

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 and Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 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 30-025-38513	Pool Code 17300 17200	Pool Name Denton; Wolfcamp, East
Property Code 367DD	Property Name HARVARD "6" FEE	Well Number 2
GRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3792'

Surface Location

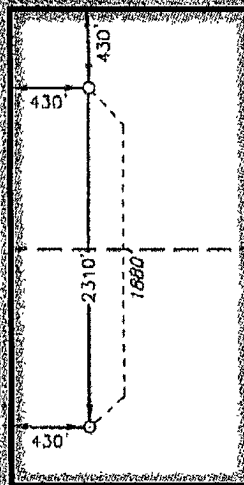
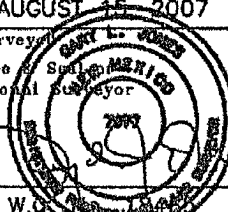
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	6	15 S	38 E		430	NORTH	430	WEST	LEA

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
E	6	15 S	38 E		2310	NORTH	430	WEST	LEA

Dedicated Acres 40.04	Joint or Infill	Consolidation Code	Order No.
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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

 SURFACE LOCATION Lat - N33°03'08.73" Long - W103°08'37.09" NMSPC - N 748672.898 E 905868.151 (NAD-83) BOTTOM HOLE LOCATION Lat - N33°02'50.1" Long - W103°08'37.3" NMSPC - N 746792.898 E 905868.151 (NAD-83)	Harvard 6 Fee 2	
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 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. Zeno Farris 09-04-07 Signature Date Zeno Farris 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. AUGUST 15, 2007 Date Surveyed Signature of Surveyor Professional Surveyor  W. Jones Certificate No. Gary L. Jones 7977 BASIN SURVEYS		



Cimarex Energy Co., Inc.

Lea County (NAD 83)

Harvard 6 Fee #2H

Harvard 6 Fee #2H

Lateral #1

SUR: D-6-15s-38e

API # 30-025-38513

Plan: Plan #1

Standard Survey Report

04 September, 2007





Black Viper Energy Survey Report



Company: Cimarex Energy Co., Inc.
Project: Lea County (NAD 83)
Site: Harvard 6 Fee #2H
Well: Harvard 6 Fee #2H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference: Site Harvard 6 Fee #2H
TVD Reference: WELL @ 0 00ft (Original Well Elev)
MD Reference: WELL @ 0 00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 14 1 0 Server DB

Project: Lea County (NAD 83)
Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Ground Level

Site: Harvard 6 Fee #2H

Site Position: Northing: 748,672 90 ft Latitude: 33° 3' 8 700 N
From: Map Easting: 905,868 15 ft Longitude: 103° 8' 37 082 W
Position Uncertainty: 0 00 ft Slot Radius: " Grid Convergence: 0 65 °

Well: Harvard 6 Fee #2H

Well Position: +N/-S 0 00 ft Northing: 748,672 90 ft Latitude: 33° 3' 8 700 N
+E/-W 0 00 ft Easting: 905,868 15 ft Longitude: 103° 8' 37 082 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	7/2/2007	7 91	61 14	49,582

Design: Plan #1

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 9,177 00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0 00	0 00	0 00	180 00

Survey Tool Program Date 8/23/2007

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
9,177 00	11,166 03	Plan #1 (Lateral #1)	MWD	MWD - Standard

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)
9,177 01	0 00	0 00	9,177 01	0 00	0 00	0 00	0 00	0 00	0 00
KOP - Build 30.0° / 100									
9,180 00	0 90	180 00	9,180 00	-0 02	0 00	0 02	30 00	30 00	0 00
9,190 00	3 90	180 00	9,189 99	-0 44	0 00	0 44	30 00	30 00	0 00
9,200 00	6 90	180 00	9,199 94	-1 38	0 00	1 38	30 00	30 00	0 00
9,210 00	9 90	180 00	9,209 84	-2 84	0 00	2 84	30 00	30 00	0 00
9,220 00	12 90	180 00	9,219 64	-4 82	0 00	4 82	30 00	30 00	0 00
9,230 00	15 90	180 00	9,229 32	-7 30	0 00	7 30	30 00	30 00	0 00
9,240 00	18 90	180 00	9,238 86	-10 29	0 00	10 29	30 00	30 00	0 00
9,250 00	21 90	180 00	9,248 24	-13 78	0 00	13 78	30 00	30 00	0 00
9,260 00	24 90	180 00	9,257 41	-17 75	0 00	17 75	30 00	30 00	0 00
9,270 00	27 90	180 00	9,266 37	-22 19	0 00	22 19	30 00	30 00	0 00
9,280 00	30 90	180 00	9,275 08	-27 10	0 00	27 10	30 00	30 00	0 00



