

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
 [A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

- [D] Other: Specify _____

- NSL 7284
 - Cimarron Energy Co.
 215099
 - WFX
 - Blanton 6 February 26
 30-015-42352
 PPR
 - Wildcat, Cisco
 97851

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or X Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

- [4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

<u>Hope Knauts</u>	<u>Hope Knauts</u>	<u>Regulatory Tech</u>	<u>2/16/15</u>
Print or Type Name	Signature	Title	Date

 e-mail Address

DISTRICT I
1026 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 July 10, 2010

Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-42352	Pool Code 97851	Pool Name Wildcat; Cisco
Property Code 40572	Property Name BURTON "6" FEDERAL	Well Number 24
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3292'

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	6	20 S	30 E	3	475	NORTH	1500	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	6	20 S	30 E		663	SOUTH	1969	WEST	EDDY

Dedicated Acres 160.08	Joint or Infill	Consolidation Code	Order No. NSL Pending
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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 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. <i>Hope Knauls</i> 2-12-15 Signature Date Printed Name Email Address hknauls@cimarex.com 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. <i>Gary L. Jones</i> Signature Seal of Professional Surveyor Date 2-12-15 Certificate No. Gary L. Jones 7977 BASIN SURVEYS 23084
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Cimarex Energy Co.

202 S. Cheyenne Ave.

Suite 1000

Tulsa, Oklahoma 74103-4346

PHONE: 918.585.1100

FAX: 918.585.1133

RECEIVED OCD

2015 MAY 15 P 2: 14



David Catanach
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Re: Application of Cimarex Energy Co. of Colorado for administrative approval of an unorthodox well location and non-standard project area for its Burton 6 Federal 2H, API 30-015-42352 drilled from a surface location of 475 feet from the North line and 1500 feet from the West line, to a bottom hole location 663 feet from the South line and 1969 feet from the East line of Section 6, Township 20 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.

Dear Mr. Catanach:

Cimarex Energy Co. of Colorado ("Cimarex") (OGRID No. 251099) is seeking administrative approval under Division Rules 19.15.15.13(C) and 19.15.16.15(B)(2) NMAC for an unorthodox well location for its Burton 6 Federal 2H, API 30-015-42352, which is a horizontal well located in Section 6, Township 20 South, Range 30 East, N.M.P.M., Eddy County, New Mexico. Cimarex is filing this application because, as discussed below, the completed interval does not comply with the 330' setback requirements. This well has been drilled to test the Cisco formation (Wildcat; Cisco Pool - 97851) and is located as follows:

- Surface Location: 475 feet from the North line and 1500 feet from the East line of Section 6;
- Bottom Hole Location: 663 feet from the South line and 1969 feet from the West line of Section 6;
- Project Area: Units C,F,K,N, in Section 6, Township 20 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.

This location is governed by statewide Rule 19.15.15.9(A) NMAC, which provides for 40-acre spacing units, with wells located at least 330 feet from the unit's outer boundary and Rule 19.15.16.15(B)(2), which requires every point of the completed interval in a horizontal well to "meet the minimum setback requirement from the outer boundaries of the project area." Cimarex is filing this application because it the completed interval of the well is closer than 330' from the outer boundary of the project area. The proposed completion interval for the well is as follow:

- Beginning of Producing Interval: 669 feet from the North line and 1428 feet from the West line of Section 6;
- End of Producing Interval: 663 feet from the South line and 1969 feet from the West line of Section 6;

Attached as Exhibit A is the "as drilled" C-102 for the well.

Attached as Exhibit B, is a plat which shows the subject spacing unit for this well and all adjoining spacing units or leases. The non-standard portions of the well are encroaching on units D, E, L and M in Section 6. Cimarex attests that it is the operator of the offset spacing and proration units in Section 6 and that the mineral interest ownership in the W/2 of Section 6 is common. As a result, no other persons are entitled to notice of the non-standard location application under 19.15.15.13(C).

There are two API numbers for this well. API# 30-015-38486 has expired. A new APD has been issued with API# 30-015-42352.

Please contact me if you have any questions or concerns. Thank you.

Sincerely,



Hope Knauls

Enclosures

Cimarex Energy Co.
202 S. Cheyenne Ave.
Suite 1000
Tulsa, Oklahoma 74103-4346
PHONE: 918.585.1100
FAX: 918.585.1133



Michael McMillian
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Re: Burton 6 Federal 2H
API 30-015-42352
Section 6, Township 20 South, Range 30 East, N.M.P.M.
Eddy County, New Mexico.

Dear Mr. McMillian:

The Burton 6 Federal 2H well is located in the E2/W2 of Sec. 6, T20S-R30E, Eddy County NM.

USA Federal Oil & Gas Lease NMNM 124659 was purchased at the April 2010 Fed Sale by Doug Schutz and then subsequently, in its entirety, was assigned to Cimarex Energy Co. The lease covers all of Section 6, save and except the E/2SE/4. Cimarex is the operator of the W2 of Sec. 6, 20S, 30E, Eddy County, NM as to all depths. Ownership in the W/2 is common as to all depths.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Compton", written over a horizontal line.

Mark Compton
Landman
Cimarex Energy Co.

