

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Braxos Rd., Artec, 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 15, 2009

Submit one copy to appropriate
District Office

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-37719	Pool Code 60660	Pool Name Turkey Track; Bone Spring
Property Code 21733	Property Name STATE "14" COM	Well Number 3
OGRD No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3377'

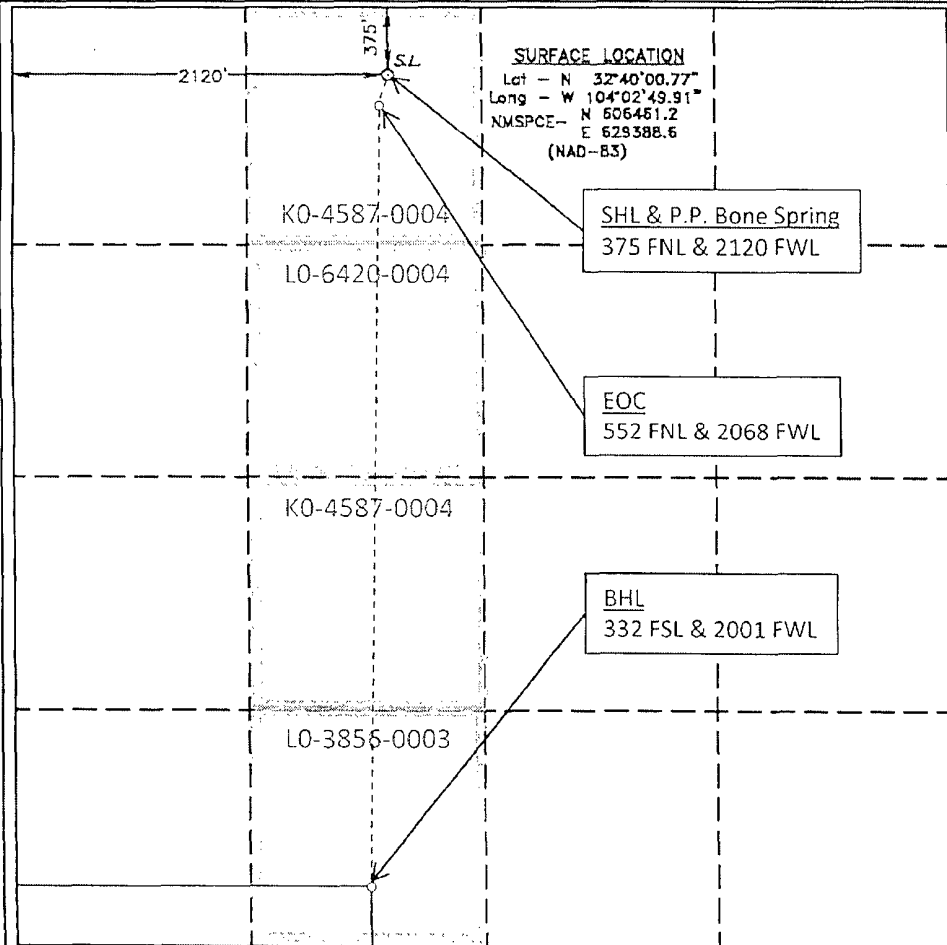
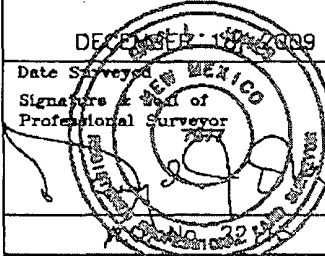
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	14	19 S	29 E		375	NORTH	2120	WEST	EDDY

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
N	14	19 S	29 E		332	SOUTH	2001	WEST	EDDY
Dedicated Acres 160	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 - N 32°40'00.77" Long - W 104°02'49.91" NMSPCE- N 806461.2 E 629388.6 (NAD-83) SHL & P.P. Bone Spring 375 FNL & 2120 FWL EOC 552 FNL & 2068 FWL BHL 332 FSL & 2001 FWL K0-4587-0004 L0-6420-0004 K0-4587-0004 L0-3856-0003	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 undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this 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> 9/17/2010 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. DECEMBER 18, 2009 Date Surveyed  Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 7977 Basin Surveys
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30-015-37719



Cimarex Energy Co.

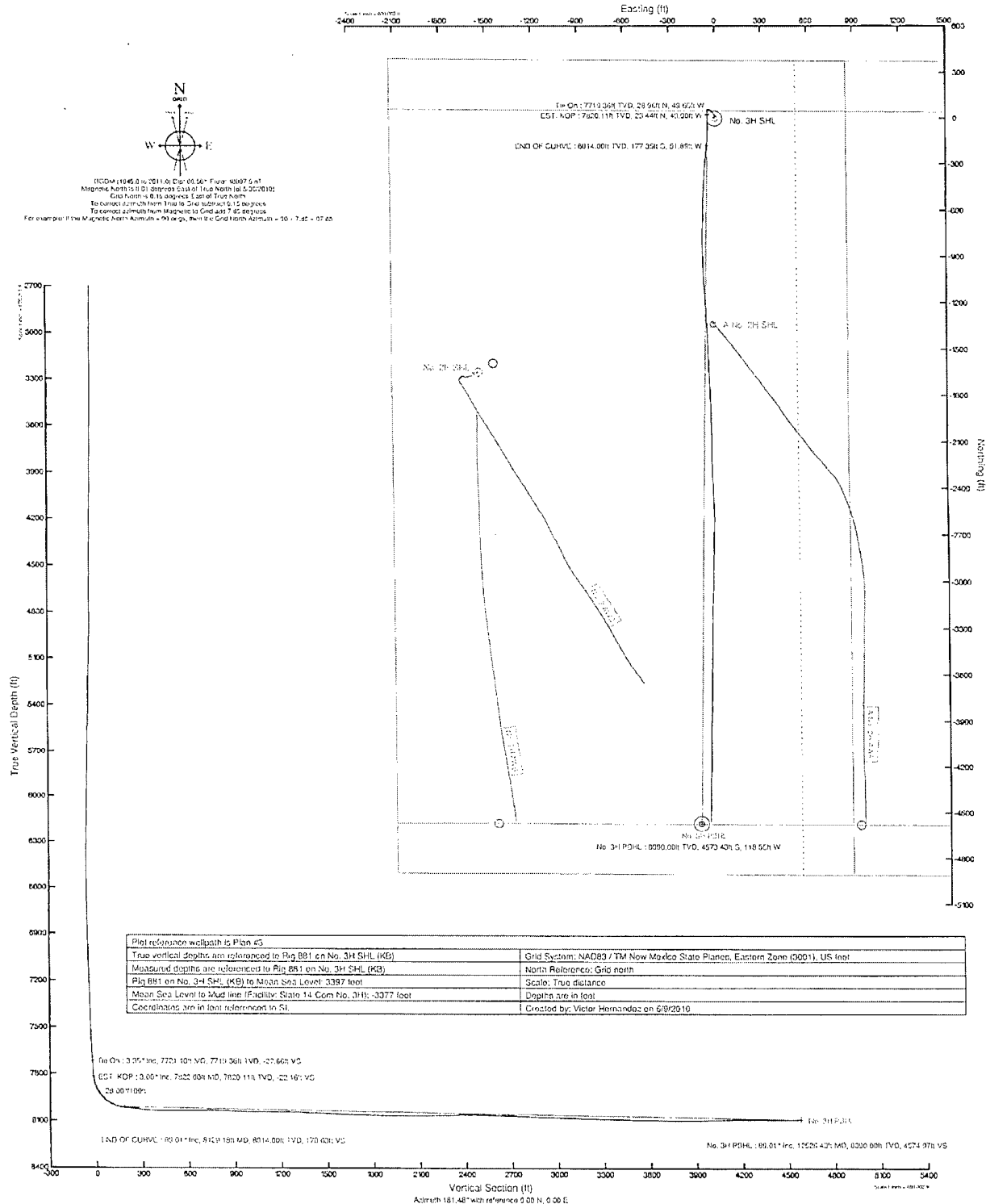
Location: Eddy County, NM
Field: (State) Sec 14, T19S, R29E
Facility: State 14 Com No. 3H