Black Viper Energy Survey Report



Company: Cimarex Energy Co., Inc
Project: Lea County (NAD 83)
Site: Harvard 6 Fee #2H
Well: Harvard 6 Fee #2H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference: Site Harvard 6 Fee #2H
TVD Reference: WELL @ 0 00ft (Original Well Elev)
MD Reference: WELL @ 0 00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 14 1 0 Server DB

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)
9,290 00	33 90	180 00	9,283 52	-32 46	0 00	32 46	30 00	30 00	0 00
9,300 00	36 90	180 00	9,291 67	-38 25	0 00	38 25	30 00	30 00	0 00
9,310 00	39 90	180 00	9,299 51	-44 46	0 00	44 46	30 00	30 00	0 00
9,320 00	42 90	180 00	9,307 01	-51 07	0 00	51 07	30 00	30 00	0 00
9,330 00	45 90	180 00	9,314 16	-58 07	0 00	58 07	30 00	30 00	0 00
9,340 00	48 90	180 00	9,320 92	-65 43	0 00	65 43	30 00	30 00	0 00
9,350 00	51 90	180 00	9,327 30	-73 13	0 00	73 13	30 00	30 00	0 00
9,360 00	54 90	180 00	9,333 26	-81 16	0 00	81 16	30 00	30 00	0 00
9,368 51	57 45	180 00	9,338 00	-88 23	0 00	88 23	30 00	30 00	0 00
Wolfcamp									
9,370 00	57 90	180 00	9,338 79	-89 48	0 00	89 48	30 00	30 00	0 00
9,380 00	60 90	180 00	9,343 89	-98 09	0 00	98 09	30 00	30 00	0 00
9,390 00	63 90	180 00	9,348 52	-106 95	0 00	106 95	30 00	30 00	0 00
9,400 00	66 90	180 00	9,352 68	-116 04	0 00	116 04	30 00	30 00	0 00
9,410 00	69 90	180 00	9,356 36	-125 34	0 00	125 34	30 00	30 00	0 00
9,420 00	72 90	180 00	9,359 55	-134 82	0 00	134 82	30 00	30 00	0 00
9,430 00	75 90	180 00	9,362 24	-144 45	0 00	144 45	30 00	30 00	0 00
9,440 00	78 90	180 00	9,364 42	-154 20	0 00	154 20	30 00	30 00	0 00
9,450 00	81 90	180 00	9,366 09	-164 06	0 00	164 06	30 00	30 00	0 00
9,460 00	84 90	180 00	9,367 24	-173 99	0 00	173 99	30 00	30 00	0 00
9,470 00	87 90	180 00	9,367 87	-183 97	0 00	183 97	30 00	30 00	0 00
9,477 01	90 00	180 00	9,368 00	-190 99	0 00	190 99	30 00	30 00	0 00
EOC - Hold 90.0° Inc. :: 360.0° Azi.									
9,500 00	90 00	180 00	9,368 00	-213 97	0 00	213 97	0 00	0 00	0 00
9,600 00	90 00	180 00	9,368 00	-313 97	0 00	313 97	0 00	0 00	0 00
9,700 00	90 00	180 00	9,368 00	-413 97	0 00	413 97	0 00	0 00	0 00
9,800 00	90 00	180 00	9,368 00	-513 97	0 00	513 97	0 00	0 00	0 00
9,900 00	90 00	180 00	9,368 00	-613 97	0 00	613 97	0 00	0 00	0 00
10,000 00	90 00	180 00	9,368 00	-713 97	0 00	713 97	0 00	0 00	0 00
10,100 00	90 00	180 00	9,368 00	-813 97	0 00	813 97	0 00	0 00	0 00
10,200 00	90 00	180 00	9,368 00	-913 97	0 00	913 97	0 00	0 00	0 00
10,300 00	90 00	180 00	9,368 00	-1,013 97	0 00	1,013 97	0 00	0 00	0 00
10,400 00	90 00	180 00	9,368 00	-1,113 97	0 00	1,113 97	0 00	0 00	0 00
10,500 00	90 00	180 00	9,368 00	-1,213 97	0 00	1,213 97	0 00	0 00	0 00
10,600 00	90 00	180 00	9,368 00	-1,313 97	0 00	1,313 97	0 00	0 00	0 00
10,700 00	90 00	180 00	9,368 00	-1,413 97	0 00	1,413 97	0 00	0 00	0 00
10,800 00	90 00	180 00	9,368 00	-1,513 97	0 00	1,513 97	0 00	0 00	0 00
10,900 00	90 00	180 00	9,368 00	-1,613 97	0 00	1,613 97	0 00	0 00	0 00
11,000 00	90 00	180 00	9,368 00	-1,713 97	0 00	1,713 97	0 00	0 00	0 00
11,100 00	90 00	180 00	9,368 00	-1,813 97	0 00	1,813 97	0 00	0 00	0 00
11,166 03	90 00	180 00	9,368 00	-1,880 00	0 00	1,880 00	0 00	0 00	0 00
PBHL#1[H6Fee#2]									



