

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

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 30-005-29047		Pool Code ✓	Pool Name Abo Wildcat
Property Code 37271	Property Name HANCOCK "19" STATE		Well Number 3
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO		Elevation 4458'

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	19	15 S	31 E		1980	NORTH	375	WEST	CHAVES

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	19	15 S	31 E		1980	NORTH	330	EAST	CHAVES
Dedicated Acres 159.30	Joint or Infill	Consolidation Code P	Order No.						

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°00'11.50" Long - W103°52'06.96" NMSPC - N 729013.6 E 683809.4 (NAD-83) BOTTOM HOLE LOCATION Lat - N33°00'11.50" Long - W103°51'13.55" NMSPC - N 729032.922 E 688357.619 (NAD-83)		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. <i>Zeno Farris</i> 07-23-08 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. Date Surveyed MAY 19 2008 Signature <i>Gary L. Jones</i> Professional Surveyor 7977 19450 Certificate No. Gary L. Jones 7977 BASIN SURVEYS
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Planned Wellpath Report

Preliminary

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator **Cimarex Energy Co. of Colorado**

Area **Chaves County, NM**

Field **(Hancock) Sec 19, T15S, R31E**

Facility **Hancock 19 St Com No. 3H**

Slot **No. 3H SHL**

Well **No. 3H**

Wellbore **No. 3H PWB**

REPORT SETUP INFORMATION

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

North Reference **Grid**

User **Victor Hernandez**

Scale **0.999932**

Report Generated **7/9/2008 at 4:45:52 PM**

Convergence at slot **0.25° East**

Database/Source file **WA_Midland/No. 3H_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	683809.40	729013.60	33°00'11.502"N	103°52'06.959"W
Facility Reference Pt			683809.40	729013.60	33°00'11.502"N	103°52'06.959"W
Field Reference Pt			683769.40	727691.90	32°59'58.426"N	103°52'07.498"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 3H SHL (RT) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 3H SHL (RT) to Mean Sea Level	4476.00ft
Vertical Reference Pt	Rig on No. 3H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 3H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	89.76°



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Slot **No. 3H SHL**
Well **No. 3H**
Wellbore **No. 3H PWB**

WELLPATH DATA (50 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00	0.000	89.757	0.00	0.00	0.00	0.00	0.00	Tie On
8570.00	0.000	89.757	8570.00	0.00	0.00	0.00	0.00	KOP
8670.00†	30.000	89.757	8665.49	25.59	0.11	25.59	30.00	
8770.00†	60.000	89.757	8735.40	95.49	0.41	95.49	30.00	
8868.73	89.619	89.757	8760.98	189.71	0.81	189.71	30.00	EOC
8870.00†	89.619	89.757	8760.99	190.99	0.81	190.98	0.00	
8970.00†	89.619	89.757	8761.66	290.98	1.24	290.98	0.00	
9070.00†	89.619	89.757	8762.32	390.98	1.66	390.98	0.00	
9170.00†	89.619	89.757	8762.99	490.98	2.09	490.97	0.00	
9270.00†	89.619	89.757	8763.65	590.98	2.51	590.97	0.00	
9370.00†	89.619	89.757	8764.32	690.97	2.94	690.97	0.00	
9470.00†	89.619	89.757	8764.98	790.97	3.36	790.97	0.00	
9570.00†	89.619	89.757	8765.65	890.97	3.79	890.96	0.00	
9670.00†	89.619	89.757	8766.32	990.97	4.21	990.96	0.00	
9770.00†	89.619	89.757	8766.98	1090.97	4.63	1090.96	0.00	
9870.00†	89.619	89.757	8767.65	1190.96	5.06	1190.95	0.00	
9970.00†	89.619	89.757	8768.31	1290.96	5.48	1290.95	0.00	
10070.00†	89.619	89.757	8768.98	1390.96	5.91	1390.95	0.00	
10170.00†	89.619	89.757	8769.64	1490.96	6.33	1490.94	0.00	
10270.00†	89.619	89.757	8770.31	1590.95	6.76	1590.94	0.00	
10370.00†	89.619	89.757	8770.98	1690.95	7.18	1690.94	0.00	
10470.00†	89.619	89.757	8771.64	1790.95	7.61	1790.93	0.00	
10570.00†	89.619	89.757	8772.31	1890.95	8.03	1890.93	0.00	
10670.00†	89.619	89.757	8772.97	1990.95	8.46	1990.93	0.00	
10770.00†	89.619	89.757	8773.64	2090.94	8.88	2090.92	0.00	
10870.00†	89.619	89.757	8774.30	2190.94	9.31	2190.92	0.00	
10970.00†	89.619	89.757	8774.97	2290.94	9.73	2290.92	0.00	
11070.00†	89.619	89.757	8775.64	2390.94	10.16	2390.92	0.00	
11170.00†	89.619	89.757	8776.30	2490.93	10.58	2490.91	0.00	
11270.00†	89.619	89.757	8776.97	2590.93	11.01	2590.91	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator **Cimarex Energy Co. of Colorado**

