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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
March 12, 2004

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 ☐ No ☒
Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: Cimarex Energy Co. Telephone: 972-443-6489 e-mail address: zfarris@cimarex.com
Address: P.O. Box 140907, Irving, Tx 75014-0907
Facility or well name: Redcloud No. 1 API #: 30-025- 38136 U/L or Qtr/Qtr N Sec 13 T 15S R 37E
County: Lea Latitude 330040.1 N Longitude 1030924.0 W NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☐ State ☐ Private ☒ Indian ☐

Pit	**Below-grade tank**	
Type: Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ Liner type: Synthetic ☒ Thickness 12 mil Clay ☐ Volume _____bbl Closed system, cuttings to be hauled	Volume: ____bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes ☐ If not, explain why not. _____	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	(Less than 50 feet) 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes (No)	(20 points) (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet (1000 feet or more)	(20 points) (10 points) (0 points)
	Ranking Score (Total Points)	20

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: onsite ☐ offsite ☐ 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.

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: 09-22-06
Printed Name/Title Zeno Farris Manager Operations Administration Signature Zeno Farris

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate 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.

Approval:
Date: 9/25/06
Printed Name/Title GARY W. WINK | STAFF MGR Signature Gary W. Wink

CIMAREX

Project: Lea County (NAD 83)
Site: Redcloud #1
Well: Redcloud #1
Wellbore: Lateral #1
Plan: Plan #1 (Redcloud #1/Lateral #1)

BLACK VIPER ENERGY SERVICES, LTD.

PROJECT DETAILS: Lea County (NAD 83)

Geodetic System:US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

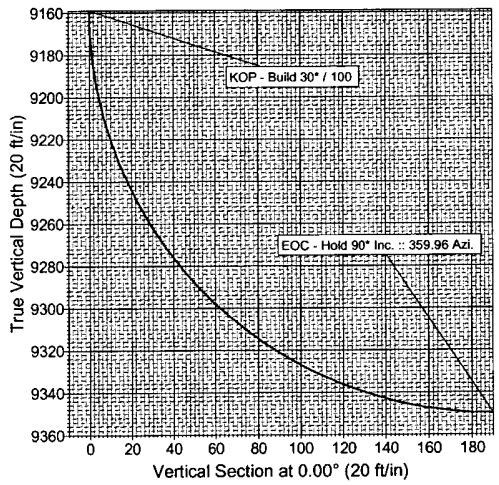
System Datum: Mean Sea Level

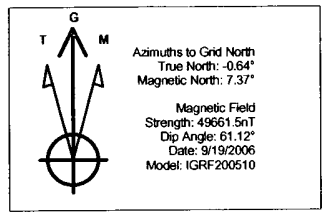
ANNOTATIONS

TVD	MD	Annotation
9159.01	9159.01	KOP - Build 30° / 100
9350.00	9459.01	EOC - Hold 90° Inc. :: 359.96 Azi.

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	9159.00	0.00	0.00	9159.00	0.00	0.00	0.00	0.00	0.00	
2	9159.01	0.00	0.00	9159.01	0.00	0.00	0.00	0.00	0.00	
3	9459.01	90.00	0.00	9350.00	190.99	0.00	30.00	0.00	190.99	
4	11198.03	90.00	0.00	9350.00	1930.00	0.00	0.00	0.00	1930.00	PBHL#1[RC#1]