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	7721.10	3.350	167.170	7719.36	28.96	-49.65	0.00	-27.65
EST. KOP	7822.00	3.000	180.000	7820.11	23.44	-49.00	0.78	-22.16
END OF CURVE	8129.18	89.010	180.869	8014.00	-177.35	-51.89	28.00	178.53
No. 3H PWB	12526.43	89.010	180.869	8090.00	-4573.43	-118.55	0.00	4574.97





Actual Wellpath Report

No. 3H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(State) Sec 14, T19S, R29E	Wellbore	No. 3H AWB
Facility	State 14 Com No. 3H	Sidetrack from	No. 3 AWB at 7768.30 MD

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	0.999918	Report Generated	6/9/2010 at 4:13:21 PM
Convergence at slot	0.15° East	Database/Source file	WA_Midland/No_3H_AWB.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	629388.60	606461.20	32°40'00.773"N	104°02'49.908"W
Facility Reference Pt			629388.60	606461.20	32°40'00.773"N	104°02'49.908"W
Field Reference Pt			629388.60	606461.20	32°40'00.773"N	104°02'49.908"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig 881 on No. 3H SHL (KB) to GL	20.00ft
Horizontal Reference Pt	SL	Rig 881 on No. 3H SHL (KB) to Mean Sea Level	3397.00ft
Vertical Reference Pt	Rig 881 on No. 3H SHL (KB)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig 881 on No. 3H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	181.48°



Actual Wellpath Report

No. 3H AWP

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REFERENCE WELL PATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(State) Sec 14, T19S, R29E	Wellbore	No. 3H AWP
Facility	State 14 Com No. 3H	Sidetrack from	No. 3 AWP at 7768.30 MD

WELLPATH DATA (147 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
0.00	0.000	292.930	0.00	0.00	0.00	0.00	629388.60	606461.20	32°40'00.773"N	104°02'49.908"W	0.00
123.90	0.860	292.930	123.90	-0.34	0.36	-0.86	629387.74	606461.56	32°40'00.777"N	104°02'49.918"W	0.69
250.60	0.740	302.060	250.58	-1.10	1.17	-2.43	629386.17	606462.37	32°40'00.785"N	104°02'49.936"W	0.14
377.20	0.600	317.410	377.17	-2.00	2.09	-3.57	629385.03	606463.29	32°40'00.794"N	104°02'49.950"W	0.18
503.80	0.480	324.720	503.77	-2.90	3.01	-4.32	629384.28	606464.21	32°40'00.803"N	104°02'49.959"W	0.11
630.40	0.350	322.720	630.37	-3.62	3.75	-4.86	629383.74	606464.95	32°40'00.811"N	104°02'49.965"W	0.10
757.00	0.330	335.350	756.96	-4.25	4.39	-5.25	629383.35	606465.59	32°40'00.817"N	104°02'49.969"W	0.06
883.70	0.200	338.150	883.66	-4.78	4.93	-5.48	629383.12	606466.13	32°40'00.822"N	104°02'49.972"W	0.10
1010.30	0.300	349.640	1010.26	-5.31	5.46	-5.62	629382.98	606466.66	32°40'00.827"N	104°02'49.974"W	0.09
1136.90	0.300	348.230	1136.86	-5.96	6.11	-5.75	629382.85	606467.31	32°40'00.834"N	104°02'49.975"W	0.01
1263.50	0.400	36.190	1263.46	-6.64	6.79	-5.56	629383.04	606467.99	32°40'00.841"N	104°02'49.973"W	0.24
1390.10	0.430	38.590	1390.05	-7.38	7.52	-5.00	629383.60	606468.72	32°40'00.848"N	104°02'49.966"W	0.03
1516.80	0.600	75.940	1516.75	-7.94	8.05	-4.06	629384.54	606469.25	32°40'00.853"N	104°02'49.955"W	0.29
1643.40	0.600	63.170	1643.34	-8.43	8.51	-2.83	629385.77	606469.71	32°40'00.858"N	104°02'49.941"W	0.11
1770.00	0.520	86.690	1769.94	-8.80	8.84	-1.66	629386.94	606470.04	32°40'00.861"N	104°02'49.927"W	0.19
1896.60	0.540	70.900	1896.53	-9.05	9.07	-0.52	629388.08	606470.27	32°40'00.863"N	104°02'49.914"W	0.12
2023.20	1.030	59.210	2023.12	-9.87	9.85	1.02	629389.62	606471.05	32°40'00.871"N	104°02'49.896"W	0.41
2149.90	1.260	47.420	2149.79	-11.45	11.37	3.02	629391.62	606472.57	32°40'00.886"N	104°02'49.872"W	0.26
2276.50	1.220	100.140	2276.37	-12.21	12.08	5.37	629393.97	606473.28	32°40'00.893"N	104°02'49.845"W	0.87
2403.10	1.150	1.480	2402.95	-13.28	13.11	6.73	629395.33	606474.31	32°40'00.903"N	104°02'49.829"W	1.42
2529.70	1.070	350.920	2529.53	-15.71	15.55	6.58	629395.18	606476.75	32°40'00.927"N	104°02'49.831"W	0.17
2656.30	0.910	323.740	2656.11	-17.67	17.53	5.80	629394.40	606478.72	32°40'00.947"N	104°02'49.840"W	0.39
2783.00	0.840	293.680	2782.79	-18.82	18.71	4.35	629392.95	606479.91	32°40'00.958"N	104°02'49.857"W	0.36
2909.60	0.730	297.570	2909.38	-19.52	19.46	2.79	629391.39	606480.66	32°40'00.966"N	104°02'49.875"W	0.10
3036.20	0.670	307.250	3035.97	-20.31	20.28	1.48	629390.08	606481.48	32°40'00.974"N	104°02'49.890"W	0.10
3162.80	0.290	323.310	3162.57	-20.99	20.98	0.70	629389.30	606482.18	32°40'00.981"N	104°02'49.899"W	0.32
3289.40	0.210	291.080	3289.17	-21.32	21.32	0.29	629388.89	606482.52	32°40'00.984"N	104°02'49.904"W	0.13
3416.10	0.460	286.250	3415.87	-21.53	21.55	-0.41	629388.19	606482.75	32°40'00.986"N	104°02'49.912"W	0.20
3542.70	0.650	331.610	3542.46	-22.28	22.32	-1.24	629387.36	606483.52	32°40'00.994"N	104°02'49.922"W	0.37
3669.30	0.660	16.070	3669.05	-23.61	23.66	-1.38	629387.22	606484.85	32°40'01.007"N	104°02'49.923"W	0.39



