

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Operator

5. Lease Serial No.
NMNM125166

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other		6. If Indian, Allottee or Tribe Name	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other		7. Unit or CA Agreement Name and No. NMNM127209	
2. Name of Operator CIMAREX ENERGY COMPANY OF CO		8. Lease Name and Well No. INTREPID 3 FEDERAL COM 1	
3. Address 600 NORTH MARIENFELD STREET, SUITE 600 MIDLAND, TX 79701		9. API Well No. 30-015-38979-00-S1	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 3 T19S R30E Mer NMP At surface NWNW 250FNL 990FWL At top prod interval reported below Sec 4 T19S R30E Mer NMP At total depth NWNW 660FNL 1650FWL		10. Field and Pool, or Exploratory LEO	
14. Date Spudded 05/05/2011		15. Date T.D. Reached 06/07/2011	
16. Date Completed ☐ D & A ☒ Ready to Prod. 07/09/2011		17. Elevations (DF, KB, RT, GL)* 3445 GL	
18. Total Depth: MD 13034 TVD 8434		19. Plug Back T.D.: MD 12985 TVD 8432	
20. Depth Bridge Plug Set: MD 8750 TVD 8750		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) DSN DUALLATEROLOG	
22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☒ No ☐ Yes (Submit analysis)			

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0	0	452		535		0	
12.250	9.625 K-55	40.0	0	3203		1290		0	
8.750	5.500 P-110	17.0	0	13034		2200		784	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	8014							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	8627	12972	8627 TO 9316		40	Open, Bone Spring
B)			9543 TO 10232		40	Open, Bone Spring
C)			10459 TO 11148		40	Open, Bone Spring
D)			11374 TO 12060		40	Open, Bone Spring

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8627 TO 9316	159,641 gal 20# Borate XL, 239,587 # 20/40 CRC sand
9543 TO 10232	170,297 gal 20# Borate XL, 249,193 # 20/40 CRC sand
10459 TO 11148	178,047 gal 20# Borate XL, 250,292 # 20/40 CRC sand
11374 TO 12060	176,474 gal 20# Borate XL, 250,034 # 20/40 CRC sand

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/11/2011	08/04/2011	24	→	344.0	194.0	943.0	39.9		ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	280	100.0	→	344	194	943	564	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						SEP 24 2011
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #118089 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

DECLARATION
DUE 1-9-12

ACCEPTED FOR RECORD

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
YATES DELAWARE BONE SPRING	2265 3750 5850			RUSTLER YATES DELAWARE BONE SPRING	375 2265 3750 5850

32. Additional remarks (include plugging procedure):

#24 SHL & BHL NMNM125166
#43 8627-9316 40 holes
#44 8627-9316 Frac'd w/ 159,641 gals 20# Borate XL and 239,587# 20/40 CRC sand Open

Logs will be mailed under separate cover.
Other: Deviation Report, C-102

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #118089 Verified by the BLM Well Information System.
For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad
Committed to AFMSS for processing by KURT SIMMONS on 09/22/2011 (11KMS2602SE)

Name (please print) CAROLYN D LARSON

Title CONTRACT REGULATORY ANALYST

Signature (Electronic Submission)

Date 09/21/2011

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

Additional data for transaction #118089 that would not fit on the form

26. Perforation Record, continued

Perf Interval	Size	No. Holes	Perf Status
12286 TO 12972		40	Open, Bone Spring

27. Acid, Fracture, Treatment, Cement Squeeze, etc., continued

Depth Interval	Amount and Type of Material
12286 TO 12972	179,705 gal 20# Borate XL, 248,894# 20/40 CRC sand

32. Additional remarks, continued

DISTRICT I
1028 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 18, 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

1 AMENDED REPORT

API Number 30-025-38979	Pool Code 37920	Pool Name Leo; Bone Spring, S
Property Code 38599	Property Name INTREPID "3" FEDERAL COM	Well Number 1
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3445'

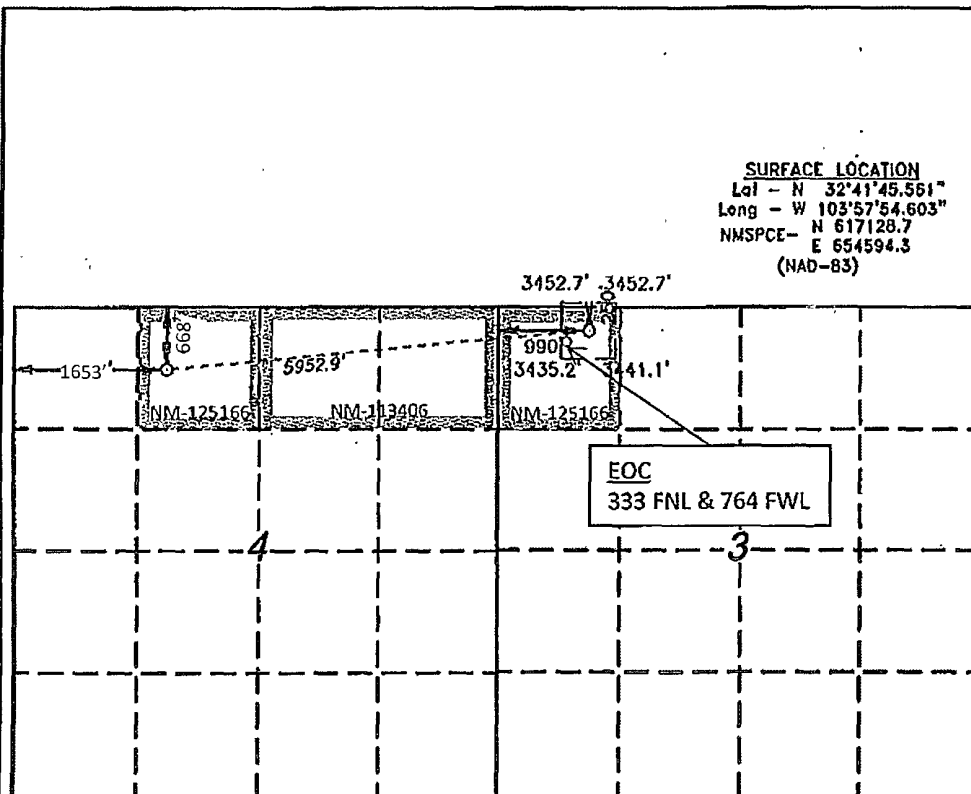
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	3	19 S	30 E		250'	NORTH	990'	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
C	4	19 S	30 E		668	NORTH	1653	WEST	EDDY
Dedicated Acres 161.53	Joint or Infill	Consolidation Code P	Order No. NSL 6378						

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 unEDD'd mineral interest in the land including the proposed bottom hole location or has a right to drill that 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.

