

* (See instructions and spaces for additional data on page 2)

28b Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

30. Summary of Porous Zones (Include Aquifers):	31. Formation (Log) Markers
Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.	

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				Yates	1,018'
				Queen	1,765'
				San Andres	2,542'
				Glorieta	4,015'
				Abo	6,010'
				Wolfcamp	7,315'
				Strawn	9,540'
				Atoka	9,880'
				Morrow	10,070'
				Mississippian	10,355'

32. Additional remarks (include plugging procedure):

03.19.08 Released whipstock.

03.22.08 Drilled out CIBP (whipstock plug) @ 7000.'

04.03.08 Pressure tested seal assembly to 1000 psi.

04.04.08 Production tubing assembly: 2 3/4" 6.5# L-80 tbg to 6529' -- 7" x 2 3/4" TAC to 6531' -- 2 3/4" 6.5# L-80 tbg to 6727' -- S.N. to 6,728' -- Echometer DH Gas Separator to 6734' -- 2 3/4" B.P.M.A. to 6766'

Rod Pump Assembly: Spray Metal Polish Rod to 21' -- 1" N-97 Pony to 25' -- 1" N-97 rods to 2275' -- 3/8" N-97 rods to 4475' -- 3/4" N-97 rods to 6475' -- 1 1/2" K-bars to 6725' -- R.H. rel to 6726' -- 1" pony lift sub to 6727' -- 2 1/2" x 2" x 20' R.H.B.C. to 6747'

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
 ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Natalie Krueger Title Regulatory Analyst

Signature Natalie Krueger Date November 24, 2008

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
811 South First, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-34770	Pool Code 97197	Pool Name County Line Tank; Abo
Property Code	Property Name NITRO "11" FEDERAL	Well Number 1
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3720'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	11	16 S	29 E		1580	NORTH	660	WEST	EDDY

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
H	11	16 S	29 E		1997	NORTH	309	EAST	EDDY
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No. NSL-5711						

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

SHL 1580 FNL & 660 FWL BHL 1997 FNL & 309 FEL	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Zeno Farris</i> Signature Zeno Farris Printed Name Manager Operations Admin Title 11-24-08 Date 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. MARCH 4, 2005 Date Surveyed <i>[Signature]</i> Signature & Seal of Professional Surveyor 7977 Certificate No. Gary L. Jones BASIN SURVEYS
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Acid, Fracture, Treatment, Cement Squeeze, etc. Attachment

Nitro 11 Federal No. 1 (Re-entry)

11-16S-29E

Eddy County, NM

Depth Interval	Amount and Type of Material Used
Stage 1 10023' - 10587'	Pump 119 bbl 15% HCl NeFe acid, 1,017 bbl slick water, 238 bbl Deepspot 15% HCl acid, 952 bbl slick water, 238 bbl Lightning 2,000 x-linker pad, (15-17# vis) 0.5 to 1.5 ppg 30/50# white sand on lightning 2,000 gel, 1.5 ppg to 2 ppg 20/40# white sand on 20# linear gel. Pumped down 7" & 4½" liner 55 BPM. Max psi 6,821#. Avg psi 5,860#. Avg rate 55.4 BPM. Drop 2½" ball. Pump 119 bbl of 15% HCl NeFe acid, & 189 bbl slick water, seat ball, open port at 10,325' at 6189#. ISIP 5536#. 22,500# 30/50 & 25,000# 20/40# sand.
Stage 2 9460' - 10023'	Cont pumping 235 bbl slick water, 238 bbl Deepspot 15% HCl acid, 357 bbl slick water, 238 bbl Lightning 2,000 x-linker pad, 0.5 ppg 30/50# white sand on Lighting 2,000 gel, start flush (well tried to screen out) 356 bbl slick water, 120 bbl 15% HCl NeFe acid, 26 bbl slick water. Drop 2¾" ball. Pump 15% HCl NeFe acid, 263 bbl slick water, seat ball, open port at 9,759' at 7,13#. ISIP 4,480#. 7,500# 30/50# sand. Max psi 7,655#. Avg psi 5,953#. Avg rate 53 BPM.
Stage 3 8892' - 9460'	Cont pumping 215 bbl slick water, 122 bbl Deepspot 15% HCl acid, 489 bbl slick water, 114 bbl Deepspot 15% HCl acid, 480 bbl slick water, 244 bbl Lightning 2,000 x-linker pad, 0.5 ppg 30/50# white sand on Lighting 2,000 gel, start flush (well tried to screen out) 279 bbl slick water. Drop 3" ball. 120 bbl 15% HCl NeFe acid, 223 bbl slick water, seat ball, open port at 9,196' at 6,017#. ISIP 3,904#. 6,383# 30/50# sand. Max psi 6,348#. Avg psi 5,850#. Avg rate 53 BPM.
Stage 4 8071' - 8892'	Cont pumping 251 bbl slick water, 119 bbl Deepspot 15% HCl acid, 476 bbl slick water, 119 bbl Deepspot 15% HCl acid, 476 bbl slick water, 238 bbl Lightning 2000 x-linker pad, 0.5 to 1 ppg 30/50# white sand on Lighting 2,000 gel, start flush 12 bbl 20# linear gel, 12 bbl slick water. Drop 3.25" ball. 119 bbl 15% HCl NeFe acid, 163 bbl slick water, seat ball, open port at 8,501' at 6,425#. ISIP 3,686#. 23,500# 30/50# sand. Max psi 6,528#. Avg psi 5,843#. Avg rate 57.5 BPM.
Stage 5 6844' - 8071'	Cont pumping 276 bbl slick water, 238 bbl Deepspot 15% HCl acid, 595 bbl slick water, 238 bbl Deepspot 15% HCl acid, 714 bbl of slick water, 238 bbl lightning 2,000 x-linker pad, 0.5 to 1 ppg 30/50 sand, 1.5 to 2 ppg 20/40 sand, 12 bbl 20# linear gel, 12 bbl slick water. Drop 3½" ball. 119 bbl 15% HCl NeFe acid, 150 bbl slick water, seat ball, open port at 7,375' at 5,788#. ISIP 4,154#. 58,000# 30/50, 25,000# 20/40# sand. Max psi 5,456# Avg psi 4,737#. Avg rate 66 BPM.
Stage 6 6844'-8071'	Cont pumping 272 bbl slick water, 119 bbl Deepspot 15% HCl acid, 714 bbl slick water, 444 bbl Deepspot acid, 714 bbl slick water, 238 bbl lightning 2,000 x linker pad, 0.5 to 2 ppg 30/50# sand, out of gel, shut off sand & flush with 268 bbl of slick water. 61,203# 30/50# sand. Max psi 5,044#. Avg psi 4,737#. Avg rate 66 BPM. Open well on 11/64" choke at 22:00 with 3,500#. Cont flowback operations.