BURTON 6 FEDERAL #2H

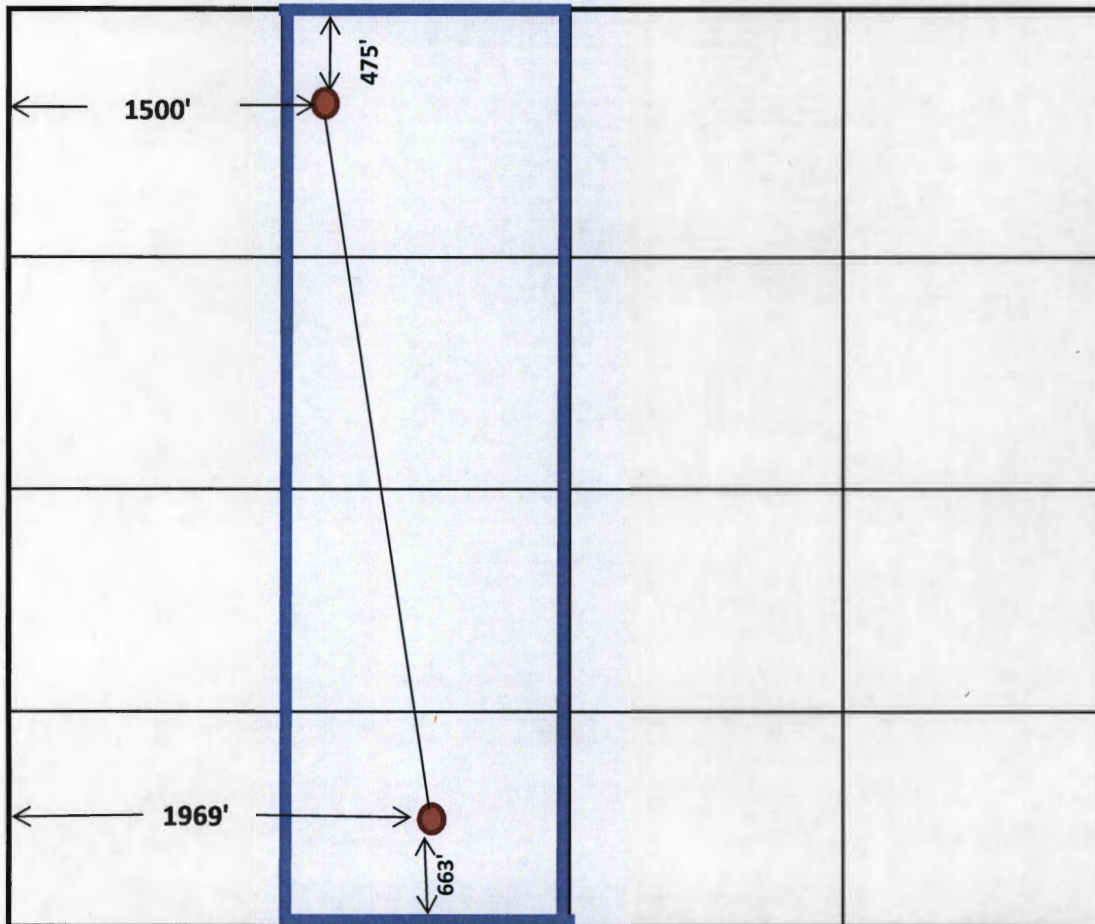


EXHIBIT B

SEC.6-T20S-30E



Cimarex Burton 6 Federal 2H XEM + MWD 0ft to 14303ft MD Survey

Geodetic Report (Def Survey)