Zeno Farris 9/21/11
Signature Date
Zeno Farris
Printed Name
zfarris@cimarex.com
Email Address

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.

SEP 21 2010
Date Surveyed
Signature of Gary L. Jones
Professional Surveyor
Certificate No. Gary L. Jones 7977
BASIN SURVEYS 23360



Actual Wellpath Report

No. 1H AWP

Page 1 of 6



15-38979

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Intrepid) Sec 3, T19S, R30E	Wellbore	No. 1H AWP
Facility	Intrepid 3 Fed Com No. 1H		

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	Calhphik
Scale	0.999924	Report Generated	6/9/2011 at 9:24:19 AM
Convergence at slot	0.20° East	Database/Source file	WA Midland/No. 1H_AWP.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	654594.30	617128.70	32°41'45.561"N	103°57'54.603"W
Facility Reference Pt			654594.30	617128.70	32°41'45.561"N	103°57'54.603"W
Field Reference Pt			654594.30	617128.70	32°41'45.561"N	103°57'54.603"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 1H SHL (RKB) to GL	20.00ft
Horizontal Reference Pt	Slot	Rig on No. 1H SHL (RKB) to Mean Sea Level	3465.00ft
Vertical Reference Pt	Rig on No. 1H SHL (RKB)	Rig on No. 1H SHL (RKB) to Mud Line at Slot (No. 1H SHL)	20.00ft
MD Reference Pt	Rig on No. 1H SHL (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	264.82°



Cimarex Energy Co.

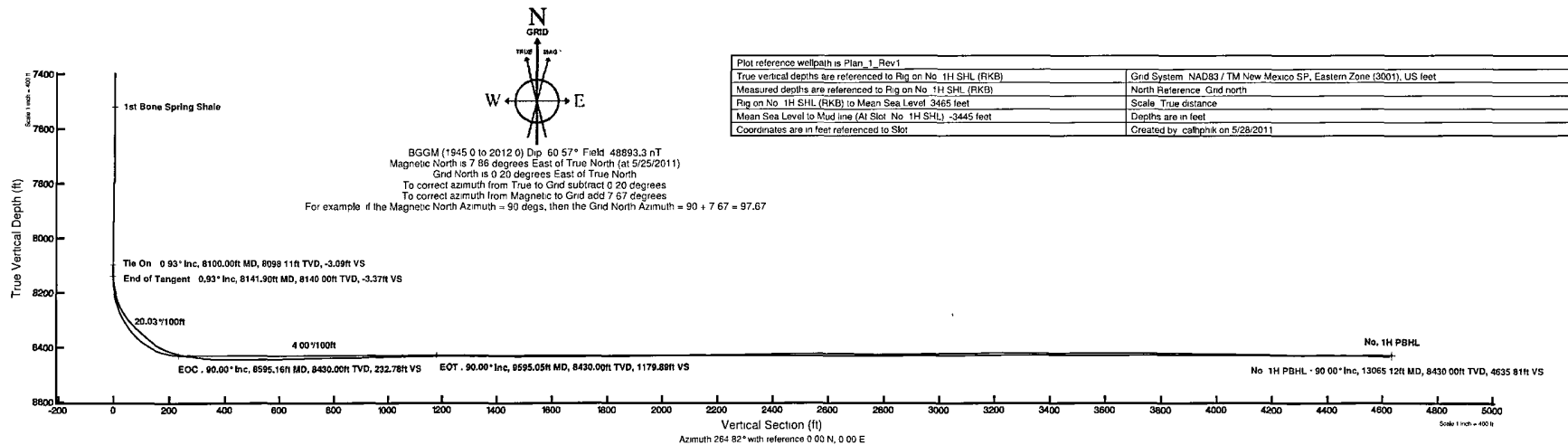
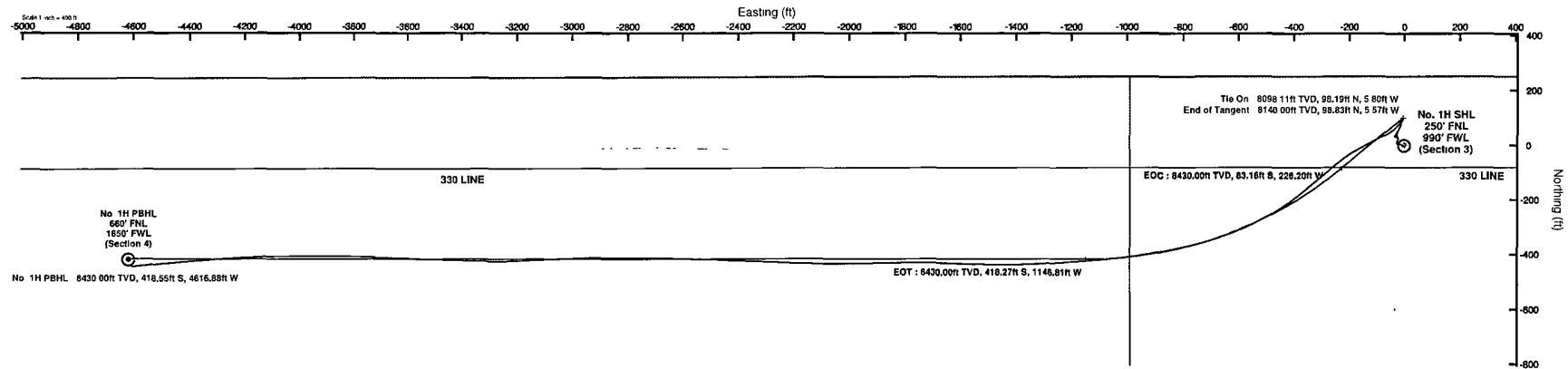
Location: Eddy County, NM
Field: (Intrepid) Sec 3, T19S, R30E
Facility: Intrepid 3 Fed Com No. 1H

