

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

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

RECEIVED
FEB 17 2009
HOBBSOCD

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-005-29077	Pool Code 97722	Pool Name Wildcat Abo Wolfcamp
Property Code 37276	Property Name TICONDEROGA "16" STATE COM	Well Number 2
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 4420'

Surface Location

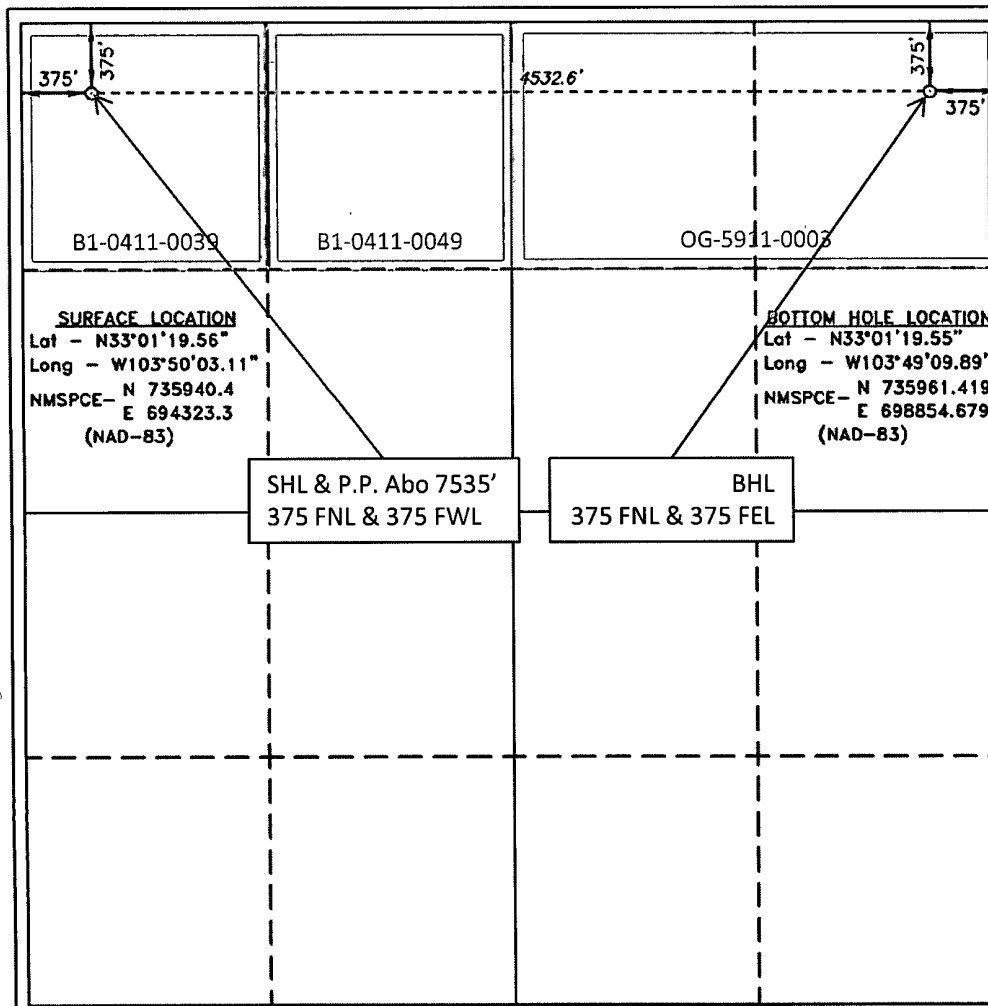
UL or lot No. D	Section 16	Township 15 S	Range 31 E	Lot Idn	Feet from the 375	North/South line NORTH	Feet from the 375	East/West line WEST	County CHAVES
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Bottom Hole Location If Different From Surface

UL or lot No. A	Section 16	Township 15 S	Range 31 E	Lot Idn	Feet from the 375	North/South line NORTH	Feet from the 375	East/West line EAST	County CHAVES
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Dedicated Acres 160	Joint or Infill	Consolidation Code P	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.

Zeno Farris 2/16/2009
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.