Actual Wellpath Report

No. 3H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(State) Sec 14, T19S, R29E	Wellbore	No. 3H AWB
Facility	State 14 Com No. 3H	Sidetrack from	No. 3 AWB at 7768.30 MD

WELLPATH DATA (147 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
3795.90	0.630	319.450	3795.65	-24.83	24.89	-1.63	629386.97	606486.08	32°40'01.020"N	104°02'49.926"W	0.48
3922.50	0.600	320.760	3922.24	-25.85	25.93	-2.50	629386.10	606487.13	32°40'01.030"N	104°02'49.937"W	0.03
4049.20	0.590	357.520	4048.93	-27.01	27.09	-2.95	629385.65	606488.29	32°40'01.041"N	104°02'49.942"W	0.30
4175.80	0.700	318.780	4175.52	-28.23	28.33	-3.49	629385.11	606489.52	32°40'01.054"N	104°02'49.948"W	0.35
4302.40	0.630	330.920	4302.12	-29.39	29.52	-4.34	629384.26	606490.71	32°40'01.065"N	104°02'49.958"W	0.12
4429.00	0.550	294.290	4428.71	-30.23	30.37	-5.23	629383.37	606491.57	32°40'01.074"N	104°02'49.968"W	0.30
4555.60	0.300	332.180	4555.31	-30.75	30.92	-5.94	629382.66	606492.11	32°40'01.079"N	104°02'49.977"W	0.29
4682.30	0.300	327.060	4682.00	-31.32	31.49	-6.27	629382.33	606492.69	32°40'01.085"N	104°02'49.980"W	0.02
4808.90	0.290	283.500	4808.60	-31.66	31.84	-6.76	629381.84	606493.04	32°40'01.088"N	104°02'49.986"W	0.17
4935.50	0.790	323.490	4935.20	-32.41	32.62	-7.59	629381.01	606493.82	32°40'01.096"N	104°02'49.996"W	0.47
5062.10	1.370	347.140	5061.77	-34.56	34.79	-8.45	629380.15	606495.99	32°40'01.118"N	104°02'50.006"W	0.57
5188.70	1.500	357.210	5188.34	-37.68	37.93	-8.87	629379.73	606499.12	32°40'01.149"N	104°02'50.011"W	0.22
5315.40	1.450	346.080	5314.99	-40.88	41.14	-9.33	629379.27	606502.33	32°40'01.181"N	104°02'50.016"W	0.23
5442.00	1.420	309.140	5441.56	-43.38	43.68	-10.94	629377.66	606504.88	32°40'01.206"N	104°02'50.035"W	0.72
5568.60	1.600	307.170	5568.11	-45.37	45.74	-13.56	629375.04	606506.94	32°40'01.226"N	104°02'50.065"W	0.15
5695.20	2.040	294.190	5694.65	-47.27	47.73	-17.03	629371.58	606508.93	32°40'01.246"N	104°02'50.106"W	0.47
5821.80	2.380	308.780	5821.16	-49.74	50.30	-21.13	629367.47	606511.50	32°40'01.272"N	104°02'50.154"W	0.52
5948.50	2.760	291.960	5947.73	-52.40	53.09	-26.01	629362.59	606514.29	32°40'01.299"N	104°02'50.211"W	0.66
6075.10	2.690	309.340	6074.19	-55.29	56.11	-31.13	629357.47	606517.31	32°40'01.329"N	104°02'50.271"W	0.65
6201.70	2.650	285.620	6200.66	-57.83	58.78	-36.25	629352.35	606519.98	32°40'01.356"N	104°02'50.330"W	0.87
6328.30	1.820	283.760	6327.16	-58.97	60.05	-41.02	629347.58	606521.25	32°40'01.369"N	104°02'50.386"W	0.66
6454.90	1.190	268.940	6453.71	-59.34	60.50	-44.29	629344.31	606521.70	32°40'01.373"N	104°02'50.424"W	0.58
6581.60	0.730	230.010	6580.40	-58.74	59.96	-46.22	629342.38	606521.16	32°40'01.368"N	104°02'50.447"W	0.61
6708.20	0.760	241.220	6706.99	-57.79	59.04	-47.58	629341.03	606520.23	32°40'01.359"N	104°02'50.463"W	0.12
6834.80	1.170	181.650	6833.57	-56.07	57.34	-48.35	629340.25	606518.54	32°40'01.342"N	104°02'50.472"W	0.81
6961.40	1.560	186.280	6960.13	-53.06	54.34	-48.58	629340.03	606515.53	32°40'01.312"N	104°02'50.475"W	0.32
7088.00	1.090	165.930	7086.70	-50.18	51.46	-48.47	629340.13	606512.65	32°40'01.284"N	104°02'50.473"W	0.52
7214.70	1.940	163.120	7213.36	-46.99	48.24	-47.56	629341.05	606509.43	32°40'01.252"N	104°02'50.463"W	0.67
7341.30	2.160	198.380	7339.88	-42.67	43.92	-47.69	629340.92	606505.12	32°40'01.209"N	104°02'50.465"W	0.99
7467.90	1.990	179.080	7466.40	-38.19	39.46	-48.40	629340.20	606500.66	32°40'01.165"N	104°02'50.473"W	0.57



Actual Wellpath Report

No. 3H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(State) Sec 14, T19S, R29E	Wellbore	No. 3H AWB
Facility	State 14 Com No. 3H	Sidetrack from	No. 3 AWB at 7768.30 MD

