

DISTRICT I
1626 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Hobbs, NM 88240

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-005-29052	Pool Code /	Pool Name Abo; Wildcat
Property Code 36968	Property Name SARATOGA "30" STATE COM	Well Number 2
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 4430'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	30	15 S	31 E		2310	SOUTH	330	EAST	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
L	30	15 S	31 E		1980	SOUTH	375	WEST	CHAVES

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
159.41		P	

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

BHL 1980 FSL & 375 FWL		SHL 2310 FSL & 330 FEL	
P.P. 2310 FSL & 330 FEL			
BOTTOM HOLE LOCATION Lat - N32°59'06.13" Long - W103°52'07.00" NMSPCE- N 722407.775 E 683834.414 (NAD-83)		SURFACE LOCATION Lat - N32°59'07.66" Long - W103°51'13.55" NMSPCE- N 722581.9 E 688386.7 (NAD-83)	
E0-8664-0001	E0-2771-0001	E0-8664-0001	
375'	4556.6'	330'	
1980'		2310'	

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.

Zeno Farris 09-11-08
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

GARY L. JONES
Signature & Seal
Professional Surveyor

W.O. 1045
Certificate No. Gary L. Jones 7977

BASIN SURVEYS

30-005-29052



Planned Wellpath Report

Preliminary
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REFERENCE WELLPATH IDENTIFICATION

Operator **Cimarex Energy Co. of Colorado**
Area **Chaves County, NM**
Field **(Saratoga) Sec 30, T15S, R31E**
Facility **Saratoga 30 ST COM No. 2H**

Slot **No. 2H SHL**
Well **No. 2H SHL**
Wellbore **No. 2H 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 **0.999934**

Report Generated **7/25/2008 at 1:16:22 PM**

Convergence at slot **0.26° East**

Database/Source file **WA_Midland/No. 2H_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	688386.70	722581.90	32°59'07.660"N	103°51'13.554"W
Facility Reference Pt			688386.70	722581.90	32°59'07.660"N	103°51'13.554"W
Field Reference Pt			688386.70	722581.90	32°59'07.660"N	103°51'13.554"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 2H SHL (RT) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 2H SHL (RT) to Mean Sea Level	4448.00ft
Vertical Reference Pt	Rig on No. 2H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 2H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	267.81°



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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H SHL
Field	(Saratoga) Sec 30, T15S, R31E	Wellbore	No. 2H PWB
Facility	Saratoga 30 ST COM No. 2H		

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	267.810	0.00	0.00	0.00	0.00	0.00	Tie On
8570.00	0.000	267.810	8570.00	0.00	0.00	0.00	0.00	KOP
8670.00†	30.000	267.810	8665.49	25.59	-0.98	-25.57	30.00	
8770.00†	60.000	267.810	8735.40	95.49	-3.65	-95.42	30.00	
8868.73	89.619	267.810	8760.98	189.72	-7.25	-189.58	30.00	EOC
8870.00†	89.619	267.810	8760.99	190.99	-7.30	-190.85	0.00	
8970.00†	89.619	267.810	8761.65	290.98	-11.12	-290.77	0.00	
9070.00†	89.619	267.810	8762.32	390.98	-14.94	-390.70	0.00	
9170.00†	89.619	267.810	8762.98	490.98	-18.77	-490.62	0.00	
9270.00†	89.619	267.810	8763.65	590.98	-22.59	-590.55	0.00	
9370.00†	89.619	267.810	8764.31	690.97	-26.41	-690.47	0.00	
9470.00†	89.619	267.810	8764.98	790.97	-30.23	-790.39	0.00	
9570.00†	89.619	267.810	8765.64	890.97	-34.05	-890.32	0.00	
9670.00†	89.619	267.810	8766.31	990.97	-37.88	-990.24	0.00	
9770.00†	89.619	267.810	8766.97	1090.97	-41.70	-1090.17	0.00	
9870.00†	89.619	267.810	8767.64	1190.96	-45.52	-1190.09	0.00	
9970.00†	89.619	267.810	8768.30	1290.96	-49.34	-1290.02	0.00	
10070.00†	89.619	267.810	8768.97	1390.96	-53.17	-1389.94	0.00	
10170.00†	89.619	267.810	8769.63	1490.96	-56.99	-1489.87	0.00	
10270.00†	89.619	267.810	8770.29	1590.95	-60.81	-1589.79	0.00	
10370.00†	89.619	267.810	8770.96	1690.95	-64.63	-1689.72	0.00	
10470.00†	89.619	267.810	8771.62	1790.95	-68.45	-1789.64	0.00	
10570.00†	89.619	267.810	8772.29	1890.95	-72.28	-1889.57	0.00	
10670.00†	89.619	267.810	8772.95	1990.95	-76.10	-1989.49	0.00	
10770.00†	89.619	267.810	8773.62	2090.94	-79.92	-2089.42	0.00	
10870.00†	89.619	267.810	8774.28	2190.94	-83.74	-2189.34	0.00	
10970.00†	89.619	267.810	8774.95	2290.94	-87.56	-2289.27	0.00	
11070.00†	89.619	267.810	8775.61	2390.94	-91.39	-2389.19	0.00	
11170.00†	89.619	267.810	8776.28	2490.94	-95.21	-2489.11	0.00	
11270.00†	89.619	267.810	8776.94	2590.93	-99.03	-2589.04	0.00	