SEPTEMBER 22, 2008

Date Surveyed
Signature of Surveyor
Professional Surveyor

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

BASIN SURVEYS



Cimarex Energy Co. of Colorado

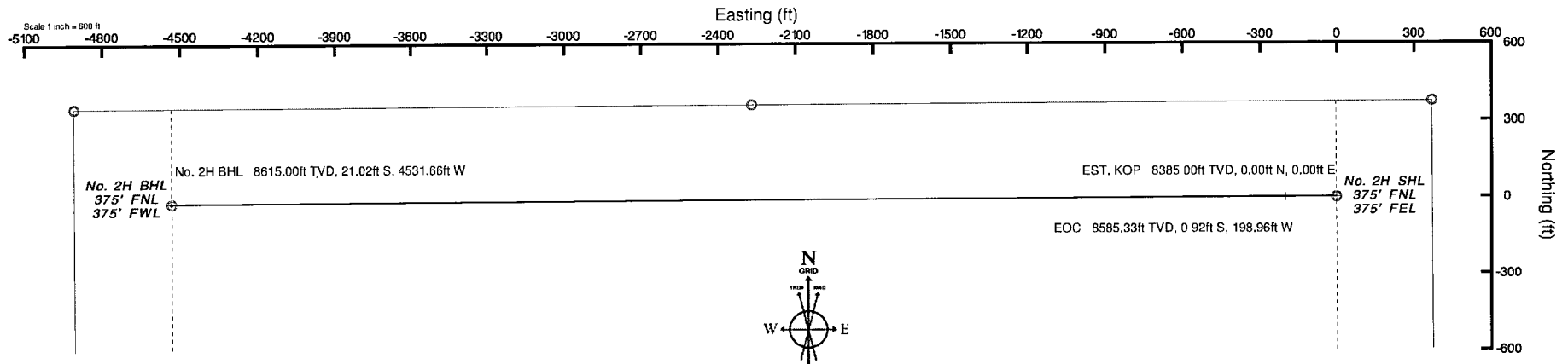
Location: Chaves County, NM
Field (Ticonderoga) Sec 16, T15S, R31E
Facility: Ticonderoga 16 St Com No. 2H

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



Well Profile Data

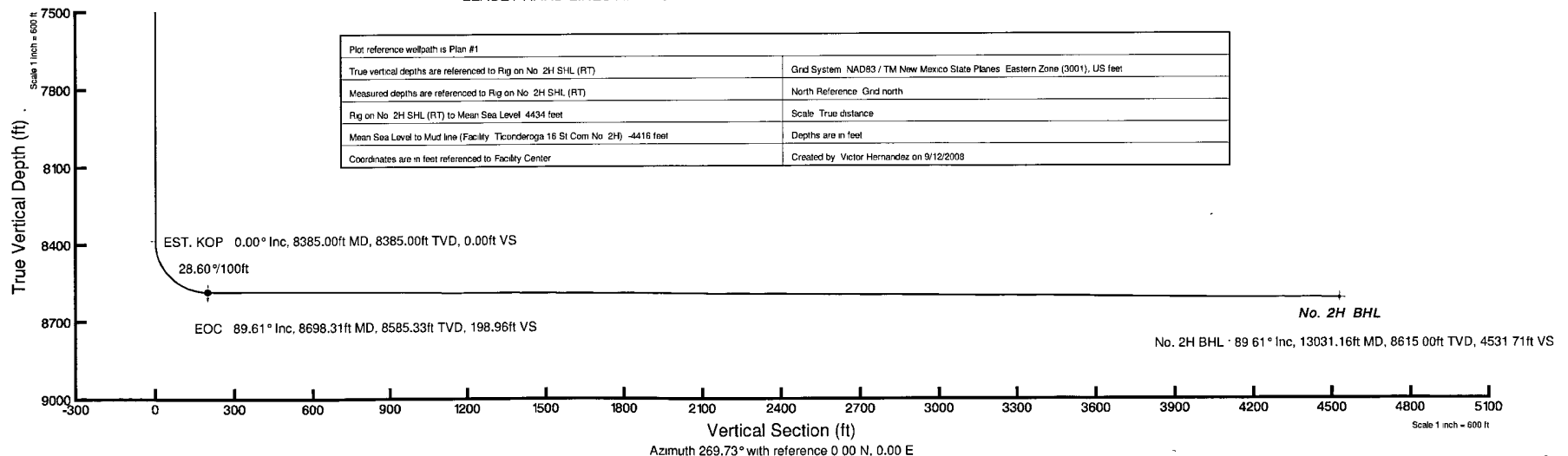
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (%100ft)	VS (ft)
Tie On	0.00	0.000	269.734	0.00	0.00	0.00	0.00	0.00
EST. KOP	8385.00	0.000	269.734	8385.00	0.00	0.00	0.00	0.00
EOC	8698.31	89.608	269.734	8585.33	-0.92	-198.96	28.60	198.96
No. 2H BHL	13031.16	89.608	269.734	8615.00	-21.02	-4531.66	0.00	4531.71