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



Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	8100.00	0.930	19.310	8098.11	98.19	-5.80	0.00	-3.09
End of Tangent	8141.90	0.930	19.310	8140.00	98.83	-5.57	0.00	-3.37
EOC	8595.16	90.000	230.000	8430.00	-83.16	-226.20	20.03	232.78
EOT	9595.05	90.000	269.996	8430.00	-418.27	-1146.81	4.00	1179.89
No. 1H PBHL	13065.12	90.000	269.996	8430.00	-418.55	-4616.88	0.00	4635.81





Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Intrepid) Sec 3, T19S, R30E	Wellbore	No. 1H AWP
Facility	Intrepid 3 Fed Com No. 1H		

WELLPATH DATA (192 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	313.440	0.00	0.00	0.00	0.00	654594.30	617128.70	32°41'45.561"N	103°57'54.603"W	0.00	
20.00	0.000	313.440	20.00	0.00	0.00	0.00	654594.30	617128.70	32°41'45.561"N	103°57'54.603"W	0.00	
100.00	0.860	313.440	100.00	0.40	0.41	-0.44	654593.86	617129.11	32°41'45.565"N	103°57'54.609"W	1.08	
200.00	1.720	296.820	199.97	2.17	1.61	-2.32	654591.98	617130.31	32°41'45.577"N	103°57'54.631"W	0.93	
300.00	2.250	288.760	299.91	5.23	2.91	-5.52	654588.78	617131.61	32°41'45.590"N	103°57'54.668"W	0.60	
400.00	2.460	287.000	399.83	9.01	4.17	-9.43	654584.87	617132.87	32°41'45.603"N	103°57'54.714"W	0.22	
500.00	2.500	283.820	499.73	13.06	5.32	-13.60	654580.70	617134.02	32°41'45.614"N	103°57'54.762"W	0.14	
600.00	1.940	278.510	599.66	16.77	6.09	-17.39	654576.91	617134.79	32°41'45.622"N	103°57'54.807"W	0.60	
700.00	1.630	280.460	699.61	19.78	6.60	-20.46	654573.84	617135.30	32°41'45.627"N	103°57'54.843"W	0.32	
800.00	1.350	289.720	799.57	22.22	7.26	-22.97	654571.33	617135.96	32°41'45.634"N	103°57'54.872"W	0.37	
900.00	0.860	300.260	899.56	23.90	8.03	-24.73	654569.57	617136.73	32°41'45.641"N	103°57'54.892"W	0.53	
1000.00	0.730	311.020	999.55	24.95	8.83	-25.86	654568.44	617137.53	32°41'45.649"N	103°57'54.906"W	0.20	
1100.00	0.560	344.740	1099.54	25.48	9.72	-26.47	654567.84	617138.42	32°41'45.658"N	103°57'54.913"W	0.41	
1200.00	0.620	358.570	1199.54	25.53	10.73	-26.61	654567.69	617139.43	32°41'45.668"N	103°57'54.914"W	0.15	
1300.00	0.840	359.920	1299.53	25.43	12.01	-26.62	654567.68	617140.70	32°41'45.681"N	103°57'54.914"W	0.22	
1400.00	0.990	4.060	1399.51	25.23	13.60	-26.56	654567.74	617142.30	32°41'45.697"N	103°57'54.914"W	0.16	
1500.00	1.350	32.690	1499.49	24.36	15.45	-25.87	654568.44	617144.15	32°41'45.715"N	103°57'54.905"W	0.68	
1600.00	1.370	38.740	1599.47	22.81	17.38	-24.48	654569.82	617146.08	32°41'45.734"N	103°57'54.889"W	0.14	
1700.00	1.440	35.550	1699.44	21.16	19.33	-23.00	654571.30	617148.03	32°41'45.753"N	103°57'54.872"W	0.10	
1800.00	1.340	32.230	1799.41	20.17	21.52	-22.21	654572.10	617150.22	32°41'45.775"N	103°57'54.862"W	0.78	