WELLPATH DATA (147 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
7594.50	2.330	204.140	7592.91	-33.62	34.91	-49.42	629339.18	606496.11	32°40'01.120"N	104°02'50.485"W	0.79
7721.10	3.350	167.170	7719.36	-27.66	28.96	-49.65	629338.95	606490.15	32°40'01.061"N	104°02'50.488"W	1.61
7781.00	3.800	162.900	7779.15	-24.08	25.35	-48.68	629339.93	606486.55	32°40'01.025"N	104°02'50.477"W	0.87
7812.00	6.200	166.600	7810.03	-21.49	22.74	-47.99	629340.62	606483.94	32°40'01.000"N	104°02'50.469"W	7.81
7844.00	13.600	171.100	7841.53	-16.11	17.34	-47.00	629341.60	606478.54	32°40'00.946"N	104°02'50.457"W	23.23
7875.00	22.000	175.500	7871.02	-6.74	7.93	-45.98	629342.62	606469.13	32°40'00.853"N	104°02'50.446"W	27.42
7906.00	27.900	178.900	7899.12	6.30	-5.12	-45.39	629343.22	606456.08	32°40'00.724"N	104°02'50.439"W	19.58
7938.00	35.600	177.900	7926.31	23.10	-21.94	-44.90	629343.70	606439.26	32°40'00.557"N	104°02'50.434"W	24.12
7970.00	42.800	180.800	7951.09	43.29	-42.15	-44.71	629343.89	606419.06	32°40'00.357"N	104°02'50.432"W	23.21
8001.00	51.200	182.400	7972.21	65.94	-64.79	-45.37	629343.24	606396.42	32°40'00.133"N	104°02'50.441"W	27.36
8033.00	59.400	183.400	7990.42	92.22	-91.04	-46.71	629341.90	606370.17	32°39'59.874"N	104°02'50.457"W	25.75
8065.00	68.700	184.000	8004.40	120.94	-119.72	-48.57	629340.04	606341.49	32°39'59.590"N	104°02'50.480"W	29.11
8096.00	76.600	185.000	8013.64	150.46	-149.19	-50.89	629337.71	606312.02	32°39'59.298"N	104°02'50.508"W	25.67
8128.00	85.300	184.500	8018.67	181.98	-180.66	-53.51	629335.10	606280.56	32°39'58.987"N	104°02'50.540"W	27.23
8159.00	83.700	185.800	8021.64	212.78	-211.39	-56.28	629332.33	606249.83	32°39'58.683"N	104°02'50.573"W	6.64
8191.00	83.600	185.900	8025.18	244.49	-243.03	-59.52	629329.09	606218.19	32°39'58.370"N	104°02'50.612"W	0.44
8223.00	84.000	185.800	8028.64	276.21	-274.67	-62.76	629325.85	606186.55	32°39'58.057"N	104°02'50.651"W	1.29
8255.00	84.900	185.300	8031.73	307.98	-306.37	-65.84	629322.77	606154.85	32°39'57.744"N	104°02'50.688"W	3.21
8286.00	85.700	184.400	8034.27	338.82	-337.16	-68.45	629320.15	606124.07	32°39'57.439"N	104°02'50.719"W	3.88
8318.00	87.400	184.000	8036.20	370.72	-369.01	-70.79	629317.81	606092.22	32°39'57.124"N	104°02'50.748"W	5.46
8350.00	88.100	182.700	8037.45	402.68	-400.93	-72.66	629315.95	606060.30	32°39'56.808"N	104°02'50.771"W	4.61
8413.00	90.600	182.300	8038.17	465.66	-463.86	-75.41	629313.20	605997.38	32°39'56.186"N	104°02'50.805"W	4.02
8476.00	90.500	182.200	8037.56	528.65	-526.81	-77.88	629310.73	605934.43	32°39'55.563"N	104°02'50.836"W	0.22
8540.00	90.300	181.800	8037.12	592.65	-590.77	-80.11	629308.49	605870.48	32°39'54.930"N	104°02'50.864"W	0.70
8603.00	90.200	181.800	8036.84	655.65	-653.74	-82.09	629306.51	605807.52	32°39'54.307"N	104°02'50.889"W	0.16
8667.00	90.200	181.300	8036.62	719.65	-717.72	-83.82	629304.78	605743.54	32°39'53.674"N	104°02'50.911"W	0.78
8730.00	88.700	179.900	8037.22	782.63	-780.71	-84.48	629304.12	605680.56	32°39'53.051"N	104°02'50.921"W	3.26
8794.00	88.000	179.400	8039.07	846.57	-844.68	-84.09	629304.51	605616.59	32°39'52.418"N	104°02'50.918"W	1.34
8857.00	88.100	178.300	8041.21	909.47	-907.63	-82.83	629305.78	605553.65	32°39'51.795"N	104°02'50.906"W	1.75
8920.00	88.700	177.800	8042.97	972.33	-970.57	-80.69	629307.92	605490.72	32°39'51.172"N	104°02'50.883"W	1.24



Actual Wellpath Report

No. 3H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(State) Sec 14, T19S, R29E	Wellbore	No. 3H AWB
Facility	State 14 Com No. 3H	Sidetrack from	No. 3 AWB at 7768.30 MD

WELLPATH DATA (147 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
8984.00	89.000	177.000	8044.25	1036.15	-1034.49	-77.78	629310.82	605426.80	32°39'50.540"N	104°02'50.851"W	1.33
9047.00	89.500	176.400	8045.08	1098.93	-1097.38	-74.16	629314.45	605363.92	32°39'49.917"N	104°02'50.810"W	1.24
9111.00	89.500	176.900	8045.64	1162.70	-1161.26	-70.42	629318.19	605300.03	32°39'49.285"N	104°02'50.768"W	0.78
9174.00	89.800	176.400	8046.02	1225.47	-1224.16	-66.74	629321.87	605237.15	32°39'48.663"N	104°02'50.727"W	0.93
9237.00	89.000	177.300	8046.68	1288.26	-1287.05	-63.22	629325.39	605174.26	32°39'48.040"N	104°02'50.688"W	1.80
9300.00	87.800	177.600	8048.44	1351.07	-1349.96	-60.36	629328.24	605111.35	32°39'47.418"N	104°02'50.657"W	2.01
9364.00	88.000	177.200	8050.79	1414.87	-1413.85	-57.46	629331.14	605047.47	32°39'46.786"N	104°02'50.625"W	0.70
9427.00	88.100	176.400	8052.93	1477.62	-1476.72	-53.95	629334.66	604984.61	32°39'46.163"N	104°02'50.586"W	1.28
9491.00	87.600	177.800	8055.33	1541.39	-1540.59	-50.71	629337.89	604920.74	32°39'45.531"N	104°02'50.550"W	2.32
9554.00	87.600	177.200	8057.97	1604.18	-1603.47	-47.97	629340.64	604857.86	32°39'44.909"N	104°02'50.520"W	0.95
9618.00	88.300	177.300	8060.26	1667.96	-1667.36	-44.90	629343.71	604793.98	32°39'44.277"N	104°02'50.486"W	1.10
9681.00	88.700	177.300	8061.91	1730.77	-1730.27	-41.93	629346.67	604731.08	32°39'43.654"N	104°02'50.453"W	0.63
9744.00	87.800	177.900	8063.83	1793.60	-1793.18	-39.29	629349.31	604668.17	32°39'43.032"N	104°02'50.424"W	1.72
9806.00	88.500	178.900	8065.94	1855.47	-1855.12	-37.56	629351.04	604606.24	32°39'42.419"N	104°02'50.406"W	1.80
9870.00	88.700	178.800	8067.62	1919.38	-1919.09	-36.28	629352.32	604542.28	32°39'41.786"N	104°02'50.393"W	0.64
9933.00	90.200	179.400	8068.22	1982.32	-1982.07	-35.29	629353.31	604479.29	32°39'41.163"N	104°02'50.383"W	2.56
9997.00	90.500	179.400	8067.83	2046.28	-2046.07	-34.62	629353.98	604415.30	32°39'40.530"N	104°02'50.378"W	0.47
10060.00	90.800	179.300	8067.11	2109.23	-2109.06	-33.91	629354.70	604352.32	32°39'39.906"N	104°02'50.371"W	0.50
10123.00	90.800	178.800	8066.24	2172.17	-2172.04	-32.86	629355.74	604289.34	32°39'39.283"N	104°02'50.361"W	0.79
10186.00	91.000	178.000	8065.25	2235.07	-2235.01	-31.10	629357.50	604226.38	32°39'38.660"N	104°02'50.342"W	1.31
10250.00	91.300	177.900	8063.96	2298.93	-2298.96	-28.81	629359.79	604162.44	32°39'38.027"N	104°02'50.318"W	0.49
10313.00	90.300	178.500	8063.08	2361.82	-2361.92	-26.83	629361.77	604099.48	32°39'37.404"N	104°02'50.296"W	1.85
10376.00	90.000	177.500	8062.92	2424.70	-2424.88	-24.64	629363.97	604036.52	32°39'36.781"N	104°02'50.273"W	1.66
10440.00	88.700	177.800	8063.64	2488.56	-2488.82	-22.01	629366.59	603972.59	32°39'36.148"N	104°02'50.244"W	2.08
10503.00	88.800	177.300	8065.02	2551.39	-2551.75	-19.32	629369.28	603909.67	32°39'35.526"N	104°02'50.215"W	0.81
10566.00	88.000	181.300	8066.78	2614.31	-2614.71	-18.55	629370.05	603846.71	32°39'34.903"N	104°02'50.208"W	6.47
10630.00	87.700	182.100	8069.18	2678.26	-2678.63	-20.45	629368.15	603782.79	32°39'34.270"N	104°02'50.232"W	1.33
10693.00	88.000	181.400	8071.54	2741.22	-2741.56	-22.37	629366.23	603719.87	32°39'33.648"N	104°02'50.256"W	1.21
10757.00	87.900	181.500	8073.83	2805.18	-2805.50	-23.99	629364.61	603655.94	32°39'33.015"N	104°02'50.277"W	0.22
10820.00	88.200	181.500	8075.97	2868.14	-2868.44	-25.64	629362.97	603593.00	32°39'32.392"N	104°02'50.298"W	0.48



