

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 8705

RECEIVED OGD

2010 SEP 21 10:12 AM

District IV

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD  
A ZONE**

<sup>1</sup> Operator Name and Address Reliant Exploration & Production, LLC. 300 North Marienfeld Suite 600 Midland, Texas 79701		<sup>4</sup> OGRID Number 251905	
<sup>2</sup> Property Code 37025		<sup>3</sup> API Number 30-021-20516	
<sup>5</sup> Property Name LIBBY MINERALS LLC 1931		<sup>6</sup> Well No. 7-1-L	
<sup>7</sup> Proposed Pool 1 Bravo Dome 96010 <input checked="" type="checkbox"/>		<sup>8</sup> Proposed Pool 2	

**7 Surface Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	7	19 North	31 East NMPMI		1980'	South	660'	West	Harding

**8 Proposed Bottom Hole Location If Different From Surface**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

**Additional Well Information**

<sup>11</sup> Work Type Code N	<sup>12</sup> Well Type Code C	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 4537.2'
<sup>16</sup> Multiple NO	<sup>17</sup> Proposed Depth 2600'	<sup>18</sup> Formation TUBB	<sup>19</sup> Contractor Reliant E&P	<sup>20</sup> Spud Date 4/1/2010
Depth to Groundwater > 100'		Distance from nearest fresh water well > 1000'		Distance from nearest surface water > 1000'
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 20 mils thick Clay <input type="checkbox"/> Pit Volume: 850 bbls				
Drilling Method: Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input checked="" type="checkbox"/>				
Closed-Loop System <input type="checkbox"/>				

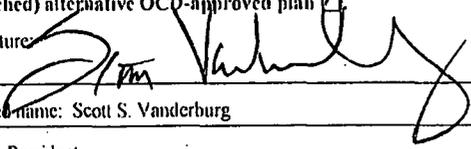
**21 Proposed Casing and Cement Program**

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12-1/4"	8-5/8"	24#	700'	300SX	SURFACE
7-7/8"	5-1/2"	5.9#FG/15.5#	2600'	400SX	SURFACE

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

SEE ATTACHMENTS  
OIL CONSERVATION COMMISSION TO BE NOTIFIED  
WITHIN 24 HOURS OF BEGINNING OPERATIONS

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOC guidelines , a general permit , or an (attached) alternative OCD-approved plan .

Signature: 

Printed name: Scott S. Vanderburg

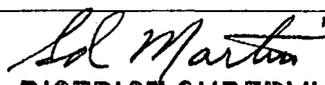
Title: President

E-mail Address: scottv@reliantholdingsltd.com

Date: 9/8/2010

Phone: 432-362-9206

OIL CONSERVATION DIVISION

Approved by: 

Title: **DISTRICT SUPERVISOR**

Approval Date: 12/13/2010

Expiration Date: 12/13/2012

Conditions of Approval Attached

**Before the Oil Conservation Division**  
Case No. 14688  
Hearing July 21, 2011  
Reliant Exploration & Production LLC  
EXHIBIT NO. 4

OIL CONSERVATION COMMISSION TO BE NOTIFIED  
WITHIN 24 HOURS OF BEGINNING OPERATIONS

ATTACHMENT C-101  
RELIANT EXPLORATION & PRODUCTION WELL 7-1-L

PROPOSED TD: 2600'

BOP PROGRAM: 0-700' None  
700 – 2600' .11" Double Ram 3000# Schaffer

Casing: Surface: 8-5/8" OD 24# J55 8rd ST&C new casing set at  
700' 12-1/4" hole Centralizers from TD – Surface, every fourth  
joint

Production: 5 -1/2" OD new casing from 0-2600'  
300' – 15.5# J55 8rd LTC 2300' – 5.9# 10rd FG  
7 -7/8" hole – 5 centralizers

\* This well will have fiberglass casing from the surface down to the productive interval (Tubb). Steel casing will be used across the Tubb. The fiberglass casing will at a minimum penetrate the Cimarron formation, with the optimum setting point being the midpoint of the Cimarron formation.

Cement: Surface – Circulate cement with 300sx class C – additives 2# C45, weight of 12.4# per gallon. Yield 2.14 and 1/8# of Celaflake per sx. Tail Cement 100sx class C 2%CaCl with 1/8# per sx Celaflake Yield of 1.32# with weight of 14.8# per gallon

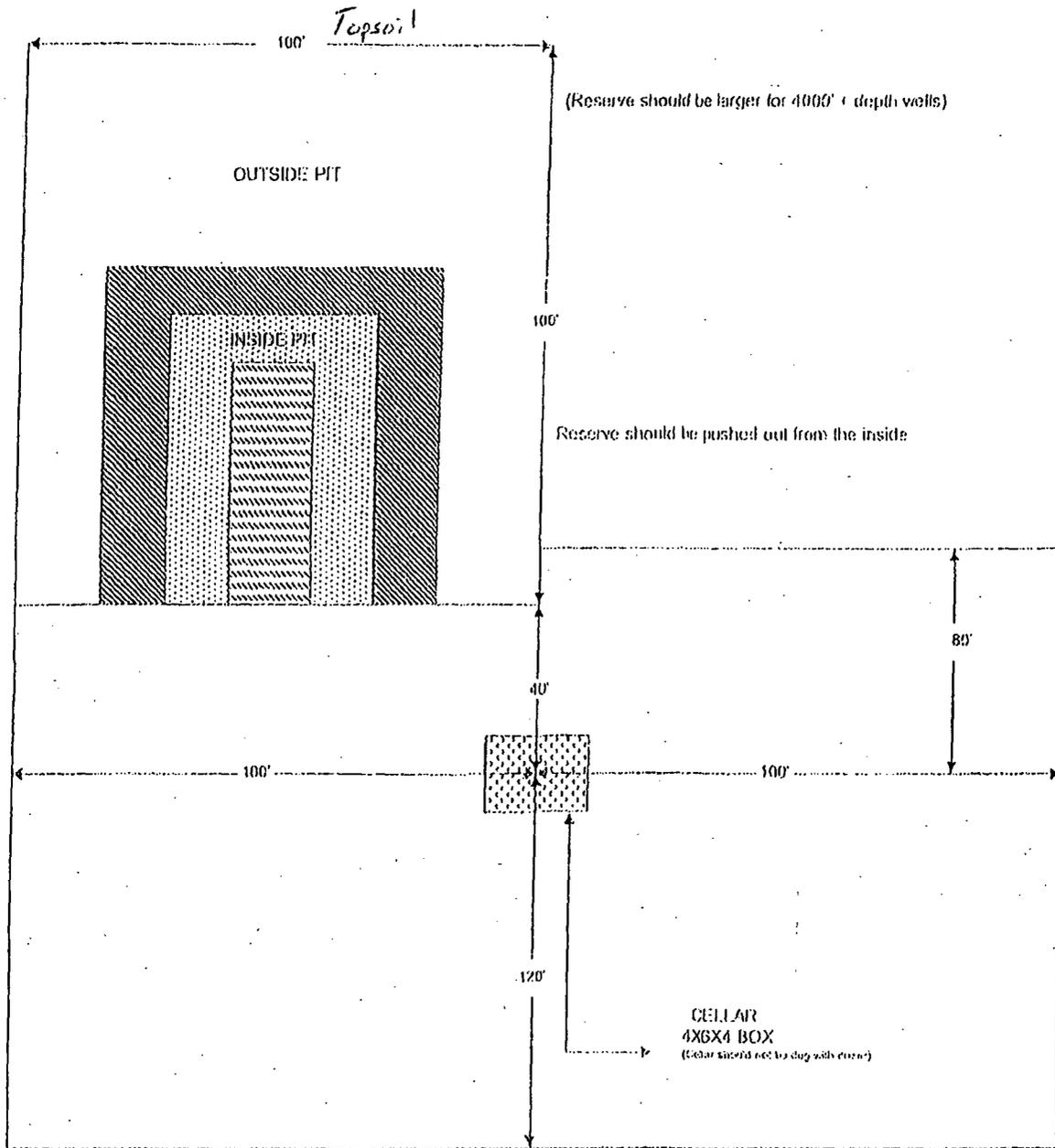
Production- Circulate cement with 400sx class C – additives 2# C45, weight of 12.4# per gallon. Yield 2.14 and 1/8# of Celaflake per sx. Tail Cement 100sx class C 2%CaCl with 1/8# per sx Celaflake Yield of 1.32# with weight of 14.8# per gallon