1900.00	1.370	357.570	1899.38	19.94	23.88	-22.19	654572.11	617152.58	32°41'45.798"N	103°57'54.862"W	0.14	
2000.00	1.270	346.330	1999.35	20.05	26.15	-22.50	654571.80	617154.85	32°41'45.821"N	103°57'54.866"W	0.28	
2100.00	1.220	345.450	2099.33	20.39	28.26	-23.03	654571.27	617156.96	32°41'45.842"N	103°57'54.872"W	0.05	
2200.00	1.020	340.670	2199.31	20.78	30.13	-23.60	654570.71	617158.83	32°41'45.860"N	103°57'54.878"W	0.22	
2300.00	1.030	330.120	2299.30	21.37	31.75	-24.34	654569.96	617160.45	32°41'45.876"N	103°57'54.887"W	0.19	
2400.00	0.670	328.530	2399.28	22.01	33.03	-25.09	654569.21	617161.73	32°41'45.889"N	103°57'54.896"W	0.36	
2500.00	0.350	15.710	2499.28	22.16	33.82	-25.31	654568.99	617162.52	32°41'45.897"N	103°57'54.898"W	0.50	
2600.00	0.110	134.190	2599.28	21.98	34.05	-25.16	654569.14	617162.75	32°41'45.899"N	103°57'54.896"W	0.41	
2700.00	0.350	332.200	2699.28	22.04	34.25	-25.24	654569.07	617162.95	32°41'45.901"N	103°57'54.897"W	0.46	
2800.00	0.470	344.250	2799.28	22.23	34.92	-25.49	654568.81	617163.61	32°41'45.907"N	103°57'54.900"W	0.15	
2900.00	0.460	326.780	2899.27	22.50	35.65	-25.82	654568.48	617164.34	32°41'45.915"N	103°57'54.904"W	0.14	
3000.00	0.470	317.190	2999.27	22.94	36.28	-26.32	654567.98	617164.98	32°41'45.921"N	103°57'54.910"W	0.08	
3100.00	0.240	305.810	3099.27	23.34	36.71	-26.77	654567.53	617165.40	32°41'45.925"N	103°57'54.915"W	0.24	
3200.00	0.160	282.650	3199.27	23.63	36.86	-27.07	654567.23	617165.56	32°41'45.927"N	103°57'54.919"W	0.11	
3300.00	0.180	253.390	3299.27	23.92	36.85	-27.36	654566.94	617165.54	32°41'45.927"N	103°57'54.922"W	0.09	
3400.00	0.170	249.200	3399.27	24.22	36.75	-27.65	654566.65	617165.45	32°41'45.926"N	103°57'54.925"W	0.02	
3500.00	0.300	267.520	3499.27	24.62	36.69	-28.05	654566.25	617165.38	32°41'45.925"N	103°57'54.930"W	0.15	
3600.00	0.170	235.890	3599.26	25.01	36.59	-28.43	654565.87	617165.29	32°41'45.924"N	103°57'54.935"W	0.18	
3700.00	0.170	221.080	3699.26	25.25	36.40	-28.65	654565.65	617165.09	32°41'45.922"N	103°57'54.937"W	0.04	
3800.00	0.210	195.010	3799.26	25.42	36.11	-28.80	654565.50	617164.80	32°41'45.919"N	103°57'54.939"W	0.09	
3900.00	0.120	180.840	3899.26	25.50	35.82	-28.85	654565.45	617164.52	32°41'45.917"N	103°57'54.940"W	0.10	
4000.00	0.070	199.420	3999.26	25.53	35.66	-28.87	654565.43	617164.36	32°41'45.915"N	103°57'54.940"W	0.06	
4100.00	0.210	250.040	4099.26	25.74	35.54	-29.06	654565.24	617164.24	32°41'45.914"N	103°57'54.942"W	0.17	
4200.00	0.150	269.090	4199.26	26.04	35.48	-29.37	654564.94	617164.18	32°41'45.913"N	103°57'54.946"W	0.08	
4300.00	0.240	134.300	4299.26	26.04	35.33	-29.35	654564.96	617164.03	32°41'45.912"N	103°57'54.945"W	0.36	



