROCEDURE

April 25, 2008

### State H #2

Lybrook Gallup  
1880' FSL & 1980' FWL, SW, Section 2, T23N, R7W  
Rio Arriba County, New Mexico, API #30-039-05160

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. Cement will be Class G, mixed at 15.8 ppg with a 1.15 cf/sx yield.

1. Install and test location rig anchors. Prepare blow pit. Comply with all NMOC, BLM, and Questar safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line and blow down well; kill with water as necessary.
2. ND wellhead and NU BOP. Test BOP. TOH and tally 2.375" tubing, total 5430'. If necessary, LD tubing and use a workstring. Round trip 4.5" gauge ring to 5251'.
3. **Plug #1 (Gallup perforations and top, 5251' – 5020')**: TIH and set 4.5" cement retainer at 5251'. Pressure test tubing to 1000#. Load casing with water and circulate well clean. Pressure test casing to 800#. *If casing does not test, then spot or tag subsequent plugs as appropriate.* Mix 22 sxs cement and spot a balanced plug inside casing above CR to isolate the Gallup perforations and top. TOH with tubing.  
*\* — MV — El Estero top 3420 Plug 3520-3420 Chacra*
4. **Plug #2 (Mesaverde top, 2830' – 2730')**: Perforate 3 squeeze holes at 2830'. Attempt to establish rate into squeeze holes if the casing tested. Set 4.5" cement retainer at 2780'. Establish rate into squeeze holes. Mix and pump 52 sxs cement, squeeze 40 sxs outside the casing and leave 12 sxs inside casing to cover the Mesaverde top. TOH with tubing.
5. **Plug #3 (Pictured Cliffs and Fruitland tops, 1985' – 1705')**: Perforate 3 squeeze holes at 1985'. Attempt to establish rate into squeeze holes if the casing tested. Set 4.5" cement retainer at 1935'. Establish rate into squeeze holes. Mix and pump 138 sxs cement, squeeze 112 sxs outside the casing and leave 26 sxs inside casing to cover the Pictured Cliffs and Fruitland tops. TOH with tubing.
6. **Plug #4 (Kirtland and Ojo Alamo tops, 1385' – 1220')**: Perforate 3 squeeze holes at 1385'. Attempt to establish rate into squeeze holes if the casing tested. Set 4.5" cement retainer at 1335'. Establish rate into squeeze holes. Mix and pump 84 sxs cement, squeeze 67 sxs outside the casing and leave 17 sxs inside casing to cover through the Ojo Alamo top. TOH and LD tubing.
7. **Plug #5 (8.625" Surface casing shoe, 258' – 0')**: Perforate 3 squeeze holes at 258'. Establish circulation out the bradenhead valve with water; circulate the BH annulus clean. Mix and pump approximately 95 sxs cement down the 4.5" casing to circulate good cement out bradenhead valve. Shut well in and WOC.
8. 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.

## State H #2

### Current

Lybrook Gallup

1880'FSL & 1980'FWL , Section 2, T-23-N, R-7-W  
Rio Arriba County, NM / API #30-039-05160

Today's Date: 4/25/08

Spud: 11/16/61

Comp: 12/01/61

Elevation: 6903' GL

6917' KB

12 25" Hole

8.625" 24# Casing set @ 208'  
150 sxs cement, circulated to surface

Ojo Alamo @ 1270'

Kirtland @ 1335'

Fruitland @ 1755'

Pictured Cliffs @ 1935'

Mesaverde @ 2780'

2.375" tubing at 5430'

Holes in casing 3800' to 3832',  
squeeze with 300 sxs cement (1987)

Top of Cmt @ 4719', (Calc, 75%)

Gallup @ 5070'

Gallup Perforations:  
5301' - 5335' ; 5423' - 5444'

7 875" Hole

4 5" 10.5#, Casing @ 5496'  
Cemented with 200 sxs (236 cf)

TD 5510'  
PBTD 5496'

# State H #2 Proposed P&A

Lybrook Gallup  
1880'FSL & 1980'FWL , Section 2, T-23-N, R-7-W  
Rio Arriba County, NM / API #30-039-05160

Today's Date: 4/250/08

Spud: 11/16/61

Comp: 12/01/61

Elevation. 6903' GL

6917' KB

12 25" Hole

Ojo Alamo @ 1270'

Kirtland @ 1335'

Fruitland @ 1755'

Pictured Cliffs @ 1935'

*Chavez*  
~~Mesaverde @ 2780'~~

*MU top 34 70  
plug 3520-3420*

Gallup @ 5070'

7.875" Hole

TD 5510'  
PBTD 5496'

Plug #5: 258'- 0'  
Type III cement, 95 sxs

8 625" 24# Casing set @ 208'  
150 sxs cement, circulated to surface

Perforate @ 258'

Plug #4: 1385'- 1220'  
Type III cement, 84 sxs:  
67 outside and 17 inside

Cmt Retainer @ 1335'

Perforate @ 1385'

Plug #3: 1985'- 1705'  
Type III cement, 138 sxs:  
112 outside and 26 inside

Cmt Retainer @ 1935'

Perforate @ 1985'

Plug #2: 2830'- 2730'  
Type III cement, 52 sxs:  
40 outside and 12 inside

Cmt Retainer @ 2780'

Perforate @ 2830'

Holes in casing 3800' to 3832',  
squeeze with 300 sxs cement (1987)

Top of Cmt @ 4719', (Calc, 75%)

Set CR @ 5251'

Plug #1: 5251'- 5020'  
Type III cement, 22 sxs

Gallup Perforations:  
5301' - 5335' ; 5423' - 5444'

4.5" 10.5#, Casing @ 5496'  
Cemented with 200 sxs (236 cf)