

11/21/2015	12/23/2014	NSP	PMAM1435760343
12/21/2015	12/23/2014	NSL	PMAM1435052712
DATE IN	DATE OUT	TYPE	APP NO.

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 _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ 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.

Terri Stathem

Signature

Title

Date

e-mail Address

Manager Regulatory 11-24-14

tstathem@Cimarex.com

NSP 206
 - NSL 6378-A
 - Cimarex ENCHYOR
 COLUMADA
 162683
 Wey
 - Intrepid 3 Federal
 Com #1
 30-015-38979
 Pool
 - Leo, Bone Springs
 South



New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John H. Bemis
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey
Division Director
Oil Conservation Division



May 31, 2011

Mr. James Bruce
P.O. Box 1056
Santa Fe, NM 87504

Administrative Order NSL-6378

**Re: Cimarex Energy Co. of Colorado
Intrepid Federal Com. Well No. 1
API No. 30-015-38979
250 feet FNL & 990 feet FWL
Unit D, Section 3-19S-30E
Eddy County**

Dear Mr. Bruce:

Reference is made to the following:

(a) your application (**administrative application reference No. pTGW11-12430009**) submitted to the New Mexico Oil Conservation Division (the Division) in Santa Fe, New Mexico, on behalf of Cimarex Energy Co. of Colorado (Cimarex) [OGRID 162683], on April 29, 2011, and

(b) the Division's records pertinent to this request.

Cimarex has requested to drill the above-referenced well as a horizontal well in the Bone Spring formation, at a location that will be unorthodox under Division Rule 16.14.B(2) [19.15.16.14.B(2) NMAC]. The proposed surface location, point of penetration and terminus of the well are as follows:

Surface Location: 250 feet from the North line and 990 feet from the West line
(Unit D) of Section 3, Township 19 South, Range 30 East, NMPM,
Eddy County, New Mexico

Point of Penetration: 262 feet from the North line and 943 feet from the West line
(Unit D) of said Section 3

Oil Conservation Division
1220 South St. Francis Drive • Santa Fe, New Mexico 87505
Phone (505) 476-3440 • Fax (505) 476-3462 • www.emnrd.state.nm.us/OCD

A

Terminus 660 feet from the North line and 1650 feet from the West line
(Unit C) of Section 4 of said township and range

Lot 4 (NW/4 NW/4 equivalent) of Section 3 and Lots 1 through 3 (N/2 NE/4 and NE/4 NW/4 equivalent) of Section 4 will be dedicated to the proposed well to form a project area comprising four standard 40-acre, more or less, oil spacing units in the South Leo Bone Spring Pool (37920). This pool is governed by statewide Rule 15.9 [19.15.15.9 NMAC], which provides for 40-acre units, with wells located at least 330 feet from a unit outer boundary. This location is unorthodox because a portion of the producing interval will be less than 330 feet from the northern boundary of the project area, and therefore outside the producing area.

Your application has been duly filed under the provisions of Division Rules 15.13 [19.15.15.13 NMAC] and 4.12.A(2) [19.15.4.12.A(2) NMAC].

It is our understanding that you are seeking this location to avoid interference with an existing pipeline.

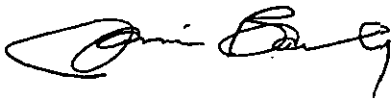
It is also understood that you have given due notice of this application to all operators or owners who are "affected persons," as defined in Rule 4.12.A(2) [19.15.4.12.A(2)], in all adjoining units towards which the proposed location encroaches.

Pursuant to the authority conferred by Division Rule 15.13.B [19.15.15.13.B NMAC], the above-described unorthodox location is hereby approved.

This approval is subject to your being in compliance with all other applicable Division rules, including, but not limited to Division Rule 5.9 [19.15.5.9 NMAC].

Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,



Jami Bailey
Director

JB/db

cc: New Mexico Oil Conservation Division - Artesia
 United States Bureau of Land Management



MODRALL SPERLING

L A W Y E R S

December 23, 2014

Via Email

Jennifer L. Bradfute
505.848.1845
Fax: 505.848.1882
jlb@modrall.com

Jami Bailey
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 for its Intrepid "3" Federal Com 1, API 30-015-38979 drilled from a surface location and penetration point 250 feet from the North line and 990 feet from the West line of Section 3 to a bottom hole location 660 feet from the North line and 1650 feet from the West line of Section 4, Township 19 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.*

Dear Ms. Bailey:

Cimarex Energy Co. of Colorado ("Cimarex") (OGRID No. 251099) is seeking administrative approval under Division Rules 19.15.15.13(C) and 19.15.16.14(B)(2) NMAC for an unorthodox well location for its Intrepid "3" Federal Com 1 Well, API 30-015-38979, which is a horizontal well located in Sections 3 and 4, Township 19 South, Range 30 East, N.M.P.M., Eddy County, New Mexico. Cimarex is filing this application because, as discussed below, it would like to perforate the well in a non-standard location in Section 3. This well has been drilled to test the Bone Spring formation (South Leo-Bone Spring Pool) and is located as follows:

- Surface Location: 250 feet from the North line and 990 feet from the West line of Section 3;
- Bottom Hole Location: 660 feet from the North line and 1650 feet from the West line of Section 4;
- Well Unit: Lot 4 in Section 3 and Lots 1-3 in Section 4 of Township 19 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.

The location of above Well Unit was due to topographical reasons. As stated in a prior non-standard location application for this well, submitted to the NMOCD on April 29, 2011, the well is located to the north of open mine

Modrall Sperling
Roehl Harris & Sisk P.A.

Bank of America Centre
500 Fourth Street NW
Suite 1000
Albuquerque,
New Mexico 87102

PO Box 2168
Albuquerque,
New Mexico 87103-2168

Tel: 505.848.1800
www.modrall.com

workings and must remain within one-half mile of them. Attached as Exhibit A is a copy Cimarex's April 29, 2011 NSL Application and the NMOCD May 31, 2011 Order, which also contains this information. As a result, the well was located in part of Lot 4 of Section 3. Administrative Order NSL-6378 states that, "Lot 4 (NW/4 NW/4) of Section 3 and Lots 1 through 3 (N/2 NE/4 and NE/4 NW/4 equivalent) of Section 4 will be dedicated to the proposed well to form a project area comprising four standard 40-acre, more or less, oil spacing units in the South Leo Bone Spring Pool (37920)."

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. Cimarex is filing this application because it would like to perforate the well in a non-standard location in Section 3. The proposed perforation point and producing interval for the well is as follows:

- Penetration Point in the Bone Spring: 162.53 feet from the North line and 943 feet from the West line of Section 3
- Beginning of Producing Interval: 162.53 feet from the North line and 943 feet from the West line of Section 3
- End of Producing Interval: 660 feet from the North line of Section 3 and 1650 feet from the West line of Section 4.

NSU
On May 31, 2011, a non-standard perforation point of 262 feet from the North line and 943 feet of the West line of Section 3 was approved by the NMOCDC. However after the well was drilled, directional data indicated that the well deviated which is why Cimarex is now seeking permission to perforate the well at 162.53 feet from the North line of Section 3. Attached as Exhibit B is the "as drilled" C-102 for the well.

Attached as Exhibit C, is a plat which shows the subject spacing unit for this well and all adjoining spacing units or leases. The plat shows that Yates Petroleum Corporation, CFM Oil LLC and Linn Operating Inc. are offset operators. These operators have been notified of this application.

Exhibit D is the list of persons who are entitled to notice under Subsection A of 19.15.4.12 NMCA. Copies of this application, including all attachments, have been mailed to each affected person and offset operator via certified mail-return receipt requested, pursuant to Rule 19.15.4.12A(2)(a). Each person entitled to notice has been informed that if it has an objection to this application, the objection must be filed in writing with the Division's Santa Fe office within twenty (20) days from the date this notice was mailed.

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

Page 3

Sincerely,



Jennifer L. Bradfute

JLB/sjh

Enclosures

cc: District 2 NMOCD Office

NSP

McMillan, Michael, EMNRD

From: Jennifer L. Bradfute <jlb@modrall.com>
Sent: Tuesday, February 10, 2015 10:53 AM
To: McMillan, Michael, EMNRD
Cc: Earl E. DeBrine
Subject: RE: Non-Standard Project Area Designation - Intrepid 3 Fed. Com. 1 Well

Thank you Mr. McMillan,

Yes. The Intrepid 3 Federal Com 1 well was drilled in 2011 before the horizontal well rule was enacted. The project area established in 2011 consists of Lot 4 in Section 3 and Lots 1-3 in Section 4, Township 19 South, Range 30 East, N.M.P.M., Eddy County, New Mexico but did not include the NW/4 NW/4 of Section 4 because the operator in the NW/4 NW/4, Yates Petroleum, did not want to join the Joint Operating Agreement at that time. Yates has informed Cimarex that it will be drilling a horizontal well through the NW/4 NW/4 and will be developing that acreage.

