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

District IV

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

		Reliai	Operator Nam t Exploration of 3700 Kermi Odessa, Te	& Production it Highway		251905 API Number 30 - 921 - 20450									
_	rty Code			Property Name LIBBY MINERALS LLC 1931						1 20 0 2.1	Wei To				
37025 Proposed										10 Propose	¹⁰ Proposed Pool 2				
		Bra	ivo Dome 9601	0	2 5										
<u> </u>					⁷ Surface Locat			North/South line				East/West line County			
UL or lot no.	Section 6	Township 19 North	Range 31 East	Lot I	dn	Feet from the 1801'	he			Feet from the E. 1731'		=	County		
NMPM North West									Harding						
UL or lot no.	Section	Township			Idn Feet from			North/South line		Feet from the			County		
					tional	nal Well Information									
II Work I		13 Cable/Ro	tary 14 Lease Type Code					15 Ground Level Elevation							
N			C 17 P1 D-	41.		R 18 Formati				P 19 Contractor		4515 20 Spud Date			
	iitipie IO		¹⁷ Proposed De 2600'	pin	TUBB				PSTAR DRILLING	,	3/20/2008				
Depth to Group	ndwater 100°			Distance		rest fresh w	vater well Distance from nearest surface water > 1000°,								
<u>Pit:</u> Liner:	Synthetic		mils thick Cla	y Pit V	olume:	850bb	ols		Drilling						
Closed	i-Loop Sys	tem 🗌	21.							Brine Diesel	/Oil-bas	sed Gas/A	ir 🗌		
	T		1	Proposed	d Casin	ng and C	Ceme	nt Pr	ogram						
Hole Siz		Casing		Casing weight/foot					s	Sacks of Cement		Estimated			
12-1/4				24# 5.0#EC/15.5#		2600	700' 2600'		 	300SX	+	SURFA			
<i>J-1/8</i>	_ 7-7/8 "5-1/2"		2	5.9#FG/15.5#		1 2000	2000			400SX	+-	SURFA	ICE		
²² 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.										productive					
SEE ATTACHMENTS OIL CONSERVATION COMMISSION TO BE NOTIFIED															
WITHIN 24 HOURS OF BEGINNING OPERATIONS															
23 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															
of my knowledge and beltef. I further certify that the drilling pit will be constructed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .										.N					
Signature.								Approved by:							
	anderburg	Title: DISTRICT SUPFRVISOR						D							
Printed name: Scott S. Vanderburg Title: President								Approval Date: 3/3/08 Expiration Date: 3/3/10							
E-mail Address	reliantholdin	Dapation Date. 3/3//0													
Date: 2/19/2008 Phone: 432-362-9206							Conditions of Approval Attached								

ATTACHMENT C-101 RELIANT EXPLORATION & PRODUCTION WELL 6-1-F

PROPOSED TD: 2600'

BOP PROGRAM:

0-700' None

700 - 2600' 9" annular 3000# Ragan Tuaras

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 200sx 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 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

Mud

0-700'

Fresh water/native mud. Wt 8.6-9.2ppg,

Vis 32.=-36sec

700-2600'

Fresh water/ Starch/Gel with ph control as needed.

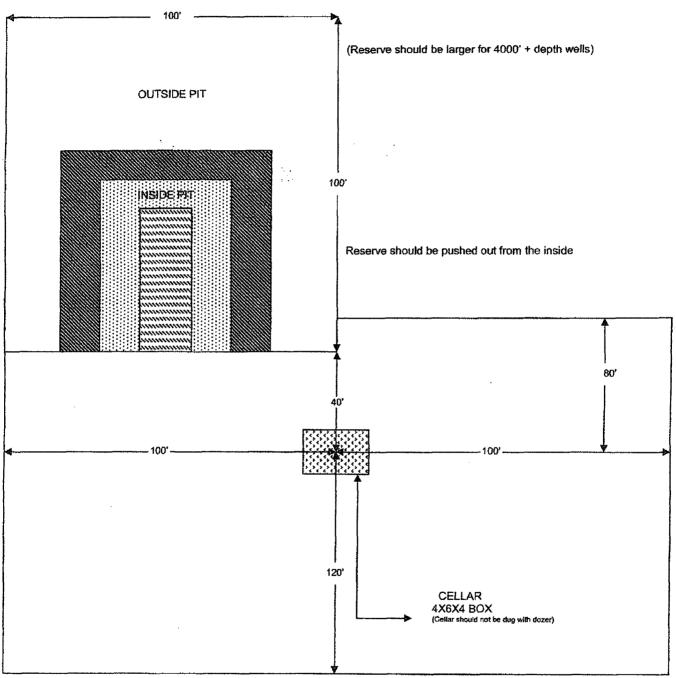
Wt 9.0-9.2ppg, Vis 28-29 sec

Utilizing Metal Pits with a 20' by 90' 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