Black Viper Energy Survey Report



Company: Cimarex Energy Co., Inc
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Site: Harvard 6 Fee #2H
Well: Harvard 6 Fee #2H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference: Site Harvard 6 Fee #2H
TVD Reference: WELL @ 0 00ft (Original Well Elev)
MD Reference: WELL @ 0 00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 14 1 0 Server DB

Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
PBHL#1[H6Fee#2]	0 00	0 89	9,368 00	-1,880 00	0 00	746,792 90	905,868 15	33° 2' 50 102 N	103° 8' 37 332 W
- plan hits target									
- Point									

Formations

Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
	8,175 00	Abo Dolomite	Dolomite	0 00	2 06
9,368 51	9,338 00	Wolfcamp		0 00	2 06
	9,617 00	Wolfcamp 'B'		0 00	2 06

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
9,177 01	9,177 01	0 00	0 00	KOP - Build 30 0° / 100
9,477 01	9,368 00	-190.99	0 00	EOC - Hold 90 0° Inc 360 0° Azi

Checked By: _____ Approved By: _____ Date: _____

Harvard 6 Fee #2H Lateral Plan #1 Report 8-23-07.txt
 Cimarex Energy Co., Inc.
 Harvard 6 Fee #2H - Plan #1

Lea County (NAD 83)
 Harvard 6 Fee #2H

Measured Dogleg Depth Rate (ft) (°/100ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)
9180.00	0.896	180.000	9180.00	0.02 S	0.00 E	0.02
0.00						
9190.00	3.896	180.000	9189.99	0.44 S	0.00 E	0.44
30.00						
9200.00	6.896	180.000	9199.94	1.38 S	0.00 E	1.38
30.00						
9210.00	9.896	180.000	9209.84	2.84 S	0.00 E	2.84
30.00						
9220.00	12.896	180.000	9219.64	4.82 S	0.00 E	4.82
30.00						
9230.00	15.896	180.000	9229.32	7.30 S	0.00 E	7.30
30.00						
9240.00	18.896	180.000	9238.86	10.29 S	0.00 E	10.29
30.00						
9250.00	21.896	180.000	9248.24	13.78 S	0.00 E	13.78
30.00						
9260.00	24.896	180.000	9257.41	17.75 S	0.00 E	17.75
30.00						
9270.00	27.896	180.000	9266.37	22.19 S	0.00 E	22.19
30.00						
9280.00	30.896	180.000	9275.08	27.10 S	0.00 E	27.10
30.00						
9290.00	33.896	180.000	9283.52	32.46 S	0.00 E	32.46
30.00						
9300.00	36.896	180.000	9291.67	38.25 S	0.00 E	38.25
30.00						
9310.00	39.896	180.000	9299.51	44.46 S	0.00 E	44.46
30.00						
9320.00	42.896	180.000	9307.01	51.07 S	0.00 E	51.07
30.00						
9330.00	45.896	180.000	9314.16	58.07 S	0.00 E	58.07
30.00						
9340.00	48.896	180.000	9320.92	65.43 S	0.00 E	65.43
30.00						
9350.00	51.896	180.000	9327.30	73.13 S	0.00 E	73.13
30.00						
9360.00	54.896	180.000	9333.26	81.16 S	0.00 E	81.16
30.00						
9370.00	57.896	180.000	9338.79	89.48 S	0.00 E	89.48
30.00						
9380.00	60.896	180.000	9343.89	98.09 S	0.00 E	98.09
30.00						
9390.00	63.896	180.000	9348.52	106.95 S	0.00 E	106.95
30.00						
9400.00	66.896	180.000	9352.68	116.04 S	0.00 E	116.04
30.00						
9410.00	69.896	180.000	9356.36	125.34 S	0.00 E	125.34
30.00						
9420.00	72.896	180.000	9359.55	134.82 S	0.00 E	134.82
30.00						