Thank you,
Jennifer Bradfute



Jennifer L. Bradfute
Modrall Sperling | www.modrall.com
P.O. Box 2168 | Albuquerque, NM 87103-2168
500 4th St. NW, Ste. 1000 | Albuquerque, NM 87102
D: 505.848.1845 | O: 505.848.1800 | F: 505.848.1891

From: McMillan, Michael, EMNRD [<mailto:Michael.McMillan@state.nm.us>]
Sent: Tuesday, February 10, 2015 10:27 AM
To: Jennifer L. Bradfute
Subject: RE: Non-Standard Project Area Designation - Intrepid 3 Fed. Com. 1 Well

Ms. Bradfute:

Have you gotten a response from Cimarex about the stranded acreage for this well? The application can be written tomorrow.

Thank You
Michael McMillan

Any U.S. federal tax advice contained herein (including any attachments), unless specifically stated otherwise, is not intended or written to be used, and cannot be used, for the purposes of (i) avoiding penalties under the Internal Revenue Code or (ii) promoting, marketing or recommending to another party any transaction or matter herein.

Modrall, Sperling, Roehl, Harris & Sisk, P.A. THIS MESSAGE IS INTENDED ONLY FOR THE USE OF

DISTRICT I
1020 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

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

Form C-102
Revised July 16, 2010

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-38979	Pool Code 37920	Pool Name Leo; Bone Spring, S
Property Code	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		660'	NORTH	1650'	WEST	EDDY

Dedicated Acres 161.53	Joint or Infill	Consolidation Code P	Order No. NSL 6378
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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

PROPOSED BOTTOM HOLE LOCATION Lat - N 32°41'41.68" Long - W 103°58'48.64" NMSPC - N 618710.187 E 649977.701 (NAD-83)	SURFACE LOCATION Lat - N 32°41'45.581" Long - W 103°57'54.803" NMSPC - N 617128.7 E 654594.3 (NAD-83)
EXHIBIT B	

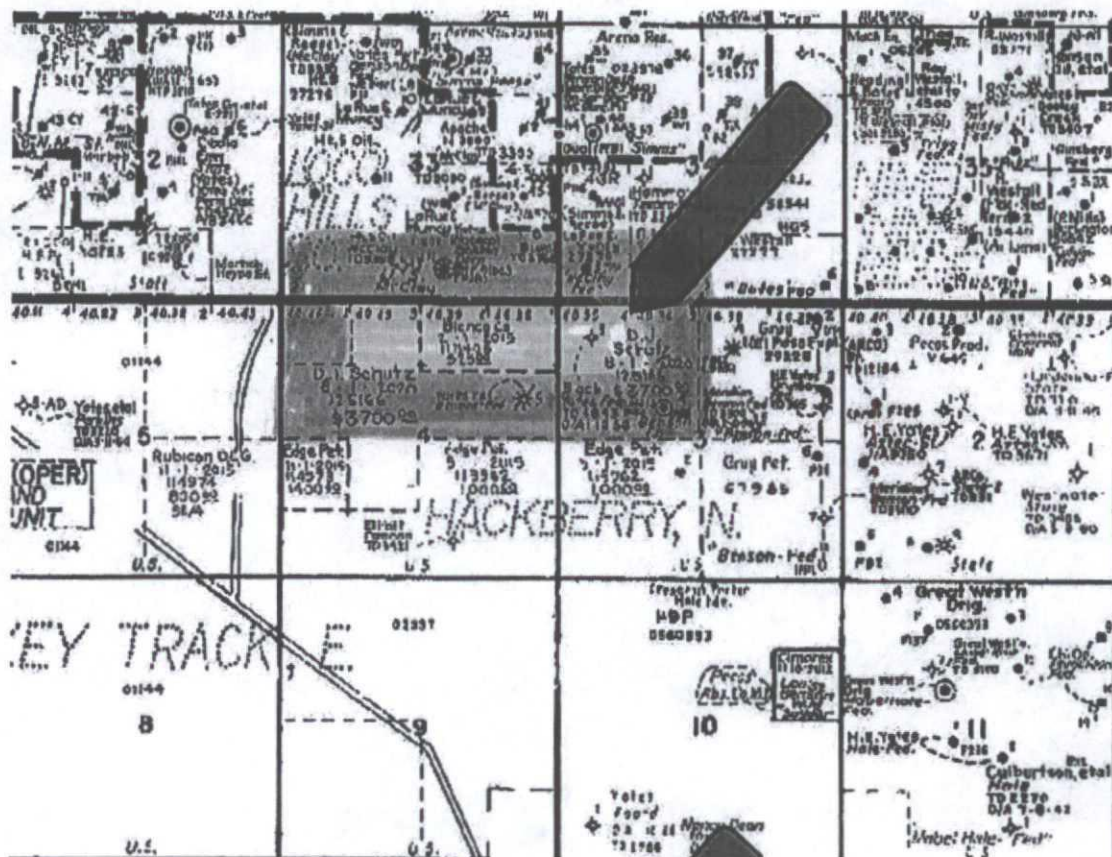
OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unshared mineral interest in the land including the proposed bottom hole location or has a right to drill 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.