Report Date: February 16, 2015 - 04:55 PM
Client: Cimarex
Field: NM Eddy County (NAD 83)
Structure / Slot: Cimarex Burton 6 Federal 2H / Burton 6 Federal 2H
Well: Burton 6 Federal 2H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Burton 6 Federal 2H XEM + MWD 0ft to 14303ft MD
Survey Date: November 26, 2014
Tort / AHD / DDI / ERD Ratio: 151.711' / 4367.512 R / 5.957 / 0.418
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Foot
Location Lat / Long: N 32° 36' 30.15791" W 104° 0' 53.88436"
Location Grid N/E Y/X: N 585205 164 RUS, E 639370 005 RUS
CRS Grid Convergence Angle: 0.1716°
Grid Scale Factor: 0.9998201
Version / Patch: 2.7.1043.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 173.288° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 R
TVD Reference Datum: RKB
TVD Reference Elevation: 3317.000 ft above MSL
Sealed / Ground Elevation: 3292.000 ft above MSL
Magnetic Declination: 7.713°
Total Gravity Field Strength: 966.5057mgn (9.80665 Based)
Gravity Model: GARM
Magnetic Field Strength: 48488.497 nT
Magnetic Dip Angle: 60.520°
Declination Date: November 26, 2014
Magnetic Declination Model: HDGM 2014
North Reference: Grid North
Grid Convergence Used: 0.1716°
Total Corr Mag North→Grid: 7.5413°
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Closure Azimuth (°)	Closure (ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ° °)	Longitude (E/W ° ° °)	TF (°)
SHL: 1500FWL 475FNL	0.00	0.00	173.28	0.00	-3317.00	0.00	0.00	0.00	N/A	0.00	0.00	585205.16	639370.01	N 32 36 30.16 W 104 0 53.88		220.18M
	50.00	0.60	220.18	50.00	-3267.00	0.18	-0.20	-0.17	1.20	220.18	0.26	585204.96	639369.84	N 32 36 30.16 W 104 0 53.89		222.56M
	100.00	0.76	222.56	100.00	-3217.00	0.57	-0.64	-0.56	0.32	221.10	0.86	585204.52	639369.44	N 32 36 30.15 W 104 0 53.89		219.91M
	150.00	0.73	219.91	149.99	-3167.01	1.01	-1.13	-0.99	0.09	221.17	1.50	585204.03	639369.01	N 32 36 30.15 W 104 0 53.90		220.03M
	200.00	0.77	220.03	199.99	-3117.01	1.46	-1.63	-1.41	0.08	220.81	2.16	585203.53	639368.59	N 32 36 30.14 W 104 0 53.90		231.01M
	250.00	0.96	231.01	249.98	-3067.02	1.91	-2.16	-1.95	0.50	222.18	2.91	585203.01	639368.05	N 32 36 30.14 W 104 0 53.91		237.27M
	300.00	0.96	237.27	299.97	-3017.03	2.32	-2.65	-2.63	0.21	224.84	3.73	585202.52	639367.37	N 32 36 30.13 W 104 0 53.92		236.64M
	350.00	1.01	236.64	349.97	-2967.03	2.70	-3.11	-3.35	0.10	227.10	4.57	585202.05	639366.65	N 32 36 30.13 W 104 0 53.92		243.31M
	400.00	0.96	243.31	399.96	-2917.04	3.04	-3.54	-4.09	0.25	229.11	5.41	585201.52	639365.91	N 32 36 30.12 W 104 0 53.93		255.11M
	450.00	0.94	255.10	449.95	-2867.05	3.24	-3.84	-4.66	0.39	231.72	6.20	585201.33	639365.14	N 32 36 30.12 W 104 0 53.94		261.41M
	500.00	0.95	261.41	499.95	-2817.05	3.32	-4.01	-5.67	0.21	234.76	6.94	585201.16	639364.34	N 32 36 30.12 W 104 0 53.95		263.93M
	550.00	0.94	263.93	549.94	-2767.06	3.32	-4.11	-6.49	0.09	237.64	7.68	585201.05	639363.52	N 32 36 30.12 W 104 0 53.96		268.11M
	600.00	1.01	268.11	599.93	-2717.07	3.28	-4.17	-7.34	0.20	240.39	8.44	585200.90	639362.67	N 32 36 30.12 W 104 0 53.97		280.02M
	650.00	0.87	280.02	649.93	-2667.07	3.14	-4.12	-8.15	0.48	243.20	9.13	585201.05	639361.86	N 32 36 30.12 W 104 0 53.98		281.12M
	700.00	0.84	281.12	699.92	-2617.08	2.91	-3.98	-8.88	0.07	245.87	9.73	585201.18	639361.12	N 32 36 30.12 W 104 0 53.99		294.44M
	750.00	0.76	294.44	749.91	-2567.09	2.63	-3.77	-9.55	0.40	248.44	10.26	585201.39	639360.46	N 32 36 30.12 W 104 0 54.00		322.14M
	800.00	0.62	322.14	799.91	-2517.09	2.23	-3.42	-10.01	0.71	251.13	10.58	585201.74	639359.99	N 32 36 30.12 W 104 0 54.00		348.37M
	850.00	0.74	348.37	849.91	-2467.09	1.67	-3.08	-10.24	0.96	254.24	10.64	585202.07	639359.78	N 32 36 30.13 W 104 0 54.00		389.04M
	900.00	0.87	389.04	899.90	-2417.10	0.99	-2.20	-10.24	0.66	257.67	10.48	585202.36	639359.76	N 32 36 30.14 W 104 0 54.00		398.74M
	950.00	1.04	398.74	949.90	-2367.10	0.21	-1.40	-10.04	0.43	262.08	10.13	585202.77	639359.37	N 32 36 30.14 W 104 0 54.00		407.07M
	1000.00	1.29	407.07	999.89	-2317.11	-0.65	-0.48	-9.62	0.68	267.17	9.63	585203.09	639359.39	N 32 36 30.15 W 104 0 54.00		433.39M
	1050.00	1.48	433.39	1049.87	-2267.13	-1.60	-0.55	-8.98	0.42	273.52	8.00	585203.72	639361.02	N 32 36 30.16 W 104 0 53.99		461.07M
	1100.00	1.50	461.07	1099.85	-2217.15	-2.95	-1.60	-8.22	0.30	281.02	8.37	585204.06	639361.79	N 32 36 30.17 W 104 0 53.98		487.07M
