

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUL 13 2009
OCD-ARTESIA

FORM APPROVED
OMB No 1004-0135
Expires July 31, 1996

RW

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Cimarex Energy Co. of Colorado

3a. Address
5215 N. O'Connor Blvd., Ste. 1500; Irving, TX 75039

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL 1980 FNL & 660 FEL 7-16S-29E
BHL 1981 FNL & 534 FWL

3b. Phone No. (include area code)
972-401-3111

5. Lease Serial No.
NM-109643

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No
Pending

8. Well Name and No.
Drumstick 7 Federal Com No. 1

9. API Well No
30-015-36013

10. Field and Pool, or Exploratory Area
Ishee Lake; Abo

11. County or Parish, State
Eddy County, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Add second
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Abo lateral
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, included estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)
- Well currently producing from horizontal Abo 6698'-10056' MD via PEAK liner system w/ RSB packer @ 6615.' Cimarex proposes to perform the following operations in order to add a second Abo lateral.
- Used mud weight 9.4 ppq from APD.*
- TOOH w/ rods. Kill well. ND WH & NU 5K BOP. Set whipstock plug @ 6592' w/ 10' sand.
 - Mill window from 6570' to 6585.' Kick off 6 1/2" hole at 6580.' Land curve at 7123' MD 6973' TVD and drill to TD of 11090' MD and 6925' TVD.
 - Run 4 1/2" 11.6# P-110 BTC liner from RSB packer at 6480' MD to EOC 7123' MD 6973' TVD and LTC liner from 7123' MD to TD at 11090' MD. Liner will be PEAK completion assembly which will require no cement.
 - Fracture treat in several stages as needed through iso-ports separated by iso-packers.
 - Remove whipstock plug, RSB packer, and production tubing 5' into 2nd lateral after flush production stage is over and produce from dual laterals.
- Please see attached C-102 and preliminary directional plan.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Zeno Farris
Signature

Title
Manager Operations Administration
Date
June 3, 2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

APPROVED

JUN 30 2009

Date
[Signature]

WESLEY W. INGRAM
PETROLEUM ENGINEER

Conditions of Approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

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 30-015-36013	Pool Code 97627	Pool Name Ishee Lake; Abo
Property Code	Property Name DRUMSTICK "7" FEDERAL COM	Well Number 1
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3671'

Surface Location

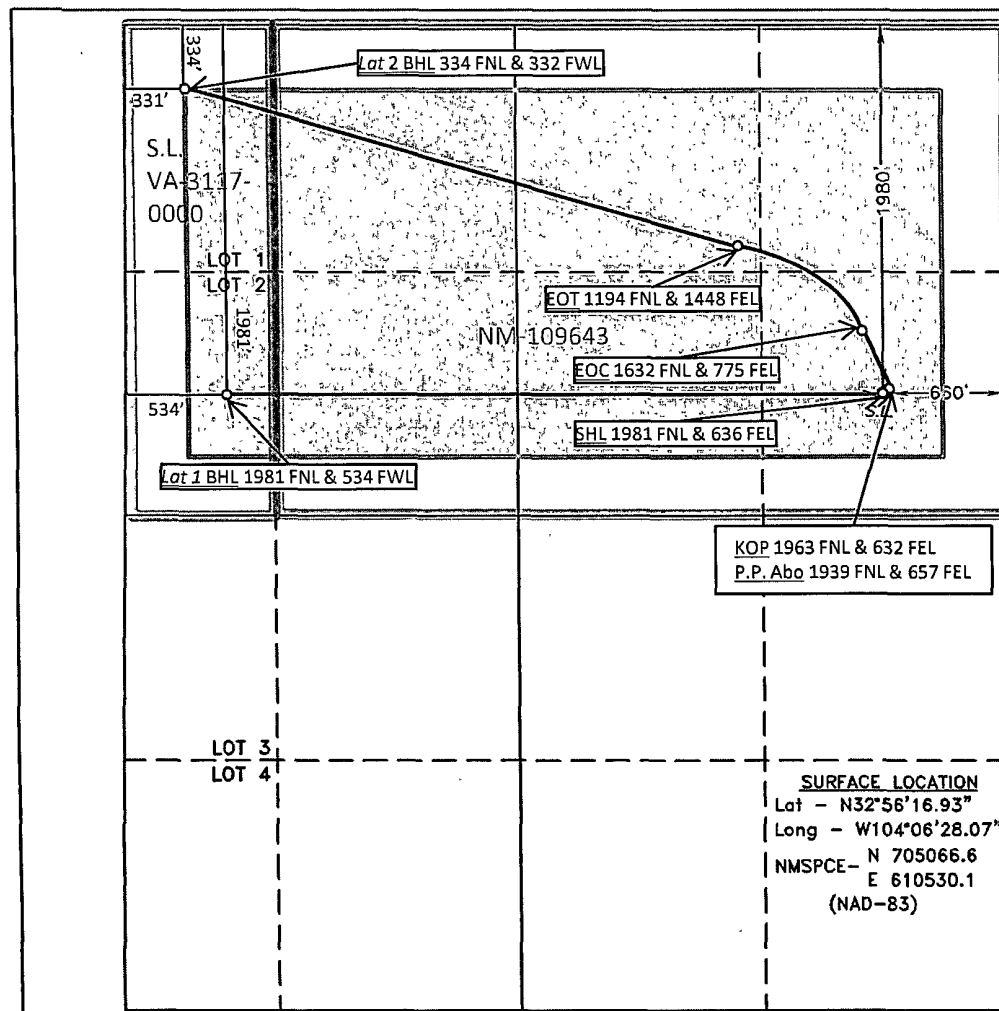
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	7	16 S	29 E		1980	NORTH	660	EAST	EDDY