Harvard 6 Fee #2H Lateral Plan #1 Report 8-23-07.txt

9430.00	75.896	180.000	9362.24	144.45 S	0.00 E	144.45
30.00						
9440.00	78.896	180.000	9364.42	154.20 S	0.00 E	154.20
30.00						
9450.00	81.896	180.000	9366.09	164.06 S	0.00 E	164.06
30.00						
9460.00	84.896	180.000	9367.24	173.99 S	0.00 E	173.99
30.00						
9470.00	87.896	180.000	9367.87	183.97 S	0.00 E	183.97
30.00						
9480.00	90.000	180.000	9368.00	193.97 S	0.00 E	193.97
21.04						
9490.00	90.000	180.000	9368.00	203.97 S	0.00 E	203.97
0.00						
9500.00	90.000	180.000	9368.00	213.97 S	0.00 E	213.97
0.00						
9510.00	90.000	180.000	9368.00	223.97 S	0.00 E	223.97
0.00						
9520.00	90.000	180.000	9368.00	233.97 S	0.00 E	233.97
0.00						
9530.00	90.000	180.000	9368.00	243.97 S	0.00 E	243.97
0.00						
9540.00	90.000	180.000	9368.00	253.97 S	0.00 E	253.97
0.00						
9550.00	90.000	180.000	9368.00	263.97 S	0.00 E	263.97
0.00						
9560.00	90.000	180.000	9368.00	273.97 S	0.00 E	273.97
0.00						
9570.00	90.000	180.000	9368.00	283.97 S	0.00 E	283.97
0.00						
9580.00	90.000	180.000	9368.00	293.97 S	0.00 E	293.97
0.00						
9590.00	90.000	180.000	9368.00	303.97 S	0.00 E	303.97
0.00						
9600.00	90.000	180.000	9368.00	313.97 S	0.00 E	313.97
0.00						
9610.00	90.000	180.000	9368.00	323.97 S	0.00 E	323.97
0.00						
9620.00	90.000	180.000	9368.00	333.97 S	0.00 E	333.97
0.00						
9630.00	90.000	180.000	9368.00	343.97 S	0.00 E	343.97
0.00						
9640.00	90.000	180.000	9368.00	353.97 S	0.00 E	353.97
0.00						
9650.00	90.000	180.000	9368.00	363.97 S	0.00 E	363.97
0.00						
9660.00	90.000	180.000	9368.00	373.97 S	0.00 E	373.97
0.00						
9670.00	90.000	180.000	9368.00	383.97 S	0.00 E	383.97
0.00						
9680.00	90.000	180.000	9368.00	393.97 S	0.00 E	393.97
0.00						
9690.00	90.000	180.000	9368.00	403.97 S	0.00 E	403.97
0.00						
9700.00	90.000	180.000	9368.00	413.97 S	0.00 E	413.97
0.00						
9710.00	90.000	180.000	9368.00	423.97 S	0.00 E	423.97
0.00						
9720.00	90.000	180.000	9368.00	433.97 S	0.00 E	433.97
0.00						
9730.00	90.000	180.000	9368.00	443.97 S	0.00 E	443.97
0.00						
9740.00	90.000	180.000	9368.00	453.97 S	0.00 E	453.97