	1150.00	1.82	487.07	1149.83	-2167.17	-3.46	-2.64	-7.21	0.82	290.10	7.88	585207.80	639362.79	N 32 36 30.18 W 104 0 53.97		56.41M
	1200.00	1.82	56.41	1199.81	-2117.19	-4.28	-3.61	-5.96	0.53	301.19	6.97	585208.77	639364.04	N 32 36 30.19 W 104 0 53.95		55.62M
	1250.00	1.78	55.62	1249.78	-2067.22	-5.00	-4.49	-4.66	0.09	313.92	6.47	585209.65	639365.35	N 32 36 30.20 W 104 0 53.94		55.96M
	1300.00	1.68	55.96	1299.76	-2017.24	-5.70	-5.34	-3.41	0.20	327.41	6.33	585210.50	639366.59	N 32 36 30.21 W 104 0 53.92		57.22M
	1350.00	1.28	57.22	1349.74	-1967.26	-6.28	-6.05	-2.33	0.80	338.90	6.48	585211.21	639367.67	N 32 36 30.22 W 104 0 53.91		57.09M
	1400.00	0.87	57.09	1399.74	-1917.26	-6.69	-6.56	-1.55	0.82	346.73	6.74	585211.72	639368.46	N 32 36 30.22 W 104 0 53.90		36.71M
	1450.00	0.54	36.71	1449.73	-1867.27	-7.03	-6.95	-1.08	0.79	351.16	7.03	585212.11	639368.93	N 32 36 30.23 W 104 0 53.90		31.28M
	1500.00	0.30	31.28	1499.73	-1817.27	-7.29	-7.24	-0.86	0.49	353.19	7.29	585212.41	639369.14	N 32 36 30.23 W 104 0 53.89		351.74M
	1550.00	0.28	351.74	1549.73	-1767.27	-7.52	-7.48	-0.81	0.39	353.78	7.52	585212.64	639369.19	N 32 36 30.23 W 104 0 53.89		299.33M
	1603.00	0.31	299.33	1599.73	-1717.27	-7.93	-7.86	-1.09	0.25	352.08	7.94	585213.02	639368.91	N 32 36 30.24 W 104 0 53.90		300.96M
	1747.00	0.48	300.96	1746.73	-1570.27	-8.33	-8.19	-1.65	0.18	348.59	8.35	585213.35	639368.35	N 32 36 30.24 W 104 0 53.90		289.84M
	1842.00	0.40	289.84	1841.72	-1475.28	-8.72	-8.51	-2.31	0.12	344.83	8.81	585213.67	639367.70	N 32 36 30.24 W 104 0 53.91		269.14M
	1937.00	0.31	269.14	1936.72	-1380.28	-8.89	-8.61	-2.87	0.16	341.54	9.08	585213.78	639367.13	N 32 36 30.24 W 104 0 53.92		304.87M
	2032.00	0.31	304.87	2031.72	-1285.28	-9.00	-8.76	-3.34	0.20	339.11	9.37	585213.92	639366.66	N 32 36 30.24 W 104 0 53.92		296.35M
	2128.00	0.48	296.35	2127.72	-1189.28	-9.48	-9.08	-3.92	0.19	336.68	9.89	585214.25	639366.09	N 32 36 30.25 W 104 0 53.93		295.03M
	2223.00	0.70	295.03	2222.71	-1094.29	-10.00	-9.51	-4.80	0.23	333.22	10.65	585214.67	639365.21	N 32 36 30.25 W 104 0 53.94		299.07M
	2318.00	0.88	299.07	2317.70	-999.30	-10.73	-10.11	-5.96	0.20	329.46	11.73	585215.27	639364.04	N 32 36 30.26 W 104 0 53.95		304.34M
	2414.00	1.01	304.34	2413.69	-903.31	-11.72	-10.94	-7.30	0.16	326.27	13.16	585216.10	639362.70	N 32 36 30.27 W 104 0 53.97		317.75M
	2509.00	0.70	317.75	2508.68	-808.32	-12.74	-11.84	-8.39	0.39	324.70	14.51	585217.01	639361.62	N 32 36 30.28 W 104 0 53.96		312.56M
	2604.00	0.79	312.56	2603.67	-713.33	-13.71	-12.72	-9.26	0.12	323.94	15.73	585217.88	639360.75	N 32 36 30.28 W 104 0 53.99		315.86M
	2699.00	0.70	315.86	2698.66	-618.34	-14.67	-13.58	-10.15	0.10	323.23	16.95	585218.74	639359.66	N 32 36 30.29 W 104 0 54.00		308.74M
	2794.00	0.70	308.74	2793.66	-523.34	-15.54	-14.36	-11.00	0.09	322.53	18.09	585219.52	639359.00	N 32 36 30.30 W 104 0 54.01		316.25M
	2889.00	0.70	316.25	2888.65	-428.35	-16.42	-15.14	-11.66	0.10	321.93	19.23	585220.30	639358.15	N 32 36 30.31 W 104 0 54.02		309.13M
	2990.00	0.88	309.13	2989.64	-327.36	-17.47	-16.07	-12.88	0.20	321.28	20.60	585221.12	639357.12	N 32 36 30.32 W 104 0 54.03		307.16M
	3084.00	1.01	307.16	3083.63	-233.37	-18.56	-17.03	-14.10	0.14	320.37	22.11	585222.19	639355.90	N 32 36 30.33 W 104 0 54.05		312.03M
	3180.00	1.01	312.03	3179.61	-137.38	-19.11	-18.11	-15.41	0.09	319.60	23.77	585223.27	639354.60	N 32 36 30.34 W 104 0 54.06		299.73M
	3275.00	0.88	299.73	3274.60	-42.40	-20.85	-19.03	-16.66	0.25	319.78	25.29	585224.19	639353.34	N 32 36 30.35 W 104 0 54.08		308.74M
	3311.00	1.01	308.74	3310.59	-4.41	-21.24	-19.36	-17.15	0.55	318.47	25.87	585224.53	639352.86	N 32 36 30.35 W 104 0 54.08		290.94M
	3410.00	1.41	290.94	3409.57	92.57	-22.42	-20.35	-18.97	0.55	317.01	27.82	585225.51	639351.04	N 32 36 30.36 W 104 0 54.11		281.67M
	3505.00	0.68	281.67	3504.06	181.56	-23.30	-20.91	-20.77	0.20	315.11	29.48	585226.07	639349.25	N 32 36 30.37 W 104 0 54.13		288.13M
	3603.00	0.88	288.13	3602.54	285.54	-23.75	-21.30	-22.23	0.10	313.08	30.78	585226.46	639347.78	N 32 36 30.37 W 104 0 54.14		289.36M
	3699.00	0.88	289.36	3698.53	381.53	-24.38	-21.77	-23.62	0.02	312.66	32.12	585226.93	639346.38	N 32 36 30.37 W 104 0 54.16		284.57M
	3793.00	0.88	284.57	3792.5												