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
Lot 1	7	16 S	29 E		334	NORTH	332	WEST	EDDY

Dedicated Acres 288.6	Joint or Infill	Consolidation Code C	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 6/3/2009
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.

OCTOBER 30, 2007

Date Surveyed L. Jones
Signature Gary L. Jones
Professional Surveyor

7977
Professional Surveyor

Certificate No. Gary L. Jones 7977

BASIN SURVEYS



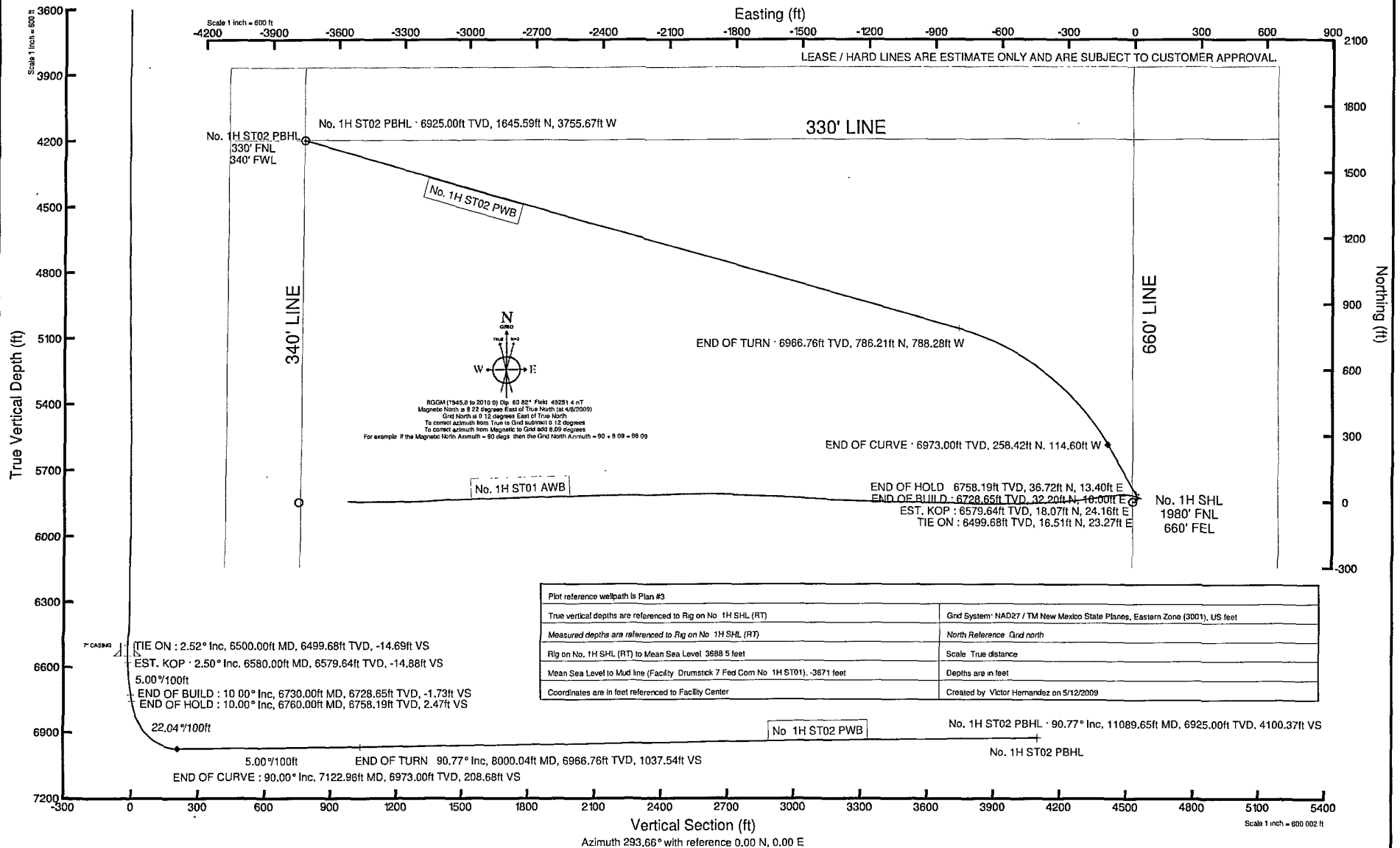
Cimarex Energy Co.