Harvard 6 Fee #2H Lateral Plan #1 Report 8-23-07.txt

0.00							
9750.00	90.000	180.000	9368.00	463.97 S	0.00 E	463.97	
0.00							
9760.00	90.000	180.000	9368.00	473.97 S	0.00 E	473.97	
0.00							
9770.00	90.000	180.000	9368.00	483.97 S	0.00 E	483.97	
0.00							
9780.00	90.000	180.000	9368.00	493.97 S	0.00 E	493.97	
0.00							
9790.00	90.000	180.000	9368.00	503.97 S	0.00 E	503.97	
0.00							
9800.00	90.000	180.000	9368.00	513.97 S	0.00 E	513.97	
0.00							
9810.00	90.000	180.000	9368.00	523.97 S	0.00 E	523.97	
0.00							
9820.00	90.000	180.000	9368.00	533.97 S	0.00 E	533.97	
0.00							
9830.00	90.000	180.000	9368.00	543.97 S	0.00 E	543.97	
0.00							
9840.00	90.000	180.000	9368.00	553.97 S	0.00 E	553.97	
0.00							
9850.00	90.000	180.000	9368.00	563.97 S	0.00 E	563.97	
0.00							
9860.00	90.000	180.000	9368.00	573.97 S	0.00 E	573.97	
0.00							
9870.00	90.000	180.000	9368.00	583.97 S	0.00 E	583.97	
0.00							
9880.00	90.000	180.000	9368.00	593.97 S	0.00 E	593.97	
0.00							
9890.00	90.000	180.000	9368.00	603.97 S	0.00 E	603.97	
0.00							
9900.00	90.000	180.000	9368.00	613.97 S	0.00 E	613.97	
0.00							
9910.00	90.000	180.000	9368.00	623.97 S	0.00 E	623.97	
0.00							
9920.00	90.000	180.000	9368.00	633.97 S	0.00 E	633.97	
0.00							
9930.00	90.000	180.000	9368.00	643.97 S	0.00 E	643.97	
0.00							
9940.00	90.000	180.000	9368.00	653.97 S	0.00 E	653.97	
0.00							
9950.00	90.000	180.000	9368.00	663.97 S	0.00 E	663.97	
0.00							
9960.00	90.000	180.000	9368.00	673.97 S	0.00 E	673.97	
0.00							
9970.00	90.000	180.000	9368.00	683.97 S	0.00 E	683.97	
0.00							
9980.00	90.000	180.000	9368.00	693.97 S	0.00 E	693.97	
0.00							
9990.00	90.000	180.000	9368.00	703.97 S	0.00 E	703.97	
0.00							
10000.00	90.000	180.000	9368.00	713.97 S	0.00 E	713.97	
0.00							
10010.00	90.000	180.000	9368.00	723.97 S	0.00 E	723.97	
0.00							
10020.00	90.000	180.000	9368.00	733.97 S	0.00 E	733.97	
0.00							
10030.00	90.000	180.000	9368.00	743.97 S	0.00 E	743.97	
0.00							
10040.00	90.000	180.000	9368.00	753.97 S	0.00 E	753.97	
0.00							
10050.00	90.000	180.000	9368.00	763.97 S	0.00 E	763.97	
0.00							

