

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. 30-021-20528
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Libby Minerals LLC 1931
8. Well Number 8-I-K
9. OGRID Number 251905
10. Pool name or Wildcat Bravo Dome 96010

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> CO <sub>2</sub> Well	
2. Name of Operator Reliant Exploration & Production, LLC.	
3. Address of Operator 300 N. Marienfeld Suite 600 Midland, TX 79701	
4. Well Location Unit Letter <u>K</u> : <u>2273</u> feet from the <u>South</u> line and <u>1700</u> feet from the <u>West</u> line Section <u>8</u> Township <u>19 N</u> Range <u>31 E</u> NMPM County <u>Harding</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4431	
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____	
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____	

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☒ P AND A ☐  
CASING/CEMENT JOB ☒

OTHER: ☐

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.

See Attachment

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 Vance TITLE Manager DATE 10/20/11

Type or print name Vance Vanderburg E-mail address: \_\_\_\_\_ Telephone No. \_\_\_\_\_  
For State Use Only

APPROVED BY: Ed Martin TITLE DISTRICT SUPERVISOR DATE 11/10/2011  
Conditions of Approval (if any): \_\_\_\_\_

**Libby Minerals LLC 1931 8-1-K**

**8/14/2011**

Moved in Reliant Rig #1. KB = 9' AGL.

**8/15/2011**

Inspected rig, drill collars, and drill pipe.

**8/16/2011**

Drill 12.25" surface hole from 9' to 425' / Average WOB 30 / 80-90 RTS / 10 bpm @ 1100 psi.

**8/17/2011**

Drill 12.25" surface hole from 425' to 780' / Average WOB 30 / 80-90 RTS / 10 bpm @ 1100 psi.

Circulate and Condition hole. TOOH.

Ran 9.625, 36.0 lb/ft, J-55, ST&C, from 9' to 738.44'.

Circulate and condition hole.

**8/18/2011**

MIRU HALCO to pump surface cement job as follows:

Pressure tested lines to 2000psi. Pumped 20 bbl spacer. Pumped 410 sks of Class C + 2% Calcium chloride cement at 15.6 PPG at 5 BPM and 80 psi. Dropped top plug and pumped 54.89 bbls displacement at 5 BPM and 300 psi. Bumped plug to 1000 psi. Float held. Circulated a total of 78 sks to surface. Plug down at 03:00 hours on 8/18/2011. WOC

Remove landing joint and nipple up BOP

TIH with 8 3/4 bit.

Drilled 8 3/4 intermediate hole from 738' to 812' / Average WOB 45 / 40-50 RTS / 10 bpm @ 930 psi.

**8/19/2011**

Drilled 8 3/4 intermediate hole from 812' to 1382' / Average WOB 45 / 40-50 RTS / 10 BPM @ 920 psi

Circulate and Condition hole

TOOH

**8/20/2011**

RU Black Viper HZ BHA

TIH

**8/21/2011**

Begin building curve at 10 degrees per 100 Drilled 8 3/4 intermediate hole from 1382' to 1686' /  
Average WOB 47 / 90 DHMS / 9.30 BPM @ 950 psi MD 1687' TVD 1675' INC. 20 degrees AZM 356.8  
degrees

Circulate and Condition hole

TOOH

**8/22/2011**

RIH with new HZ BHA

Continue building curve

Drilled 8 3/4 intermediate hole from 1687' to 1830' / Average WOB 47 / 90 DHMS / 9.30 BPM @ 1100psi  
MD 1806' TVD 1770' INC. 35.6 degrees AZM 357.7 degrees

Began rotating and sliding to offset build

**8/23/2011**

Continue building curve

Drilled 8 3/4 intermediate hole from 1830' to 2076' / Average WOB 47 / 90 DHMS / 9.30 BPM @ 1100psi  
MD 2076' TVD 1914' INC. 62.9 degrees AZM 356.2 degrees

**8/24/2011**

Continue building curve

Drilled 8 3/4 intermediate hole from 2076' to 2166' / Average WOB 47 / 90 DHMS / 9.30 BPM @ 1100psi  
MD 2166' TVD 1955' INC. 71.3 degrees AZM 357.5 degrees

**8/25/2011**

Top of Cimarron Anhydrite at 1952' TVD

Continue building curve

Drilled 8 3/4 intermediate hole from 2166' to 2256' / Average WOB 47 / 90 DHMS / 9.30 BPM @ 1100psi  
MD 2256' TVD 1979' INC. 82 degrees AZM 356.4 deg

TOOH

Ran 7" casing as follows:

Ran 7" 26# N80 Buttress Thread Csg from 9' to 2236'.

**8/26/2011**

Circulate and Condition hole

MIRU HALCO to pump cement as follows:

Pressure tested lines to 4000 psi. Pump 60 bbls spacer. Pumped 220 sks lead cement Class C + 3% SA + 0.25 pps D29 + 4% D20 at 11.1 ppg at 6 bpm at 250 psi. Pumped 80 sks tail cement Class C + 3% SA + 0.25 pps D29 + 4% D20 at 13.2 ppg at 6 bpm at 130 psi. Dropped top plug. Displaced cement with 84 bbls fresh water at 7 bpm and 315 psi. Bumped plug at 1150 psi. Bled off. Float equipment held. Circulated 113 sks to surface. Plug down at 13:00 hours on 8/25/2011.

WOC

**8/27/2011**

Nipple up.

RIH with HZ BHA

Drilled 6 1/8 production hole from 2236' to 2498' / Average WOB 47 / 3000 CFM @ 500psi MD 2498' TVD 2002' INC. 86.8 degrees AZM 354.6 deg 22 gpm mist with .03% soap and 5 % KCL

**8/28/2011**

Drilled 6 1/8 production hole from 2498' to 3133' / Average WOB 47 / 3000 CFM @ 550psi MD 3133' TVD 2025' INC. 89.2 degrees AZM 353.7 deg 22 gpm mist with .03% soap and 5 % KCL

**8/29/2011**

Drilled 6 1/8 production hole from 3133' to 3645' / Average WOB 47 / 3000 CFM @ 580psi MD 3645' TVD 2018.25' INC. 90.1 degrees AZM 356.3 deg 22 gpm mist with .03% soap and 5 % KCL

TOH

**8/30/2011**

Release Rig