Location: Eddy County, NM
Field: (Drumstick DL) Sec 7, T16S, R29E
Facility: Drumstick 7 Fed Com No. 1H ST01

Slot: No. 1H SHL
Well: No. 1H ST02
Wellbore: No. 1H ST02 PWB

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
TIE ON	6500.00	2.520	88.197	6499.68	16.51	23.27	0.00	-14.69
EST. KOP	6580.00	2.500	330.000	6579.64	18.07	24.16	5.38	-14.88
END OF BUILD	6730.00	10.000	330.000	6728.65	32.20	16.00	5.00	-1.73
END OF HOLD	6760.00	10.000	330.000	6758.19	36.72	13.40	0.00	2.47
END OF CURVE	7122.96	90.000	330.000	6973.00	258.42	-114.60	22.04	208.68
END OF TURN	8000.04	90.775	286.152	6966.76	786.21	-788.28	5.00	1037.54
No. 1H ST02 PBHL	11089.65	90.775	286.152	6925.00	1645.59	-3755.67	0.00	4100.37





Planned Wellpath Report

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H ST02
Field	(Drumstick DL) Sec 7, T16S, R29E	Wellbore	No. 1H ST02 PWB
Facility	Drumstick 7 Fed Com No. 1H ST01	Sidetrack from	No. 1H ST01 AWB at 6500.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999915	Report Generated	5/12/2009 at 2:32:16 PM
Convergence at slot	0.12° East	Database/Source file	WA_Midland/No. 1H_ST02_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	569351.15	705002.81	32°56'16.523"N	104°06'26.227"W
Facility Reference Pt			569351.15	705002.81	32°56'16.523"N	104°06'26.227"W
Field Reference Pt			569351.15	705002.81	32°56'16.523"N	104°06'26.227"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 1H SHL (RT) to Facility Vertical Datum	17.50ft
Horizontal Reference Pt	Facility Center	Rig on No. 1H SHL (RT) to Mean Sea Level	3688.50ft
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	293.66°



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REFERENCE WELLPATH IDENTIFICATION

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Area	Eddy County, NM	Well	No. 1H ST02
Field	(Drumstick DL) Sec 7, T16S, R29E	Wellbore	No. 1H ST02 PWB
Facility	Drumstick 7 Fed Com No. 1H ST01	Sidetrack from	No. 1H ST01 AWB at 6500.00 MD