N
GRID
TRUE
MAG

BGM (1945 to 2009) Dn 80.86° Field 89.60° S NT
Magnetic North is 9.14 degrees East of True North (at 9/12/2008)
Grid North is 0.28 degrees East of True North
To correct azimuth from True to Grid subtract 0.28 degrees
To correct azimuth from Magnetic to Grid add 7.86 degrees
For example: if the Magnetic North Azimuth = 90 degs then the Grid North Azimuth = 90 + 7.86 = 97.86

LEASE / HARD LINES ARE ESTIMATE ONLY AND ARE SUBJECT TO CUSTOMER APPROVAL.





Planned Wellpath Report

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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
Field	(Ticonderoga) Sec 16, T15S, R31E	Wellbore	No. 2H PWB
Facility	Ticonderoga 16 St Com No. 2H		

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	0.999938	Report Generated	9/12/2008 at 4:14:39 PM
Convergence at slot	0.28° 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	698854.70	735961.40	33°01'19.554"N	103°49'09.890"W
Facility Reference Pt			698854.70	735961.40	33°01'19.554"N	103°49'09.890"W
Field Reference Pt			694286.00	734335.70	33°01'03.686"N	103°50'03.641"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	4434.00ft
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	269.73°



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(Ticonderoga) Sec 16, T15S, R31E	Wellbore	No. 2H PWB
Facility	Ticonderoga 16 St Com No. 2H		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]	Comments
0.00	0.000	269.734	0.00	0.00	0.00	0.00	698854.70	735961.40	0.00	Tie On
8385.00	0.000	269.734	8385.00	0.00	0.00	0.00	698854.70	735961.40	0.00	EST. KOP
8485.00†	28.600	269.734	8480.90	24.44	-0.11	-24.44	698830.26	735961.29	28.60	
8585.00†	57.200	269.734	8553.39	91.81	-0.43	-91.81	698762.90	735960.97	28.60	
8685.00†	85.800	269.734	8584.80	185.66	-0.86	-185.66	698669.05	735960.54	28.60	
8698.31	89.608	269.734	8585.33	198.96	-0.92	-198.96	698655.75	735960.48	28.60	EOC
8785.00†	89.608	269.734	8585.92	285.65	-1.32	-285.64	698569.07	735960.08	0.00	
8885.00†	89.608	269.734	8586.61	385.65	-1.79	-385.64	698469.08	735959.61	0.00	
8985.00†	89.608	269.734	8587.29	485.64	-2.25	-485.64	698369.09	735959.15	0.00	
9085.00†	89.608	269.734	8587.98	585.64	-2.72	-585.63	698269.10	735958.68	0.00	
9185.00†	89.608	269.734	8588.66	685.64	-3.18	-685.63	698169.11	735958.22	0.00	
9285.00†	89.608	269.734	8589.35	785.64	-3.64	-785.63	698069.12	735957.76	0.00	
9385.00†	89.608	269.734	8590.03	885.63	-4.11	-885.62	697969.13	735957.29	0.00	
9485.00†	89.608	269.734	8590.72	985.63	-4.57	-985.62	697869.14	735956.83	0.00	
9585.00†	89.608	269.734	8591.40	1085.63	-5.03	-1085.62	697769.15	735956.37	0.00	
9685.00†	89.608	269.734	8592.09	1185.63	-5.50	-1185.61	697669.16	735955.90	0.00	
9785.00†	89.608	269.734	8592.77	1285.62	-5.96	-1285.61	697569.17	735955.44	0.00	
9885.00†	89.608	269.734	8593.46	1385.62	-6.43	-1385.61	697469.18	735954.97	0.00	
9985.00†	89.608	269.734	8594.14	1485.62	-6.89	-1485.60	697369.19	735954.51	0.00	
10085.00†	89.608	269.734	8594.83	1585.62	-7.35	-1585.60	697269.20	735954.05	0.00	
10185.00†	89.608	269.734	8595.51	1685.61	-7.82	-1685.60	697169.21	735953.58	0.00	