Cimarex Energy Co., Inc.

Eddy Co., New Mexico

Nitro 11 Federal #1H

Nitro 11 Federal #1H

Lateral

Survey: MWD Survey #1

Standard Survey Report

03 December, 2007





Black Viper Energy
Survey Report



Company:	Cimarex Energy Co., Inc.	Local Co-ordinate Reference:	Well Nitro 11 Federal #1H
Project:	Eddy Co., New Mexico	TVD Reference:	Rig KB @ 3741.00ft (Key #115 KB)
Site:	Nitro 11 Federal #1H	MD Reference:	Rig KB @ 3741.00ft (Key #115 KB)
Well:	Nitro 11 Federal #1H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	Database:	EDM 2003.14.1.0 Server DB

Project		Eddy Co., New Mexico	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:		Nitro 11 Federal #1H			
Site Position:		Northing:	705,500.77 ft	Latitude:	32° 56' 20.805 N
From:	Map	Easting:	627,664.52 ft	Longitude:	104° 3' 7.010 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.15 °

Well:	Nitro 11 Federal #1H					
Well Position	+N-S	0.00 ft	Northing:	705,500.77 ft	Latitude:	32° 56' 20.805 N
	+E-W	0.00 ft	Easting:	627,664.52 ft	Longitude:	104° 3' 7.010 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,720.00 ft

Wellbore:	Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/01/2007	8.28	60.86	49,376

Design:		Lateral			
Audit Notes:					
Version:		1.0	Phase:	ACTUAL	Tie On Depth: 6,900.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	77.37	

Survey Program		Date 12/03/2007		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	6,900.00	Gyro Survey (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s
6,900.00	11,420.00	MWD Survey #1 (Lateral)	MWD	MWD - Standard

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)
First MWD Survey	6,900.00	3.48	97.22	6,899.06	34.01	9.79	16.99	0.00	0.00	0.00
	6,987.00	15.70	105.10	6,984.68	30.60	23.83	29.94	14.09	14.05	9.06
	6,997.00	18.10	98.20	6,994.25	30.02	26.67	32.59	31.24	24.00	-69.00
	7,007.00	20.10	101.70	7,003.70	29.45	29.89	35.61	23.04	20.00	35.00
	7,017.00	22.00	100.90	7,013.03	28.75	33.42	38.89	19.22	19.00	-8.00
	7,031.00	24.80	96.10	7,025.88	27.94	38.91	44.08	24.18	20.00	-34.29
	7,040.00	26.40	92.80	7,034.00	27.65	42.79	47.80	23.81	17.78	-36.67
	7,050.00	28.10	89.10	7,042.89	27.57	47.36	52.25	23.99	17.00	-37.00
	7,062.00	30.00	86.60	7,053.38	27.80	53.18	57.98	18.79	15.83	-20.83
	7,072.00	31.50	86.20	7,061.97	28.12	58.29	63.02	15.14	15.00	-4.00
	7,082.00	32.60	85.20	7,070.45	28.52	63.58	68.28	12.21	11.00	-10.00



Black Viper Energy
Survey Report



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Site:	Nitro 11 Federal #1H	MD Reference:	Rig KB @ 3741.00ft (Key #115 KB)
Well:	Nitro 11 Federal #1H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	Database:	EDM 2003.14 1.0 Server DB

