

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

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

Rm

JUL 13 2009

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		5. Lease Serial No. NM-109643
2. Name of Operator Cimarex Energy Co. of Colorado		6. If Indian, Allottee or Tribe Name
3a. Address 5215 N. O'Connor Blvd., Ste. 1500; Irving, TX 75039	3b. Phone No. (include area code) 972-401-3111	7. If Unit or CA/Agreement, Name and/or No.
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		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 <u>Add second</u>
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	<u>Abo lateral</u>
	☐ 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 recompleat 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 recompleat 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 6831'-6935' via PEAK liner system. Cimarex proposes to perform the followin operations in order to add a second Abo lateral to the well.

- TOO H w/ rods. Kill well. ND WH & NU 5K BOP. Set whipstock plug @ 6642' w/ 10' sand.
 - Mill window from 6620' to 6635.' Kick off 6 1/2" hole at 6630.' Land curve at 7178' MD 6973' TVD and drill to TD of 11392' MD and 6925' TVD.
 - Run 4 1/2" 11.6# P-110 BTC liner from RSB packer at 6530' MD to EOC 7178' MD 6973' TVD and LTC liner from 7178' MD to TD at 11392' 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 after flush production stage is over and produce from dual laterals.
- Please see attached C-102 and preliminary directional survey.

*Withdrawn - replaced by
Sundry dated 6/3/09,
with survey 6/30/09*

14. I hereby certify that the foregoing is true and correct	
Name (Printed/Typed) Zeno Farris	Title Manager Operations Administration
Signature <i>Zeno Farris</i>	Date April 17, 2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
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.	Office	

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)