Harvard 6 Fee #2H Lateral Plan #1 Report 8-23-07.txt

10060.00	90.000	180.000	9368.00	773.97 S	0.00 E	773.97
0.00						
10070.00	90.000	180.000	9368.00	783.97 S	0.00 E	783.97
0.00						
10080.00	90.000	180.000	9368.00	793.97 S	0.00 E	793.97
0.00						
10090.00	90.000	180.000	9368.00	803.97 S	0.00 E	803.97
0.00						
10100.00	90.000	180.000	9368.00	813.97 S	0.00 E	813.97
0.00						
10110.00	90.000	180.000	9368.00	823.97 S	0.00 E	823.97
0.00						
10120.00	90.000	180.000	9368.00	833.97 S	0.00 E	833.97
0.00						
10130.00	90.000	180.000	9368.00	843.97 S	0.00 E	843.97
0.00						
10140.00	90.000	180.000	9368.00	853.97 S	0.00 E	853.97
0.00						
10150.00	90.000	180.000	9368.00	863.97 S	0.00 E	863.97
0.00						
10160.00	90.000	180.000	9368.00	873.97 S	0.00 E	873.97
0.00						
10170.00	90.000	180.000	9368.00	883.97 S	0.00 E	883.97
0.00						
10180.00	90.000	180.000	9368.00	893.97 S	0.00 E	893.97
0.00						
10190.00	90.000	180.000	9368.00	903.97 S	0.00 E	903.97
0.00						
10200.00	90.000	180.000	9368.00	913.97 S	0.00 E	913.97
0.00						
10210.00	90.000	180.000	9368.00	923.97 S	0.00 E	923.97
0.00						
10220.00	90.000	180.000	9368.00	933.97 S	0.00 E	933.97
0.00						
10230.00	90.000	180.000	9368.00	943.97 S	0.00 E	943.97
0.00						
10240.00	90.000	180.000	9368.00	953.97 S	0.00 E	953.97
0.00						
10250.00	90.000	180.000	9368.00	963.97 S	0.00 E	963.97
0.00						
10260.00	90.000	180.000	9368.00	973.97 S	0.00 E	973.97
0.00						
10270.00	90.000	180.000	9368.00	983.97 S	0.00 E	983.97
0.00						
10280.00	90.000	180.000	9368.00	993.97 S	0.00 E	993.97
0.00						
10290.00	90.000	180.000	9368.00	1003.97 S	0.00 E	1003.97
0.00						
10300.00	90.000	180.000	9368.00	1013.97 S	0.00 E	1013.97
0.00						
10310.00	90.000	180.000	9368.00	1023.97 S	0.00 E	1023.97
0.00						
10320.00	90.000	180.000	9368.00	1033.97 S	0.00 E	1033.97
0.00						
10330.00	90.000	180.000	9368.00	1043.97 S	0.00 E	1043.97
0.00						
10340.00	90.000	180.000	9368.00	1053.97 S	0.00 E	1053.97
0.00						
10350.00	90.000	180.000	9368.00	1063.97 S	0.00 E	1063.97
0.00						
10360.00	90.000	180.000	9368.00	1073.97 S	0.00 E	1073.97
0.00						
10370.00	90.000	180.000	9368.00	1083.97 S	0.00 E	1083.97

Harvard 6 Fee #2H Lateral Plan #1 Report 8-23-07.txt

0.00						
10380.00	90.000	180.000	9368.00	1093.97 S	0.00 E	1093.97
0.00						
10390.00	90.000	180.000	9368.00	1103.97 S	0.00 E	1103.97
0.00						
10400.00	90.000	180.000	9368.00	1113.97 S	0.00 E	1113.97
0.00						
10410.00	90.000	180.000	9368.00	1123.97 S	0.00 E	1123.97
0.00						
10420.00	90.000	180.000	9368.00	1133.97 S	0.00 E	1133.97
0.00						
10430.00	90.000	180.000	9368.00	1143.97 S	0.00 E	1143.97
0.00						
10440.00	90.000	180.000	9368.00	1153.97 S	0.00 E	1153.97
0.00						
10450.00	90.000	180.000	9368.00	1163.97 S	0.00 E	1163.97
0.00						
10460.00	90.000	180.000	9368.00	1173.97 S	0.00 E	1173.97
0.00						
10470.00	90.000	180.000	9368.00	1183.97 S	0.00 E	1183.97
0.00						
10480.00	90.000	180.000	9368.00	1193.97 S	0.00 E	1193.97
0.00						
10490.00	90.000	180.000	9368.00	1203.97 S	0.00 E	1203.97
0.00						
10500.00	90.000	180.000	9368.00	1213.97 S	0.00 E	1213.97
0.00						
10510.00	90.000	180.000	9368.00	1223.97 S	0.00 E	1223.97
0.00						
10520.00	90.000	180.000	9368.00	1233.97 S	0.00 E	1233.97
0.00						
10530.00	90.000	180.000	9368.00	1243.97 S	0.00 E	1243.97
0.00						
10540.00	90.000	180.000	9368.00	1253.97 S	0.00 E	1253.97
0.00						
10550.00	90.000	180.000	9368.00	1263.97 S	0.00 E	1263.97
0.00						
10560.00	90.000	180.000	9368.00	1273.97 S	0.00 E	1273.97
0.00						
10570.00	90.000	180.000	9368.00	1283.97 S	0.00 E	1283.97
0.00						
10580.00	90.000	180.000	9368.00	1293.97 S	0.00 E	1293.97
0.00						
10590.00	90.000	180.000	9368.00	1303.97 S	0.00 E	1303.97
0.00						
10600.00	90.000	180.000	9368.00	1313.97 S	0.00 E	1313.97
0.00						
10610.00	90.000	180.000	9368.00	1323.97 S	0.00 E	1323.97
0.00						
10620.00	90.000	180.000	9368.00	1333.97 S	0.00 E	1333.97
0.00						
10630.00	90.000	180.000	9368.00	1343.97 S	0.00 E	1343.97
0.00						
10640.00	90.000	180.000	9368.00	1353.97 S	0.00 E	1353.97
0.00						
10650.00	90.000	180.000	9368.00	1363.97 S	0.00 E	1363.97
0.00						
10660.00	90.000	180.000	9368.00	1373.97 S	0.00 E	1373.97
0.00						
10670.00	90.000	180.000	9368.00	1383.97 S	0.00 E	1383.97
0.00						
10680.00	90.000	180.000	9368.00	1393.97 S	0.00 E	1393.97
0.00						