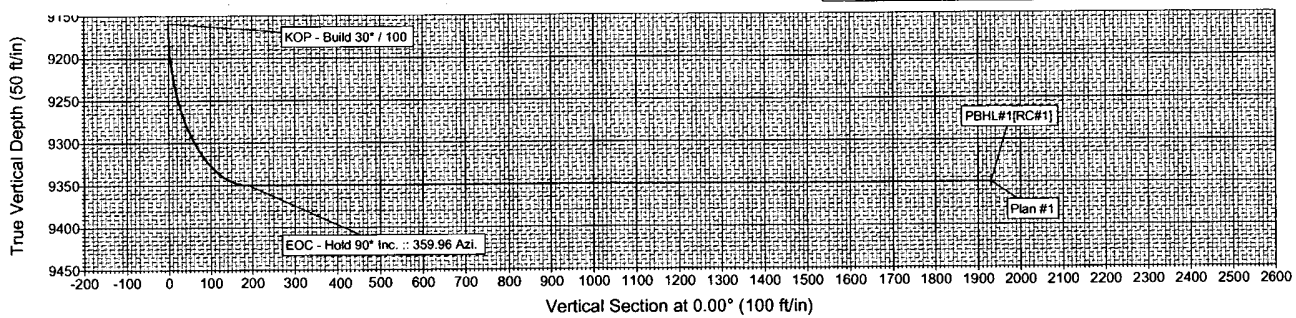


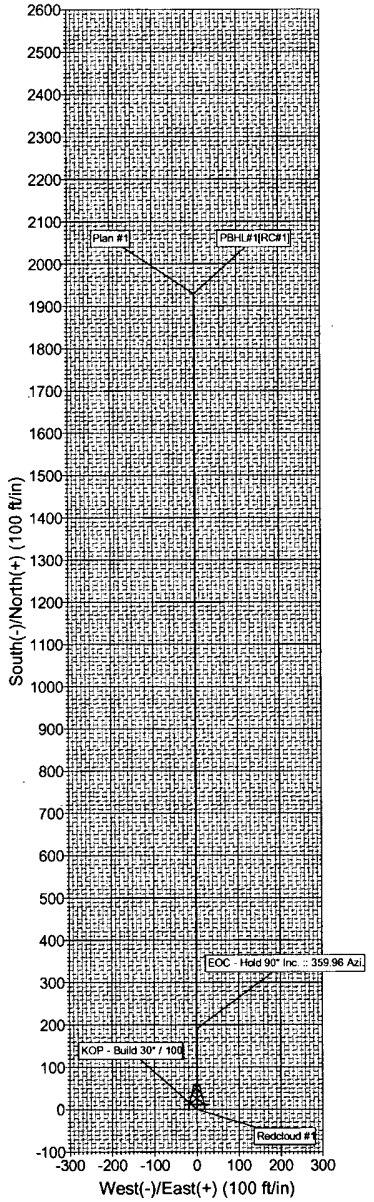


Azimuths to Grid North
True North: -0.64°
Magnetic North: 7.37°

Magnetic Field
Strength: 49661.5nT
Dip Angle: 61.12°
Date: 9/19/2006
Model: IGRF200510

Plan: Plan #1 (Redcloud #1/Lateral #1)
Created By: L.D. Burton Date: 09/19/2006





CIMAREX

Cimarex Energy Co., Inc.

Lea County (NAD 83)
Redcloud #1
Redcloud #1
Lateral #1

Plan: Plan #1

Standard Survey Report

21 September, 2006

BLACK VIPER
ENERGY SERVICES, LTD.

Black Viper Energy
Survey Report

Company:	Cimarex Energy Co., Inc.	**Local Co-ordinate Reference:**	Well Redcloud #1
Project:	Lea County (NAD 83)	**TVD Reference:**	WELL @ 0.00ft (Original Well Elev)
Site:	Redcloud #1	**MD Reference:**	WELL @ 0.00ft (Original Well Elev)
Well:	Redcloud #1	**North Reference:**	Grid
Wellbore:	Lateral #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	EDM 2003.14.1.0 Server DB

Project Lea County (NAD 83)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Redcloud #1

Site Position:		**Northing:**	733,611.83 ft	**Latitude:**	33° 0' 40.132 N
From:	Map	**Easting:**	902,041.08 ft	**Longitude:**	103° 9' 24.019 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	"	**Grid Convergence:**	0.64 °

Well Redcloud #1

Well Position	**+N/-S**	0.00 ft	**Northing:**	733,608.58 ft	**Latitude:**	33° 0' 40.100 N
	+E/-W	0.00 ft	**Easting:**	902,042.76 ft	**Longitude:**	103° 9' 24.000 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	0.00 ft

Wellbore Lateral #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	9/19/2006	8.01	61.12	49,662

Design Plan #1

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	9,159.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	0.00