Actual Wellpath Report

No. 3H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(State) Sec 14, T19S, R29E	Wellbore	No. 3H AWB
Facility	State 14 Com No. 3H	Sidetrack from	No. 3 AWB at 7768.30 MD

WELLPATH DATA (147 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
10883.00	88.400	180.600	8077.84	2931.11	-2931.40	-26.79	629361.81	603530.05	32°39'31.769"N	104°02'50.314"W	1.46
10947.00	88.100	181.700	8079.80	2995.08	-2995.35	-28.07	629360.53	603466.10	32°39'31.137"N	104°02'50.331"W	1.78
11010.00	88.000	181.900	8081.94	3058.04	-3058.29	-30.05	629358.55	603403.17	32°39'30.514"N	104°02'50.356"W	0.35
11073.00	88.200	181.200	8084.03	3121.00	-3121.23	-31.75	629356.85	603340.23	32°39'29.891"N	104°02'50.378"W	1.15
11137.00	88.300	181.200	8085.98	3184.97	-3185.19	-33.09	629355.51	603276.28	32°39'29.259"N	104°02'50.396"W	0.16
11200.00	88.500	180.900	8087.74	3247.95	-3248.15	-34.25	629354.35	603213.32	32°39'28.636"N	104°02'50.411"W	0.57
11264.00	88.800	181.200	8089.25	3311.93	-3312.12	-35.42	629353.18	603149.36	32°39'28.003"N	104°02'50.427"W	0.66
11327.00	88.500	181.100	8090.74	3374.91	-3375.09	-36.68	629351.92	603086.39	32°39'27.380"N	104°02'50.444"W	0.50
11391.00	88.200	180.700	8092.58	3438.88	-3439.06	-37.69	629350.91	603022.43	32°39'26.747"N	104°02'50.457"W	0.78
11454.00	89.000	181.400	8094.12	3501.86	-3502.03	-38.84	629349.76	602959.47	32°39'26.124"N	104°02'50.473"W	1.69
11517.00	89.200	181.500	8095.11	3564.85	-3565.00	-40.44	629348.17	602896.50	32°39'25.501"N	104°02'50.493"W	0.35
11580.00	89.100	181.000	8096.04	3627.84	-3627.98	-41.81	629346.79	602833.53	32°39'24.878"N	104°02'50.512"W	0.81
11644.00	89.200	180.800	8096.99	3691.83	-3691.96	-42.82	629345.79	602769.55	32°39'24.245"N	104°02'50.525"W	0.35
11707.00	89.100	180.500	8097.93	3754.82	-3754.95	-43.53	629345.07	602706.57	32°39'23.621"N	104°02'50.536"W	0.50
11771.00	89.600	180.600	8098.65	3818.80	-3818.94	-44.15	629344.46	602642.58	32°39'22.988"N	104°02'50.545"W	0.80
11834.00	91.400	182.000	8098.10	3881.80	-3881.92	-45.58	629343.03	602579.61	32°39'22.365"N	104°02'50.564"W	3.62
11898.00	91.400	181.700	8096.54	3945.78	-3945.87	-47.64	629340.96	602515.66	32°39'21.732"N	104°02'50.590"W	0.47
11961.00	90.800	180.500	8095.33	4008.76	-4008.84	-48.85	629339.75	602452.69	32°39'21.109"N	104°02'50.606"W	2.13
12024.00	91.200	180.200	8094.23	4071.74	-4071.83	-49.23	629339.37	602389.71	32°39'20.486"N	104°02'50.612"W	0.79
12087.00	90.400	181.300	8093.35	4134.73	-4134.82	-50.06	629338.54	602326.73	32°39'19.863"N	104°02'50.624"W	2.16
12151.00	90.300	180.600	8092.96	4198.72	-4198.81	-51.12	629337.48	602262.74	32°39'19.230"N	104°02'50.638"W	1.10
12214.00	90.000	181.800	8092.79	4261.72	-4261.79	-52.44	629336.16	602199.76	32°39'18.607"N	104°02'50.656"W	1.96
12278.00	89.400	181.900	8093.13	4325.72	-4325.76	-54.51	629334.10	602135.80	32°39'17.974"N	104°02'50.682"W	0.95
12341.00	89.800	181.000	8093.57	4388.72	-4388.74	-56.10	629332.50	602072.83	32°39'17.351"N	104°02'50.703"W	1.56
12404.00	90.100	180.800	8093.62	4451.71	-4451.73	-57.09	629331.52	602009.85	32°39'16.728"N	104°02'50.716"W	0.57
12461.00	90.200	180.600	8093.48	4508.71	-4508.72	-57.79	629330.82	601952.85	32°39'16.164"N	104°02'50.726"W	0.39
12512.00	90.200	180.600	8093.30	4559.70	-4559.72	-58.32	629330.29	601901.86	32°39'15.659"N	104°02'50.734"W	0.00



Actual Wellpath Report

No. 3H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(State) Sec 14, T19S, R29E	Wellbore	No. 3H AWB
Facility	State 14 Com No. 3H	Sidetrack from	No. 3 AWB at 7768.30 MD

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 3H PBHL		8090.00	-4573.43	-118.55	629270.06	601888.15	32°39'15.525"N	104°02'51.439"W	point

WELLPATH COMPOSITION

Ref Wellbore: No. 3H AWB

Ref Wellpath: No. 3H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7721.10	Gyrodatta relative depth - Drop gyro or Multi-shot	GYRO <123.9 - 8101>	No. 3 AWB
7721.10	12461.00	NaviTrak (Standard)	MWD <7781 - 12461>	No. 3H AWB
12461.00	12512.00	Blind Drilling (std)	Projection to bit	No. 3H AWB

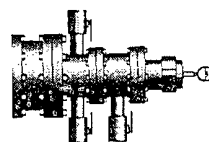


End of 7" 26# csg @ 7665'



SMP-X Packer bottom @ 7576'

Top of Gudgeon @ 7563'



Strata Port #15 w/ 3.656" ID @
8100' Shear press: 2051 psig Use
3.75" ball. Stage 15

Extreme Predator Packer #14
@ 8195'

Strata Port #14 w/ 3.531" ID @
8374' Shear press: 2051 psig Use
3.625" ball. Stage 14

Extreme Predator Packer #13
@ 8555'

Strata Port #13 w/ 3.406" ID @
8734' Shear press: 2051 psig Use
3.50" ball. Stage 13

Extreme Predator Packer #12
@ 8871'

Strata Port #12 w/ 3.281" ID @
8962' Shear press: 2051 psig Use
3.375" ball. Stage 12