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Closure Azimuth (°)	Closure (ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ° °)	Longitude (E/W ° ° °)	TF (°)
	7212.00	0.46	217.07	7210.45	3893.45	-45.49	33.54	-104.25	0.81	287.83	109.51	585238.70	639265.76	N 32 36 30.48 W 104 05.50	191.23M	
	7308.00	0.70	191.23	7306.45	3569.45	-44.64	32.64	-104.61	0.35	287.83	109.58	585237.80	639265.41	N 32 36 30.48 W 104 05.51	179.06M	
	7403.00	1.01	178.06	7401.43	4084.43	-43.26	31.23	-104.71	0.38	286.61	109.27	585236.40	639265.31	N 32 36 30.47 W 104 05.51	182.04M	
	7498.00	1.10	182.04	7496.42	4170.42	-41.52	29.40	-104.73	0.11	285.72	108.80	585234.65	639265.29	N 32 36 30.45 W 104 05.51	185.75M	
	7593.00	1.19	185.75	7591.40	4274.40	-39.66	27.59	-104.86	0.12	284.74	108.43	585232.75	639265.16	N 32 36 30.43 W 104 05.51	188.33M	
	7688.00	1.89	188.33	7686.36	4369.36	-37.18	25.08	-105.18	0.74	283.40	108.13	585230.22	639264.83	N 32 36 30.41 W 104 05.51	192.15M	
	7783.00	2.50	192.15	7781.29	4464.29	-33.71	21.49	-105.85	0.86	281.47	108.00	585226.65	639264.17	N 32 36 30.37 W 104 05.52	141.26M	
	7878.00	0.70	141.26	7876.26	4559.26	-31.26	19.01	-106.92	2.24	280.17	107.61	585224.17	639264.09	N 32 36 30.35 W 104 05.52	176.33M	
	7973.00	1.01	176.33	7971.25	4654.25	-29.83	17.72	-105.50	0.83	279.53	106.98	585222.88	639264.51	N 32 36 30.34 W 104 05.52	211.05M	
	8073.00	1.32	211.05	8071.23	4754.23	-28.14	15.85	-108.04	0.76	278.50	107.22	585221.01	639263.97	N 32 36 30.32 W 104 05.52	234.47M	
	8168.00	1.10	234.47	8166.21	4849.21	-26.83	14.38	-107.35	0.56	277.63	108.31	585219.55	639262.67	N 32 36 30.30 W 104 05.54	222.17M	
	8266.00	1.41	222.17	8264.18	4947.18	-25.89	12.94	-108.92	0.42	276.78	109.69	585218.11	639261.09	N 32 36 30.29 W 104 05.56	211.05M	
	8362.00	1.41	211.05	8360.15	5043.15	-23.88	11.06	-110.32	0.28	275.72	110.88	585216.22	639258.69	N 32 36 30.27 W 104 05.57	198.36M	
	8457.00	1.49	199.36	8455.12	5138.12	-21.84	8.89	-111.34	0.32	274.57	111.69	585214.05	639258.68	N 32 36 30.25 W 104 05.59	177.43M	
	8552.00	1.89	177.43	8550.08	5233.08	-19.17	6.16	-111.67	0.79	273.16	111.84	585211.32	639256.34	N 32 36 30.22 W 104 05.59	161.65M	
	8647.00	2.50	161.65	8645.01	5328.01	-15.58	2.63	-110.96	0.90	271.38	110.98	585207.79	639259.06	N 32 36 30.19 W 104 05.56	153.35M	
	8742.00	1.80	153.35	8739.95	5422.95	-12.15	-0.67	-109.63	0.80	269.66	109.63	585204.49	639260.38	N 32 36 30.15 W 104 05.57	127.55M	
	8837.00	1.19	127.55	8834.92	5517.92	-10.05	-2.61	-108.18	0.94	268.62	108.21	585202.56	639261.83	N 32 36 30.14 W 104 05.55	118.16M	
	8932.00	1.19	119.16	8929.89	5612.89	-8.79	-3.69	-106.54	0.18	268.02	106.80	585201.48	639263.48	N 32 36 30.12 W 104 05.53	129.66M	
	9024.00	1.10	129.66	9021.88	5704.88	-7.59	-4.72	-105.02	0.25	267.43	105.13	585200.45	639264.98	N 32 36 30.11 W 104 05.51	141.44M	
	9120.00	1.10	141.44	9117.86	5800.86	-6.14	-6.03	-103.74	0.24	266.68	103.91	585199.14	639266.28	N 32 36 30.10 W 104 05.50	157.44M	
	9215.00	1.32	157.44	9212.84	5895.84	-4.31	-7.75	-102.75	0.42	265.69	103.04	585197.42	639267.26	N 32 36 30.08 W 104 05.50	153.44M	
	9309.00	1.89	153.44	9306.80	5989.80	-1.81	-10.14	-101.64	0.62	264.31	102.15	585195.03	639268.37	N 32 36 30.06 W 104 05.57	152.73M	
	9405.00	2.02	152.73	9402.74	6085.74	1.26	-13.06	-100.16	0.14	262.57	101.01	585192.11	639269.86	N 32 36 30.03 W 104 05.56	153.74M	
	9500.00	1.80	153.74	9497.69	6180.69	4.23	-15.88	-98.73	0.23	260.86	100.00	585189.28	639271.28	N 32 36 30.00 W 104 05.54	140.96M	
	9599.00	1.80	140.96	9596.64	6279.64	7.01	-18.48	-97.06	0.40	259.22	98.81	585186.68	639272.95	N 32 36 29.98 W 104 05.52	137.97M	
	9694.00	2.02	137.97	9691.59	6374.59	9.64	-20.89	-95.00	0.25	257.60	97.27	585184.28	639275.01	N 32 36 29.95 W 104 05.50	146.65M	
	9789.00	2.20	146.65	9786.53	6469.53	12.66	-23.69	-92.93	0.45	255.70	95.90	585181.48	639277.08	N 32 36 29.93 W 104 05.49	151.85M	
	9833.00	2.20	151.85	9830.49	6513.49	14.22	-25.15	-92.10	0.28	254.72	95.47	585180.01	639277.92	N 32 36 29.91 W 104 05.49	170.34M	
	9909.00	5.83	170.34	9906.30	6589.30	19.43	-30.25	-90.76	5.01	251.57	95.67	585174.92	639279.25	N 32 36 29.86 W 104 05.49	172.63M	
	9941.00	11.80	172.63	9937.91	6620.91	24.33	-35.10	-90.07	18.68	248.71	96.86	585170.07	639279.95	N 32 36 29.81 W 104 05.49	0.87R	
	9973.00	17.86	172.63	9969.62	6651.62	32.52	-43.22	-89.04	18.94	244.11	96.98	585161.95	639280.97	N 32 36 29.73 W 104 05.49	5.38R	
	10004.00	22.40	174.05	9957.92	6685.92	43.18	-53.82	-87.84	14.70	238.51	97.81	585151.35	639282.17	N 32 36 29.65 W 104 05.49	7.11R	
	10036.00	25.48	174.95	10027.17	6710.17	56.16	-66.74	-86.61	9.69	232.38	109.34	585136.43	639283.41	N 32 36 29.50 W 104 05.49	6.8L	
	10068.00	28.22	174.26	10055.71	6738.71	70.61	-81.13	-85.24	8.62	226.42	117.68	585124.04	639284.77	N 32 36 29.36 W 104 05.48	13.41R	
	10099.00	31.23	175.64	10082.63	6765.63	85.97	-96.44	-83.90	9.96	221.02	127.83	585108.73	639286.11	N 32 36 29.21 W 104 05.48	8.48L	
	10131.00	33.93	174.92	10109.60	6792.60	103.19	-113.61	-82.48	8.52	215.88	140.39	585091.54	639287.54	N 32 36 29.04 W 104 05.48	10.07L	
	10163.00	37.13	173.98	10135.63	6818.63	121.78	-132.11	-80.67	10.14	211.41	154.80	585073.06	639289.34	N 32 36 28.85 W 104 05.48	19.56L	
	10195.00	40.00	172.40	10160.65	6843.65	141.73	-151.92	-78.30	8.48	207.27	170.91	585053.26	639291.71	N 32 36 28.66 W 104 05.48	21.6L	
First Take Point	10227.00	43.16	170.58	10184.59	6867.59	162.95	-172.62	-75.15	10.57	203.49	188.54	585032.26	639294.87	N 32 36 28.45 W 104 05.47	11.22L	
	10258.00	46.30	169.72	10206.61	6899.61	184.73	-194.41	-71.41	10.32	200.17	207.11	585010.77	639296.86	N 32 36 28.24 W 104 05.47	8.96L	
	10290.00	49.64	169.03	10228.03	6931.03	208.44	-217.76	-67.02	10.56	197.11	227.85	584987.42	639302.99	N 32 36 28.01 W 104 05.46	1.6L	
	10322.00	53.38	166.90	10247.94	6963.94	233.41	-242.34	-62.23	11.69	194.40	250.21	584962.84	639307.78	N 32 36 27.76 W 104 05.46	22.69R	
	10353.00	56.65	170.53	10265.72	6994.72	258.75	-267.33	-57.70	11.39	192.18	273.49	584937.86	639312.31	N 32 36 27.51 W 104 05.47	26.75R	
	10385.00	59.27	172.06	10282.69	7026.69	285.86	-294.14	-53.60	9.14	190.33	296.89	584911.05	639316.41	N 32 36 27.25 W 104 05.47	3.63L	
	10417.00	62.06	171.86	10298.37	7058.37	313.75	-321.76	-49.70	8.74	189.78	325.58	584883.43	639320.31	N 32 36 26.98 W 104 05.46	1.29L	
	10449.00	65.30	171.78	10312.55	7090.55	342.42	-350.15	-45.62	10.13	187.42	353.11	584855.05	639324.39	N 32 36 26.69 W 104 05.44	9.97L	
	10547.00	68.75	171.13	10330.80	7122.80	370.33	-379.36	-42.21	3.57	184.19	440.54	584765.84	639337.80	N 32 36 26.51 W 104 05.48	8.02R	
	10610.00	70.83	171.44	10372.56	7155.56	491.66	-491.79	-23.25	3.33	182.67	498.34	584707.41	639346.75	N 32 36 26.23 W 104 05.47	10.1R	
	10704.00	75.29	172.26	10399.95	7187.95	581.53	-588.78	-10.52	4.82	181.03	566.88	584648.43	639350.49	N 32 36 26.03 W 104 05.43	2.66R	
	10798.00	79.10	172.44	10420.77	7219.77	673.17	-677.61	1.66	4.06	179.86	677.62	584527.61	639371.69	N 32 36 25.85 W 104 05.39	5.94L	
	10892.00	83.11	172.02	10435.31	7251.31	768.00	-769.61	14.24	4.29	178.94	769.74	584435.62	639384.24	N 32 36 25.54 W 104 05.374	3.03L	
	10986.00	85.94	171.87	10444.27	7283.27	859.54	-862.25	27.35	3.01	178.18	862.68	584342.99	639397.35	N 32 36 25.31 W 104 05.359	4.81L	
	11081.00	90.10	171.52	10447.56	7315.56	954.42	-956.18	41.06	4.39	177.54	957.06	584249.07	639411.06	N 32 36 25.07 W 104 05.344	96.53R	
	11175.00	90.07	171.72	10447.42	7347.42	1048.38	-1049.17	54.76	0.22	177.01	1050.60	584156.08	639424.76	N 32 36 24.78 W 104 05.328	156.8R	
	11269.00	90.00	171.75	10447.36	7379.36	1142.35	-1142.20	68.27	0.08	176.58	1144.23	584063.06	639438.27	N 32 36 24.51 W 104 05.313	1.86L	
	11363.00	90.34	171.74	10447.08	7411.08	1236.31	-1235.22	81.77	0.36	176.21	1237.92	583970.04	639451.77	N 32 36 24.24 W 104 05.297	8.13R	
	11458.00	90.41	171.75	10446.46	7442.46	1331.28	-1329.24	95.41	0.07	175.89	1332.65	583876.04	639465.40	N 32 36 24.00 W 104 05.282	177.88L	
	11552.00	90.14	171.95	10446.01	7474.01	1425.24	-1422.26	108.90	0.29	175.62	1426.42	583763.02	639478.90	N 32 36 23.68 W 104 05.266	64.54R	
	11646.00	90.24	171.95	10445.70	7505.70	1519.21	-1515.31	122.24	0.25	175.39	1520.23	583669.98	639492.23	N 32 36 23.45 W 104 05.251	171.03L	
	11740.00	89.86	171.89	10445.61	7537.61	1613.18	-1608.38	135.45	0.41	17						