WELLPATH DATA (117 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00	0.000	110.257	0.00	0.00	0.00	0.00	0.00	
100.00	0.660	110.257	100.00	-0.57	-0.20	0.54	0.66	
200.00	0.640	99.597	199.99	-1.69	-0.49	1.63	0.12	
300.00	0.610	103.527	299.99	-2.76	-0.71	2.70	0.05	
400.00	0.510	107.617	399.98	-3.72	-0.97	3.64	-0.41	
500.00	0.460	92.597	499.98	-4.54	-1.12	4.47	0.14	
600.00	0.450	79.037	599.97	-5.24	-1.07	5.25	0.11	
700.00	0.420	83.857	699.97	-5.88	-0.95	6.00	0.05	
800.00	0.560	90.487	799.97	-6.65	-0.92	6.86	0.15	
900.00	0.530	79.977	899.96	-7.48	-0.84	7.80	-0.10	
1000.00	0.290	62.917	999.96	-8.03	-0.64	8.48	0.27	
1100.00	0.290	42.997	1099.96	-8.27	-0.34	8.88	0.10	
1200.00	0.200	63.027	1199.96	-8.46	-0.08	9.21	0.12	
1300.00	0.380	67.367	1299.96	-8.80	0.13	9.67	0.18	
1400.00	0.590	69.267	1399.95	-9.40	0.44	10.46	0.24	
1500.00	0.710	56.247	1499.95	-10.10	0.96	11.45	0.19	
1600.00	0.530	56.877	1599.94	-10.69	1.56	12.36	0.18	
1700.00	0.700	70.347	1699.94	-11.39	2.02	13.32	0.22	
1800.00	0.750	57.737	1799.93	-12.20	2.57	14.45	0.17	
1900.00	0.480	67.847	1899.92	-12.86	3.08	15.39	0.29	
2000.00	0.550	43.667	1999.92	-13.31	3.59	16.11	0.23	
2100.00	0.700	341.987	2099.91	-13.07	4.51	16.25	0.65	
2200.00	0.650	322.277	2199.91	-12.17	5.54	15.71	0.24	
2300.00	0.420	298.617	2299.90	-11.31	6.17	15.05	0.31	
2400.00	0.410	321.787	2399.90	-10.62	6.62	14.50	0.17	
2500.00	0.300	288.687	2499.90	-10.05	6.99	14.03	0.23	
2600.00	0.250	314.117	2599.90	-9.58	7.23	13.63	0.13	
2700.00	0.260	246.017	2699.90	-9.23	7.28	13.26	0.29	
2800.00	0.240	308.217	2799.89	-8.87	7.32	12.89	0.26	
2900.00	0.040	73.067	2899.89	-8.69	7.46	12.76	0.26	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
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Field	(Drumstick DL) Sec 7, T16S, R29E	Wellbore	No. 1H ST02 PWB
Facility	Drumstick 7 Fed Com No. 1H ST01	Sidetrack from	No. 1H ST01 AWB at 6500.00 MD

WELLPATH DATA (117 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
3000.00	0.120	329.747	2999.89	-8.64	7.56	12.74	0.13	
3100.00	0.310	31.437	3099.89	-8.59	7.88	12.83	0.27	
3200.00	0.120	18.647	3199.89	-8.61	8.21	13.00	0.19	
3300.00	0.380	344.987	3299.89	-8.40	8.63	12.95	0.29	
3400.00	0.190	6.407	3399.89	-8.14	9.12	12.88	0.21	
3500.00	0.820	74.107	3499.89	-8.64	9.48	13.59	0.77	
3600.00	0.840	81.997	3599.88	-9.82	9.78	15.01	0.12	
3700.00	0.840	66.637	3699.87	-10.94	10.17	16.40	0.22	
3800.00	0.650	55.207	3799.86	-11.74	10.78	17.54	0.24	
3900.00	0.540	75.077	3899.85	-12.41	11.23	18.46	0.23	
4000.00	0.550	48.787	3999.85	-12.98	11.67	19.28	0.25	
4100.00	0.160	22.557	4099.85	-13.18	12.11	19.70	0.41	
4200.00	0.400	16.527	4199.84	-13.13	12.58	19.85	0.24	
4300.00	0.090	341.927	4299.84	-13.04	12.99	19.92	0.33	
4400.00	0.370	324.207	4399.84	-12.71	13.32	19.71	0.29	
4500.00	0.100	313.497	4499.84	-12.35	13.64	19.46	0.27	
4600.00	0.370	296.937	4599.84	-11.94	13.85	19.11	0.28	
4700.00	0.130	258.957	4699.84	-11.53	13.97	18.71	0.28	
4800.00	0.460	263.577	4799.84	-11.09	13.91	18.20	0.33	
4900.00	0.440	293.177	4899.83	-10.35	14.01	17.45	0.23	
5000.00	0.450	285.697	4999.83	-9.58	14.27	16.71	0.06	
5100.00	0.480	276.497	5099.83	-8.79	14.43	15.92	0.08	
5200.00	0.500	273.517	5199.82	-7.98	14.50	15.07	0.03	
5300.00	0.290	275.377	5299.82	-7.33	14.55	14.38	0.21	
5400.00	0.370	254.897	5399.82	-6.84	14.49	13.82	0.14	
5500.00	0.350	259.527	5499.82	-6.34	14.35	13.21	0.04	
5600.00	0.210	267.277	5599.82	-5.92	14.29	12.72	0.14	
5700.00	0.140	332.737	5699.82	-5.66	14.39	12.48	0.20	
5800.00	0.050	310.397	5799.82	-5.52	14.52	12.39	0.10	
5900.00	0.510	54.947	5899.82	-5.71	14.81	12.72	0.52	