Slot **No. 3H SHL**

Area **Chaves County, NM**

Well **No. 3H**

Field **(Hancock) Sec 19, T15S, R31E**

Wellbore **No. 3H PWB**

Facility **Hancock 19 St Com No. 3H**

WELLPATH DATA (50 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
11370.00†	89.619	89.757	8777.63	2690.93	11.43	2690.91	0.00	
11470.00†	89.619	89.757	8778.30	2790.93	11.86	2790.90	0.00	
11570.00†	89.619	89.757	8778.96	2890.93	12.28	2890.90	0.00	
11670.00†	89.619	89.757	8779.63	2990.92	12.71	2990.90	0.00	
11770.00†	89.619	89.757	8780.30	3090.92	13.13	3090.89	0.00	
11870.00†	89.619	89.757	8780.96	3190.92	13.56	3190.89	0.00	
11970.00†	89.619	89.757	8781.63	3290.92	13.98	3290.89	0.00	
12070.00†	89.619	89.757	8782.29	3390.92	14.41	3390.88	0.00	
12170.00†	89.619	89.757	8782.96	3490.91	14.83	3490.88	0.00	
12270.00†	89.619	89.757	8783.62	3590.91	15.25	3590.88	0.00	
12370.00†	89.619	89.757	8784.29	3690.91	15.68	3690.88	0.00	
12470.00†	89.619	89.757	8784.96	3790.91	16.10	3790.87	0.00	
12570.00†	89.619	89.757	8785.62	3890.90	16.53	3890.87	0.00	
12670.00†	89.619	89.757	8786.29	3990.90	16.95	3990.87	0.00	
12770.00†	89.619	89.757	8786.95	4090.90	17.38	4090.86	0.00	
12870.00†	89.619	89.757	8787.62	4190.90	17.80	4190.86	0.00	
12970.00†	89.619	89.757	8788.28	4290.90	18.23	4290.86	0.00	
13070.00†	89.619	89.757	8788.95	4390.89	18.65	4390.85	0.00	
13170.00†	89.619	89.757	8789.62	4490.89	19.08	4490.85	0.00	
13227.69	89.619	89.757	8790.00 ¹	4548.58	19.32	4548.54	0.00	No. 3H BHL



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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 3H SHL
Area	Chaves County, NM	Well	No. 3H
Field	(Hancock) Sec 19, T15S, R31E	Wellbore	No. 3H PWB
Facility	Hancock 19 St Com No. 3H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 3H BHL	13227.69	8790.00	19.32	4548.54	688357.62	729032.92	33°00'11.491"N	103°51'13.550"W	point

SURVEY PROGRAM Ref Wellbore: No. 3H PWB Ref Wellpath: Preliminary

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	13227.69	NaviTrak (Standard)		No. 3H PWB



Cimarex Energy Co. of Colorado

Location Chaves County, NM
Field (Hancock) Sec 19, T15S, R31E
Facility Hancock 19 St Com No. 3H

Slot No. 3H SHL
Well No. 3H
Wellbore No. 3H PWB



Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (%/100ft)	VS (ft)
Tie On	0.00	0.000	89.757	0.00	0.00	0.00	0.00	0.00
KOP	8570.00	0.000	89.757	8570.00	0.00	0.00	0.00	0.00
EOC	8868.73	89.619	89.757	8760.98	0.81	189.71	30.00	189.71
No. 3H BHL	13227.69	89.619	89.757	8790.00	19.32	4548.54	0.00	4548.58