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)
7,093.00	33.40	84.80	7,079.67	29.04	69.55	74.21	7.54	7.27	-3.64
7,103.00	34.40	85.20	7,087.97	29.52	75.10	79.74	10.25	10.00	4.00
7,113.00	35.40	86.40	7,096.18	29.94	80.81	85.40	12.13	10.00	12.00
7,124.00	37.50	86.10	7,105.02	30.37	87.33	91.86	19.16	19.09	-2.73
7,134.00	39.30	86.30	7,112.86	30.78	93.53	97.99	18.04	18.00	2.00
7,144.00	41.20	86.30	7,120.49	31.20	99.97	104.38	19.00	19.00	0.00
7,155.00	42.30	86.70	7,128.70	31.65	107.29	111.61	10.29	10.00	3.64
7,165.00	45.00	87.00	7,135.93	32.02	114.18	118.42	27.08	27.00	3.00
7,175.00	46.60	88.20	7,142.91	32.32	121.34	125.47	18.17	16.00	12.00
7,187.00	47.90	89.30	7,151.05	32.51	130.15	134.11	12.75	10.83	9.17
7,197.00	49.10	89.70	7,157.68	32.58	137.64	141.43	12.37	12.00	4.00
7,207.00	50.70	90.60	7,164.12	32.56	145.29	148.89	17.42	16.00	9.00
7,219.00	52.20	92.00	7,171.60	32.35	154.67	158.00	15.48	12.50	11.67
7,229.00	53.80	92.90	7,177.61	32.00	162.65	165.71	17.54	16.00	9.00
7,239.00	54.70	94.50	7,183.46	31.48	170.74	173.50	15.80	9.00	16.00
7,251.00	56.50	95.80	7,190.24	30.59	180.61	182.92	17.46	15.00	10.83
7,261.00	58.10	96.60	7,195.64	29.68	188.97	190.89	17.36	16.00	8.00
7,271.00	60.00	97.30	7,200.78	28.64	197.48	198.97	19.93	19.00	7.00
7,282.00	62.00	98.00	7,206.11	27.36	207.02	207.99	19.01	18.18	6.36
7,292.00	64.30	98.40	7,210.63	26.09	215.85	216.33	23.28	23.00	4.00
7,302.00	66.40	98.50	7,214.80	24.75	224.84	224.81	21.02	21.00	1.00
7,315.00	68.40	98.40	7,219.80	22.99	236.71	236.01	15.40	15.38	-0.77
7,325.00	70.30	97.20	7,223.32	21.72	245.98	244.77	22.07	19.00	-12.00
7,339.00	72.10	95.20	7,227.84	20.29	259.15	257.32	18.66	12.86	-14.29
7,346.00	73.30	94.70	7,229.92	19.71	265.81	263.69	18.45	17.14	-7.14
7,361.00	76.50	94.30	7,233.82	18.58	280.25	277.53	21.49	21.33	-2.67
7,379.00	79.20	94.50	7,237.61	17.23	297.79	294.35	15.04	15.00	1.11
7,391.00	81.40	94.50	7,239.63	16.30	309.58	305.65	18.33	18.33	0.00
7,410.00	86.60	94.70	7,241.62	14.78	328.41	323.69	27.39	27.37	1.05
7,441.00	88.20	95.70	7,243.03	11.98	359.25	353.17	6.08	5.16	3.23
7,472.00	89.70	96.70	7,243.59	8.63	390.06	382.51	5.82	4.84	3.23
7,504.00	91.30	96.50	7,243.31	4.95	421.85	412.72	5.04	5.00	-0.63
7,536.00	91.90	96.60	7,242.42	1.30	453.63	442.93	1.90	1.88	0.31
7,568.00	93.20	96.60	7,241.00	-2.37	485.38	473.11	4.06	4.06	0.00
7,599.00	93.90	97.00	7,239.08	-6.03	516.10	502.29	2.60	2.26	1.29
7,631.00	93.40	96.90	7,237.04	-9.90	547.80	532.38	1.59	-1.56	-0.31
7,663.00	93.50	97.10	7,235.12	-13.79	579.51	562.46	0.70	0.31	0.63
7,695.00	91.50	97.10	7,233.72	-17.74	611.23	592.55	6.25	-6.25	0.00
7,727.00	91.90	97.30	7,232.77	-21.75	642.96	622.64	1.40	1.25	0.63
7,759.00	92.80	97.00	7,231.46	-25.73	674.69	652.73	2.96	2.81	-0.94
7,791.00	93.60	97.40	7,229.67	-29.74	706.39	682.78	2.79	2.50	1.25
7,823.00	92.20	98.00	7,228.05	-34.02	738.06	712.75	4.76	-4.38	1.88
7,854.00	91.90	98.60	7,226.94	-38.49	768.71	741.68	2.16	-0.97	1.94
7,887.00	90.60	97.00	7,226.22	-42.97	801.40	772.60	6.25	-3.94	-4.85
7,918.00	91.10	97.20	7,225.76	-46.80	832.16	801.78	1.74	1.61	0.65
7,950.00	89.20	96.40	7,225.68	-50.59	863.93	831.95	6.44	-5.94	-2.50
7,982.00	87.70	95.80	7,226.55	-53.99	895.74	862.24	5.05	-4.69	-1.88
8,014.00	85.80	94.90	7,228.36	-56.96	927.54	892.63	6.57	-5.94	-2.81
8,045.00	86.30	94.70	7,230.50	-59.55	958.36	922.14	1.74	1.61	-0.65
8,077.00	86.90	94.70	7,232.39	-62.17	990.20	952.63	1.88	1.88	0.00
8,109.00	86.10	95.70	7,234.35	-65.06	1,022.00	983.03	4.00	-2.50	3.13
8,140.00	86.20	95.20	7,236.43	-68.00	1,052.79	1,012.44	1.64	0.32	-1.61
8,172.00	86.70	95.20	7,238.41	-70.90	1,084.60	1,042.84	1.56	1.56	0.00
8,204.00	87.30	95.10	7,240.08	-73.77	1,116.43	1,073.27	1.90	1.88	-0.31



Black Viper Energy
Survey Report



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Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	Database:	EDM 2003.14.1.0 Server DB

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)
8,236.00	87.90	95.00	7,241.42	-76.58	1,148.28	1,103.73	1.90	1.88	-0.31
8,268.00	88.60	95.00	7,242.40	-79.37	1,180.14	1,134.21	2.19	2.19	0.00
8,300.00	89.40	95.00	7,242.96	-82.16	1,212.01	1,164.70	2.50	2.50	0.00
8,331.00	89.90	95.00	7,243.15	-84.86	1,242.89	1,194.25	1.61	1.61	0.00
8,363.00	88.10	95.20	7,243.71	-87.70	1,274.76	1,224.72	5.66	-5.63	0.63
8,395.00	88.60	94.80	7,244.63	-90.49	1,306.63	1,255.20	2.00	1.56	-1.25
8,427.00	89.10	95.00	7,245.27	-93.22	1,338.50	1,285.71	1.68	1.56	0.63
8,459.00	89.80	94.80	7,245.58	-95.96	1,370.38	1,316.22	2.28	2.19	-0.63
8,491.00	90.50	94.90	7,245.49	-98.66	1,402.27	1,346.74	2.21	2.19	0.31
8,522.00	91.20	95.10	7,245.03	-101.36	1,433.15	1,376.28	2.35	2.26	0.65
8,554.00	90.40	96.20	7,244.59	-104.51	1,464.99	1,406.67	4.25	-2.50	3.44
8,586.00	90.40	96.30	7,244.36	-108.00	1,496.80	1,436.94	0.31	0.00	0.31
8,618.00	89.60	96.50	7,244.36	-111.56	1,528.60	1,467.19	2.58	-2.50	0.63
8,649.00	89.30	96.40	7,244.66	-115.05	1,559.40	1,496.49	1.02	-0.97	-0.32
8,681.00	89.40	96.40	7,245.03	-118.61	1,591.20	1,526.74	0.31	0.31	0.00
8,713.00	89.50	96.20	7,245.33	-122.12	1,623.00	1,557.00	0.70	0.31	-0.63
8,744.00	89.60	95.90	7,245.58	-125.39	1,653.83	1,586.37	1.02	0.32	-0.97
8,776.00	88.30	96.70	7,246.16	-128.90	1,685.63	1,616.63	4.77	-4.06	2.50
8,808.00	88.30	96.70	7,247.11	-132.63	1,717.40	1,646.82	0.00	0.00	0.00
8,840.00	88.60	96.50	7,247.98	-136.31	1,749.17	1,677.02	1.13	0.94	-0.63
8,871.00	87.20	97.50	7,249.11	-140.09	1,779.92	1,706.20	5.55	-4.52	3.23
8,903.00	87.10	97.50	7,250.70	-144.26	1,811.61	1,736.20	0.31	-0.31	0.00
8,935.00	86.90	97.40	7,252.38	-148.40	1,843.29	1,766.22	0.70	-0.63	-0.31
8,967.00	86.60	97.70	7,254.19	-152.60	1,874.97	1,796.20	1.32	-0.94	0.94
8,998.00	88.10	97.10	7,255.63	-156.59	1,905.67	1,825.29	5.21	4.84	-1.94
9,029.00	88.30	97.30	7,256.60	-160.47	1,936.41	1,854.44	0.91	0.65	0.65
9,061.00	88.50	97.00	7,257.49	-164.45	1,968.15	1,884.54	1.13	0.63	-0.94
9,093.00	88.40	97.00	7,258.36	-168.35	1,999.90	1,914.67	0.31	-0.31	0.00
9,125.00	88.40	96.60	7,259.25	-172.14	2,031.67	1,944.84	1.25	0.00	-1.25
9,157.00	88.20	96.60	7,260.20	-175.81	2,063.44	1,975.04	0.63	-0.63	0.00
9,188.00	87.90	96.70	7,261.26	-179.40	2,094.21	2,004.28	1.02	-0.97	0.32
9,220.00	87.70	96.60	7,262.49	-183.10	2,125.97	2,034.46	0.70	-0.63	-0.31
9,251.00	87.50	96.60	7,263.78	-186.66	2,156.74	2,063.71	0.65	-0.65	0.00
9,282.00	87.70	96.70	7,265.08	-190.25	2,187.51	2,092.94	0.72	0.65	0.32
9,314.00	88.00	96.60	7,266.28	-193.95	2,219.27	2,123.13	0.99	0.94	-0.31
9,346.00	88.00	96.30	7,267.40	-197.55	2,251.05	2,153.35	0.94	0.00	-0.94
9,378.00	88.00	96.40	7,268.52	-201.08	2,282.83	2,183.59	0.31	0.00	0.31
9,409.00	87.80	96.30	7,269.65	-204.51	2,313.62	2,212.88	0.72	-0.65	-0.32
9,441.00	87.60	96.50	7,270.94	-208.07	2,345.39	2,243.11	0.88	-0.63	0.63
9,473.00	87.60	96.50	7,272.28	-211.69	2,377.16	2,273.32	0.00	0.00	0.00
9,505.00	87.30	96.40	7,273.70	-215.28	2,408.93	2,303.53	0.99	-0.94	-0.31
9,536.00	87.20	95.90	7,275.19	-218.60	2,439.71	2,332.84	1.64	-0.32	-1.61
9,568.00	87.00	96.10	7,276.81	-221.94	2,471.50	2,363.13	0.88	-0.63	0.63
9,600.00	86.90	96.00	7,278.51	-225.31	2,503.27	2,393.40	0.44	-0.31	-0.31
9,632.00	86.90	96.00	7,280.24	-228.65	2,535.05	2,423.68	0.00	0.00	0.00
9,663.00	87.10	95.80	7,281.86	-231.83	2,565.85	2,453.03	0.91	0.65	-0.65
9,695.00	87.20	96.20	7,283.45	-235.17	2,597.63	2,483.31	1.29	0.31	1.25
9,727.00	86.60	96.00	7,285.18	-238.57	2,629.40	2,513.57	1.98	-1.88	-0.63
9,759.00	86.60	95.70	7,287.08	-241.82	2,661.18	2,543.87	0.94	0.00	-0.94
9,790.00	86.60	95.30	7,288.92	-244.79	2,691.98	2,573.28	1.29	0.00	-1.29
9,821.00	86.60	95.30	7,290.76	-247.65	2,722.80	2,602.72	0.00	0.00	0.00
9,853.00	87.70	95.10	7,292.35	-250.55	2,754.62	2,633.14	3.49	3.44	-0.63
9,884.00	87.70	95.00	7,293.59	-253.27	2,785.48	2,662.66	0.32	0.00	-0.32
9,916.00	87.50	94.90	7,294.93	-256.03	2,817.33	2,693.13	0.70	-0.63	-0.31
9,948.00	87.60	94.90	7,296.30	-258.76	2,849.19	2,723.62	0.31	0.31	0.00



Black Viper Energy
Survey Report



Company:	Cimarex Energy Co., Inc.	Local Co-ordinate Reference:	Well Nitro 11 Federal #1H
Project:	Eddy Co., New Mexico	TVD Reference:	Rig KB @ 3741.00ft (Key #115 KB)
Site:	Nitro 11 Federal #1H	MD Reference:	Rig KB @ 3741.00ft (Key #115 KB)
Well:	Nitro 11 Federal #1H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	Database:	EDM 2003.14 1.0 Server DB

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)
9,979.00	87.60	94.60	7,297.60	-261.33	2,880.05	2,753.18	0.97	0.00	-0.97
10,011.00	87.40	94.90	7,299.00	-263.97	2,911.91	2,783.69	1.13	-0.63	0.94
10,042.00	87.60	95.00	7,300.35	-266.65	2,942.77	2,813.21	0.72	0.65	0.32
10,074.00	88.00	96.00	7,301.58	-269.71	2,974.60	2,843.60	3.36	1.25	3.13
10,105.00	89.20	95.80	7,302.33	-272.90	3,005.42	2,872.98	3.92	3.87	-0.65
10,137.00	87.90	93.50	7,303.14	-275.49	3,037.30	2,903.52	8.25	-4.06	-7.19
10,168.00	86.30	93.70	7,304.71	-277.43	3,068.20	2,933.25	5.20	-5.16	0.65
10,200.00	87.00	93.76	7,306.58	-279.51	3,100.08	2,963.90	2.20	2.19	0.19
10,232.00	87.90	93.60	7,308.00	-281.56	3,131.98	2,994.58	2.86	2.81	-0.50
10,264.00	86.40	93.90	7,309.60	-283.65	3,163.87	3,025.24	4.78	-4.69	0.94
10,296.00	84.90	94.80	7,312.02	-286.07	3,195.69	3,055.76	5.46	-4.69	2.81
10,328.00	85.10	95.50	7,314.81	-288.94	3,227.44	3,086.11	2.27	0.63	2.19
10,359.00	85.70	95.20	7,317.30	-291.82	3,258.20	3,115.50	2.16	1.94	-0.97
10,391.00	86.20	95.20	7,319.56	-294.71	3,289.99	3,145.89	1.56	1.56	0.00
10,423.00	86.70	95.20	7,321.54	-297.60	3,321.80	3,176.29	1.56	1.56	0.00
10,487.00	87.50	95.00	7,324.78	-303.29	3,385.46	3,237.18	1.29	1.25	-0.31
10,550.00	88.30	94.30	7,327.09	-308.39	3,448.21	3,297.29	1.69	1.27	-1.11
10,614.00	89.10	94.00	7,328.54	-313.02	3,512.03	3,358.55	1.33	1.25	-0.47
10,677.00	89.40	95.40	7,329.36	-318.18	3,574.81	3,418.68	2.27	0.48	2.22
10,741.00	90.20	95.20	7,329.59	-324.09	3,638.53	3,479.57	1.29	1.25	-0.31
10,805.00	89.00	96.60	7,330.03	-330.67	3,702.19	3,540.25	2.88	-1.88	2.19
10,900.00	86.70	98.60	7,333.60	-343.22	3,796.28	3,629.31	3.21	-2.42	2.11
10,931.00	86.40	97.90	7,335.46	-347.66	3,826.90	3,658.22	2.45	-0.97	-2.26
10,963.00	87.00	98.10	7,337.30	-352.11	3,858.54	3,688.12	1.98	1.88	0.63
10,995.00	88.20	98.20	7,338.64	-356.64	3,890.19	3,718.01	3.76	3.75	0.31
11,027.00	88.00	98.00	7,339.71	-361.15	3,921.85	3,747.92	0.88	-0.63	-0.63
11,058.00	87.90	97.40	7,340.81	-365.30	3,952.55	3,776.97	1.96	-0.32	-1.94
11,090.00	87.50	97.30	7,342.10	-369.39	3,984.26	3,807.02	1.29	-1.25	-0.31
11,122.00	87.60	97.10	7,343.47	-373.40	4,015.98	3,837.10	0.70	0.31	-0.63
11,152.00	87.50	97.30	7,344.75	-377.15	4,045.72	3,865.29	0.74	-0.33	0.67
11,184.00	88.50	98.10	7,345.87	-381.44	4,077.41	3,895.28	4.00	3.13	2.50
11,216.00	89.40	98.50	7,346.45	-386.06	4,109.07	3,925.16	3.08	2.81	1.25
11,248.00	89.50	98.60	7,346.76	-390.82	4,140.71	3,955.00	0.44	0.31	0.31
11,278.00	89.40	98.80	7,347.05	-395.35	4,170.36	3,982.94	0.75	-0.33	0.67
11,310.00	89.00	98.70	7,347.49	-400.22	4,201.99	4,012.73	1.29	-1.25	-0.31
11,342.00	88.60	98.00	7,348.16	-404.87	4,233.64	4,042.61	2.52	-1.25	-2.19
11,374.00	88.90	98.70	7,348.86	-409.51	4,265.29	4,072.48	2.38	0.94	2.19
Last MWD Survey									
11,420.00	88.90	98.70	7,349.75	-416.47	4,310.76	4,115.32	0.00	0.00	0.00
Proj. To Bit									



Black Viper Energy
Survey Report



Company:	Cimarex Energy Co., Inc.	Local Co-ordinate Reference:	Well Nitro 11 Federal #1H
Project:	Eddy Co., New Mexico	TVD Reference:	Rig KB @ 3741.00ft (Key #115 KB)
Site:	Nitro 11 Federal #1H	MD Reference:	Rig KB @ 3741.00ft (Key #115 KB)
Well:	Nitro 11 Federal #1H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	Database:	EDM 2003.14.1.0 Server DB

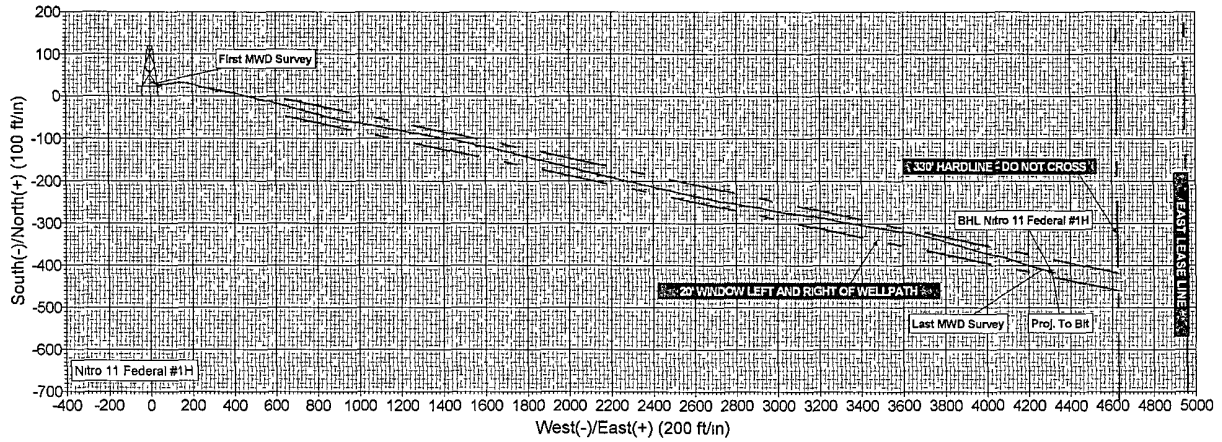
Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
PBHL#1[N11Fed1H]	0.00	0.00	7,262.00	-411.28	4,310.76	705,089.49	631,975.28	32° 56' 16.619 N	104° 2' 16.439 W
- survey misses by 87.86ft at 11417.53ft MD (7349.70 TVD, -416 10 N, 4308.32 E)									
- Point									
BHL Nitro 11 Federal #1	0.00	0.00	7,349.75	-416.47	4,310.76	705,084.30	631,975.28	32° 56' 16.567 N	104° 2' 16.439 W
- survey hits target									
- Point									
PBHL#2 [N11Fed1H]	2.30	95.17	7,342.00	-411.25	4,310.44	705,089.52	631,974.97	32° 56' 16.619 N	104° 2' 16.443 W
- survey misses by 9.26ft at 11418.75ft MD (7349.72 TVD, -416 28 N, 4309.52 E)									
- Point									
PBHL#3 [N11Fed1H]	0.00	0.00	7,301.58	-411.25	4,310.44	705,089.52	631,974.96	32° 56' 16.619 N	104° 2' 16.443 W
- survey misses by 48.41ft at 11417.97ft MD (7349.71 TVD, -416.16 N, 4308.75 E)									
- Point									

Survey Annotations:				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
6,987.00	6,984.68	30.60	23.83	First MWD Survey
11,374.00	7,348.86	-409.51	4,265.29	Last MWD Survey
11,420.00	7,349.75	-416.47	4,310.76	Proj. To Bit

Checked By: _____ Approved By: _____ Date: _____



Project: Eddy Co., New Mexico
 Site: Nitro 11 Federal #1H
 Well: Nitro 11 Federal #1H
 Wellbore: Lateral
 Survey: MWD Survey #1 (Nitro 11 Federal #1H/Lateral)

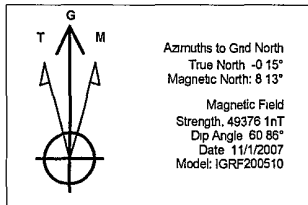


PROJECT DETAILS Eddy Co., New Mexico

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

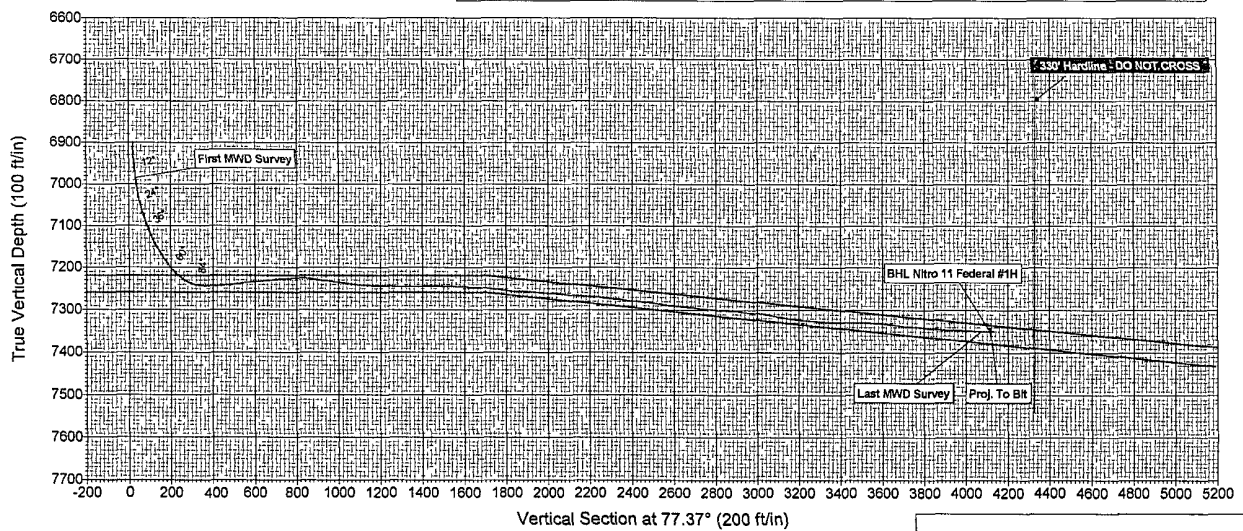
ANNOTATIONS

TVD	MD	Annotation
6984.68	6987.00	First MWD Survey
7348.86	11374.00	Last MWD Survey
7349.75	11420.00	Proj. To Bit

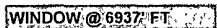


SECTION DETAILS

No plan data is available



Survey: MWD Survey #1 (Nitro 11 Federal #1H/Lateral)
 Created By: L.D. Burton Date: November 23, 2007



3.25 Strata Port at 7375'

Anchor #2 at 7465'

Iso Pak #5 at 8071'

3.0" Port at 8501'

Iso pak #4 8892'

2.75" Port at 9196'

Iso pak #3 at 9460'

2.50" Port at 13923'

ISO PAK #2 at 10023'

2.25" Port at 10325'

ISO PAK #1 at 10587'

Anchor #1 at 11025'

Pumpout Plug at 11110'

Top of RSB Packer 6844'

DOWN HOLE WELL PROFILE

ELEVATIONS

DESCRIPTION

Window 6937-6948

STEERING DIRECTIONS

DOWNHOLE DESCRIPTION FROM BOTTOM UP (Tubing String)

BOTTOM @	DESCRIPTION	LENGTH	ID	OD
11110.00	Pump Out Plug 4 1/2 LTC	0.72	1.000	5.500
11109.28	2 Jts 4 1/2 LTC 11.6# P-110 Liner	79.36	4.000	4.500
11029.92	Pup Jt 4 1/2 LTC 11.6# P-110	2.08	4.000	4.500
11027.84	5 7/8 Anchor #1	4.97	3.990	5.875
11022.87	Pup Jt 4 1/2 LTC 11.6# P-110	6.11	4.000	4.500
11016.76	10 Jts 4 1/2 LTC 11.6# P-110 Liner	424.25	4.000	4.500
10592.51	Pup Jt 4 1/2 LTC 11.6# P-110	2.10	4.000	4.500
10590.41	5 7/8 ISO PAK 1	5.28	3.990	5.875
10585.13	Pup Jt 4 1/2 LTC 11.6# P-110	6.09	4.000	4.500
10579.04	6 Jts 4 1/2 LTC 11.6# P-110 Liner	252.71	4.000	4.500
10326.33	4 1/2 LTC Strata Port 2.25"	2.79	2.310	5.375
10323.54	7 Jts 4 1/2 LTC 11.6# P-110 Liner	294.93	4.000	4.500
10028.61	Pup Jt 4 1/2 LTC 11.6# P-110	2.09	4.000	4.500
10026.52	5 7/8 ISO PAK 2	5.28	3.990	5.875
10021.24	Pup Jt 4 1/2 LTC 11.6# P-110	6.09	4.000	4.500
10015.15	6 Jts 4 1/2 LTC 11.6# P-110 Liner	254.43	4.000	4.500
9760.72	4 1/2 LTC Strata Port 2.50"	2.80	2.560	5.375
9757.92	7 Jts 4 1/2 LTC 11.6# P-110 Liner	293.26	4.000	4.500
9464.66	Pup Jt 4 1/2 LTC 11.6# P-110	2.07	4.000	4.500
9462.59	5 7/8 ISO PAK 3	5.27	3.990	5.875
9457.32	Pup Jt 4 1/2 LTC 11.6# P-110	6.09	4.000	4.500
9451.23	6 Jts 4 1/2 LTC 11.6# P-110 Liner	254.08	4.000	4.500
9197.15	4 1/2 LTC Strata Port 2.75"	2.81	2.810	5.375
9194.34	7 Jts 4 1/2 LTC 11.6# P-110 Liner	296.94	4.000	4.500
8897.40	Pup Jt 4 1/2 LTC 11.6# P-110	2.08	4.000	4.500
8895.32	5 7/8 ISO PAK 4	5.23	3.990	5.875
8890.09	Pup Jt 4 1/2 LTC 11.6# P-110	6.08	4.000	4.500
8884.01	9 Jts 4 1/2 LTC 11.6# P-110 Liner	381.69	4.000	4.500
8502.32	4 1/2 LTC Strata Port 3.0"	2.81	3.060	5.375
8499.51	10 Jts 4 1/2 LTC 11.6# P-110 Liner	423.75	4.000	4.500
8075.76	Pup Jt 4 1/2 LTC 11.6# P-110	2.07	4.000	4.500
8073.69	5 7/8 ISO PAK 5	5.27	3.990	5.875
8068.42	Pup Jt 4 1/2 LTC 11.6# P-110	6.10	4.000	4.500
8062.32	14 Jts 4 1/2 LTC 11.6# P-110 Liner	592.80	4.000	4.500
7469.52	Pup Jt 4 1/2 LTC 11.6# P-110	2.08	4.000	4.500
7467.44	5 7/8 Anchor #2	4.98	3.990	5.875
7462.46	Pup Jt 4 1/2 BTC Box x LTC Pin11.6#	6.01	4.000	4.500
7456.45	2 Jts 4 1/2 BTC 11.6# P-110 Liner	79.94	4.000	4.500
7376.51	4 1/2 BTC Strata Port 3.25"	2.92	3.310	5.375
7373.59	13 Jts 4 1/2 BTC 11.6# P-110 Liner	521.88	4.000	4.500
6851.71	Pup Jt 4 1/2 BTC Pin x LTC Pin	1.45	4.000	4.500
6850.26	7" 26# x 4" RSB Packer	5.47	4.00	5.94
6844.79	Hydraulic Setting Tool	5.19	3.00	5.81
6839.60	216 Jts 3 1/2 IF 13.3# Drill Pipe	6844.62	2.76	3.50
-5.02	Stick up			

[illegible]

**TOTAL MEASURED DEPTH
@ 11420' FT**

*** CONFIDENTIAL ***
NOT TO BE DISCLOSED OUTSIDE

**** Cimarex Energy ****