Planned Wellpath Report

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H ST02
Field	(Drumstick DL) Sec 7, T16S, R29E	Wellbore	No. 1H ST02 PWB
Facility	Drumstick 7 Fed Com No. 1H ST01	Sidetrack from	No. 1H ST01 AWB at 6500.00 MD

WELLPATH DATA (117 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
6000.00	0.530	55.187	5999.81	-6.19	15.33	13.47	0.02	
6100.00	0.690	66.207	6099.81	-6.83	15.83	14.40	0.20	
6200.00	0.700	89.277	6199.80	-7.80	16.08	15.56	0.28	
6300.00	0.950	82.667	6299.79	-9.07	16.20	16.99	0.27	
6400.00†	1.870	87.657	6399.76	-11.24	16.37	19.45	0.93	
6500.00	2.520	88.197	6499.68	-14.69	16.51	23.27	0.00	TIE ON
6580.00	2.500	330.000	6579.64	-14.88	18.07	24.16	5.38	EST. KOP
6600.00†	3.500	330.000	6599.62	-14.03	18.98	23.64	5.00	
6700.00†	8.500	330.000	6699.04	-5.62	28.03	18.41	5.00	
6730.00†	10.000	330.000	6728.65	-1.73	32.20	16.00	5.00	END OF BUILD
6760.00	10.000	330.000	6758.19	2.47	36.72	13.40	0.00	END OF HOLD
6800.00†	18.816	330.000	6796.89	10.47	45.33	8.42	22.04	
6900.00†	40.858	330.000	6883.10	50.31	88.15	-16.30	22.04	
7000.00†	62.899	330.000	6944.46	113.29	155.86	-55.39	22.04	
7100.00†	84.940	330.000	6971.99	190.21	238.56	-103.14	22.04	
7122.96	90.000	330.000	6973.00	208.68	258.42	-114.60	22.04	END OF CURVE
7200.00†	90.075	326.149	6972.95	272.23	323.79	-155.34	5.00	
7300.00†	90.172	321.150	6972.73	358.81	404.31	-214.59	5.00	
7400.00†	90.268	316.150	6972.35	449.42	479.35	-280.64	5.00	
7500.00†	90.361	311.151	6971.80	543.37	548.36	-352.97	5.00	
7600.00†	90.452	306.152	6971.09	639.93	610.79	-431.04	5.00	
7700.00†	90.539	301.153	6970.22	738.38	666.19	-514.25	5.00	
7800.00†	90.623	296.153	6969.21	837.96	714.12	-601.97	5.00	
7900.00†	90.701	291.153	6968.05	937.92	754.23	-693.53	5.00	
8000.00†	90.775	286.153	6966.77	1037.50	786.20	-788.24	5.00	
8000.04	90.775	286.152	6966.76	1037.54	786.21	-788.28	5.00	END OF TURN
8100.00†	90.775	286.152	6965.41	1136.64	814.01	-884.29	0.00	
8200.00†	90.775	286.152	6964.06	1235.77	841.83	-980.33	0.00	
8300.00†	90.775	286.152	6962.71	1334.90	869.64	-1076.38	0.00	
8400.00†	90.775	286.152	6961.36	1434.04	897.46	-1172.42	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H ST02
Field	(Drumstick DL) Sec 7, T16S, R29E	Wellbore	No. 1H ST02 PWB
Facility	Drumstick 7 Fed Com No. 1H ST01	Sidetrack from	No. 1H ST01 AWB at 6500.00 MD