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Burton) Sec 6, T20S, R30E	Wellbore	No. 2H PWB
Facility	Burton 6 Fed No. 2H		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gentbry
Scale	0.99992	Report Generated	4/18/2012 at 10:57:28 AM
Convergence at slot	0.17° East	Database/Source file	WA Midland/No. 2H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W
Facility Reference Pt			639370.01	585205.16	32°36'30.158"N	104°00'53.884"W
Field Reference Pt			639370.01	585205.16	32°36'30.158"N	104°00'53.884"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 2 SHL (GL) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on No. 2 SHL (GL) to Mean Sea Level	3292.00ft
Vertical Reference Pt	Rig on No. 2 SHL (GL)	Rig on No. 2 SHL (GL) to Mud Line at Slot (No. 2H SHL)	0.00ft
MD Reference Pt	Rig on No. 2 SHL (GL)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	173.29°



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Burton) Sec 6, T20S, R30E	Wellbore	No. 2H PWB
Facility	Burton 6 Fed No. 2H		

WELLPATH DATA (155 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	173.288	0.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	Tie On
100.00†	0.000	173.288	100.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
200.00†	0.000	173.288	200.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
300.00†	0.000	173.288	300.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
350.00†	0.000	173.288	350.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	Rustler
400.00†	0.000	173.288	400.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
500.00†	0.000	173.288	500.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
600.00†	0.000	173.288	600.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
650.00†	0.000	173.288	650.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	Salt
700.00†	0.000	173.288	700.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
800.00†	0.000	173.288	800.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
900.00†	0.000	173.288	900.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
1000.00†	0.000	173.288	1000.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
1100.00†	0.000	173.288	1100.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
1200.00†	0.000	173.288	1200.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
1300.00†	0.000	173.288	1300.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	Base Salt
1400.00†	0.000	173.288	1400.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
1500.00†	0.000	173.288	1500.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
1550.00†	0.000	173.288	1550.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	Yates
1600.00†	0.000	173.288	1600.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
1700.00†	0.000	173.288	1700.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
1770.00†	0.000	173.288	1770.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	Capitan
1800.00†	0.000	173.288	1800.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
1900.00†	0.000	173.288	1900.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
2000.00†	0.000	173.288	2000.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
2100.00†	0.000	173.288	2100.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
2200.00†	0.000	173.288	2200.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
2300.00†	0.000	173.288	2300.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
2400.00†	0.000	173.288	2400.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
2500.00†	0.000	173.288	2500.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
2600.00†	0.000	173.288	2600.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
2700.00†	0.000	173.288	2700.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
2800.00†	0.000	173.288	2800.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
2900.00†	0.000	173.288	2900.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
3000.00†	0.000	173.288	3000.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
3100.00†	0.000	173.288	3100.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
3200.00†	0.000	173.288	3200.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
3300.00†	0.000	173.288	3300.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
3400.00†	0.000	173.288	3400.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
3500.00†	0.000	173.288	3500.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
3600.00†	0.000	173.288	3600.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	Delaware Sands
3700.00†	0.000	173.288	3700.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
3800.00†	0.000	173.288	3800.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
3900.00†	0.000	173.288	3900.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
4000.00†	0.000	173.288	4000.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Burton) Sec 6, T20S, R30E	Wellbore	No. 2H PWB
Facility	Burton 6 Fed No. 2H		

