



Cimarex Energy Co., Inc.

Lea County (NAD 83)

Princeton 6 Fee #1H

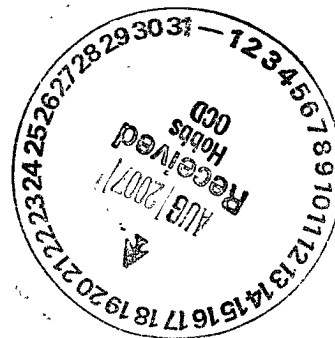
Princeton 6 Fee #1H

Lateral #1

Plan: Plan #1

Standard Survey Report

07 August, 2007





Black Viper Energy Survey Report



Company:	Cimarex Energy Co., Inc.	Local Co-ordinate Reference:	Site Princeton 6 Fee #1H
Project:	Lea County (NAD 83)	TVD Reference:	WELL @ 3782 00ft. (Original Well Elev)
Site:	Princeton 6 Fee #1H	MD Reference:	WELL @ 3782 00ft. (Original Well Elev)
Well:	Princeton 6 Fee #1H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003 14 10 Server DB

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

Site	Princeton 6 Fee #1H				
Site Position:		Northing:	748,775 96 ft	Latitude:	33° 3' 9 215 N
From:	Map	Easting:	910,342 06 ft	Longitude:	103° 7' 44 513 W
Position Uncertainty:	0 00 ft	Slot Radius:	"	Grid Convergence:	0 66 °

Well	Princeton 6 Fee #1H				
Well Position	+N/-S	0 00 ft	Northing:	748,775 96 ft	Latitude: 33° 3' 9 215 N
	+E/-W	0 00 ft	Easting:	910,342 06 ft	Longitude: 103° 7' 44 513 W
Position Uncertainty		0 00 ft	Wellhead Elevation:	ft	Ground Level: 0 00ft

Wellbore						Lateral #1					
Magnetics		Model Name		Sample Date		Declination		Dip Angle		Field Strength	
						(°)		(°)		(nT)	
		IGRF200510		7/2/2007		7 90		61 14		49,583	

Design		Plan #1		
Audit Notes:				
Version:		Phase:	PROTOTYPE	Tie On Depth: 9,214 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0 00	0 00	179 22

Survey Tool Program		Date	8/7/2007		
From	To	Survey (Wellbore)		Tool Name	Description
(ft)	(ft)				
9,214 00	11,253 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)
9,214 01	0 00	0 00	9,214 01	0 00	0 00	0 00	0 00	0 00	0 00
KOP - Build	30.0° / 100								
9,220 00	1 80	179 22	9,220 00	-0 09	0 00	0 09	30 00	30 00	0 00
9,230 00	4 80	179 22	9,229 98	-0 67	0 01	0 67	30 00	30 00	0 00
9,240 00	7 80	179 22	9,239 92	-1 77	0 02	1 77	30 00	30 00	0 00
9,250 00	10 80	179 22	9,249 79	-3 38	0 05	3 38	30 00	30 00	0 00
9,260 00	13 80	179 22	9,259 56	-5 51	0 08	5 51	30 00	30 00	0 00
9,270 00	16 80	179 22	9,269 20	-8 15	0 11	8 15	30 00	30 00	0 00
9,280 00	19 80	179 22	9,278 69	-11 29	0 15	11 29	30 00	30 00	0 00
9,290 00	22 80	179 22	9,288 01	-14 92	0 20	14 92	30 00	30 00	0 00
9,300 00	25 80	179 22	9,297 12	-19 03	0 26	19 03	30 00	30 00	0 00
9,310 00	28 80	179 22	9,306 01	-23 61	0 32	23 62	30 00	30 00	0 00
9,320 00	31 80	179 22	9,314.64	-28 66	0 39	28 66	30 00	30 00	0 00