Survey Tool Program **Date** 9/21/2006

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
9,159.00	11,198.03	Plan #1 (Lateral #1)	MWD	Standard MWD

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,159.01	0.00	0.00	9,159.01	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Build 30° / 100									
9,459.01	90.00	0.00	9,350.00	190.99	0.00	190.99	30.00	30.00	0.00
EOC - Hold 90° Inc. :: 359.96 Azi.									
11,198.03	90.00	0.00	9,350.00	1,930.00	0.00	1,930.00	0.00	0.00	0.00

Company:	Cimarex Energy Co., Inc.	**Local Co-ordinate Reference:**	Well Redcloud #1
Project:	Lea County (NAD 83)	**TVD Reference:**	WELL @ 0.00ft (Original Well Elev)
Site:	Redcloud #1	**MD Reference:**	WELL @ 0.00ft (Original Well Elev)
Well:	Redcloud #1	**North Reference:**	Grid
Wellbore:	Lateral #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	EDM 2003.14.1.0 Server DB

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL#1[RC#1] - plan hits target - Point	0.00	0.00	9,350.00	1,930.00	0.00	735,538.58	902,042.76	33° 0' 59.193 N	103° 9' 23.746 W

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
9,159.01	9,159.01	0.00	0.00	KOP - Build 30° / 100
9,459.01	9,350.00	190.99	-0.17	EOC - Hold 90° Inc. :: 359.96 Azi.

Checked By: _____ Approved By: _____ Date: _____

Cimarex Energy Co., Inc.
Redcloud #1 - Plan #1

Lea County (NAD 83)
Redcloud #1

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dog Ra (°/
9159.01	0.000	0.000	9159.01	0.00 N	0.00 E	0.00	0.
9200.00	12.296	0.000	9199.69	4.38 N	0.00 E	4.38	30.
9300.00	42.296	0.000	9287.54	49.72 N	0.00 E	49.72	30.
9400.00	72.296	0.000	9340.95	132.91 N	0.00 E	132.91	30.
9459.01	90.000	0.000	9350.00	190.99 N	0.00 E	190.99	30.
9500.00	90.000	0.000	9350.00	231.97 N	0.00 E	231.97	0.
9600.00	90.000	0.000	9350.00	331.97 N	0.00 E	331.97	0.
9700.00	90.000	0.000	9350.00	431.97 N	0.00 E	431.97	0.
9800.00	90.000	0.000	9350.00	531.97 N	0.00 E	531.97	0.
9900.00	90.000	0.000	9350.00	631.97 N	0.00 E	631.97	0.
10000.00	90.000	0.000	9350.00	731.97 N	0.00 E	731.97	0.
10100.00	90.000	0.000	9350.00	831.97 N	0.00 E	831.97	0.
10200.00	90.000	0.000	9350.00	931.97 N	0.00 E	931.97	0.
10300.00	90.000	0.000	9350.00	1031.97 N	0.00 E	1031.97	0.
10400.00	90.000	0.000	9350.00	1131.97 N	0.00 E	1131.97	0.
10500.00	90.000	0.000	9350.00	1231.97 N	0.00 E	1231.97	0.
10600.00	90.000	0.000	9350.00	1331.97 N	0.00 E	1331.97	0.
10700.00	90.000	0.000	9350.00	1431.97 N	0.00 E	1431.97	0.
10800.00	90.000	0.000	9350.00	1531.97 N	0.00 E	1531.97	0.
10900.00	90.000	0.000	9350.00	1631.97 N	0.00 E	1631.97	0.
11000.00	90.000	0.000	9350.00	1731.97 N	0.00 E	1731.97	0.
11100.00	90.000	0.000	9350.00	1831.97 N	0.00 E	1831.97	0.
11198.03	90.000	0.000	9350.00	1930.00 N	0.00 E	1930.00	0.

All data are in feet unless otherwise stated. Directions and coordinates are relativ
Vertical depths are relative to WELL. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Slot and calculated along an Azimuth of 0.000° (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Easte
Central meridian is -104.333°.
Grid Convergence at Surface is 0.641°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 11198.03ft.,
the Bottom Hole Displacement is 1930.00ft., in the Direction of 0.000° (Grid).