

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

Form C-102
Revised October 12, 2005

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

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-005-29045		Pool Code ✓	Pool Name Abo Wildcat	
Property Code 37270	Property Name HANCOCK "19" STATE			Well Number 1
GRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO			Elevation 4457'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	19	15 S	31 E		1980	SOUTH	330	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
I	19	15 S	31 E		1980	SOUTH	330	EAST	CHAVES
Dedicated Acrea 159.31	Joint or Infill	Consolidation Code	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 - N32°59'58.43" Long - W103°52'07.50" NMSPC- N 727691.9 E 683769.4 (NAD-83)		BOTTOM HOLE LOCATION Lat - N32°59'58.40" Long - W103°51'13.55" NMSPC- N 727710.674 E 688363.516 (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. MAY 10, 2008 Date Surveyed <i>Gary L. Jones</i> Signature of Surveyor Professional Surveyor No. 7977 Certificate No. Gary L. Jones 7977 DASIN SURVEYS		EO-8663-0002 330' SHL & Penetration Point Abp 4595.5' BHL 330' 1980'		



Planned Wellpath Report

Preliminary

Page 1 of 4



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator **Cimarex Energy Co. of Colorado**

Area **Chaves County, NM**

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

Facility **Hancock 19 St No. 1H**

Slot **No. 1H SHL**

Well **No. 1H**

Wellbore **No. 1H 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 3:25:26 PM**

Convergence at slot **0.25° East**

Database/Source file **WA_Midland/No. 1H_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	683769.40	727691.90	32°59'58.426"N	103°52'07.498"W
Facility Reference Pt			683769.40	727691.90	32°59'58.426"N	103°52'07.498"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. 1H SHL (RT) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 1H SHL (RT) to Mean Sea Level	4475.00ft
Vertical Reference Pt	Rig on No. 1H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 1H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	89.77°



Planned Wellpath Report

Preliminary

Page 2 of 4



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator **Cimarex Energy Co. of Colorado**

Area **Chaves County, NM**

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

Facility **Hancock 19 St No. 1H**

Slot **No. 1H SHL**

Well **No. 1H**

Wellbore **No. 1H PWB**

WELLPATH DATA (51 stations)

† = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00	0.000	89.766	0.00	0.00	0.00	0.00	0.00	Tie On
8570.00	0.000	89.766	8570.00	0.00	0.00	0.00	0.00	KOP
8670.00†	30.000	89.766	8665.49	25.59	0.10	25.59	30.00	
8770.00†	60.000	89.766	8735.40	95.49	0.39	95.49	30.00	
8868.74	89.623	89.766	8760.98	189.73	0.78	189.73	30.00	EOC
8870.00†	89.623	89.766	8760.99	190.99	0.78	190.98	0.00	
8970.00†	89.623	89.766	8761.65	290.98	1.19	290.98	0.00	
9070.00†	89.623	89.766	8762.31	390.98	1.60	390.98	0.00	
9170.00†	89.623	89.766	8762.97	490.98	2.01	490.98	0.00	
9270.00†	89.623	89.766	8763.63	590.98	2.42	590.97	0.00	
9370.00†	89.623	89.766	8764.28	690.98	2.82	690.97	0.00	
9470.00†	89.623	89.766	8764.94	790.97	3.23	790.97	0.00	
9570.00†	89.623	89.766	8765.60	890.97	3.64	890.96	0.00	
9670.00†	89.623	89.766	8766.26	990.97	4.05	990.96	0.00	
9770.00†	89.623	89.766	8766.92	1090.97	4.46	1090.96	0.00	
9870.00†	89.623	89.766	8767.58	1190.96	4.87	1190.95	0.00	
9970.00†	89.623	89.766	8768.24	1290.96	5.28	1290.95	0.00	
10070.00†	89.623	89.766	8768.90	1390.96	5.68	1390.95	0.00	
10170.00†	89.623	89.766	8769.55	1490.96	6.09	1490.95	0.00	
10270.00†	89.623	89.766	8770.21	1590.96	6.50	1590.94	0.00	
10370.00†	89.623	89.766	8770.87	1690.95	6.91	1690.94	0.00	
10470.00†	89.623	89.766	8771.53	1790.95	7.32	1790.94	0.00	
10570.00†	89.623	89.766	8772.19	1890.95	7.73	1890.93	0.00	
10670.00†	89.623	89.766	8772.85	1990.95	8.14	1990.93	0.00	
10770.00†	89.623	89.766	8773.51	2090.94	8.54	2090.93	0.00	
10870.00†	89.623	89.766	8774.17	2190.94	8.95	2190.92	0.00	
10970.00†	89.623	89.766	8774.82	2290.94	9.36	2290.92	0.00	
11070.00†	89.623	89.766	8775.48	2390.94	9.77	2390.92	0.00	
11170.00†	89.623	89.766	8776.14	2490.94	10.18	2490.92	0.00	
11270.00†	89.623	89.766	8776.80	2590.93	10.59	2590.91	0.00	