7/12

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

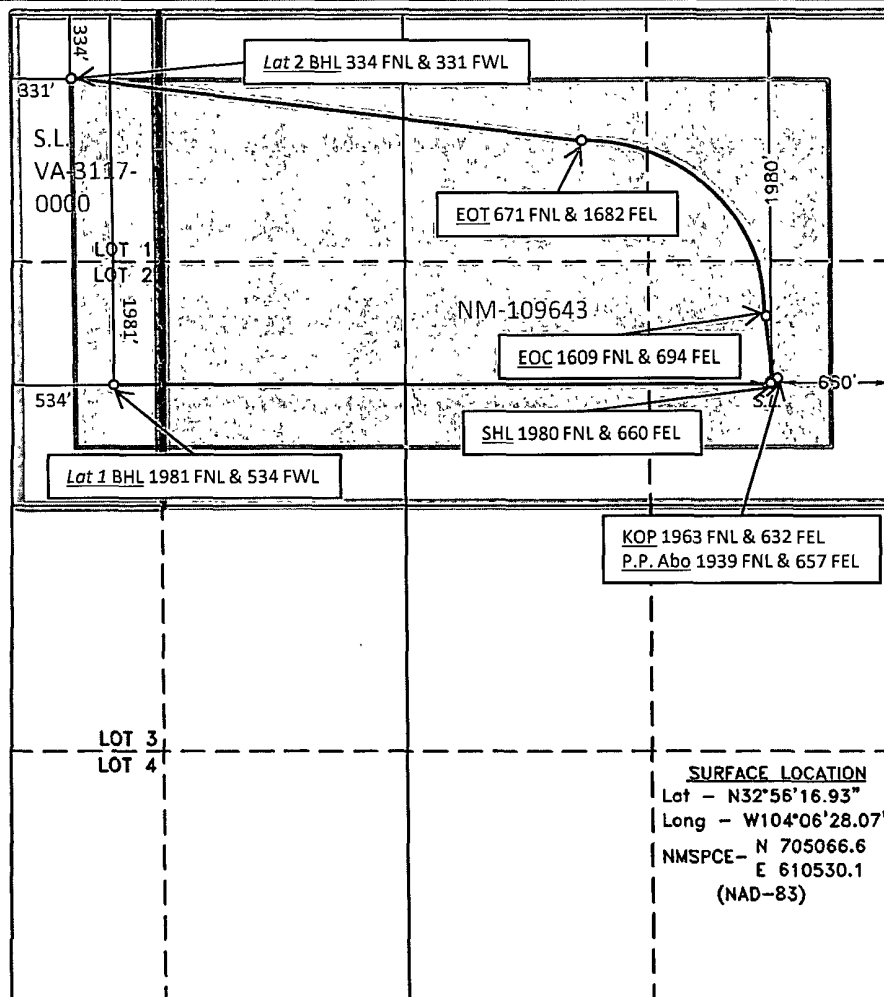
☐ AMENDED REPORT

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'

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

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	331	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
184.06		C	



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 Fauri 4/17/2009
Signature Date

Zeno Farris
Printed Name

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 Jan 1, 1968
Signature L. Jones
Professional Surveyor