WELLPATH DATA (117 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8500.00†	90.775	286.152	6960.01	1533.17	925.27	-1268.46	0.00	
8600.00†	90.775	286.152	6958.65	1632.30	953.09	-1364.51	0.00	
8700.00†	90.775	286.152	6957.30	1731.43	980.90	-1460.55	0.00	
8800.00†	90.775	286.152	6955.95	1830.57	1008.72	-1556.60	0.00	
8900.00†	90.775	286.152	6954.60	1929.70	1036.53	-1652.64	0.00	
9000.00†	90.775	286.152	6953.25	2028.83	1064.35	-1748.69	0.00	
9100.00†	90.775	286.152	6951.90	2127.97	1092.17	-1844.73	0.00	
9200.00†	90.775	286.152	6950.54	2227.10	1119.98	-1940.77	0.00	
9300.00†	90.775	286.152	6949.19	2326.23	1147.80	-2036.82	0.00	
9400.00†	90.775	286.152	6947.84	2425.37	1175.61	-2132.86	0.00	
9500.00†	90.775	286.152	6946.49	2524.50	1203.43	-2228.91	0.00	
9600.00†	90.775	286.152	6945.14	2623.63	1231.24	-2324.95	0.00	
9700.00†	90.775	286.152	6943.78	2722.77	1259.06	-2420.99	0.00	
9800.00†	90.775	286.152	6942.43	2821.90	1286.87	-2517.04	0.00	
9900.00†	90.775	286.152	6941.08	2921.03	1314.69	-2613.08	0.00	
10000.00†	90.775	286.152	6939.73	3020.17	1342.50	-2709.13	0.00	
10100.00†	90.775	286.152	6938.38	3119.30	1370.32	-2805.17	0.00	
10200.00†	90.775	286.152	6937.03	3218.43	1398.13	-2901.22	0.00	
10300.00†	90.775	286.152	6935.67	3317.57	1425.95	-2997.26	0.00	
10400.00†	90.775	286.152	6934.32	3416.70	1453.76	-3093.30	0.00	
10500.00†	90.775	286.152	6932.97	3515.83	1481.58	-3189.35	0.00	
10600.00†	90.775	286.152	6931.62	3614.97	1509.40	-3285.39	0.00	
10700.00†	90.775	286.152	6930.27	3714.10	1537.21	-3381.44	0.00	
10800.00†	90.775	286.152	6928.92	3813.23	1565.03	-3477.48	0.00	
10900.00†	90.775	286.152	6927.56	3912.37	1592.84	-3573.52	0.00	
11000.00†	90.775	286.152	6926.21	4011.50	1620.66	-3669.57	0.00	
11089.65	90.775	286.152	6925.00	4100.37	1645.59	-3755.67	0.00	No. 1H ST02 PBHL



Planned Wellpath Report

Plan #3
Page 6 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H ST02
Field	(Drumstick DL) Sec 7, T16S, R29E	Wellbore	No. 1H ST02 PWB
Facility	Drumstick 7 Fed Com No. 1H ST01	Sidetrack from	No. 1H ST01 AWB at 6500.00 MD

HOLE & CASING SECTIONS Ref Wellbore: No. 1H ST02 PWB Ref Wellpath: Plan #3

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
7in Casing	0.00	6550.00	6550.00	0.00	6549.66	0.00	0.00	17.14	24.44
6.125in Open Hole	6550.00	11089.65	4539.65	6549.66	6925.00	17.14	24.44	1645.59	-3755.67

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 1H ST02 PBHL	11089.65	6925.00	1645.59	-3755.67	565595.81	706648.26	32°56'32.883"N	104°07'10.253"W	point

SURVEY PROGRAM Ref Wellbore: No. 1H ST02 PWB Ref Wellpath: Plan #3

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.50	6500.00	Generic gyro - continuous (Standard)		No. 1H ST01 AWB
6500.00	11089.65	NaviTrak (Standard)		No. 1H ST02 PWB

**Drumstick 7 Federal Com No. 1
30-015-36013
Cimarex Energy Co. of Colorado
June 30, 2009
Conditions of Approval**

- 1. Surface disturbance is not to extend past existing pad without receiving prior approval.**
- 2. Closed loop system required.**
- 3. Test BOPE system.**
- 4. Liner system is to tie-back a minimum of 100'. Proposed tie-back is 90'.**
- 5. Subsequent sundry required with details of work completed on second lateral.**
- 6. Additional subsequent sundry required when the whipstock plug, RSB packer and 5' or production casing is removed and both laterals produced together.**
- 7. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales. Operator to supply NMOCD order or description of pool which details the vertical and horizontal extent of pool to verify that requested communitization is within an approved and established pool. There is a strip of federal land that has not been leased and that portion will require that 8/8th of the production due that segment be put in an escrow account until the segment is leased.**

WWI 063009