Black Viper Energy
Survey Report



Company:	Cimarex Energy Co., Inc	Local Co-ordinate Reference:	Site Princeton 6 Fee #1H
Project:	Lea County (NAD 83)	TVD Reference:	WELL @ 3782 00ft (Original Well Elev)
Site:	Princeton 6 Fee #1H	MD Reference:	WELL @ 3782 00ft (Original Well Elev)
Well:	Princeton 6 Fee #1H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003 14 10 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)
9,330 00	34 80	179 22	9,323 00	-34 15	0 47	34 15	30 00	30 00	0 00
9,340 00	37 80	179 22	9,331 06	-40 07	0 55	40 07	30 00	30 00	0 00
9,350 00	40 80	179 22	9,338 80	-46 40	0 63	46 40	30 00	30 00	0 00
9,360 00	43 80	179 22	9,346 19	-53 13	0 72	53 13	30 00	30 00	0 00
9,370 00	46 80	179 22	9,353 23	-60 23	0 82	60 24	30 00	30 00	0 00
9,380 00	49 80	179 22	9,359 88	-67 70	0 92	67 70	30 00	30 00	0 00
9,390 00	52 80	179 22	9,366 13	-75 50	1 03	75 50	30 00	30 00	0 00
9,400 00	55 80	179 22	9,371 97	-83 62	1 14	83 62	30 00	30 00	0 00
9,410 00	58 80	179 22	9,377 37	-92 03	1 25	92 04	30 00	30 00	0 00
9,420 00	61 80	179 22	9,382 32	-100 71	1 37	100 72	30 00	30 00	0 00
9,425 83	63 54	179 22	9,385 00	-105 89	1 44	105 90	30 00	30 00	0 00
Wolfcamp									
9,430 00	64 80	179 22	9,386 82	-109 65	1 49	109 66	30 00	30 00	0 00
9,440 00	67 80	179 22	9,390 84	-118 80	1 62	118 81	30 00	30 00	0 00
9,450 00	70 80	179 22	9,394 37	-128 15	1 75	128 16	30 00	30 00	0 00
9,460 00	73 80	179 22	9,397 41	-137 68	1 88	137 69	30 00	30 00	0 00
9,470 00	76 80	179 22	9,399 95	-147 35	2 01	147 36	30 00	30 00	0 00
9,480 00	79 80	179 22	9,401 98	-157 14	2 14	157 15	30 00	30 00	0 00
9,490 00	82 80	179 22	9,403 49	-167 02	2 28	167 04	30 00	30 00	0 00
9,500 00	85 80	179 22	9,404 49	-176 97	2 41	176 98	30 00	30 00	0 00
9,510 00	88 80	179 22	9,404 96	-186 95	2 55	186 97	30 00	30 00	0 00
9,514 01	90 00	179 22	9,405 00	-190 97	2 60	190 99	30 00	30 00	0 00
EOC - Hold 90.0° Inc. 180.0° Azi.									
9,600 00	90 00	179 22	9,405 00	-276 95	3 77	276 97	0 00	0 00	0 00
9,700 00	90 00	179 22	9,405 00	-376 94	5 14	376 97	0 00	0 00	0 00
9,800 00	90 00	179 22	9,405 00	-476 93	6 50	476 97	0 00	0 00	0 00
9,900 00	90 00	179 22	9,405 00	-576 92	7 86	576 97	0 00	0 00	0 00
10,000 00	90 00	179 22	9,405 00	-676 91	9 23	676 97	0 00	0 00	0 00
10,100 00	90 00	179 22	9,405 00	-776 90	10 59	776 97	0 00	0 00	0 00
10,200 00	90 00	179 22	9,405 00	-876 89	11 95	876 97	0 00	0 00	0 00
10,300 00	90 00	179 22	9,405 00	-976 88	13 31	976 97	0 00	0 00	0 00
10,400 00	90 00	179 22	9,405 00	-1,076 87	14 68	1,076 97	0 00	0 00	0 00
10,500 00	90 00	179 22	9,405 00	-1,176 86	16 04	1,176 97	0 00	0 00	0 00
10,600 00	90 00	179 22	9,405 00	-1,276 85	17 40	1,276 97	0 00	0 00	0 00
10,700 00	90 00	179 22	9,405 00	-1,376 84	18 76	1,376 97	0 00	0 00	0 00
10,800 00	90 00	179 22	9,405 00	-1,476 83	20 13	1,476 97	0 00	0 00	0 00
10,900 00	90 00	179 22	9,405 00	-1,576 83	21 49	1,576 97	0 00	0 00	0 00
11,000 00	90 00	179 22	9,405 00	-1,676 82	22 85	1,676 97	0 00	0 00	0 00
11,100 00	90 00	179 22	9,405 00	-1,776 81	24 21	1,776 97	0 00	0 00	0 00
11,200 00	90 00	179 22	9,405 00	-1,876 80	25 58	1,876 97	0 00	0 00	0 00
11,253 03	90 00	179 22	9,405 00	-1,929 82	26 30	1,930 00	0 00	0 00	0 00
PBHL#1[P6Fee#1H]									



Black Viper Energy
Survey Report



Company:	Cimarex Energy Co., Inc	Local Co-ordinate Reference:	Site Princeton 6 Fee #1H
Project:	Lea County (NAD 83)	TVD Reference:	WELL @ 3782 00ft (Original Well Elev)
Site:	Princeton 6 Fee #1H	MD Reference:	WELL @ 3782 00ft (Original Well Elev)
Well:	Princeton 6 Fee #1H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.14 10 Server DB