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Intrepid) Sec 3, T19S, R30E	Wellbore	No. 1H AWP
Facility	Intrepid 3 Fed Com No. 1H		

WELLPATH DATA (192 stations)

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
4400.00	0.280	98.070	4399.26	25.66	35.15	-28.96	654565.35	617163.85	32°41'45.910"N	103°57'54.941"W	0.17	
4500.00	0.210	157.680	4499.26	25.37	34.95	-28.64	654565.66	617163.64	32°41'45.908"N	103°57'54.937"W	0.25	
4600.00	0.240	225.790	4599.26	25.48	34.63	-28.72	654565.58	617163.33	32°41'45.905"N	103°57'54.938"W	0.25	
4700.00	0.600	257.490	4699.26	26.16	34.37	-29.39	654564.92	617163.07	32°41'45.902"N	103°57'54.946"W	0.42	
4800.00	1.040	247.180	4799.25	27.55	33.90	-30.73	654563.57	617162.60	32°41'45.898"N	103°57'54.962"W	0.46	
4900.00	1.000	243.300	4899.23	29.22	33.16	-32.35	654561.95	617161.86	32°41'45.890"N	103°57'54.981"W	0.08	
5000.00	0.560	250.250	4999.22	30.51	32.60	-33.59	654560.71	617161.30	32°41'45.885"N	103°57'54.995"W	0.45	
5100.00	0.290	288.700	5099.22	31.21	32.52	-34.29	654560.01	617161.22	32°41'45.884"N	103°57'55.003"W	0.38	
5200.00	0.490	9.920	5199.22	31.33	33.02	-34.45	654559.85	617161.72	32°41'45.889"N	103°57'55.005"W	0.53	
5300.00	0.740	21.560	5299.21	30.93	34.04	-34.14	654560.16	617162.74	32°41'45.899"N	103°57'55.002"W	0.28	
5400.00	0.770	18.880	5399.20	30.37	35.28	-33.69	654560.61	617163.98	32°41'45.911"N	103°57'54.996"W	0.05	
5500.00	0.860	10.700	5499.19	29.89	36.65	-33.33	654560.97	617165.35	32°41'45.925"N	103°57'54.992"W	0.15	
5600.00	0.830	11.040	5599.18	29.48	38.10	-33.05	654561.25	617166.80	32°41'45.939"N	103°57'54.989"W	0.03	
5700.00	0.740	17.280	5699.17	29.03	39.43	-32.72	654561.58	617168.13	32°41'45.952"N	103°57'54.985"W	0.12	
5800.00	0.890	24.740	5799.16	28.40	40.75	-32.21	654562.10	617169.45	32°41'45.965"N	103°57'54.979"W	0.18	
5900.00	0.930	30.090	5899.15	27.54	42.16	-31.47	654562.83	617170.86	32°41'45.979"N	103°57'54.970"W	0.09	
6000.00	0.890	40.460	5999.14	26.52	43.45	-30.56	654563.74	617172.15	32°41'45.992"N	103°57'54.959"W	0.17	
6100.00	0.790	32.910	6099.13	25.54	44.62	-29.69	654564.62	617173.32	32°41'46.004"N	103°57'54.949"W	0.15	
6200.00	0.840	31.890	6199.12	24.67	45.82	-28.92	654565.38	617174.52	32°41'46.016"N	103°57'54.940"W	0.05	
6300.00	2.040	30.830	6299.08	23.18	47.97	-27.62	654566.68	617176.67	32°41'46.037"N	103°57'54.925"W	1.20	
6400.00	2.290	31.130	6399.01	20.95	51.21	-25.68	654568.62	617179.91	32°41'46.069"N	103°57'54.902"W	0.25	
6500.00	2.570	28.670	6498.92	18.52	54.89	-23.57	654570.73	617183.58	32°41'46.105"N	103°57'54.877"W	0.30	
6600.00	2.610	27.710	6598.82	16.03	58.87	-21.44	654572.87	617187.57	32°41'46.144"N	103°57'54.852"W	0.06	
6700.00	2.500	24.150	6698.72	13.73	62.88	-19.49	654574.82	617191.57	32°41'46.184"N	103°57'54.829"W	0.19	
6800.00	2.800	20.600	6798.61	11.60	67.15	-17.73	654576.57	617195.85	32°41'46.226"N	103°57'54.808"W	0.34	
6900.00	2.800	19.820	6898.49	9.50	71.74	-16.05	654578.26	617200.43	32°41'46.271"N	103°57'54.788"W	0.04	
7000.00	2.350	16.900	6998.39	7.70	76.00	-14.62	654579.68	617204.69	32°41'46.314"N	103°57'54.771"W	0.47	
7100.00	1.760	15.270	7098.33	6.39	79.44	-13.62	654580.68	617208.13	32°41'46.348"N	103°57'54.760"W	0.59	
7200.00	1.430	12.300	7198.29	5.48	82.14	-12.95	654581.35	617210.83	32°41'46.374"N	103°57'54.752"W	0.34	
7300.00	1.300	20.550	7298.26	4.61	84.42	-12.29	654582.01	617213.12	32°41'46.397"N	103°57'54.744"W	0.24	
7400.00	1.200	19.350	7398.24	3.69	86.47	-11.54	654582.76	617215.17	32°41'46.417"N	103°57'54.735"W	0.10	
7500.00	1.180	12.080	7498.21	2.95	88.47	-10.98	654583.32	617217.16	32°41'46.437"N	103°57'54.728"W	0.15	
7600.00	1.060	14.560	7598.20	2.33	90.37	-10.53	654583.77	617219.06	32°41'46.456"N	103°57'54.723"W	0.13	
7700.00	0.930	13.460	7698.18	1.76	92.05	-10.11	654584.19	617220.75	32°41'46.472"N	103°57'54.718"W	0.13	
7800.00	1.060	40.040	7798.17	0.84	93.55	-9.33	654584.97	617222.24	32°41'46.487"N	103°57'54.709"W	0.47	
7900.00	1.260	40.490	7898.15	-0.60	95.10	-8.02	654586.28	617223.79	32°41'46.502"N	103°57'54.693"W	0.20	
8000.00	1.110	39.610	7998.12	-2.07	96.68	-6.69	654587.61	617225.37	32°41'46.518"N	103°57'54.678"W	0.15	
8100.00	0.930	19.310	8098.11	-3.09	98.19	-5.80	654588.50	617226.88	32°41'46.533"N	103°57'54.667"W	0.40	
8161.00	9.400	216.200	8158.86	0.01	94.63	-8.59	654585.72	617223.32	32°41'46.498"N	103°57'54.700"W	16.87	
8190.00	16.500	214.300	8187.10	4.20	89.31	-12.31	654581.99	617218.00	32°41'46.445"N	103°57'54.744"W	24.52	
8225.00	24.200	215.800	8219.89	12.07	79.37	-19.32	654574.98	617208.06	32°41'46.347"N	103°57'54.826"W	22.05	
8254.00	30.200	222.700	8245.68	21.39	69.18	-27.75	654566.55	617197.87	32°41'46.247"N	103°57'54.925"W	23.34	
8289.00	36.100	231.500	8274.99	36.56	56.27	-41.81	654552.49	617184.96	32°41'46.119"N	103°57'55.090"W	21.72	
8316.00	41.100	237.600	8296.09	51.11	46.55	-55.54	654538.76	617175.25	32°41'46.024"N	103°57'55.251"W	23.25	
8353.00	47.100	242.900	8322.66	74.53	33.85	-77.90	654516.40	617162.54	32°41'45.899"N	103°57'55.514"W	19.02	



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Intrepid) Sec 3, T19S, R30E	Wellbore	No. 1H AWB
Facility	Intrepid 3 Fed Com No. 1H		

WELLPATH DATA (192 stations)