Extreme Predator Packer #11
@ 9098'

Strata Port #11 w/ 3.156" ID @
9189' Shear press: 2051 psig Use
3.25" ball. Stage 11

Extreme Predator Packer #10
@ 9369'

Strata Port #10 w/ 3.031" ID @
9503' Shear press: 2051 psig Use
3.125" ball. Stage 10

Extreme Predator Packer #9 @
9640'

Strata Port #9 w/ 2.906" ID @
9818' Shear press: 2051 psig Use
3.00" ball. Stage 9

Extreme Predator Packer #8 @
9956'

Strata Port #8 w/ 2.781" ID @
10090' Shear press: 2051 psig Use
2.875" ball. Stage 8

Extreme Predator Packer #7 @
10269'

Strata Port #7 w/ 2.656" ID @
10404' Shear press: 2051 psig Use
2.75" ball. Stage 7

Extreme Predator Packer #6 @
10542'

Strata Port #6 w/ 2.531" ID @
10720' Shear press: 2051 psig Use
2.625" ball. Stage 6

Extreme Predator Packer #5 @
10858'

Strata Port #5 w/ 2.406" ID @

State 14 Com 3H

WELL NAME	State 14 Com 3H	DATE	6/9/10
SUPERVISOR	Gary Hutchings	TOOL HAND	RC
PHONE #	432-208-3080	PHONE #	432-425-0888
RIG #	Key #881	FIELD TICKET #	7248

ELEVATIONS

	GL ELEV	KB ELEV	RIG KBD	TVD
	X	0	0	8093.00
CASING / OPEN HOLE LAYOUT	OD (IN)	LANDED DEPTH	WEIGHT (LB/FT)	TOP OF (FTKB)
CASING DESCRIPTION	7.00	7685.00	26	0
WINDOW DESCRIPTION	6 1/8			7,800.00
OPEN HOLE DESCRIPTION	6 1/8	12512.00	JUNCTION @	7685.00

DESCRIPTION

Top of curve: 7800', end of curve: 8130' (8038' tvd), TD: 12512'(8093'tvd).
Set packers w/ xxx Pumping Services.

Cimarex 15 Stage Liner Placement Schematic

DOWNHOLE DESCRIPTION FROM BOTTOM UP

BOTTOM @	DESCRIPTION	LENGTH	ID	OD
12304.00	Peak 3-1/2" eue Pump-Out Sub w/ float 3" id when opened	0.83	0.903	4.530
12303.17	Swedge w/ 3-1/2" eue pin x 4-1/2" LTC collar	1.17	2.990	5.030
12302.00	2 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 1-2	85.18	4.000	4.500
12216.82	4-1/2" LTC pin x 4-1/2" LTC collar 11.6# P-110 pup jt.	2.10	4.000	4.500
12214.72	Peak Rot. Centralizer 4-1/2" LTC pin x collar	0.63	3.995	5.940
12214.09	Peak HydroPak Anchor SS 4-1/2" LTC box x pin 2	3.72	3.992	5.880
12210.37	4-1/2" LTC collar x 4-1/2" LTC pin 11.6# P-110 pup jt.	6.68	4.000	4.500
12203.69	2 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 3-4	85.50	4.000	4.500
12118.19	4-1/2" LTC pin x 4-1/2" LTC collar 11.6# P-110 pup jt.	2.15	4.000	4.500
12116.04	Peak Rot. Centralizer 4-1/2" LTC pin x collar	0.63	3.995	5.880
12115.41	Peak Extreme Predator Packer 4-1/2" LTC pin x pin 3	3.48	3.996	5.700
12111.93	4-1/2" LTC collar x 4-1/2" LTC collar 11.6# P-110 pup jt.	6.68	4.000	4.500
12105.25	4 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 5-8	170.63	4.000	4.500
11934.62	Strata-Port III Ball Activated Frac Sleeve 2.0313" id 4	3.55	2.031	5.875
11931.07	3 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 9-11	127.28	4.000	4.500
11803.79	4-1/2" LTC pin x 4-1/2" LTC collar 11.6# P-110 pup jt.	2.12	4.000	4.500
11801.67	Peak Rot. Centralizer 4-1/2" LTC pin x collar	0.63	3.995	5.940
11801.04	Peak Extreme Predator Packer 4-1/2" LTC pin x pin 5	3.48	3.996	5.690
11797.56	4-1/2" LTC collar x 4-1/2" LTC collar 11.6# P-110 pup jt.	6.69	4.000	4.500
11790.87	4 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 12-15	172.48	4.000	4.500
11618.39	Strata-Port III Ball Activated Frac Sleeve 2.1563" id 6	3.55	2.156	5.875
11614.84	4 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 16-19	169.61	4.000	4.500
11445.23	4-1/2" LTC pin x 4-1/2" LTC collar 11.6# P-110 pup jt.	2.12	4.000	4.500
11443.11	Peak Rot. Centralizer 4-1/2" LTC pin x collar	0.63	3.995	5.940
11442.48	Peak Extreme Predator Packer 4-1/2" LTC pin x pin 7	3.48	3.996	5.690
11439.00	4-1/2" LTC collar x 4-1/2" LTC collar 11.6# P-110 pup jt.	6.69	4.000	4.500
11432.31	3 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 20-22	127.48	4.000	4.500
11304.83	Strata-Port III Ball Activated Frac Sleeve 2.2813" id 8	3.55	2.281	5.875
11301.28	3 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 23-25	127.01	4.000	4.500
11174.27	4-1/2" LTC pin x 4-1/2" LTC collar 11.6# P-110 pup jt.	2.17	4.000	4.500
11172.10	Peak Rot. Centralizer 4-1/2" LTC pin x collar	0.63	3.995	5.940
11171.47	Peak Extreme Predator Packer 4-1/2" LTC pin x pin 9	3.48	3.996	5.690
11167.99	4-1/2" LTC collar x 4-1/2" LTC collar 11.6# P-110 pup jt.	6.68	4.000	4.500
11161.31	4 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 26-29	170.36	4.000	4.500
10990.95	Strata-Port III Ball Activated Frac Sleeve 2.4063" id 10	3.55	2.406	5.875
10987.40	3 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 30-32	126.72	4.000	4.500
10860.68	4-1/2" LTC pin x 4-1/2" LTC collar 11.6# P-110 pup jt.	2.15	4.000	4.500
10858.53	Peak Rot. Centralizer 4-1/2" LTC pin x collar	0.63	3.995	5.940
10857.90	Peak Extreme Predator Packer 4-1/2" LTC pin x pin 11	3.48	3.996	5.690
10854.42	4-1/2" LTC collar x 4-1/2" LTC collar 11.6# P-110 pup jt.	6.68	4.000	4.500
10847.74	3 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 33-35	127.13	4.000	4.500
10720.61	Strata-Port III Ball Activated Frac Sleeve 2.5313" id 12	3.55	2.531	5.875
10717.06	4 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 36-39	171.82	4.000	4.500
10545.24	4-1/2" LTC pin x 4-1/2" LTC collar 11.6# P-110 pup jt.	2.12	4.000	4.500
10543.12	Peak Rot. Centralizer 4-1/2" LTC pin x collar	0.63	3.995	5.940
10542.49	Peak Extreme Predator Packer 4-1/2" LTC pin x pin 13	3.48	3.996	5.690
10539.01	4-1/2" LTC collar x 4-1/2" LTC collar 11.6# P-110 pup jt.	6.68	4.000	4.500
10532.33	3 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 40-42	128.01	4.000	4.500
10404.32	Strata-Port III Ball Activated Frac Sleeve 2.6563" id 14	3.55	2.656	5.875
10400.77	3 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 43-45	128.81	4.000	4.500
10271.96	4-1/2" LTC pin x 4-1/2" LTC collar 11.6# P-110 pup jt.	2.10	4.000	4.500
10269.86	Peak Rot. Centralizer 4-1/2" LTC pin x collar	0.63	3.995	5.940
10269.23	Peak Extreme Predator Packer 4-1/2" LTC pin x pin 15	3.48	3.996	5.690
10265.75	4-1/2" LTC collar x 4-1/2" LTC collar 11.6# P-110 pup jt.	6.64	4.000	4.500
10259.11	4 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 46-49	169.37	4.000	4.500
10089.74	Strata-Port III Ball Activated Frac Sleeve 2.7813" id 16	3.55	2.781	5.875
10086.19	3 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 50-52	127.81	4.000	4.500
9958.38	4-1/2" LTC pin x 4-1/2" LTC collar 11.6# P-110 pup jt.	2.08	4.000	4.500
9956.30	Peak Rot. Centralizer 4-1/2" LTC pin x collar	0.63	3.995	5.940
9955.67	Peak Extreme Predator Packer 4-1/2" LTC pin x pin 17	3.48	3.996	5.690
9952.19	4-1/2" LTC collar x 4-1/2" LTC collar 11.6# P-110 pup jt.	6.65	4.000	4.500
9945.54	3 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 53-55	127.25	4.000	4.500
9818.29	Strata-Port III Ball Activated Frac Sleeve 2.9063" id 18	3.55	2.906	5.875
9814.74	4 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 56-59	171.77	4.000	4.500
9642.97	4-1/2" LTC pin x 4-1/2" LTC collar 11.6# P-110 pup jt.	2.08	4.000	4.500
9640.89	Peak Rot. Centralizer 4-1/2" LTC pin x collar	0.63	3.995	5.940
9640.26	Peak Extreme Predator Packer 4-1/2" LTC pin x pin 19	3.48	3.996	5.690
9636.78	4-1/2" LTC collar x 4-1/2" LTC collar 11.6# P-110 pup jt.	6.66	4.000	4.500
9630.12	3 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 60-62	127.62	4.000	4.500
9502.50	Strata-Port III Ball Activated Frac Sleeve 3.0313" id 20	3.55	3.031	5.875
9498.95	3 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 63-65	127.27	4.000	4.500
9371.68	4-1/2" LTC pin x 4-1/2" LTC collar 11.6# P-110 pup jt.	2.08	4.000	4.500
9369.60	Peak Rot. Centralizer 4-1/2" LTC pin x collar	0.66	3.995	5.940
9368.94	Peak Extreme Predator Packer 4-1/2" LTC pin x pin 21	3.48	3.996	5.690
9365.46	4-1/2" LTC collar x 4-1/2" LTC collar 11.6# P-110 pup jt.	6.66	4.000	4.500
9358.80	4 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 66-69	169.93	4.000	4.500
9188.87	Strata-Port III Ball Activated Frac Sleeve 3.1563" id 22	3.55	3.156	5.875
9185.32	2 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 70-71	84.42	4.000	4.500