Mud 0-700' Air as Allowable

700-2600' Air as Allowable

Utilizing Metal Pits with an 80' by 80' by 6' deep reserve lined pit with 12 ply liner.

LOCATION SPECIFICATION FOR STEEL PITS  
(PICTURE NOT TO SCALE)



Cellar can be 4X4X4 if using a screw-on wellhead

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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 & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease- 4 Copies  
Fee Lease- 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-021-20516</b>	Pool Code <b>96010</b>	Pool Name <b>Bravo Dome</b>
Property Code <b>37025</b>	Property Name <b>LIBBY MINERALS LLC 1931</b>	Well Number <b>7-1-L</b>
OGRID No. <b>251905</b>	Operator Name <b>RELIANT EXPLORATION &amp; PRODUCTION, LLC.</b>	Elevation <b>4537.2'</b>

Surface Location

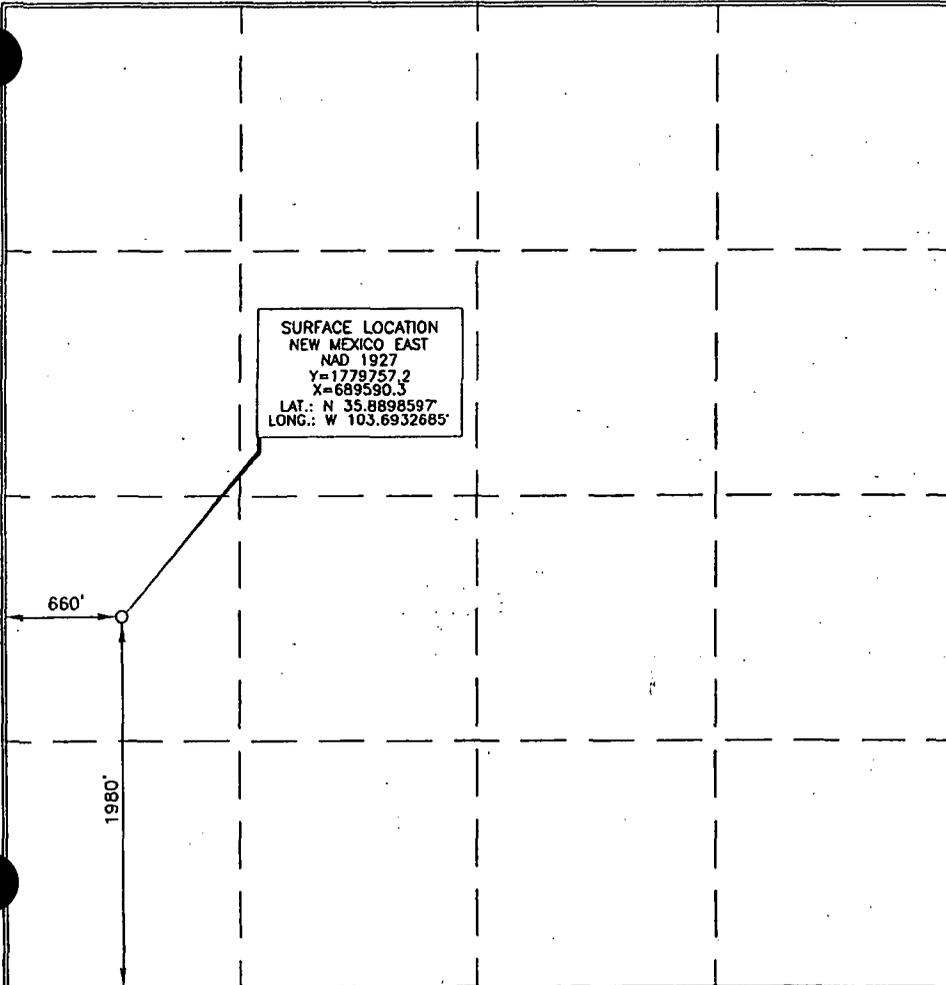
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>L</b>	<b>7</b>	<b>19 NORTH</b>	<b>31 EAST, N.M.P.M.</b>		<b>1980'</b>	<b>SOUTH</b>	<b>660'</b>	<b>WEST</b>	<b>HARDING</b>

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Scott Vanderburg*  
Signature Date 8/29/09

Scott Vanderburg  
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

15079  
AUGUST 25, 2009  
Date of Survey

Signature and Seal of Professional Surveyor

*Terry J. Paul* 8/29/2009  
Certificate Number 15079

WO# 090825WL (KA)

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Department  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-144  
July 21, 2008

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.  
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or  
Proposed Alternative Method Permit or Closure Plan Application

- Type of action:  Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method  
 Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method  
 Modification to an existing permit  
 Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

**Instructions:** Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.  
Operator: Reliant Exploration & Production, LLC OGRID #: 251905  
Address: 300 North Marienfeld Suite 600 Midland, TX. 79701  
Facility or well name: Libby Minerals LLC 1931 No. 7-1-L  
API Number: 30-021-20516 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr I Section 7 Township 19N Range 31E County: Harding  
Center of Proposed Design: Latitude 35.8898597 N Longitude 103.6932685 W NAD:  1927  1983  
Surface Owner:  Federal  State  Private  Tribal Trust or Indian Allotment