WELLPATH DATA (155 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4100.00†	0.000	173.288	4100.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
4200.00†	0.000	173.288	4200.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
4300.00†	0.000	173.288	4300.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
4400.00†	0.000	173.288	4400.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
4500.00†	0.000	173.288	4500.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
4600.00†	0.000	173.288	4600.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
4700.00†	0.000	173.288	4700.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
4800.00†	0.000	173.288	4800.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
4900.00†	0.000	173.288	4900.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
5000.00†	0.000	173.288	5000.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
5100.00†	0.000	173.288	5100.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
5200.00†	0.000	173.288	5200.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
5300.00†	0.000	173.288	5300.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
5400.00†	0.000	173.288	5400.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
5500.00†	0.000	173.288	5500.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
5600.00†	0.000	173.288	5600.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
5700.00†	0.000	173.288	5700.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
5800.00†	0.000	173.288	5800.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
5900.00†	0.000	173.288	5900.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
6000.00†	0.000	173.288	6000.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
6100.00†	0.000	173.288	6100.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
6150.00†	0.000	173.288	6150.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	Bone Spring
6200.00†	0.000	173.288	6200.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
6300.00†	0.000	173.288	6300.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
6400.00†	0.000	173.288	6400.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
6500.00†	0.000	173.288	6500.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
6600.00†	0.000	173.288	6600.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
6700.00†	0.000	173.288	6700.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
6800.00†	0.000	173.288	6800.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
6900.00†	0.000	173.288	6900.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
7000.00†	0.000	173.288	7000.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
7100.00†	0.000	173.288	7100.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
7200.00†	0.000	173.288	7200.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
7300.00†	0.000	173.288	7300.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
7400.00†	0.000	173.288	7400.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
7420.00†	0.000	173.288	7420.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	1st BSS
7500.00†	0.000	173.288	7500.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
7600.00†	0.000	173.288	7600.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
7700.00†	0.000	173.288	7700.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
7800.00†	0.000	173.288	7800.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
7900.00†	0.000	173.288	7900.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
8000.00†	0.000	173.288	8000.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
8100.00†	0.000	173.288	8100.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
8200.00†	0.000	173.288	8200.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	2nd BSS
8300.00†	0.000	173.288	8300.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Burton) Sec 6, T20S, R30E	Wellbore	No. 2H PWB
Facility	Burton 6 Fed No. 2H		

WELLPATH DATA (155 stations) † = interpolated/extrapolated station

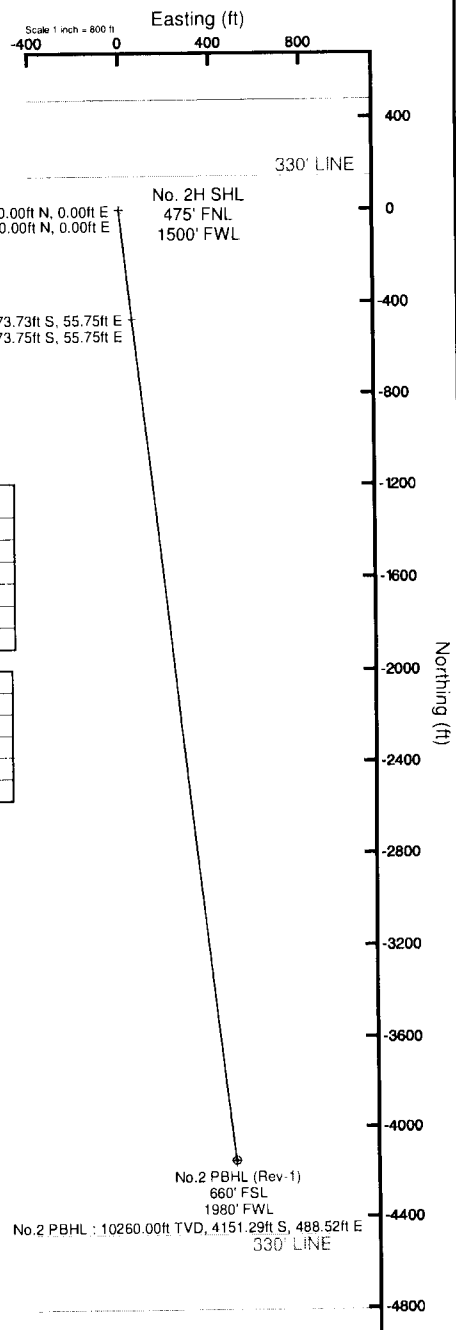
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8400.00†	0.000	173.288	8400.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
8500.00†	0.000	173.288	8500.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
8600.00†	0.000	173.288	8600.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
8700.00†	0.000	173.288	8700.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
8800.00†	0.000	173.288	8800.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
8900.00†	0.000	173.288	8900.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
9000.00†	0.000	173.288	9000.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
9020.00†	0.000	173.288	9020.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	3rd BSS
9100.00†	0.000	173.288	9100.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
9200.00†	0.000	173.288	9200.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
9300.00†	0.000	173.288	9300.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
9400.00†	0.000	173.288	9400.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
9500.00†	0.000	173.288	9500.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	Wolfcamp
9600.00†	0.000	173.288	9600.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
9700.00†	0.000	173.288	9700.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	
9783.00	0.000	173.288	9783.00	0.00	0.00	0.00	639370.01	585205.16	32°36'30.158"N	104°00'53.884"W	0.00	Est KOP
9800.00†	2.042	173.288	9800.00	0.30	-0.30	0.04	639370.05	585204.86	32°36'30.155"N	104°00'53.884"W	12.01	
9900.00†	14.054	173.288	9898.83	14.28	-14.18	1.67	639371.68	585190.98	32°36'30.018"N	104°00'53.865"W	12.01	
9927.19†	17.319	173.288	9925.00	21.63	-21.48	2.53	639372.54	585183.68	32°36'29.945"N	104°00'53.856"W	12.01	Cisco Shale
10000.00†	26.065	173.288	9992.59	48.51	-48.18	5.67	639375.68	585156.98	32°36'29.681"N	104°00'53.820"W	12.01	
10100.00†	38.077	173.288	10077.18	101.51	-100.82	11.86	639381.87	585104.35	32°36'29.160"N	104°00'53.749"W	12.01	
10200.00†	50.089	173.288	10148.88	170.96	-169.79	19.98	639389.99	585035.39	32°36'28.477"N	104°00'53.657"W	12.01	
10300.00†	62.100	173.288	10204.56	253.80	-252.06	29.66	639399.67	584953.12	32°36'27.663"N	104°00'53.546"W	12.01	
10400.00†	74.112	173.288	10241.78	346.42	-344.04	40.49	639410.50	584861.14	32°36'26.753"N	104°00'53.423"W	12.01	
10500.00†	86.124	173.288	10258.91	444.75	-441.71	51.98	639421.99	584763.49	32°36'25.786"N	104°00'53.292"W	12.01	
10532.27	90.000	173.288	10260.00	477.00	-473.73	55.75	639425.76	584731.47	32°36'25.469"N	104°00'53.249"W	12.01	EOC
10532.29	90.000	173.288	10260.00	477.02	-473.75	55.75	639425.76	584731.44	32°36'25.469"N	104°00'53.249"W	2.00	TL
10600.00†	90.000	173.288	10260.00	544.73	-541.00	63.67	639433.67	584664.21	32°36'24.803"N	104°00'53.159"W	0.00	
10700.00†	90.000	173.288	10260.00	644.73	-640.31	75.35	639445.36	584564.90	32°36'23.820"N	104°00'53.026"W	0.00	
10800.00†	90.000	173.288	10260.00	744.73	-739.63	87.04	639457.04	584465.59	32°36'22.837"N	104°00'52.893"W	0.00	
10900.00†	90.000	173.288	10260.00	844.73	-838.94	98.73	639468.73	584366.29	32°36'21.854"N	104°00'52.760"W	0.00	
11000.00†	90.000	173.288	10260.00	944.73	-938.26	110.42	639480.42	584266.98	32°36'20.871"N	104°00'52.626"W	0.00	
11100.00†	90.000	173.288	10260.00	1044.73	-1037.57	122.10	639492.10	584167.67	32°36'19.888"N	104°00'52.493"W	0.00	
11200.00†	90.000	173.288	10260.00	1144.73	-1136.89	133.79	639503.79	584068.37	32°36'18.905"N	104°00'52.360"W	0.00	
11300.00†	90.000	173.288	10260.00	1244.73	-1236.20	145.48	639515.47	583969.06	32°36'17.922"N	104°00'52.227"W	0.00	
11400.00†	90.000	173.288	10260.00	1344.73	-1335.51	157.16	639527.16	583869.75	32°36'16.939"N	104°00'52.094"W	0.00	
11500.00†	90.000	173.288	10260.00	1444.73	-1434.83	168.85	639538.85	583770.45	32°36'15.956"N	104°00'51.961"W	0.00	
11600.00†	90.000	173.288	10260.00	1544.73	-1534.14	180.54	639550.53	583671.14	32°36'14.973"N	104°00'51.828"W	0.00	
11700.00†	90.000	173.288	10260.00	1644.73	-1633.46	192.22	639562.22	583571.84	32°36'13.990"N	104°00'51.694"W	0.00	
11800.00†	90.000	173.288	10260.00	1744.73	-1732.77	203.91	639573.90	583472.53	32°36'13.007"N	104°00'51.561"W	0.00	
11900.00†	90.000	173.288	10260.00	1844.73	-1832.09	215.60	639585.59	583373.22	32°36'12.024"N	104°00'51.428"W	0.00	
12000.00†	90.000	173.288	10260.00	1944.73	-1931.40	227.29	639597.28	583273.92	32°36'11.041"N	104°00'51.295"W	0.00	
12100.00†	90.000	173.288	10260.00	2044.73	-2030.72	238.97	639608.96	583174.61	32°36'10.058"N	104°00'51.162"W	0.00	
12200.00†	90.000	173.288	10260.00	2144.73	-2130.03	250.66	639620.65	583075.30	32°36'09.075"N	104°00'51.029"W	0.00	
12300.00†	90.000	173.288	10260.00	2244.73	-2229.35	262.35	639632.34	582976.00	32°36'08.092"N	104°00'50.896"W	0.00	