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Facility **Saratoga 30 ST COM No. 2H**

Slot **No. 2H SHL**
Well **No. 2H SHL**
Wellbore **No. 2H PWB**

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	267.810	8777.61	2690.93	-102.85	-2688.96	0.00	
11470.00†	89.619	267.810	8778.27	2790.93	-106.68	-2788.89	0.00	
11570.00†	89.619	267.810	8778.93	2890.93	-110.50	-2888.81	0.00	
11670.00†	89.619	267.810	8779.60	2990.92	-114.32	-2988.74	0.00	
11770.00†	89.619	267.810	8780.26	3090.92	-118.14	-3088.66	0.00	
11870.00†	89.619	267.810	8780.93	3190.92	-121.96	-3188.59	0.00	
11970.00†	89.619	267.810	8781.59	3290.92	-125.79	-3288.51	0.00	
12070.00†	89.619	267.810	8782.26	3390.92	-129.61	-3388.44	0.00	
12170.00†	89.619	267.810	8782.92	3490.91	-133.43	-3488.36	0.00	
12270.00†	89.619	267.810	8783.59	3590.91	-137.25	-3588.29	0.00	
12370.00†	89.619	267.810	8784.25	3690.91	-141.07	-3688.21	0.00	
12470.00†	89.619	267.810	8784.92	3790.91	-144.90	-3788.14	0.00	
12570.00†	89.619	267.810	8785.58	3890.90	-148.72	-3888.06	0.00	
12670.00†	89.619	267.810	8786.24	3990.90	-152.54	-3987.99	0.00	
12770.00†	89.619	267.810	8786.91	4090.90	-156.36	-4087.91	0.00	
12870.00†	89.619	267.810	8787.57	4190.90	-160.18	-4187.84	0.00	
12970.00†	89.619	267.810	8788.24	4290.90	-164.01	-4287.76	0.00	
13070.00†	89.619	267.810	8788.90	4390.89	-167.83	-4387.68	0.00	
13170.00†	89.619	267.810	8789.57	4490.89	-171.65	-4487.61	0.00	
13235.04	89.619	267.810	8790.00 ¹	4555.93	-174.14	-4552.60	0.00	No. 2H BHL



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**BAKER
HUGHES**

INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H SHL
Field	(Saratoga) Sec 30, T15S, R31E	Wellbore	No. 2H PWB
Facility	Saratoga 30 ST COM No. 2H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 2H BHL	13235.04	8790.00	-174.14	-4552.60	683834.41	722407.78	32°59'06.139"N	103°52'07.008"W	point

SURVEY PROGRAM Ref Wellbore: No. 2H PWB Ref Wellpath: Preliminary

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	13235.04	NaviTrak (Standard)		No. 2H PWB