**Pit:** Subsection F or G of 19.15.17.11 NMAC  
Temporary:  Drilling  Workover  
 Permanent  Emergency  Cavitation  P&A  
 Lined  Unlined Liner type: Thickness 20 mil  LLDPE  HDPE  PVC  Other \_\_\_\_\_  
 String-Reinforced  
Liner Seams:  Welded  Factory  Other \_\_\_\_\_ Volume: 850 bbl Dimensions: L 80" x W 80" x D 6"

3.  
 **Closed-loop System:** Subsection H of 19.15.17.11 NMAC  
Type of Operation:  P&A  Drilling a new well  Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)  
 Drying Pad  Above Ground Steel Tanks  Haul-off Bins  Other \_\_\_\_\_  
 Lined  Unlined Liner type: Thickness \_\_\_\_\_ mil  LLDPE  HDPE  PVC  Other \_\_\_\_\_  
Liner Seams:  Welded  Factory  Other \_\_\_\_\_

4.  
 **Below-grade tank:** Subsection I of 19.15.17.11 NMAC  
Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_  
Tank Construction material: \_\_\_\_\_  
 Secondary containment with leak detection  Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  
 Visible sidewalls and liner  Visible sidewalls only  Other \_\_\_\_\_  
Liner type: Thickness \_\_\_\_\_ mil  HDPE  PVC  Other \_\_\_\_\_

**Alternative Method:**  
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6. **Fencing:** Subsection D of 19.15.17.11 NMAC (*Applies to permanent pits, temporary pits, and below-grade tanks*)

- Chain link, six feet in height, two strands of barbed wire at top (*Required if located within 1000 feet of a permanent residence, school, hospital, institution or church*)
- Four foot height, four strands of barbed wire evenly spaced between one and four feet
- Alternate. Please specify \_\_\_\_\_

7. **Netting:** Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

- Screen  Netting  Other \_\_\_\_\_
- Monthly inspections (If netting or screening is not physically feasible)

8. **Signs:** Subsection C of 19.15.17.11 NMAC

- 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- Signed in compliance with 19.15.3.103 NMAC

9. **Administrative Approvals and Exceptions:**

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

*Please check a box if one or more of the following is requested, if not leave blank:*

- Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.
- Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10. **Siting Criteria (regarding permitting):** 19.15.17.10 NMAC

*Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.*

*Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.*

- |  |  |
|--|--|
| Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><b>UNKNOWN</b>                         |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).<br>- Topographic map; Visual inspection (certification) of the proposed site   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. ( <i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i> )<br>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><input type="checkbox"/> NA |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. ( <i>Applies to permanent pits</i> )<br>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image   | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input checked="" type="checkbox"/> NA |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.<br>- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.<br>- Written confirmation or verification from the municipality; Written approval obtained from the municipality  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within 500 feet of a wetland.<br>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within the area overlying a subsurface mine.<br>- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within an unstable area.<br>- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within a 100-year floodplain.<br>- FEMA map  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |

11. **Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC  
*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC

Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC

Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC

Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC

Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

12. **Closed-loop Systems Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC  
*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9

Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC

Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC

Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC

Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_

Previously Approved Operating and Maintenance Plan API Number: \_\_\_\_\_ *(Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)*

13. **Permanent Pits Permit Application Checklist:** Subsection B of 19.15.17.9 NMAC  
*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC

Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

Climatological Factors Assessment

Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC

Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC

Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC

Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC

Quality Control/Quality Assurance Construction and Installation Plan

Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC

Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC

Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan

Emergency Response Plan

Oil Field Waste Stream Characterization

Monitoring and Inspection Plan

Erosion Control Plan

Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

14. **Proposed Closure:** 19.15.17.13 NMAC  
*Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.*

Type:  Drilling  Workover  Emergency  Cavitation  P&A  Permanent Pit  Below-grade Tank  Closed-loop System

Alternative

Proposed Closure Method:  Waste Excavation and Removal

Waste Removal (Closed-loop systems only)

On-site Closure Method (Only for temporary pits and closed-loop systems)

In-place Burial  On-site Trench Burial

Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15. **Waste Excavation and Removal Closure Plan Checklist:** (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC

Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)

Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16.

**Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:** (19.15.17.13.D NMAC)

*Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.*

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?  
 Yes (If yes, please provide the information below)  No

*Required for impacted areas which will not be used for future service and operations:*

Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17.

**Siting Criteria (regarding on-site closure methods only):** 19.15.17.10 NMAC

*Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.*

- Ground water is less than 50 feet below the bottom of the buried waste.  
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  Yes  No  NA
- Ground water is between 50 and 100 feet below the bottom of the buried waste  
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  Yes  No  NA
- Ground water is more than 100 feet below the bottom of the buried waste.  
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  Yes  No  NA
- Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  
- Topographic map; Visual inspection (certification) of the proposed site  Yes  No
- Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  Yes  No
- Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  
- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site  Yes  No
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  
- Written confirmation or verification from the municipality; Written approval obtained from the municipality  Yes  No
- Within 500 feet of a wetland.  
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  Yes  No
- Within the area overlying a subsurface mine.  
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division  Yes  No
- Within an unstable area.  
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  Yes  No
- Within a 100-year floodplain.  
- FEMA map  Yes  No

18.

**On-Site Closure Plan Checklist:** (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
- Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC
- Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
- Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

19. **Operator Application Certification:**  
 I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Scott Vanderburg Title: President  
 Signature: *Scott Vanderburg* Date: 7/17/2010  
 e-mail address: Scottv@foco2.com Telephone: 432-638-6455

20. **OCD Approval:**  Permit Application (including closure plan)  Closure Plan (only)  OCD Conditions (see attachment)

OCD Representative Signature: *Ed Martin* Approval Date: 12/13/2010  
 Title: DISTRICT SUPERVISOR OCD Permit Number: \_\_\_\_\_

21. **Closure Report (required within 60 days of closure completion):** Subsection K of 19.15.17.13 NMAC  
*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

Closure Completion Date: \_\_\_\_\_

22. **Closure Method:**  
 Waste Excavation and Removal  On-Site Closure Method  Alternative Closure Method  Waste Removal (Closed-loop systems only)  
 If different from approved plan, please explain.

23. **Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**  
*Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.*

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_  
 Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?  
 Yes (If yes, please demonstrate compliance to the items below)  No

*Required for impacted areas which will not be used for future service and operations:*  
 Site Reclamation (Photo Documentation)  
 Soil Backfilling and Cover Installation  
 Re-vegetation Application Rates and Seeding Technique

24. **Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- Proof of Closure Notice (surface owner and division)
- Proof of Deed Notice (required for on-site closure)
- Plot Plan (for on-site closures and temporary pits)
- Confirmation Sampling Analytical Results (if applicable)
- Waste Material Sampling Analytical Results (required for on-site closure)
- Disposal Facility Name and Permit Number
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique
- Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD:  1927  1983

25. **Operator Closure Certification:**  
 I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): \_\_\_\_\_ Title: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 e-mail address: \_\_\_\_\_ Telephone: \_\_\_\_\_

**Hydrogeological Data**  
(Based on Appropriate Requirements of 19.15.17.11 NMAC)

**Well Name:**

Libby Minerals, LLC 1931 No. 7-1-L

**Topography:**

This location is within the Great Plains Physiographic Province, with flat to rolling prairie and scattered hills and bluffs. The land gradually rises westward, giving way to the frontal ranges of the Rocky Mountains. Elevation of the referenced well is approximately 4537 feet MSL. The location is on a very gentle, south-southeastern slope, approximately one mile northwest of the Black Hills (see Siting Criteria Map II, attached).