Harvard 6 Fee #2H Lateral Plan #1 Report 8-23-07.txt

10690.00	90.000	180.000	9368.00	1403.97 S	0.00 E	1403.97
0.00						
10700.00	90.000	180.000	9368.00	1413.97 S	0.00 E	1413.97
0.00						
10710.00	90.000	180.000	9368.00	1423.97 S	0.00 E	1423.97
0.00						
10720.00	90.000	180.000	9368.00	1433.97 S	0.00 E	1433.97
0.00						
10730.00	90.000	180.000	9368.00	1443.97 S	0.00 E	1443.97
0.00						
10740.00	90.000	180.000	9368.00	1453.97 S	0.00 E	1453.97
0.00						
10750.00	90.000	180.000	9368.00	1463.97 S	0.00 E	1463.97
0.00						
10760.00	90.000	180.000	9368.00	1473.97 S	0.00 E	1473.97
0.00						
10770.00	90.000	180.000	9368.00	1483.97 S	0.00 E	1483.97
0.00						
10780.00	90.000	180.000	9368.00	1493.97 S	0.00 E	1493.97
0.00						
10790.00	90.000	180.000	9368.00	1503.97 S	0.00 E	1503.97
0.00						
10800.00	90.000	180.000	9368.00	1513.97 S	0.00 E	1513.97
0.00						
10810.00	90.000	180.000	9368.00	1523.97 S	0.00 E	1523.97
0.00						
10820.00	90.000	180.000	9368.00	1533.97 S	0.00 E	1533.97
0.00						
10830.00	90.000	180.000	9368.00	1543.97 S	0.00 E	1543.97
0.00						
10840.00	90.000	180.000	9368.00	1553.97 S	0.00 E	1553.97
0.00						
10850.00	90.000	180.000	9368.00	1563.97 S	0.00 E	1563.97
0.00						
10860.00	90.000	180.000	9368.00	1573.97 S	0.00 E	1573.97
0.00						
10870.00	90.000	180.000	9368.00	1583.97 S	0.00 E	1583.97
0.00						
10880.00	90.000	180.000	9368.00	1593.97 S	0.00 E	1593.97
0.00						
10890.00	90.000	180.000	9368.00	1603.97 S	0.00 E	1603.97
0.00						
10900.00	90.000	180.000	9368.00	1613.97 S	0.00 E	1613.97
0.00						
10910.00	90.000	180.000	9368.00	1623.97 S	0.00 E	1623.97
0.00						
10920.00	90.000	180.000	9368.00	1633.97 S	0.00 E	1633.97
0.00						
10930.00	90.000	180.000	9368.00	1643.97 S	0.00 E	1643.97
0.00						
10940.00	90.000	180.000	9368.00	1653.97 S	0.00 E	1653.97
0.00						
10950.00	90.000	180.000	9368.00	1663.97 S	0.00 E	1663.97
0.00						
10960.00	90.000	180.000	9368.00	1673.97 S	0.00 E	1673.97
0.00						
10970.00	90.000	180.000	9368.00	1683.97 S	0.00 E	1683.97
0.00						
10980.00	90.000	180.000	9368.00	1693.97 S	0.00 E	1693.97
0.00						
10990.00	90.000	180.000	9368.00	1703.97 S	0.00 E	1703.97
0.00						
11000.00	90.000	180.000	9368.00	1713.97 S	0.00 E	1713.97