7077
20
20722

Certificate No. Gary L. Jones 7977

BASIN SURVEYS

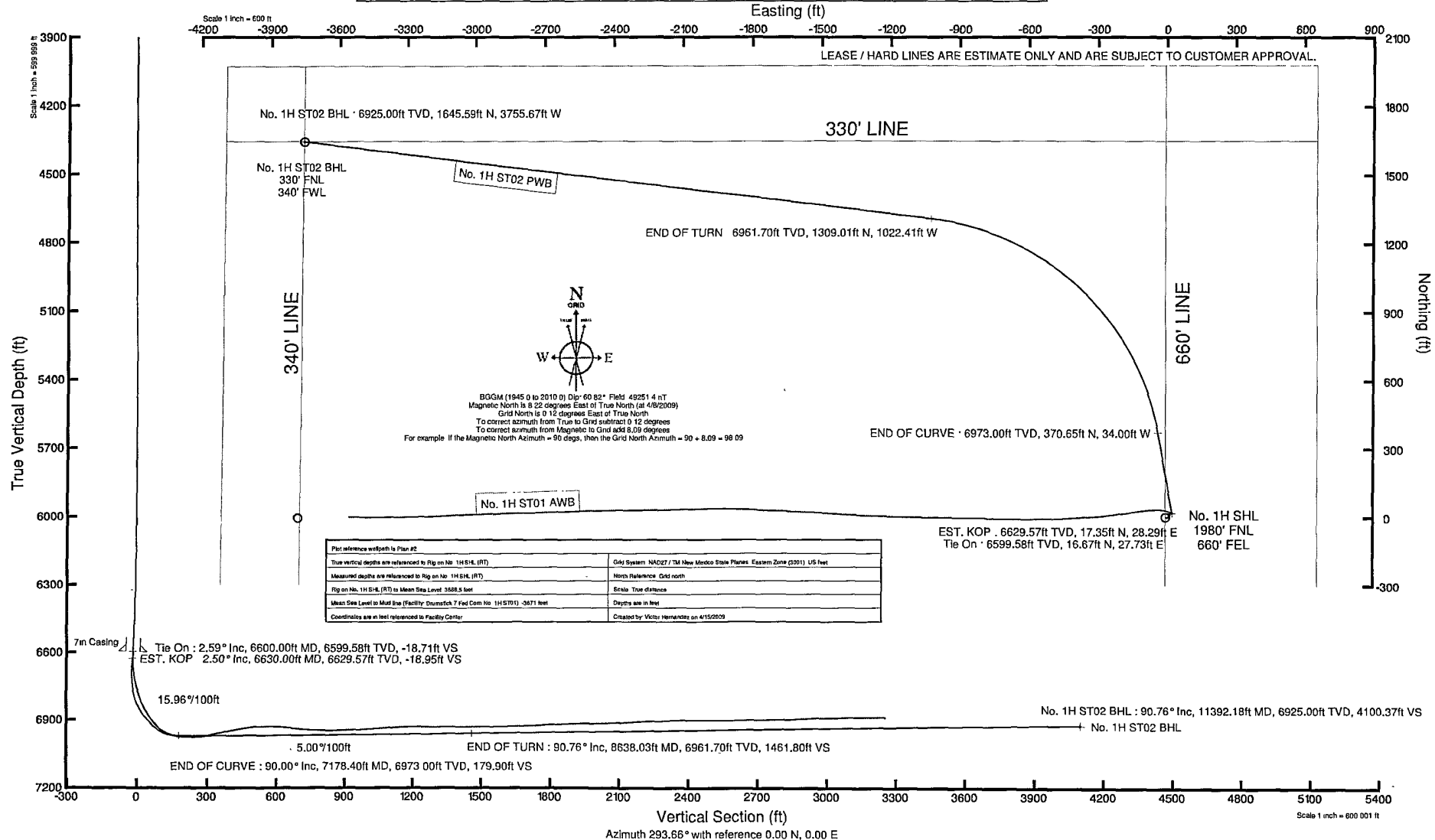
CIMAREX

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



**BAKER
HUGHES**
INTEQ

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	6600.00	2.590	87.507	6599.58	16.67	27.73	0.08	-18.71
EST. OP	6630.00	2.500	350.000	6629.57	17.35	28.29	12.76	-18.95
END OF CURVE	7178.40	90.000	350.000	6973.00	370.65	-34.00	15.96	179.90
END OF TURN	8638.03	90.764	277.020	6961.70	1309.01	-1022.41	5.00	1461.88
No. 1H ST02 BHL	11392.18	90.764	277.020	6925.00	1645.59	-3755.67	0.00	4100.33





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

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	4/15/2009 at 10:18:20 AM
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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INTEQ

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 (118 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	0.11	
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	0.21	
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
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 (118 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	64.407	3399.89	-8.14	9.12	12.88	0.24	
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	354.947	5899.82	-5.71	14.81	12.72	0.52	



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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 (118 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	0.65	
6600.00	2.590	87.507	6599.58	-18.71	16.67	27.73	0.08	Tie On
6630.00	2.500	350.000	6629.57	-18.95	17.35	28.29	12.76	EST. KOP
6700.00†	13.669	350.000	6698.76	-13.50	27.03	26.59	15.96	
6800.00†	29.624	350.000	6791.41	-6.88	63.24	20.20	15.96	
6900.00†	45.580	350.000	6870.38	40.59	123.13	9.64	15.96	
7000.00†	61.535	350.000	6929.59	85.03	202.10	-4.28	15.96	
7100.00†	77.491	350.000	6964.48	136.79	294.05	-20.50	15.96	
7178.40	90.000	350.000	6973.00	179.90	370.65	-34.00	15.96	END OF CURVE
7200.00†	90.015	348.920	6973.00	192.04	391.89	-37.96	5.00	
7300.00†	90.085	343.921	6972.91	252.54	489.06	-61.43	5.00	
7400.00†	90.153	338.921	6972.70	319.74	583.82	-93.28	5.00	
7500.00†	90.221	333.922	6972.38	393.14	675.44	-133.27	5.00	
7600.00†	90.287	328.922	6971.93	472.17	763.23	-181.09	5.00	
7700.00†	90.351	323.922	6971.37	556.23	846.51	-236.38	5.00	
7800.00†	90.412	318.923	6970.71	644.69	924.66	-298.71	5.00	
7900.00†	90.470	313.923	6969.94	736.87	997.08	-367.62	5.00	
8000.00†	90.525	308.923	6969.07	832.07	1063.22	-442.58	5.00	
8100.00†	90.575	303.923	6968.11	929.57	1122.57	-523.02	5.00	
8200.00†	90.621	298.923	6967.06	1028.61	1174.69	-608.32	5.00	
8300.00†	90.663	293.923	6965.94	1128.46	1219.17	-697.84	5.00	
8400.00†	90.699	288.922	6964.75	1228.35	1255.68	-790.89	5.00	
8500.00†	90.730	283.922	6963.50	1327.51	1283.94	-886.78	5.00	
8600.00†	90.755	278.922	6962.21	1425.20	1303.74	-984.76	5.00	
8638.03	90.764	277.020	6961.70	1461.80	1309.01	-1022.41	5.00	END OF TURN