**Soils:**

Soils within this region have been mapped by the Natural Resources Conservation Service. The following soil unit occurs within the proposed project area:

**Amarillo fine sandy loam:**

This soil type is generally found on plains at an elevation of 3800 to 5000 feet. It is made up of 85% Amarillo and similar soils. Amarillo soils, generally found on 1- to 3-percent slopes, are well drained with no frequency of flooding or ponding. The available water capacity is high and the depth to the water table is more than 80 inches. A typical profile is fine sandy loam from 0 to 5 inches and sandy clay loam from 5 to 65 inches.

Source: United States Department of Agriculture, Natural Resources Conservation Service. 2008. Soil Survey Geographic (SSURGO) Database for Harding County, New Mexico. Accessed September 2010.

**Geology:**

The geology of this region has been mapped by the United States Geological Survey. Geology within the project area is undefined, but is of Triassic age and is formed of medium- and fine-grained mixed clastic materials. Adjacent areas, 300 feet to the south, are mapped as Quaternary alluvium.

Source: United States Geological Survey. Updated December 2007. Preliminary Integrated Geologic Map Databases for the United States: Central States: Montana, Wyoming, Colorado, New Mexico, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, Texas, Iowa, Missouri, Arkansas, and Louisiana. <http://tin.er.usgs.gov/geology/state/state.php?state=NM>. Accessed September 2010.

**Surface Hydrology:**

Northeastern New Mexico is drained by the Arkansas River and its tributary, the Canadian River. The location would drain to the southeast for approximately 0.60 mile to an unnamed drainage. This drainage would subsequently flow approximately 1.5 miles northeast into Ute Creek, a continuously flowing tributary of the Canadian River. Topographic maps indicate that the pit would be greater than 300 feet from any significant waterways or surface water (see Siting Criteria Map II, attached).

**Ground Water Hydrology:**

This location is within central Harding County, New Mexico, within the Great Plains Physiographic Province. The High Plains aquifer extends westward into eastern Harding County, but in the proposed project region there is no principal aquifer. Aquifers do not exist here, yield too little water to wells to be significant, or yield sufficient water to supply local requirements but are not extensive enough to be classified as a major aquifer.

Depth to groundwater is unknown at this location, because the nearest recorded wells with available water depth information are at least 3.0 miles from the location (see Siting Criteria Map I and Office of the State Engineer (OSE) Water reports, attached). The nearest water wells identified on OSE shapefiles are listed below:

<u>Well</u>	<u>Distance from Proposed Project</u>	<u>Depth to Water</u>
TU 1363	approximately 3.0 miles north-northeast	24 ft
TU 503	approximately 3.2 miles west-northwest	80 ft

Source: United States Geological Survey. 2001. Groundwater Atlas of the United States: Arizona, Colorado, New Mexico and Utah. USGS Publication HA 730-C; <http://capp.water.usgs.gov>.

New Mexico Office of the State Engineer. 2008. GIS Shapefile: Wells and Surface Diversions in New Mexico (PODS\_may08.shp).

New Mexico Office of the State Engineer. 2010. New Mexico Water Rights Reporting System. <http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html>. Internet accessed September 2010.

**Siting Criteria Compliance Demonstrations  
(Based on Appropriate Requirements of 19.15.17.10 NMAC)**

**Depth to groundwater (should not be less than 50 feet):**

Depth to groundwater is unknown at this location, because the nearest recorded wells with available water depth information are at least 3.0 miles from the location (see Siting Criteria Map I and iWaters reports, attached). The nearest water wells identified on the OSE shapefiles are listed below:

<u>Well</u>	<u>Distance from Proposed Project</u>	<u>Depth to Water</u>
TU 1363	approximately 3.0 miles north-northeast	24 ft
TU 503	approximately 3.2 miles west-northwest	80 ft

**Distance to watercourse (should not be within 300 feet of a continuously flowing watercourse or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake):**

Topographic maps indicate that the pit would be greater than 300 feet from any significant waterways, surface waters, etc (see Siting Criteria Map II, attached).

**Distance to buildings (should not be within 300 feet of a permanent residence, school, hospital, institution, or church):**

The pit would not be within 300 feet of any of these locations (see Siting Criteria Map I).

**Distance to springs or wells (should not be within 500 feet of a private, domestic fresh water well or spring used by less than five (5) households or within 1000 feet of any other fresh water well or spring):**

The pit would not be within 500 feet of any well or spring (see Siting Criteria Map I).

**Presence within incorporated area (should not be within incorporated municipal boundaries or within defined municipal fresh water well field covered under municipal ordinance):**

The pit would not be within an incorporated area or municipal fresh water well field (see Siting Criteria Map I).

**Distance to wetlands (should not be within 500 feet):**

The USFWS has not mapped this location for wetlands (see Wetlands map, attached). However, soils data, topographic maps, and ortho data indicate that the location is not near a wetland.

**Location above subsurface mine (should not overlie a subsurface mine):**

The pit would not overlie a mine (see Mines, Mills, and Quarries map, attached).