Planned Wellpath Report

Preliminary
Page 3 of 4



REFERENCE WELLPATH IDENTIFICATION

Operator **Cimarex Energy Co. of Colorado**
Area **Chaves County, NM**
Field **(Hancock) Sec 19, T15S, R31E**
Facility **Hancock 19 St No. 1H**

Slot **No. 1H SHL**
Well **No. 1H**
Wellbore **No. 1H PWB**

WELLPATH DATA (51 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
11370.00†	89.623	89.766	8777.46	2690.93	11.00	2690.91	0.00	
11470.00†	89.623	89.766	8778.12	2790.93	11.41	2790.91	0.00	
11570.00†	89.623	89.766	8778.78	2890.93	11.81	2890.90	0.00	
11670.00†	89.623	89.766	8779.44	2990.93	12.22	2990.90	0.00	
11770.00†	89.623	89.766	8780.09	3090.92	12.63	3090.90	0.00	
11870.00†	89.623	89.766	8780.75	3190.92	13.04	3190.89	0.00	
11970.00†	89.623	89.766	8781.41	3290.92	13.45	3290.89	0.00	
12070.00†	89.623	89.766	8782.07	3390.92	13.86	3390.89	0.00	
12170.00†	89.623	89.766	8782.73	3490.91	14.27	3490.89	0.00	
12270.00†	89.623	89.766	8783.39	3590.91	14.67	3590.88	0.00	
12370.00†	89.623	89.766	8784.05	3690.91	15.08	3690.88	0.00	
12470.00†	89.623	89.766	8784.71	3790.91	15.49	3790.88	0.00	
12570.00†	89.623	89.766	8785.36	3890.91	15.90	3890.87	0.00	
12670.00†	89.623	89.766	8786.02	3990.90	16.31	3990.87	0.00	
12770.00†	89.623	89.766	8786.68	4090.90	16.72	4090.87	0.00	
12870.00†	89.623	89.766	8787.34	4190.90	17.13	4190.86	0.00	
12970.00†	89.623	89.766	8788.00	4290.90	17.53	4290.86	0.00	
13070.00†	89.623	89.766	8788.66	4390.89	17.94	4390.86	0.00	
13170.00†	89.623	89.766	8789.32	4490.89	18.35	4490.86	0.00	
13270.00†	89.623	89.766	8789.98	4590.89	18.76	4590.85	0.00	
13273.58	89.623	89.766	8790.00 ¹	4594.47	18.78	4594.44	0.00	No. 1H BHL



Planned Wellpath Report

Preliminary

Page 4 of 4



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator **Cimarex Energy Co. of Colorado**

Area **Chaves County, NM**

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

Facility **Hancock 19 St No. 1H**

Slot

No. 1H SHL

Well

No. 1H

Wellbore

No. 1H PWB

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 1H BHL	13273.58	8790.00	18.78	4594.44	688363.52	727710.67	32°59'58.408"N	103°51'13.552"W	point

SURVEY PROGRAM Ref Wellbore: No. 1H PWB Ref Wellpath: Preliminary

Start MD
[ft]

18.00

End MD
[ft]

13273.58 NaviTrak (Standard)

Positional Uncertainty Model

Log Name/Comment

Wellbore

No. 1H PWB



Cimarex Energy Co. of Colorado

Location Chaves County, NM
Field (Hancock) Sec 19, T15S, R31E
Facility Hancock 19 St No. 1H

Slot No. 1H SHL
Well No. 1H
Wellbore No. 1H 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	89.766	0.00	0.00	0.00	0.00	0.00
KOP	8570.00	0.000	89.766	8570.00	0.00	0.00	0.00	0.00
EOC	8868.74	89.623	89.766	8760.98	0.78	189.73	30.00	189.73
No. 1H BHL	13273.58	89.623	89.766	8790.00	18.78	4594.44	0.00	4594.47