Targets										
Target Name	hit/miss	target	Dip	Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting
	Shape		(°)		(°)	(ft)	(ft)	(ft)	(ft)	(ft)
PBHL#1[P6Fee#1H]			0 00		0 89	9,405 00	-1,929 82	26 30	746,846 14	910,368 36
	- plan	target								
	- Point									

Formations						
Measured Depth	Vertical Depth			Dip	Dip Direction	
(ft)	(ft)	Name	Lithology	(°)	(°)	
9,425 83	9,385 00	Wolfcamp		0 00	2 07	
	9,659 00	Wolfcamp		0 00	2 07	

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S	+E/-W	Comment	
(ft)	(ft)	(ft)	(ft)		
9,214 01	9,214 01	0 00	0 00	KOP - Build 30 0° / 100	
9,514 01	9,405 00	-190 97	2 60	EOC - Hold 90 0° Inc 180 0° Azi	

Checked By: _____ Approved By: _____ Date: _____



Project Lea County (NAD 83)
 Site Princeton 6 Fee #1H
 Well Princeton 6 Fee #1H
 Wellbore Lateral #1
 Plan Plan #1 (Princeton 6 Fee #1H/Lateral #1)



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 Ground Level

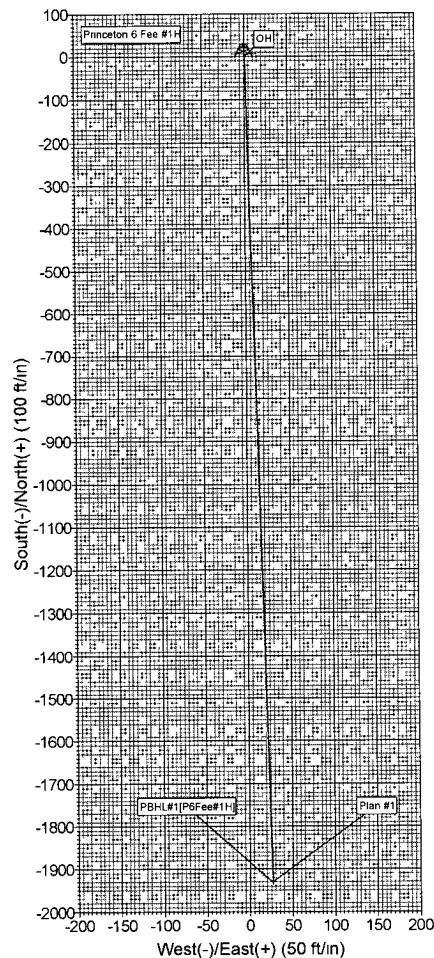
ANNOTATIONS

TVD	MD	Annotation
9214 01	9214 01	KOP - Build 30 0° / 100
9405 00	9514 01	EOC - Hold 90 0° Inc 180 0° Azi



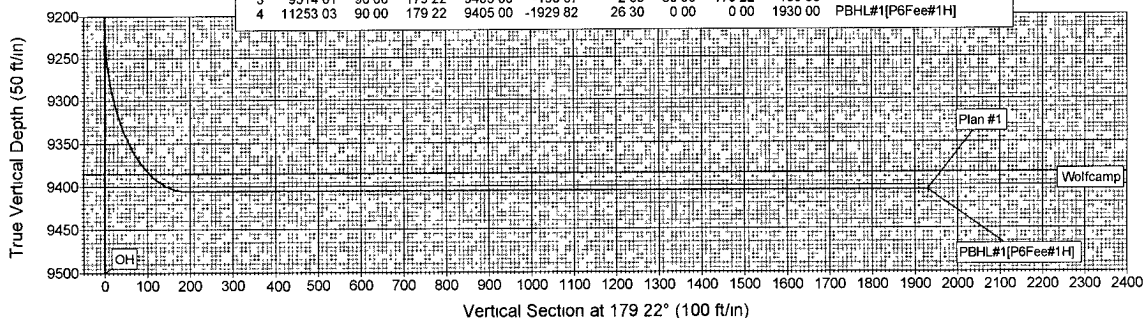
Azimuths to Grid North
 True North -0 66°
 Magnetic North 7 25°

Magnetic Field
 Strength 49563 nT
 Dip Angle 61 14°
 Date 7/2/2007
 Model IGRF200510



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	9214 00	0 00	0 00	9214 00	0 00	0 00	0 00	0 00	0 00	
2	9214 01	0 00	0 00	9214 01	0 00	0 00	0 00	0 00	0 00	
3	9514 01	90 00	179 22	9405 00	-190 97	2 60	30 00	179 22	190 99	
4	11253 03	90 00	179 22	9405 00	-1929 82	26 30	0 00	0 00	1930 00	PBHL#1[P6Fee#1H]



Plan Plan #1 (Princeton 6 Fee #1H/Lateral #1)
 Created By L D Burton Date August 7, 2007