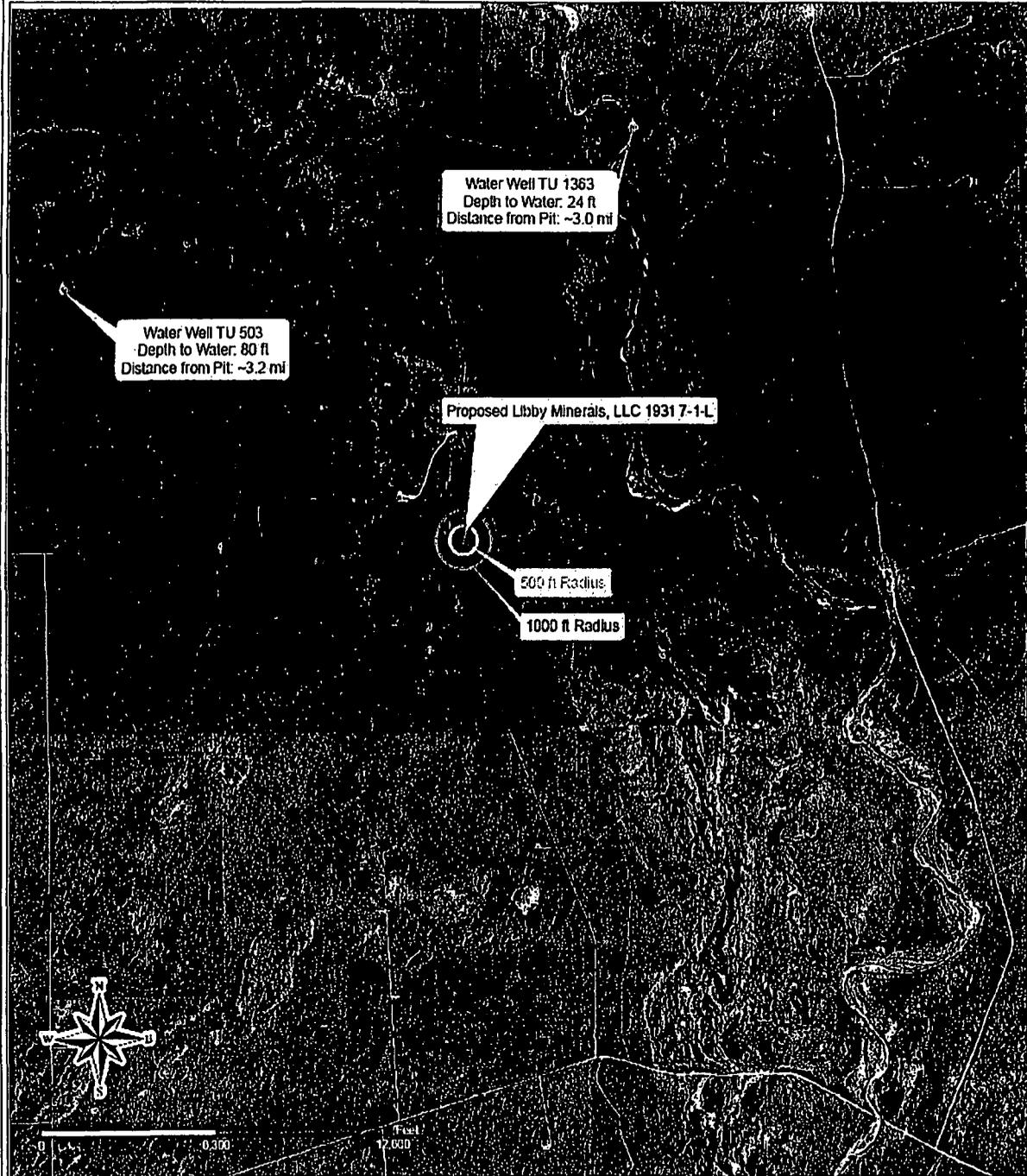
**Presence within unstable area (should not be within an unstable area):**

The location would not be within an unstable area (See Siting Criteria Map II).

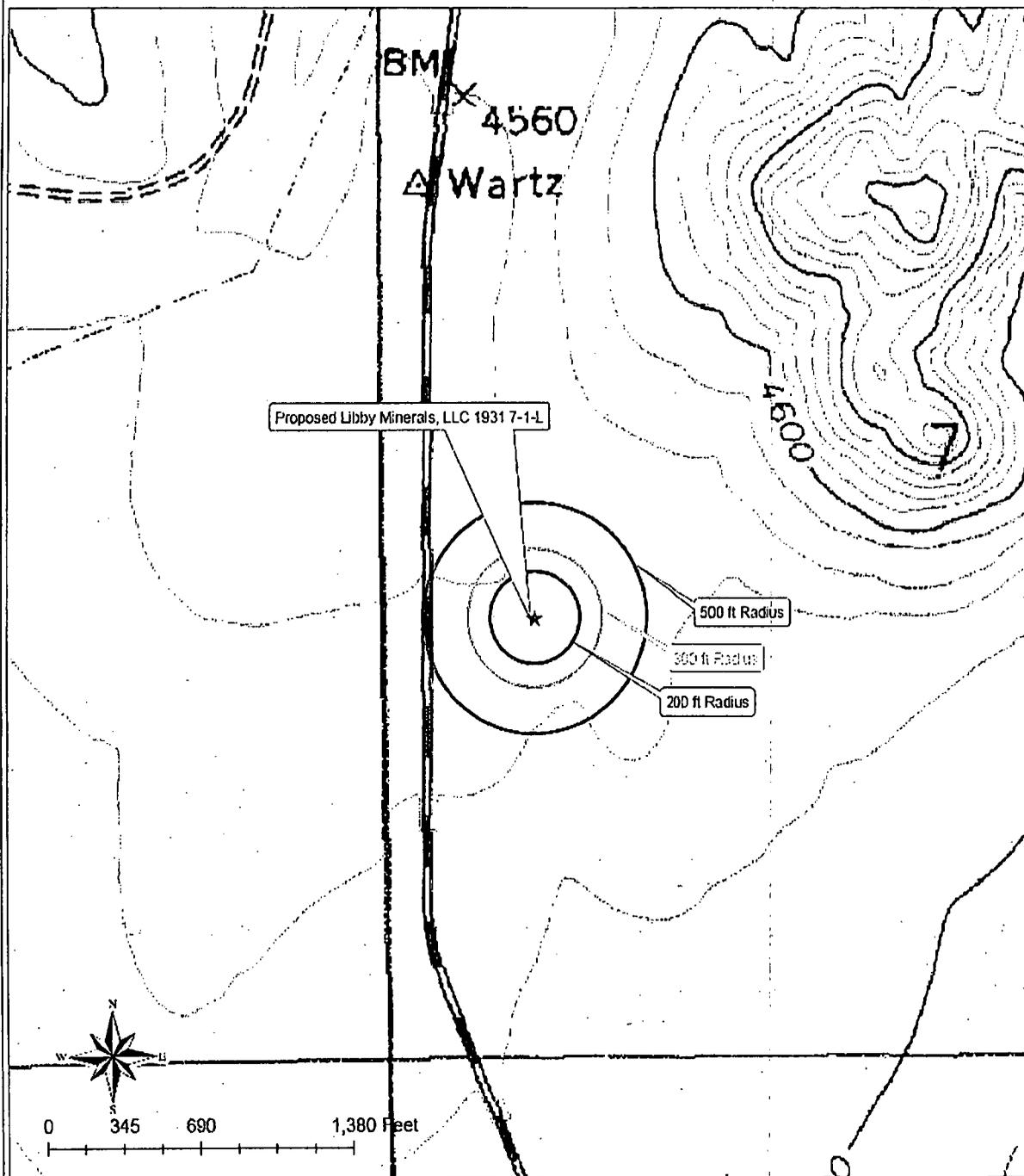
**Presence within floodplain (should not be within a 100-year floodplain):**

The location has not been mapped by FEMA (see FEMA printout, attached). However, soils data, topographic maps, and ortho data indicate that the location is not within a floodplain.

Siting Criteria Map I  
Water Wells  
Reliant Exploration & Production, LLC  
Libby Minerals, LLC 1931 No. 7-1-L  
T19N, R31E, Section 7, NMMPM  
Harding County, New Mexico



Siting Criteria Map II  
Topographic Features  
Reliant Exploration & Production, LLC  
Libby Minerals, LLC 1931 No. 7-1-L  
T19N, R31E, Section 7, NMPM  
Harding County, New Mexico





*New Mexico Office of the State Engineer*  
**Water Column/Average Depth to Water**

No records found.

Basin/County Search:

County: Harding

PLSS Search:

Section(s): 7

Township: 19N

Range: 31E



*New Mexico Office of the State Engineer*  
**Water Column/Average Depth to Water**

No records found.

Basin/County Search:

County: Harding

PLSS Search:

Section(s): 6

Township: 19N

Range: 31E



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*New Mexico Office of the State Engineer*  
**Water Column/Average Depth to Water**

---

No records found.

Basin/County Search:

County: Harding

PLSS Search:

Section(s): 5

Township: 19N

Range: 31E



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*New Mexico Office of the State Engineer*  
**Water Column/Average Depth to Water**

---

No records found.

Basin/County Search:

County: Harding

PLSS Search:

Section(s): 8

Township: 19N

Range: 31E



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*New Mexico Office of the State Engineer*  
**Water Column/Average Depth to Water**

---

No records found.

Basin/County Search:

County: Harding

PLSS Search:

Section(s): 17

Township: 19N

Range: 31E



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*New Mexico Office of the State Engineer*  
**Water Column/Average Depth to Water**

---

No records found.

Basin/County Search:

County: Harding

PLSS Search:

Section(s): 18

Township: 19N

Range: 31E



## New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Sub basin	Use	County	Q Q Q			Sec	Tws	Rng	X	Y	Depth	Depth	Water	
				64	16	4						Well	Water	Column	
TU 00568	STK	HA		1	1	2	01	19N	32E	636239	3975340	250			
												Average Depth to Water:	-		
												Minimum Depth:	-		
												Maximum Depth:	-		

**Record Count: 1**

**Basin/County Search:**

County: Harding

**PLSS Search:**

Section(s): 1

Township: 19N

Range: 32E



## New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

**Basin/County Search:**

County: Harding

**PLSS Search:**

Section(s): 12

Township: 19N

Range: 32E



---

*New Mexico Office of the State Engineer*  
**Water Column/Average Depth to Water**

---

No records found.

**Basin/County Search:**

County: Harding

**PLSS Search:**

Section(s): 13

Township: 19N

Range: 32E



# 100-year Floodplain Data

FEMA Map Service Center - FEMA Issued Flood Maps

<http://msc.fema.gov/webapp/wcs/stores/servlet/CategoryDisplay?store...>



[Product Catalog](#) | [Map Search](#) | [Quick Order](#) | [Digital Post Office](#) | [Help](#)  
[Home](#) > [Product Catalog](#) > [FEMA Issued Flood Maps](#)

[Log on](#)

## FEMA Issued Flood Maps

State : NEW MEXICO

County : HARDING COUNTY

Community : HARDING CO\*

**Sorry there are no items to display for this State, County and Community.**

\* designates unincorporated areas

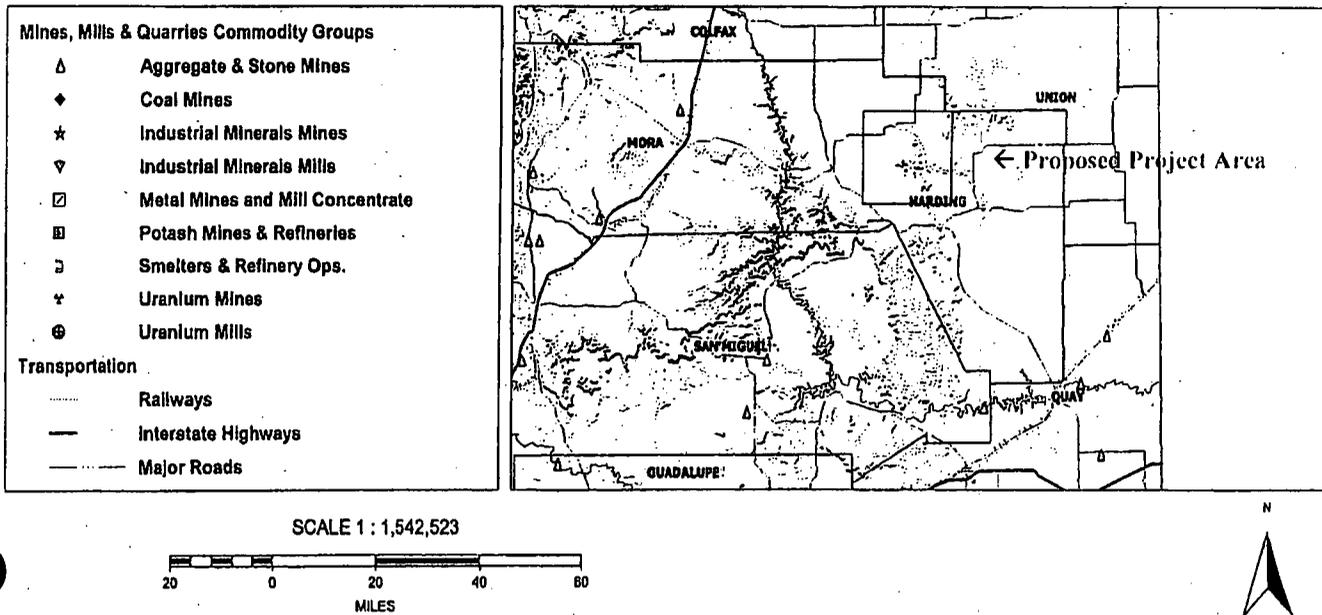
[FEMA.gov](#) | [Accessibility](#) | [Privacy Policy](#) | [FAQ](#) | [Site Help](#) | [Site Index](#) | [Contact Us](#)  
FEMA Map Service Center, P.O. Box 1038 Jessup, Maryland 20794-1038 Phone: (800) 358-0610  
Adobe Acrobat Reader required to view certain documents. [Click here to download.](#)

FEMA Map Service Center.

<http://www.msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1>. Accessed September 2010.

MINES, MILLS, AND QUARRIES IN NEW MEXICO

MMQonline Public Version



<http://www.emnrd.state.nm.us/MMD/MMQonline/MMQonline-PUBLIC-PROD.mwf>

Tuesday, March 31, 2009 11:13 AM

Source: New Mexico Energy, Minerals and Natural Resources Department, Division of Mining and Minerals. Database. 2008.  
<http://www.emnrd.state.nm.us/MMD/MRRS/MinesMillsQuarriesWebMap.htm>. Internet accessed March 2009.

**Design Plan**  
**(Based on Appropriate Requirements of 19.15.17.11 NMAC)**

Design and construction specifications for this temporary pit are as follows:

- Prior to constructing the pit, topsoil would be stripped and stockpiled for use as final cover or fill at the time of closure.
- An upright sign (at least 12" x 24" with lettering at least 2" in height) would be placed conspicuously on the fence surrounding the pit, unless the site has an existing well sign (complying with 19.15.3.103 NMAC). The sign would be posted in a manner and location such that the legend can be easily read, and would contain the following information: operator's name, legal location (quarter-quarter or unit letter, section, township, and range), and emergency telephone number(s).
- If an adequate surrounding perimeter fence does not already prevent unauthorized access to the well site or facility, the pit would be fenced or enclosed in a manner that prevents unauthorized access. The fence would be at least four (4) foot in height with at least four (4) strands of barbed wire evenly spaced between the top and bottom. Fences would be maintained in good repair. During drilling or workover operations, three (3) sides of the pit would be fenced; the side adjacent to the drilling or workover rig would remain open only during such operations.
- The pit would be designed and constructed to ensure the confinement of liquids.
- The pit would be constructed with a properly constructed foundation and interior slopes consisting of a firm, unyielding base. The pit would be smooth and free of rocks, debris, sharp edges, or irregularities to prevent the liner's rupture or tearing. Slopes would be no steeper than two (2) horizontal feet to one (1) vertical foot (2H:1V).
- The pit would have a geomembrane liner with 20-mil string-reinforced LLDPE or its equivalent (approved by the division district office). This liner would be composed of an impervious, synthetic material resistant to petroleum hydrocarbons, salts, and acidic and alkaline solutions. The liner would be resistant to ultraviolet light. The liner would comply with EPA SW-846 method 9090A.
- Qualified personnel would perform field seaming. Liner seams would be minimized, particularly in corners and irregularly shaped areas. Field liner seams would be welded. Factory-welded seams would be used where possible. Prior to field seaming, liners would be overlapped four (4) to six (6) inches and would be oriented parallel to the line of maximum slope (along, not across, the slope).
- Construction would avoid excessive stress-strain on the liner.
- Geotextile would be used under the liner where needed to reduce localized stress-strain or protuberances that may compromise the liner's integrity.
- The edges of all liners would be anchored in the bottom of a compacted, earth-filled trench that is at least 18" deep.
- The liner would be protected from any fluid force or mechanical damage at any point of discharge into or suction from the pit.
- A berm, ditch, proper sloping, or other diversion would be constructed around the pit to prevent run-on of surface water. During drilled operations, the edge of the pit adjacent to the drilling or workover rig may not have protection if the pit is being used to collect liquids escaping from the rig and run-on will not result in a breach of the pit.
- The volume of the pit would not exceed 10 acre-feet, including freeboard.

**Operating & Maintenance Plan**  
**(Based on Appropriate Requirements of 19.15.17.12 NMAC)**

Operating and maintenance specifications for this temporary pit are as follows:

- The pit would be maintained to contain liquids and solids, prevent contamination of fresh water, and protect public health of the environment.
- All drilling fluids would be recycled, reused, reclaimed, or disposed of in a manner approved by division rules and that prevents contamination of fresh water and protects public health and the environment.
- Hazardous waste would not be discharged into or stored in the pit.
- If the pit liner's integrity is compromised or if penetration of the liner occurs above the liquid's surface, the appropriate division district office would be notified within 48 hours of the discovery, and the liner would be repaired or replaced.
- If the pit develops a leak or if any penetration of the liner occurs below the liquid's surface, all liquid above the damage or leak line would be removed within 48 hours, the appropriate division district office would be notified within 48 hours, and the liner would be repaired or replaced.
- The injection or withdrawal of liquids from the pit would be accomplished via a header, diverter, or other hardware that prevents damage to the liner by erosion, fluid jets, or impact from installation and removal of hoses or pipes.
- Pit operation would prevent the collection of surface water run-on.
- An oil-absorbent boom or other device would be installed and maintained onsite to contain and remove oil from the pit's surface.
- Only fluids used or generated during drilling or workover processes would be discharged into the pit. The pit would remain free of miscellaneous solid waste or debris. A tank made of steel or other division district office-approved material would be used to contain hydrocarbon-based drilling fluids. Immediately after cessation of a drilling or workover operation, any visibly or measurable layer of oil would be removed from the surface of the pit.
- At least two (2) feet of freeboard would be maintained.
- The pit would be inspected at least once daily while the drilling or workover rig is onsite. Thereafter, the pit would be inspected weekly as long as liquids remain within it. An inspection log would be maintained and made available to the division district office upon request. A copy of the log would be filed with the division district office at the time of pit closure.
- All free liquids would be removed from the pit within 30 days from release of the drilling or workover rig. On form C-105 or C-103, the date of the drilling or workover rig's release would be noted. If necessary, an extension of up to three (3) months may be requested from the division district office; this extension may or may not be granted.
- Any liquids used for cavitation would be removed from the pit within 48 hours after completing cavitation. If it is not feasible to access the location within 48 hours, this would be demonstrated to the district office's satisfaction and additional time would be requested.

**Closure Plan**  
**(Based on Appropriate Requirements of Subsection C, 19.15.17.9 NMAC & 19.15.17.13 NMAC)**

Closure specifications for this temporary pit are as follows:

- The pit would be closed within six (6) months from the date that the drilling or workover rig is released. If necessary, the division district office may grant an extension not to exceed three (3) months.
- All liquids from the pit would be removed prior to closure. Liquids would be disposed of at the Sundance Services, Inc. Parabo Disposal Facility (Permit No. 010003), unless they are recycled, reused, or reclaimed in a division district office-approved manner.
- All contents, including synthetic pit liners, would be excavated from the pit and transported to Sundance Services, Inc. Parabo Disposal Facility (Permit No. 010003).
- The soils beneath the pit would be tested to determine whether a release occurred. A five-point composite sample would be collected. In addition, grab samples would be gathered from any area that is wet, discolored, or showing evidence of a release. The samples would be sent to an approved laboratory and analyzed for benzene, total BTEX, TPH, the GRO and DRO combined fraction, and chlorides. The following should not be exceeded:
  - Benzene (as determined by EPA SW-846 method 8021B or 8260B or other division-approved EPA method): 0.2 mg/kg
  - 
  - BTEX (as determined by EPA SW-846 method 8021B or 8260B or other division-approved EPA method): 50 mg/kg
  - 
  - TPH (as determined by EPA SW-846 method 418.a or other division-approved EPA method): 2500 mg/kg
  - 
  - GRO and DRO combined fraction (as determined by EPA SW-846 method 8015M): 500 mg/kg
  - 
  - Chlorides (as determined by EPA method 300.1): 500 mg/kg or background concentration, whichever is greater

The division would be notified of the results on form C-141, at which point the division may require additional delineation.