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
8377.00	49.000	242.900	8338.70	91.09	25.72	-93.79	654500.52	617154.41	32°41'45.819"N	103°57'55.700"W	7.92	
8417.00	49.500	241.200	8364.81	119.03	11.51	-120.56	654473.75	617140.21	32°41'45.679"N	103°57'56.014"W	3.45	
8445.00	54.900	241.000	8381.97	139.27	0.82	-139.92	654454.39	617129.52	32°41'45.574"N	103°57'56.241"W	19.29	
8480.00	62.900	241.800	8400.03	166.75	-13.50	-166.21	654428.10	617115.20	32°41'45.433"N	103°57'56.549"W	22.94	
8509.00	69.500	239.400	8411.73	190.93	-26.53	-189.31	654405.01	617102.17	32°41'45.305"N	103°57'56.820"W	23.98	
8539.00	75.000	234.200	8420.88	216.12	-42.18	-213.19	654381.13	617086.52	32°41'45.151"N	103°57'57.100"W	24.66	
8572.00	81.000	230.900	8427.74	243.40	-61.81	-238.79	654355.53	617066.90	32°41'44.958"N	103°57'57.400"W	20.64	
8607.00	83.500	229.400	8432.46	271.91	-84.03	-265.41	654328.91	617044.68	32°41'44.739"N	103°57'57.713"W	8.31	
8636.00	83.900	229.500	8435.64	295.42	-102.77	-287.31	654307.01	617025.94	32°41'44.554"N	103°57'57.970"W	1.42	
8671.00	85.700	230.000	8438.81	323.95	-125.29	-313.92	654280.41	617003.42	32°41'44.332"N	103°57'58.282"W	5.34	
8700.00	86.400	230.000	8440.81	347.70	-143.88	-336.08	654258.25	616984.83	32°41'44.149"N	103°57'58.542"W	2.41	
8735.00	88.400	230.400	8442.40	376.47	-166.26	-362.94	654231.39	616962.45	32°41'43.929"N	103°57'58.857"W	5.83	
8764.00	90.000	231.400	8442.80	400.53	-184.55	-385.44	654208.89	616944.16	32°41'43.748"N	103°57'59.121"W	6.51	
8799.00	90.400	233.700	8442.68	430.12	-205.83	-413.22	654181.11	616922.89	32°41'43.539"N	103°57'59.447"W	6.67	
8828.00	89.800	235.700	8442.63	455.20	-222.59	-436.89	654157.44	616906.13	32°41'43.374"N	103°57'59.725"W	7.20	
8862.00	89.800	238.000	8442.75	485.23	-241.18	-465.36	654128.98	616887.54	32°41'43.191"N	103°58'00.059"W	6.76	
8889.00	89.800	240.100	8442.84	509.54	-255.06	-488.51	654105.83	616873.66	32°41'43.054"N	103°58'00.330"W	7.78	
8923.00	90.400	242.200	8442.78	540.68	-271.47	-518.29	654076.05	616857.25	32°41'42.893"N	103°58'00.679"W	6.42	
8956.00	91.500	243.600	8442.24	571.29	-286.50	-547.66	654046.68	616842.22	32°41'42.745"N	103°58'01.023"W	5.39	
8987.00	92.200	245.800	8441.24	600.38	-299.74	-575.67	654018.68	616828.98	32°41'42.615"N	103°58'01.352"W	7.44	
9019.00	91.800	247.900	8440.12	630.80	-312.31	-605.07	653989.27	616816.41	32°41'42.492"N	103°58'01.696"W	6.68	
9051.00	91.100	249.700	8439.31	661.55	-323.88	-634.90	653959.45	616804.85	32°41'42.378"N	103°58'02.046"W	6.03	
9083.00	90.700	251.100	8438.81	692.53	-334.61	-665.04	653929.31	616794.11	32°41'42.273"N	103°58'02.399"W	4.55	
9114.00	90.500	252.700	8438.48	722.75	-344.24	-694.50	653899.85	616784.49	32°41'42.179"N	103°58'02.744"W	5.20	
9146.00	90.600	254.200	8438.17	754.11	-353.36	-725.17	653869.18	616775.37	32°41'42.090"N	103°58'03.103"W	4.70	
9178.00	90.500	255.800	8437.87	785.64	-361.64	-756.08	653838.28	616767.09	32°41'42.009"N	103°58'03.465"W	5.01	
9209.00	90.000	256.800	8437.73	816.30	-368.98	-786.20	653808.16	616759.75	32°41'41.937"N	103°58'03.818"W	3.61	
9241.00	90.300	257.800	8437.65	848.03	-376.01	-817.41	653776.95	616752.71	32°41'41.869"N	103°58'04.184"W	3.26	
9273.00	90.900	258.300	8437.31	879.80	-382.64	-848.72	653745.65	616746.09	32°41'41.804"N	103°58'04.550"W	2.44	
9305.00	91.300	258.900	8436.70	911.61	-388.96	-880.08	653714.29	616739.77	32°41'41.743"N	103°58'04.917"W	2.25	
9337.00	91.700	259.900	8435.86	943.45	-394.85	-911.52	653682.85	616733.88	32°41'41.686"N	103°58'05.285"W	3.36	
9368.00	91.800	260.800	8434.91	974.34	-400.04	-942.07	653652.30	616728.69	32°41'41.635"N	103°58'05.643"W	2.92	
9400.00	91.600	261.700	8433.96	1006.27	-404.91	-973.68	653620.69	616723.82	32°41'41.588"N	103°58'06.013"W	2.88	
9432.00	90.800	262.700	8433.29	1038.22	-409.25	-1005.38	653589.00	616719.48	32°41'41.546"N	103°58'06.384"W	4.00	
9464.00	90.700	263.500	8432.88	1070.21	-413.09	-1037.15	653557.23	616715.64	32°41'41.509"N	103°58'06.756"W	2.52	
9496.00	90.800	264.200	8432.46	1102.20	-416.52	-1068.96	653525.42	616712.21	32°41'41.476"N	103°58'07.129"W	2.21	
9528.00	90.800	265.200	8432.01	1134.20	-419.48	-1100.82	653493.57	616709.26	32°41'41.448"N	103°58'07.501"W	3.12	
9559.00	90.400	266.000	8431.69	1165.19	-421.86	-1131.73	653462.66	616706.88	32°41'41.426"N	103°58'07.863"W	2.89	
9591.00	90.200	265.900	8431.52	1197.18	-424.12	-1163.65	653430.75	616704.62	32°41'41.405"N	103°58'08.237"W	0.70	
9623.00	89.300	266.100	8431.66	1229.18	-426.35	-1195.57	653398.83	616702.39	32°41'41.384"N	103°58'08.610"W	2.88	
9655.00	88.800	265.700	8432.19	1261.17	-428.64	-1227.48	653366.92	616700.10	32°41'41.362"N	103°58'08.984"W	2.00	
9686.00	89.500	266.000	8432.65	1292.16	-430.88	-1258.40	653336.00	616697.86	32°41'41.341"N	103°58'09.346"W	2.46	
9718.00	89.800	266.700	8432.84	1324.15	-432.92	-1290.33	653304.07	616695.82	32°41'41.322"N	103°58'09.720"W	2.38	
9749.00	90.200	267.500	8432.84	1355.12	-434.48	-1321.29	653273.11	616694.25	32°41'41.307"N	103°58'10.082"W	2.89	
9781.00	90.700	268.000	8432.59	1387.08	-435.74	-1353.26	653241.14	616692.99	32°41'41.296"N	103°58'10.456"W	2.21	