1301 W. Grand Avenue, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

District II

District III

8240 Fı

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

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Sunta re, NM 67303

☐ AMENDED REPORT

		, .											Anv	REMOLD I	ALFORT ,
				WE	ELL LOC	CATION	AND	ACRE	AGE DEDIC	CATION	PLA	Γ		~	<u>;</u>
API Number						Pool Code			Pool Name					<u> </u>	
30-021-20450					96010				Bravo Dome					-	n m
Property Code								ty Name					V	Number 1	
37025				LIBBY MINERALS LLC 1931									6	Number 1-F	
	GRID No.				Operator Name										Hevation
251905			RELI	ELIANT EXPLORATION & PRODUCTION, LLC.								.	4515'		
Surface Location															
UL or lot no.	Section		Township		Ro	inge		Lot Idn	Feet from the	North/So	outh line	Feet from the	East/Wes	t line	County
F	6	19	NORTH	31	EAST,	N. M. P.	M.		1801'	NOF	RTH	1731'	WES	Т	HARDING
					Botton	n Hole	Loca	ation	lf Differen	t Fron	n Sur	face			
UL or lot no.	Section		Township			inge			Feet from the				East/Wes	t line	County
															,
Dedicated	Acres	Join	nt or Infill	Consolid	ation Code	Orde	r No.	1				l			
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.															
			1 1						Т					· · · · ·	
			1										OPERATO	r certif	ICATION
					1			LOCATION				l her	eby certify	that the	e information

			OPERATOR CERTIFICATION
	,,1801,	SURFACE LOCATION NEW MEXICO EAST NAD 1927 Y=1786627.7 X=690603.1 LAT.: N 35.9087528* LONG.: W 103.6902141*	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.
1731'			Signature VI July 2/1/4/2008 Signature Oxte JCOTT J. Vanderbyrg
			JCOTT J. Vanderburg Printed Name
			SURVEYOR CERTIFICATION
			I hereby certify that the well ocation shown on this plat and platted from field notes of actual surveys ratide by me or under my supervision, and that the same is true only correct to the best of my selicity. 15079 DECEMBER 18, 2007
			DECEMBER 18, 2007 Date of Sulvey Signature and Sept of Professional Sulveyor SSIONALL
			Certificate/Nu/hber 15079
			WO# 071217WL-a (Rev. A) (KA)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 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

Approval:

Printed Name/Title

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes \(\subseteq \) No \(\subseteq \)

Type of action: Registration of a pit or below-grade tank \(\subseteq \) Closure of a pit or below-grade tank \(\subseteq \) Reliant Exploration & Production, LLC. Telephone: 800-523-5566 e-mail address: vance@reliantgases.com_ Address: 3700 Kermit Highway Odessa, TX 79764 Facility or well name: Libby Minerals LLC 1931 Well #6-1-F API #: 20450 U/L or Qtr/Qtr F Sec 6 T 19 North R 31 East Latitude N 35.9087528 Longitude W 103.6902141 NAD: 1927 X 1983 Harding Surface Owner: Federal State Private X Indian Below-grade tank Pit Type: Drilling 🛛 Production 🗌 Disposal 🗍 Volume: bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes

If not, explain why not. Lined 🛛 Unlined 🗌 Liner type: Synthetic M Thickness 12 mil Clay Pit Volume 850 bbl (20 points) Less than 50 feet Depth to ground water (vertical distance from bottom of pit to seasonal 50 feet or more, but less than 100 feet (10 points) high water elevation of ground water.) (100 feet or more) (0 points) (20 points) Wellhead protection area: (Less than 200 feet from a private domestic (No) (0 points) water source, or less than 1000 feet from all other water sources.) Less than 200 feet (20 points) Distance to surface water: (horizontal distance to all wetlands, playas, 200 feet or more, but less than 1000 feet (10 points) irrigation canals, ditches, and perennial and ephemeral watercourses.) 1000 feet or more (0 points) **Ranking Score (Total Points)** If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite \(\square\) offsite \(\square\) If offsite, name of facility . (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No 🗌 Yes 🔲 If yes, show depth below ground surface ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations. **Additional Comments:** I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described 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 🔲. Date: 2/19/2008 Scott S. Vanderburg / President Signature Your certification and NMOCD approval of this application/closure does not relieve the operator of Hability should the contents of the pit or tank contaminated ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

DISTRICT SUPERVISOR Signature Martin Date: 3/3/08

Form C-144