10285.00†	89.608	269.734	8596.20	1785.61	-8.28	-1785.59	697069.22	735953.12	0.00	
10385.00†	89.608	269.734	8596.88	1885.61	-8.74	-1885.59	696969.23	735952.66	0.00	
10485.00†	89.608	269.734	8597.56	1985.61	-9.21	-1985.59	696869.24	735952.19	0.00	
10585.00†	89.608	269.734	8598.25	2085.61	-9.67	-2085.58	696769.25	735951.73	0.00	
10685.00†	89.608	269.734	8598.93	2185.60	-10.14	-2185.58	696669.26	735951.26	0.00	
10785.00†	89.608	269.734	8599.62	2285.60	-10.60	-2285.58	696569.27	735950.80	0.00	
10885.00†	89.608	269.734	8600.30	2385.60	-11.06	-2385.57	696469.28	735950.34	0.00	
10985.00†	89.608	269.734	8600.99	2485.60	-11.53	-2485.57	696369.29	735949.87	0.00	
11085.00†	89.608	269.734	8601.67	2585.59	-11.99	-2585.57	696269.30	735949.41	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(Ticonderoga) Sec 16, T15S, R31E	Wellbore	No. 2H PWB
Facility	Ticonderoga 16 St Com No. 2H		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]	Comments
11185.00†	89.608	269.734	8602.36	2685.59	-12.45	-2685.56	696169.31	735948.95	0.00	
11285.00†	89.608	269.734	8603.04	2785.59	-12.92	-2785.56	696069.32	735948.48	0.00	
11385.00†	89.608	269.734	8603.73	2885.59	-13.38	-2885.56	695969.33	735948.02	0.00	
11485.00†	89.608	269.734	8604.41	2985.58	-13.85	-2985.55	695869.34	735947.55	0.00	
11585.00†	89.608	269.734	8605.10	3085.58	-14.31	-3085.55	695769.35	735947.09	0.00	
11685.00†	89.608	269.734	8605.78	3185.58	-14.77	-3185.55	695669.36	735946.63	0.00	
11785.00†	89.608	269.734	8606.47	3285.58	-15.24	-3285.54	695569.37	735946.16	0.00	
11885.00†	89.608	269.734	8607.15	3385.57	-15.70	-3385.54	695469.38	735945.70	0.00	
11985.00†	89.608	269.734	8607.84	3485.57	-16.16	-3485.54	695369.39	735945.24	0.00	
12085.00†	89.608	269.734	8608.52	3585.57	-16.63	-3585.53	695269.40	735944.77	0.00	
12185.00†	89.608	269.734	8609.21	3685.57	-17.09	-3685.53	695169.41	735944.31	0.00	
12285.00†	89.608	269.734	8609.89	3785.57	-17.56	-3785.52	695069.42	735943.85	0.00	
12385.00†	89.608	269.734	8610.58	3885.56	-18.02	-3885.52	694969.43	735943.38	0.00	
12485.00†	89.608	269.734	8611.26	3985.56	-18.48	-3985.52	694869.44	735942.92	0.00	
12585.00†	89.608	269.734	8611.94	4085.56	-18.95	-4085.51	694769.45	735942.45	0.00	
12685.00†	89.608	269.734	8612.63	4185.56	-19.41	-4185.51	694669.46	735941.99	0.00	
12785.00†	89.608	269.734	8613.31	4285.55	-19.87	-4285.51	694569.47	735941.53	0.00	
12885.00†	89.608	269.734	8614.00	4385.55	-20.34	-4385.50	694469.48	735941.06	0.00	
12985.00†	89.608	269.734	8614.68	4485.55	-20.80	-4485.50	694369.49	735940.60	0.00	
13031.16	89.608	269.734	8615.00 ¹	4531.71	-21.02	-4531.66	694323.33	735940.39	0.00	No. 2H BHL



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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
Field	(Ticonderoga) Sec 16, T15S, R31E	Wellbore	No. 2H PWB
Facility	Ticonderoga 16 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	13031.16	8615.00	-21.02	-4531.66	694323.33	735940.39	33°01'19.562"N	103°50'03.113"W	point

SURVEY PROGRAM Ref Wellbore: No. 2H PWB Ref Wellpath: Plan #1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	13031.16	NaviTrak (Standard)		No. 2H PWB