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Intrepid) Sec 3, T19S, R30E	Wellbore	No. 1H AWP
Facility	Intrepid 3 Fed Com No. 1H		

WELLPATH DATA (192 stations)

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
9813.00	90.100	268.400	8432.37	1419.02	-436.75	-1385.25	653209.16	616691.99	32°41'41.287"N	103°58'10.830"W	2.25	
9844.00	89.000	268.900	8432.61	1449.95	-437.48	-1416.24	653178.17	616691.26	32°41'41.281"N	103°58'11.193"W	3.90	
9876.00	89.200	270.300	8433.11	1481.83	-437.70	-1448.23	653146.18	616691.04	32°41'41.280"N	103°58'11.567"W	4.42	
9908.00	89.400	271.500	8433.51	1513.65	-437.20	-1480.22	653114.19	616691.54	32°41'41.286"N	103°58'11.942"W	3.80	
9940.00	89.800	271.600	8433.73	1545.43	-436.33	-1512.21	653082.21	616692.40	32°41'41.296"N	103°58'12.316"W	1.29	
9971.00	89.600	271.200	8433.89	1576.23	-435.57	-1543.20	653051.22	616693.16	32°41'41.304"N	103°58'12.679"W	1.44	
10003.00	90.100	272.000	8433.98	1608.00	-434.68	-1575.19	653019.23	616694.05	32°41'41.314"N	103°58'13.053"W	2.95	
10035.00	90.600	272.400	8433.78	1639.74	-433.45	-1607.16	652987.26	616695.28	32°41'41.327"N	103°58'13.427"W	2.00	
10067.00	90.700	272.000	8433.42	1671.47	-432.22	-1639.14	652955.29	616696.51	32°41'41.340"N	103°58'13.801"W	1.29	
10098.00	90.700	271.800	8433.04	1702.23	-431.20	-1670.12	652924.31	616697.54	32°41'41.352"N	103°58'14.164"W	0.65	
10162.00	91.000	270.800	8432.09	1765.81	-429.74	-1734.10	652860.34	616698.99	32°41'41.368"N	103°58'14.912"W	1.63	
10226.00	90.100	269.200	8431.47	1829.55	-429.74	-1798.09	652796.35	616698.99	32°41'41.370"N	103°58'15.661"W	2.87	
10289.00	90.100	268.700	8431.36	1892.38	-430.90	-1861.08	652733.37	616697.84	32°41'41.361"N	103°58'16.398"W	0.79	
10353.00	91.000	269.000	8430.75	1956.22	-432.18	-1925.06	652669.39	616696.55	32°41'41.351"N	103°58'17.147"W	1.48	
10417.00	90.700	269.500	8429.80	2020.02	-433.02	-1989.05	652605.41	616695.71	32°41'41.344"N	103°58'17.895"W	0.91	
10480.00	90.700	270.100	8429.03	2082.78	-433.24	-2052.04	652542.42	616695.49	32°41'41.344"N	103°58'18.633"W	0.95	
10544.00	91.000	270.300	8428.08	2146.49	-433.02	-2116.04	652478.43	616695.72	32°41'41.349"N	103°58'19.381"W	0.56	
10607.00	90.700	271.800	8427.15	2209.11	-431.86	-2179.02	652415.45	616696.87	32°41'41.362"N	103°58'20.118"W	2.43	
10671.00	91.300	272.600	8426.03	2272.57	-429.41	-2242.96	652351.52	616699.33	32°41'41.389"N	103°58'20.866"W	1.56	
10735.00	91.000	273.100	8424.75	2335.93	-426.22	-2306.87	652287.61	616702.51	32°41'41.422"N	103°58'21.614"W	0.91	
10798.00	90.900	272.000	8423.70	2398.35	-423.42	-2369.79	652224.69	616705.31	32°41'41.452"N	103°58'22.350"W	1.75	
10862.00	90.800	271.900	8422.75	2461.84	-421.24	-2433.75	652160.74	616707.49	32°41'41.476"N	103°58'23.099"W	0.22	
10926.00	90.600	272.300	8421.97	2525.32	-418.90	-2497.70	652096.79	616709.83	32°41'41.501"N	103°58'23.847"W	0.70	
10990.00	89.900	272.400	8421.69	2588.77	-416.28	-2561.65	652032.85	616712.46	32°41'41.529"N	103°58'24.595"W	1.10	
11053.00	89.100	271.300	8422.24	2651.29	-414.24	-2624.61	651969.89	616714.49	32°41'41.552"N	103°58'25.332"W	2.16	
11117.00	89.400	270.600	8423.08	2714.92	-413.18	-2688.60	651905.91	616715.55	32°41'41.564"N	103°58'26.080"W	1.19	
11181.00	89.800	270.700	8423.52	2778.59	-412.45	-2752.59	651841.92	616716.28	32°41'41.574"N	103°58'26.829"W	0.64	
11244.00	89.600	269.900	8423.85	2841.30	-412.12	-2815.59	651778.93	616716.61	32°41'41.579"N	103°58'27.566"W	1.31	
11308.00	90.500	269.600	8423.80	2905.06	-412.40	-2879.59	651714.94	616716.33	32°41'41.578"N	103°58'28.315"W	1.48	
11372.00	90.600	269.000	8423.18	2968.86	-413.19	-2943.58	651650.95	616715.55	32°41'41.573"N	103°58'29.064"W	0.95	
11436.00	90.600	267.900	8422.51	3032.73	-414.92	-3007.55	651586.98	616713.82	32°41'41.558"N	103°58'29.813"W	1.72	
11499.00	90.600	267.300	8421.85	3095.65	-417.55	-3070.49	651524.05	616711.18	32°41'41.534"N	103°58'30.549"W	0.95	
11563.00	90.300	267.500	8421.35	3159.58	-420.46	-3134.42	651460.12	616708.28	32°41'41.507"N	103°58'31.297"W	0.56	
11627.00	89.700	268.600	8421.35	3223.48	-422.64	-3198.39	651396.16	616706.10	32°41'41.488"N	103°58'32.046"W	1.96	
11691.00	89.600	269.800	8421.74	3287.29	-423.53	-3262.38	651332.18	616705.20	32°41'41.481"N	103°58'32.795"W	1.88	
11754.00	89.300	271.000	8422.35	3349.99	-423.09	-3325.37	651269.19	616705.64	32°41'41.487"N	103°58'33.532"W	1.96	
11818.00	89.900	271.900	8422.79	3413.56	-421.47	-3389.35	651205.22	616707.26	32°41'41.506"N	103°58'34.280"W	1.69	
11882.00	90.400	271.800	8422.63	3477.08	-419.40	-3453.31	651141.26	616709.33	32°41'41.528"N	103°58'35.029"W	0.80	
11945.00	90.000	271.900	8422.41	3539.60	-417.37	-3516.28	651078.29	616711.36	32°41'41.550"N	103°58'35.765"W	0.65	
12008.00	89.900	272.400	8422.46	3602.09	-415.01	-3579.24	651015.34	616713.73	32°41'41.576"N	103°58'36.502"W	0.81	
12072.00	90.200	272.100	8422.41	3665.55	-412.49	-3643.19	650951.40	616716.24	32°41'41.603"N	103°58'37.250"W	0.66	
12136.00	90.300	271.900	8422.13	3729.05	-410.26	-3707.15	650887.44	616718.47	32°41'41.627"N	103°58'37.999"W	0.35	
12200.00	90.000	271.600	8421.96	3792.58	-408.31	-3771.12	650823.48	616720.43	32°41'41.649"N	103°58'38.747"W	0.66	
12263.00	89.000	271.200	8422.51	3855.16	-406.77	-3834.10	650760.50	616721.97	32°41'41.666"N	103°58'39.484"W	1.71	
12327.00	89.100	270.600	8423.57	3918.79	-405.76	-3898.08	650696.53	616722.97	32°41'41.678"N	103°58'40.233"W	0.95	