Strata Port #3 w/ 2.400" ID @
10991' Shear press: 2051 psig
Use 2.50" ball. Stage 5

Extreme Predator Packer #4 @
11171'

Strata Port #4 w/ 2.281" ID @
11305' Shear press: 2051 psig
Use 2.375" ball. Stage 4

Extreme Predator Packer #3 @
11442'

Strata Port #3 w/ 2.156" ID @
11618' Shear press: 1765 psig
Use 2.25" ball Stage 3

Extreme Predator Packer #2 @
11801'

Strata Port #2 w/ 2.031" ID @
11935' Shear press: 2051 psig
Use 2.125" ball Stage 2

Extreme Predator Packer #1 @
12115'

Peak Hydro Pak SS Anchor @
12214'

Pump-out Sub @ 12304' Shear
Press: 4576 psig Stage #1

Total drilled depth @ 12512'



9100.90	4-1/2" LTC pin x 4-1/2" LTC collar 11.6# P-110 pup jt.	2.05	4.000	4.500
9098.85	Peak Rot. Centralizer 4-1/2" LTC pin x collar	0.63	4.000	4.500
9098.22	Peak Extreme Predator Packer 4-1/2" LTC pin x pin 23	3.50	4.000	4.500
9094.72	4-1/2" LTC collar x 4-1/2" LTC collar 11.6# P-110 pup jt.	6.66	4.000	4.500
9088.06	3 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 72-74	125.82	3.996	6.000
8962.24	Strata-Port III Ball Activated Frac Sleeve 3.2813" id 24	3.55	3.281	5.875
8958.69	2 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 75-76	85.22	4.000	5.375
8873.47	4-1/2" LTC pin x 4-1/2" LTC collar 11.6# P-110 pup jt.	2.08	4.000	4.500
8871.39	Peak Rot. Centralizer 4-1/2" LTC pin x collar	0.63	4.000	5.940
8870.76	Peak Extreme Predator Packer 4-1/2" LTC pin x pin 25	3.50	3.995	5.690
8867.26	4-1/2" LTC collar x 4-1/2" LTC collar 11.6# P-110 pup jt.	6.63	3.996	4.500
8860.63	3 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 77-79	127.04	4.000	3.500
8733.59	Strata-Port III Ball Activated Frac Sleeve 3.4063" id 26	3.55	3.406	5.875
8730.04	4 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 80-83	171.82	4.000	4.500
8558.22	4-1/2" LTC pin x 4-1/2" LTC collar 11.6# P-110 pup jt.	2.10	4.000	4.500
8556.12	Peak Rot. Centralizer 4-1/2" LTC pin x collar	0.67	4.000	5.940
8555.45	Peak Extreme Predator Packer 4-1/2" LTC pin x pin 27	3.50	3.995	5.690
8551.95	4-1/2" LTC collar x 4-1/2" LTC collar 11.6# P-110 pup jt.	6.69	3.996	4.500
8545.26	4 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 84-87	171.07	4.000	4.500
8374.19	Strata-Port III Ball Activated Frac Sleeve 3.5313" id 28	3.55	3.531	5.875
8370.64	4 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 88-91	172.21	4.000	4.500
8198.43	4-1/2" LTC pin x 4-1/2" LTC collar 11.6# P-110 pup jt.	2.09	4.000	4.500
8196.34	Peak Rot. Centralizer 4-1/2" LTC pin x collar	0.67	4.000	5.940
8195.67	Peak Extreme Predator Packer 4-1/2" LTC pin x pin 29	3.50	3.995	5.690
8192.17	4-1/2" LTC collar x 4-1/2" LTC collar 11.6# P-110 pup jt.	6.67	3.996	4.500
8185.50	2 Jts 4-1/2" LTC 11.6# P-110 Casing Jt# 92-93	85.55	4.000	4.500
8099.95	Strata-Port III Ball Activated Frac Sleeve 3.6563" id 30	3.55	3.656	5.875
8096.40	4-1/2" LTC Pin X 4-1/2" BTC Box change-over jt.	37.21	4.000	4.500
8059.19	11 Jts 4-1/2" BTC 11.6# P-110 Casing Jt# 103-113	479.23	4.000	4.500
7579.96	4-1/2" BTC Pin X 4-1/2" LTC Box x-over	2.05	4.000	4.500
7577.91	4-1/2" LTC pin x 4-1/2" LTC collar pup jt.	2.10	4.500	4.500
7575.81	Mono-Pak Packer 4-1/2" LTC pin x collar lower element	2.20	4.000	5.700
7573.61	SMP-X Hydr. Set Hanger Packer 4-1/2" LTC pin x pin 31	6.55	4.000	6.000
7567.06	Running Adapter 4-1/2" LTC collar x box	3.24	4.000	5.400
7563.82	3-pin Full Bore Gudgeon 4-1/2" LTC pin	2.51	4.000	4.500
7561.31	Settling Mandrel top sub 3-1/2" IF box *	0.82	2.375	5.000
7560.49	3-1/2" IF Pup Joint *	7.64	2.188	3.500
7552.85	40 Jt's 4-3/4" Drill Collars*	1232.81	2.250	4.875
6320.04	200 Jt's 3-1/2" drill pipe to surface (100 std's)*	6333.21	2.764	3.500
-13.17	Stick-up	-13.17	0.000	0.000
0.00	* removed upon installation	0.00	0.000	0.000
0.00		0	0.00	0.000
0.00		0.00	0.000	0.000
0.00		270.47	0.00	0.000
String Weight Up		195k	Push-Pull Check	
String Weight Down		95k		
String Weight Hanging		158k		