- If it is determined that a release has occurred, Reliant would comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.
- If it is determined that a release has not occurred, or that any release doesn't exceed the above-specified concentrations, the pit excavation would be backfilled with compacted, non-waste-containing, earthen material. A division-prescribed soil cover would be constructed and the site would be recontoured and revegetated, per Subsections G, H, and I of 19.15.17.13 NMAC:
  - All areas associated with the pit that are no longer being used would be substantially restored to the condition that existed prior to oil and gas operations by placement of the soil cover (detailed below), recontouring to match original contours and surrounding topography, and revegetating (detailed below).
  - If an alternative to the revegetation requirements is required to prevent erosion, protect fresh water, or protect human health and the environment, this alternative would be proposed to the surface owner. The proposed alternative, with written documentation

demonstrating that the surface owner approves the alternative, would be submitted to the division for approval.

- Soil cover would consist of the background thickness of topsoil or one (1) foot of material suitable for establishing vegetation at the site, whichever is greater.
  - Soil cover would be constructed to the site's existing grade and would prevent ponding of water and erosion of the cover material.
  - The first growing season following pit closure, all disturbed areas associated with the pit and no longer being used would be seeded or planted.
  - Seeding would be accomplished by drilling on the contour whenever practical, or by other division-approved methods. Vegetative cover equaling 70% of the native perennial vegetative cover (unimpacted by overgrazing, fire, or other damaging intrusion) would be obtained. This cover would consist of at least three (3) native plant species, including one (1) grass species but not including noxious weeds. That cover would be maintained through two (2) successive growing seasons, during which time no artificial irrigation would occur.
  - Seeding or planting would be repeated until the required vegetative cover is successfully achieved.
  - When conditions aren't favorable for the establishment of vegetation (such as during periods of drought), the division would be contacted for approval to delay seeding or planting, or for approval to use additional cultural techniques such as mulching, fertilizing, irrigating, fencing, etc.
  - The division would be notified when seeding or planting is completed, and when successful revegetation has been achieved.
- Within 60 days of closure, completion, a closure report would be submitted on form C-144, with necessary attachments, to document closure activities, including sampling results, a plot plan, and backfilling details. In this closure report, Reliant would certify that all information in the report and attachments is correct and that Reliant has complied with all applicable closure requirements and conditions specified in the approved Closure Plan. A plat of the temporary pit location would be provided on form C-105.

Reliant Exploration and Production LLC  
300 N. Marienfeld, Suite 600  
Midland, Texas 79701

September 20, 2010

RECEIVED OGD  
2010 SEP 21 11:24

VIA UPS NEXT DAY AIR

Mr. Ed Martin  
District IV Supervisor  
New Mexico Oil Conservation Division  
1220 S. St. Francis  
Santa Fe, New Mexico 87505

Re: Reliant Exploration & Production LLC  
OGRID Number: 251905  
Forms C-101, C-102, C-144

Dear Mr. Martin:

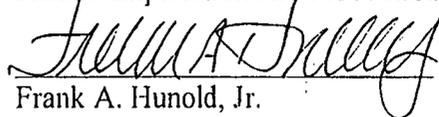
Reliant Exploration and Production LLC hereby submits for filing with the State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division ("OCD"), the following:

- (i) C-101, Application for Permit to Drill, Well No. 7-1-L, Section 7, Township 19 North, Range 31 East, NMPM, Harding County, NM;
- (ii) C-102, Well Location and Acreage Dedication Plat, Well No. 7-1-L, Section 7, Township 19 North, Range 31 East, NMPM, Harding County, NM;
- (iii) C-144, Pit or Below-Grade Tank Registration, Well No. 7-1-L, Section 7, Township 19 North, Range 31 East, NMPM, Harding County, NM.

Please let me know if you have any questions or need additional information. Thank you.

Kindest Regards,

Reliant Exploration and Production LLC



Frank A. Hunold, Jr.

General Counsel

Tel. (432) 617-4211

Email: [fhunold@reliantholdingsltd.com](mailto:fhunold@reliantholdingsltd.com)

**Martin, Ed, EMNRD**

---

**From:** Frank A. Hunold Jr. [fhunold@reliantholdingsltd.com]  
**Sent:** Tuesday, September 28, 2010 9:53 AM  
**To:** Martin, Ed, EMNRD  
**Cc:** Vance Vanderburg; Scott Vanderburg; Freddie Vanderburg  
**Subject:** FW: C-101, C-102, C-144 for the Libby Minerals 7-1-L

Ed,

See Reliant's answers to your questions below. In looking at Reliant's previous C-101s. It appears from reviewing previous C-101s that we have been using well numbers with an alphabetical suffix.

Let me know if you need anything else. Thanks for your help.

Frank

Frank A. Hunold, Jr.  
General Counsel  
Reliant Exploration and Production LLC  
300 N. Marienfeld, Suite 600  
Midland, Texas 79701  
[fhunold@flococo2.com](mailto:fhunold@flococo2.com)  
Tel.: 432-617-4211  
Fax: 432-617-4399

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**From:** Vance Vanderburg  
**Sent:** Tuesday, September 28, 2010 10:27 AM  
**To:** Frank A. Hunold Jr.  
**Cc:** Scott Vanderburg; Freddie Vanderburg  
**Subject:** RE: C-101, C-102, C-144 for the Libby Minerals 7-1-L

Frank,

1. Spud date should be 4/1/2011.
2. C-101 needs to be changed to 20-mil to match C-144.
3. The correct well name includes the alphabetic suffix (Libby Minerals LLC 1931 No. 7-1-L).

Thanks,

Vance Vanderburg  
Reliant Holdings LTD.  
Director of Sales  
Direct 432-617-4213  
Cell 432-559-7085

Martin, Ed, EMNRD

---

To: Frank Hunold (fhunold@floc2.com)  
Subject: C-101, C-102, C-144 for the Libby Minerals 7-1-L

Contacts: Frank Hunold

Questions:

1. C-101 shows proposed spud date of 4/1/2010. What is the correct proposed date?
2. Attachment to C-101 shows 12-ply liner for reserve pit. Should this be 20-mil so that it agrees with the C-144?
3. None of Reliant's other wells have well numbers with an alphabetic suffix. Do you want this one to be 071-L or just 071?

I can make changes to the forms rather than have you re-submit. I will be out of the office today and tomorrow. If you need to reach me, try my cell phone. I'll be back in the office on Thursday.

*Ed Martin*

District IV Supervisor  
New Mexico Oil Conservation Division  
1220 S. St. Francis  
Santa Fe, NM 87505  
505-476-3470 phone  
505-476-3462 fax  
505-690-2365 cell  
[ed.martin@state.nm.us](mailto:ed.martin@state.nm.us)

Martin  
New Mexico OCD  
September 20, 2010  
Page 2

cc: Tom Kellahin  
Earl DeBrine  
Scott Vanderburg  
Vance Vanderburg