Planned Wellpath Report

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INTEQ

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Operator	Cimarex Energy Co.	Slot	No. 1H SHL
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Facility	Drumstick 7 Fed Com No. 1H ST01	Sidetrack from	No. 1H ST01 AWB at 6500.00 MD

WELLPATH DATA (118 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8700.00†	90.764	277.020	6960.88	1521.17	1316.58	-1083.91	0.00	
8800.00†	90.764	277.020	6959.55	1616.98	1328.80	-1183.15	0.00	
8900.00†	90.764	277.020	6958.21	1712.78	1341.02	-1282.40	0.00	
9000.00†	90.764	277.020	6956.88	1808.58	1353.25	-1381.64	0.00	
9100.00†	90.764	277.020	6955.55	1904.39	1365.47	-1480.88	0.00	
9200.00†	90.764	277.020	6954.21	2000.19	1377.69	-1580.12	0.00	
9300.00†	90.764	277.020	6952.88	2095.99	1389.91	-1679.36	0.00	
9400.00†	90.764	277.020	6951.55	2191.80	1402.13	-1778.60	0.00	
9500.00†	90.764	277.020	6950.22	2287.60	1414.35	-1877.84	0.00	
9600.00†	90.764	277.020	6948.88	2383.40	1426.57	-1977.09	0.00	
9700.00†	90.764	277.020	6947.55	2479.21	1438.79	-2076.33	0.00	
9800.00†	90.764	277.020	6946.22	2575.01	1451.01	-2175.57	0.00	
9900.00†	90.764	277.020	6944.89	2670.81	1463.23	-2274.81	0.00	
10000.00†	90.764	277.020	6943.55	2766.62	1475.45	-2374.05	0.00	
10100.00†	90.764	277.020	6942.22	2862.42	1487.68	-2473.29	0.00	
10200.00†	90.764	277.020	6940.89	2958.22	1499.90	-2572.54	0.00	
10300.00†	90.764	277.020	6939.56	3054.03	1512.12	-2671.78	0.00	
10400.00†	90.764	277.020	6938.22	3149.83	1524.34	-2771.02	0.00	
10500.00†	90.764	277.020	6936.89	3245.63	1536.56	-2870.26	0.00	
10600.00†	90.764	277.020	6935.56	3341.44	1548.78	-2969.50	0.00	
10700.00†	90.764	277.020	6934.22	3437.24	1561.00	-3068.74	0.00	
10800.00†	90.764	277.020	6932.89	3533.04	1573.22	-3167.98	0.00	
10900.00†	90.764	277.020	6931.56	3628.85	1585.44	-3267.23	0.00	
11000.00†	90.764	277.020	6930.23	3724.65	1597.66	-3366.47	0.00	
11100.00†	90.764	277.020	6928.89	3820.45	1609.89	-3465.71	0.00	
11200.00†	90.764	277.020	6927.56	3916.26	1622.11	-3564.95	0.00	
11300.00†	90.764	277.020	6926.23	4012.06	1634.33	-3664.19	0.00	
11392.18	90.764	277.020	6925.00†	4100.37	1645.59	-3755.67	0.00	No. 1H ST02 BHL



Planned Wellpath Report

Plan #2
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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

HOLE & CASING SECTIONS Ref Wellbore: No. 1H ST02 PWB Ref Wellpath: Plan #2									
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	6600.00	6600.00	0.00	6599.58	0.00	0.00	16.67	27.73
6.125in Open Hole	6600.00	11392.18	4792.18	6599.58	6925.00	16.67	27.73	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 BHL	11392.18	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 #2				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.50	6600.00	Generic gyro - continuous (Standard)		No. 1H ST01 AWB
6600.00	11392.18	NaviTrak (Standard)		No. 1H ST02 PWB