*** CONFIDENTIAL ***
Not To Be Disclosed Outside of Cimarex Energy Company

Submit To Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-105 Revised June 10, 2003 WELL API NO. 30-015-37719 5. Indicate Type of Lease STATE ☒ FEE ☐ State Oil & Gas Lease No.
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WELL COMPLETION OR RECOMPLETION REPORT AND LOG					
1a. Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER _____ b. Type of Completion: NEW ☒ WORK ☐ DEEPEN ☐ PLUG ☐ DIFF. WELL OVER BACK RESVR. ☐ OTHER			7. Lease Name or Unit Agreement Name State 14 Com		
2. Name of Operator Cimarex Energy Co. of Colorado			8. Well No. 003		
3. Address of Operator 600 N. Marienfeld St., Ste. 600; Midland, TX 79701			9. Pool name or Wildcat Turkey Track; Bone Spring		
4. Well Location SHL: Unit Letter <u>C</u> : <u>375</u> Feet From The <u>North</u> Line and <u>2120</u> Feet From The <u>West</u> Line Section <u>14</u> Township <u>19S</u> Range <u>29E</u> NMPM _____ County <u>Eddy</u>					
10. Date Spudded 05-12-10	11. Date T.D. Reached 06-09-10	12. Date Compl. (Ready to Prod.) 07-12-10	13. Elevations (DF& RKB, RT, GR, etc.) 3377 GR	14. Elev. Casinghead	
15. Total Depth MD 12526 TVD 8090	16. Plug Back T.D. MD 12526 TVD 8090	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary	18. Intervals Rotary Tools Rotary	
19. Producing Interval(s), of this completion - Top, Bottom, Name Bone Spring 7561-12526'				20. Was Directional Survey Made Yes	
21. Type Electric and Other Logs Run SDL- DLL- MGRD - CSNG - DSN-GR			22. Was Well Cored No		
23. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	450	17 1/2	540 sx	
9 5/8"	40	2508	12 1/4	715 sx	
7"	26	7685	8 3/4	1075 sx	
2 7/8"	2.18	7685-7977	8 3/4	PEAK, no cement	
24. LINER RECORD			25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE
4 1/2"	7561	8096			2 7/8
26. Perforation record (interval, size, and number) No Perfs			27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED Please see attachment		
28. PRODUCTION					
Date First Production 07-12-10		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) Pumping - Baker Hughes Centrilift 4" 171HP 473 Stage Sub-Pump			Well Status (<i>Prod. or Shut-in</i>) Producing
Date of Test 08-12-10	Hours Tested 24	Choke Size WO	Prod'n For Test Period	Oil - Bbl 245	Gas - MCF 956
Flow Tubing Press. 100	Casing Pressure 250	Calculated 24 Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl. 283
					Gas - Oil Ratio 3902
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) Sold					Test Witnessed By
30. List Attachments C-102, PEAK diagram					
31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.					
Signature <u>Natalie Krueger</u>		Printed Name <u>Natalie Krueger</u>		Title <u>Regulatory</u>	
E-mail Address <u>nkrueger@cimarex.com</u>				Date <u>9/17/2010</u>	

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Salt	T. TBSC 8090	T. Ojo Alamo	T. Penn. "B"
B. Salt	T. Abo	T. Kirtland-Fruitland	T. Penn. "C"
T. Tansill	T. Wolfcamp	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Wolfcamp B	T. Cliff House	T. Leadville
T. 7 Rivers	T. Cisco	T. Menefee	T. Madison
T. Queen	T. Canyon	T. Point Lookout	T. Elbert
T. Grayburg	T. Strawn	T. Mancos	T. McCracken
T. San Andres	T. Atoka	T. Gallup	T. Ignacio Otzte
T. Glorieta	T. Miss	B. Greenhorn	T. Granite
T. Paddock	T. Devonian	T. Dakota	T.
T. Blinébry	T. Silurian	T. Morrison	
T. Tubb	T. Montoya	T. Todilto	
T. Drinkard	T. Simpson	T. Entrada	
T. Delaware	T. McKee	T. Wingate	
T. Bone Spring	T. Brushy Canyon 3465	T. Chinle	
T. FBSS 7111	T. Gr. Wash	T. Permian	
T. SBSS 7797	T. Morrow	T. Penn "A"	

OIL OR GAS
SANDS OR ZONES

No. 1, from.....to.....

No. 3, from.....to.....

No. 2, from to

No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

C-105 – State 14 Com 3
Perforation & Stimulation Record
14-19S-29E; 375 FNL & 2120 FWL; Eddy County, NM

Perforation record (interval, size, and number)	ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	Depth	Description
	12115-12515	112,022g 20# XL Borate 103,033# 20/40 SB Excel
	11801-12515	89,138g 20# XL Borate 100,533# 20/40 SB Excel
	11442-11801	85,729g 20# XL Borate 88,084# 20/40 SB Excel
	11171-11442	96,587g 20# XL Borate 96,545# 20/40 SB Excel
	10858-11171	96,567g 20# XL Borate 101,948# 20/40 SB Excel
	10542-10858	95,348g 20# XL Borate 99,264# 20/40 SB Excel
	10269-10542	96,034g 20# XL Borate 84,093# 20/40 SB Excel
	9956-10269	87,134g 20# XL Borate 98,822# 20/40 SB Excel
	9640-9956	94,891g 20# XL Borate 95,680# 20/40 SB Excel
	9369-9640	106,346g 20# XL Borate 93,027# 20/40 SB Excel
	9098-9369	95,678g 20# XL Borate 92,752# 20/40 SB Excel
	8871-9098	107,934g 20# XL Borate 104,791# 20/40 SB Excel
	8555-8871	93,785g 20# XL Borate 107,163# 20/40 SB Excel
	8196-8555	85,087g 20# XL Borate 102,565# 20/40 SB Excel
	7576-8196	95,024g 20# XL Borate 117,563# 20/40 SB Excel