Harvard 6 Fee #2H Lateral Plan #1 Report 8-23-07.txt

0.00						
11010.00	90.000	180.000	9368.00	1723.97 S	0.00 E	1723.97
0.00						
11020.00	90.000	180.000	9368.00	1733.97 S	0.00 E	1733.97
0.00						
11030.00	90.000	180.000	9368.00	1743.97 S	0.00 E	1743.97
0.00						
11040.00	90.000	180.000	9368.00	1753.97 S	0.00 E	1753.97
0.00						
11050.00	90.000	180.000	9368.00	1763.97 S	0.00 E	1763.97
0.00						
11060.00	90.000	180.000	9368.00	1773.97 S	0.00 E	1773.97
0.00						
11070.00	90.000	180.000	9368.00	1783.97 S	0.00 E	1783.97
0.00						
11080.00	90.000	180.000	9368.00	1793.97 S	0.00 E	1793.97
0.00						
11090.00	90.000	180.000	9368.00	1803.97 S	0.00 E	1803.97
0.00						
11100.00	90.000	180.000	9368.00	1813.97 S	0.00 E	1813.97
0.00						
11110.00	90.000	180.000	9368.00	1823.97 S	0.00 E	1823.97
0.00						
11120.00	90.000	180.000	9368.00	1833.97 S	0.00 E	1833.97
0.00						
11130.00	90.000	180.000	9368.00	1843.97 S	0.00 E	1843.97
0.00						
11140.00	90.000	180.000	9368.00	1853.97 S	0.00 E	1853.97
0.00						
11150.00	90.000	180.000	9368.00	1863.97 S	0.00 E	1863.97
0.00						
11160.00	90.000	180.000	9368.00	1873.97 S	0.00 E	1873.97
0.00						
11166.03	90.000	180.000	9368.00	1880.00 S	0.00 E	1880.00
0.00						

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
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 180.000° (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.

Central meridian is -104.333°.

Grid Convergence at Surface is 0.649°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 11166.03ft., the Bottom Hole Displacement is 1880.00ft., in the Direction of 180.000° (Grid).

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
June 1, 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 <u>Cimarex Energy Co.</u> Telephone <u>972-401-3111</u> e-mail address <u>zfarris@cimarex.com</u>		
Address <u>PO Box 140907, Irving, TX 75014-0907</u>		
Facility or well name: <u>Harvard 6 Fee No 2</u> API #: <u>30-025-38513</u> U/L or Qtr/Qtr <u>D</u> Sec <u>6</u> T <u>15S</u> R <u>38E</u>		
County <u>Lea</u> Latitude <u>33° 03' 08 73 N</u> Longitude <u>103° 08' 37 09 W</u> NAD 1927 ☐ 1983 ☒		
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐		
Pit Type: Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ Liner type: Synthetic ☒ Thickness <u>12</u> mil Clay ☐ Pit Volume <u> </u> bbl closed system, cuttings hauled	Below-grade tank Volume: <u> </u> bbl Type of fluid: <u> </u> Construction material: <u> </u> Double-walled, with leak detection? Yes ☐ If not, explain why not <u> </u>	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) <u>53'</u>	Less than 50 feet <u>50 feet or more, but less than 100 feet</u> 100 feet or more	(20 points) <u>(10 points)</u> (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 <u>No</u>	(20 points) <u>(0 points)</u>
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 <u>1000 feet or more</u>	(20 points) (10 points) <u>(0 points)</u>
Ranking Score (Total Points)		10

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 you are burying in place) 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.

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 09.04.07

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.

Printed Name/Title Chris Williams

Signature CHRIS WILLIAMS / DIST SHA

Date 9/6/07