Cimarex Energy Co.

Location: Eddy County, NM
Field: (Burton) Sec 6, T20S, R30E
Facility: Burton 6 Fed 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	173.288	0.00	0.00	0.00	0.00	0.00
Est KOP	9783.00	0.000	173.288	9783.00	0.00	0.00	0.00	0.00
EOC	10532.27	90.000	173.288	10260.00	-473.73	55.75	12.01	477.00
TL	10532.29	90.000	173.288	10260.00	-473.75	55.75	2.00	477.02
No. 2 PBHL	14235.20	90.000	173.288	10260.00	-4151.29	488.52	0.00	4179.93

Plot reference wellpath is Rev-A.0

True vertical depths are referenced to Rig on No. 2 SHL (GL)

Grid System: NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet

Measured depths are referenced to Rig on No. 2 SHL (GL)

North Reference: Grid north

Rig on No. 2 SHL (GL) to Mean Sea Level: 3292 feet

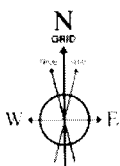
Scale: True distance

Mean Sea Level to Mud line (At Slot: No. 2H SHL): -3292 feet

Depths are in feet

Coordinates are in feet referenced to Slot

Created by: gentbry on 4/18/2012



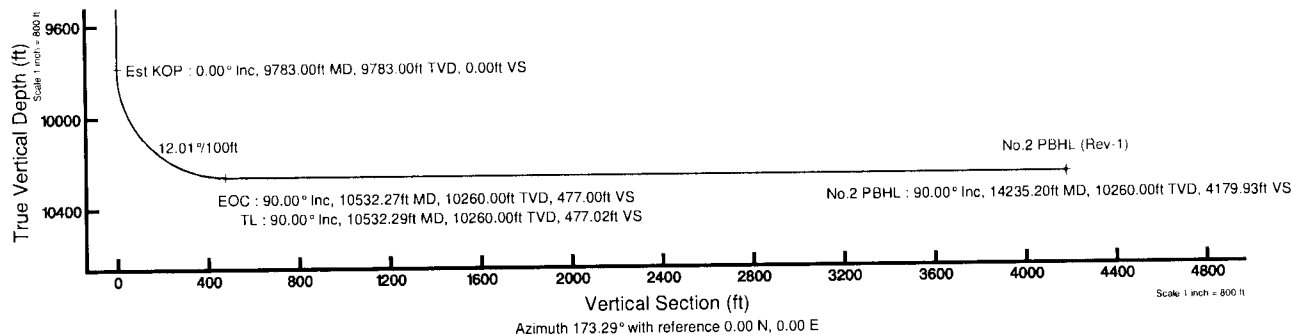
BGCM (1945.0 to 2011.0) Dip: 80.50° Field: 48939.4 nT
Magnetic North is 7.94 degrees East of True North (at 9/21/2010)

Grid North is 0.17 degrees East of True North

To correct azimuth from True to Grid subtract 0.17 degrees

To correct azimuth from Magnetic to Grid add 7.77 degrees

For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = $90 + 7.77 = 97.77$



Azimuth 173.29° with reference 0.00 N, 0.00 E