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Intrepid) Sec 3, T19S, R30E	Wellbore	No. 1H AWB
Facility	Intrepid 3 Fed Com No. 1H		

WELLPATH DATA (192 stations)

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
12390.00	89.200	270.000	8424.50	3981.50	-405.43	-3961.07	650633.54	616723.30	32°41'41.683"N	103°58'40.970"W	0.97	
12454.00	89.500	269.300	8425.23	4045.27	-405.82	-4025.06	650569.55	616722.91	32°41'41.682"N	103°58'41.718"W	1.19	
12517.00	89.600	268.400	8425.73	4108.11	-407.09	-4088.05	650506.57	616721.64	32°41'41.671"N	103°58'42.456"W	1.44	
12580.00	89.600	267.900	8426.17	4171.00	-409.12	-4151.01	650443.61	616719.61	32°41'41.653"N	103°58'43.192"W	0.79	
12644.00	89.500	267.100	8426.67	4234.93	-411.91	-4214.95	650379.68	616716.82	32°41'41.628"N	103°58'43.941"W	1.26	
12708.00	89.600	266.100	8427.17	4298.89	-415.71	-4278.84	650315.80	616713.02	32°41'41.592"N	103°58'44.688"W	1.57	
12771.00	89.200	265.700	8427.83	4361.88	-420.21	-4341.67	650252.97	616708.52	32°41'41.550"N	103°58'45.424"W	0.90	
12835.00	89.000	265.300	8428.84	4425.87	-425.23	-4405.47	650189.18	616703.50	32°41'41.502"N	103°58'46.170"W	0.70	
12898.00	88.700	265.000	8430.10	4488.85	-430.56	-4468.23	650126.42	616698.18	32°41'41.451"N	103°58'46.905"W	0.67	
12962.00	88.400	264.500	8431.72	4552.83	-436.41	-4531.94	650062.72	616692.32	32°41'41.396"N	103°58'47.651"W	0.91	
12982.00	88.400	264.300	8432.28	4572.82	-438.36	-4551.83	650042.82	616690.37	32°41'41.377"N	103°58'47.884"W	1.00	
13034.00	88.400	264.300	8433.73	4624.80	-443.53	-4603.56	649991.10	616685.21	32°41'41.328"N	103°58'48.489"W	0.00	Project to Bit

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TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No. 1H PBHL		8430.00	-418.55	-4616.88	649977.78	616710.19	32°41'41.575"N	103°58'48.644"W	point

WELLPATH COMPOSITION - Ref Wellbore: No. 1H AWB - Ref Wellpath: No. 1H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	8100.00	NaviTrak (Standard)	Gyro	No. 1H AWB
8100.00	13034.00	NaviTrak (Standard)	MWD	No. 1H AWB

Operator: Cimarex Energy Co. of Colorado
Well/Lease: Intrepid 3 Federal Com No. 1
API Number: 30-025-38979
County: Lea County, NM

State of New Mexico
Deviation Report

428'	1.00
934'	1.00
1388'	1.00
1860'	1.00
2120'	2.00
2583'	2.00
3045'	2.00
3222'	1.00
3615'	1.00
4060'	1.00
4491'	1.00
4937'	1.00
5395'	1.00
5852'	1.00
6275'	1.00
6658'	1.00
7105'	1.00
7551'	1.00
8007'	1.00
7441"	1.00
8718'	1.00

State of: TEXAS
County of: MIDLAND

The foregoing instrument was acknowledged before me on Sept. 16, 2011
on behalf of Key Energy Services

Vickie L. Elkington
Notary Public For:
My Commission Expires:

