

DISTRICT I
1025 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

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

220 South St. Francis Dr.

Santa Fe, New Mexico 87505

RECEIVED
MAY 7 2008
HOBBS

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-39132		Pool Code 17290	Pool Name Denton; Wolfcamp
Property Code 36700	Property Name HARVARD "6" FEE		Well Number 5
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.		Elevation 3785'

Surface Location

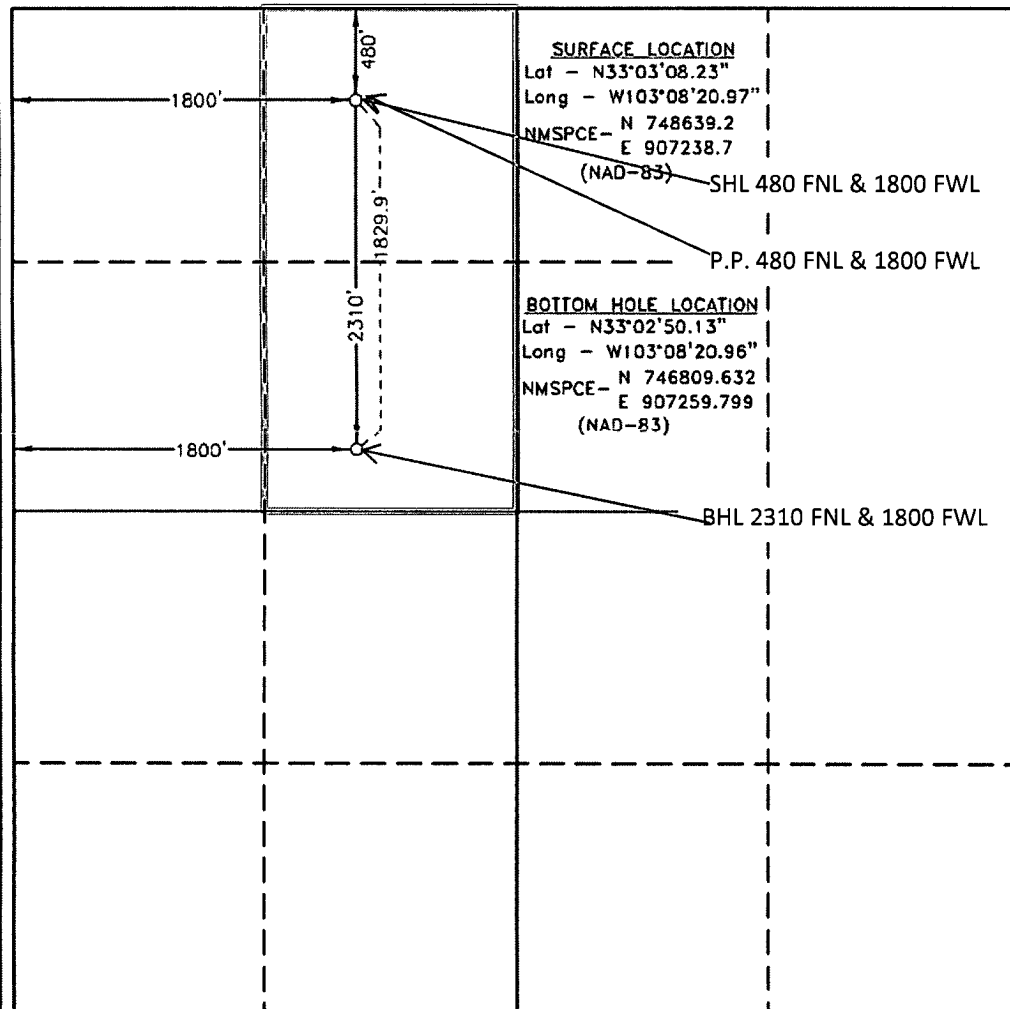
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	6	15 S	38 E		480	NORTH	1800	WEST	LEA

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
F	6	15 S	38 E		2310	NORTH	1800	WEST	LEA

Dedicated Acres 80.12	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

	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. <u>Zeno Farris</u> 08-22-08 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. MAY 21, 2008 Date Surveyed <u>GARY L. JONES</u> Signature of State Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS
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Planned Wellpath Report

Preliminary

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REFERENCE WELLPATH IDENTIFICATION

Operator **Cimarex Energy Co. of Colorado**

Area **Lea County, NM**

Field **(Harvard) Sec 6, T15S, R38E**

Facility **Harvard 6 Fee No. 5H**

Slot **No. 5H SHL**

Well **No. 5H**

Wellbore **No. 5H PWB**

REPORT SETUP INFORMATION

Projection System **NAD83 / TM New Mexico State Planes, Eastern Zone (3001), Software System **WellArchitect® 2.0****

US feet

North Reference **Grid**

Scale **1.00006**

Convergence at slot **0.65° East**

User **Victor Hernandez**

Report Generated **6/20/2008 at 2:56:52 PM**

Database/Source file **WA_Midland/No. 5H_PWB.xml**

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	907238.70	748639.20	33°03'08.227"N	103°08'20.965"W
Facility Reference Pt			907238.70	748639.20	33°03'08.227"N	103°08'20.965"W
Field Reference Pt			907238.70	748639.20	33°03'08.227"N	103°08'20.965"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 5H SHL (RT) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 5H SHL (RT) to Mean Sea Level	3803.00ft
Vertical Reference Pt	Rig on No. 5H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 5H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.34°



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INTEQ

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WELLPATH DATA (23 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00	0.000	179.339	0.00	0.00	0.00	0.00	0.00	Tie On
9175.00	0.000	179.339	9175.00	0.00	0.00	0.00	0.00	KOP
9275.00†	29.686	179.339	9270.59	25.33	-25.33	0.29	29.69	
9375.00†	59.372	179.339	9341.08	94.68	-94.67	1.09	29.69	
9475.00†	89.058	179.339	9367.98	189.83	-189.82	2.19	29.69	
9478.17	90.000	179.339	9368.01	193.01	-192.99	2.23	29.69	EOC
9575.00†	90.000	179.339	9368.01	289.83	-289.81	3.34	0.00	
9675.00†	90.000	179.339	9368.01	389.83	-389.81	4.50	0.00	
9775.00†	90.000	179.339	9368.00	489.83	-489.80	5.65	0.00	
9875.00†	90.000	179.339	9368.00	589.83	-589.79	6.80	0.00	
9975.00†	90.000	179.339	9368.00	689.83	-689.79	7.95	0.00	
10075.00†	90.000	179.339	9368.00	789.83	-789.78	9.11	0.00	
10175.00†	90.000	179.339	9368.00	889.83	-889.77	10.26	0.00	
10275.00†	90.000	179.339	9368.00	989.83	-989.77	11.41	0.00	
10375.00†	90.000	179.339	9368.00	1089.83	-1089.76	12.57	0.00	
10475.00†	90.000	179.339	9368.00	1189.83	-1189.75	13.72	0.00	
10575.00†	90.000	179.339	9368.00	1289.83	-1289.75	14.87	0.00	
10675.00†	90.000	179.339	9368.00	1389.83	-1389.74	16.03	0.00	
10775.00†	90.000	179.339	9368.00	1489.83	-1489.73	17.18	0.00	
10875.00†	90.000	179.339	9368.00	1589.83	-1589.73	18.33	0.00	
10975.00†	90.000	179.339	9368.00	1689.83	-1689.72	19.49	0.00	
11075.00†	90.000	179.339	9368.00	1789.83	-1789.71	20.64	0.00	
11114.75	90.000	179.339	9368.00 ¹	1829.58	-1829.46	21.10	0.00	No. 5H BHL



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Wellbore **No. 5H PWB**

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 5H BHL	11114.75	9368.00	-1829.46	21.10	907259.80	746809.63	33°02'50.126"N	103°08'20.962"W	point

SURVEY PROGRAM Ref Wellbore: No. 5H PWB Ref Wellpath: Preliminary

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	11114.75	NaviTrak (Standard)		No. 5H PWB