Zeno Farris 9/20/2011
Signature Date
Printed Name
zfarris@clmarex.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 20 2011
Date Surveyed
Signature of Professional Surveyor
Certificate No. Gary L. Jones 7977
BASIN SURVEYS 23360

OFFSET MAPCO
Intrepid 3 Fed Com 1
Secs. 3 & 4 -T19S-R30E
EDDY CO. NM



EXHIBIT

C

EXHIBIT D

INTREPID 3 FED COM 1

Sec. 3 & 4-T19S-R30E

Eddy County, NM

Offset Operators

1. Yates Petroleum Corporation
105-S. 4th Street
Artesia, New Mexico 88210
2. CFM Oil LLC
P.O. Box 1176
Artesia, New Mexico 88210
3. Linn Operating Inc.
600 Travis Suite 5100
Houston, TX 77002

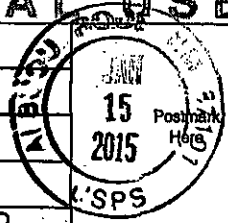
9704 0866 0000 0090 E102

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$6.48

Sent To
CHUCK MORAN, YATES PETROLEUM
Street, Apt. No.,
or PO Box No. 10544 S.
City, State, ZIP+4
ACTESIA NM 88210

PS Form 3800, August 2006

See Reverse for Instructions





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 AWB
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_AWB.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.

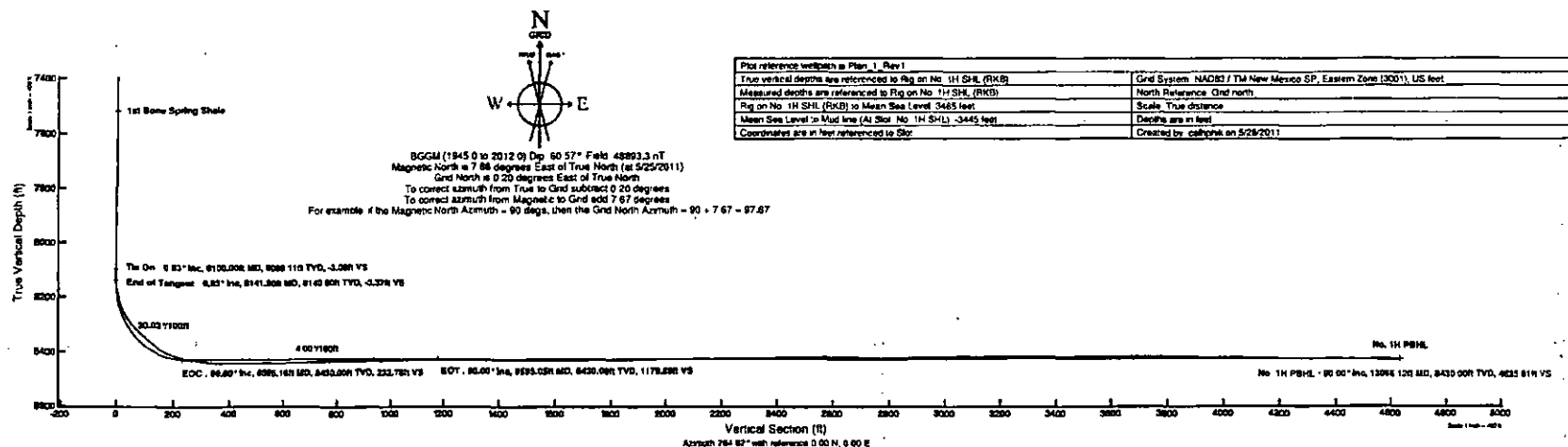
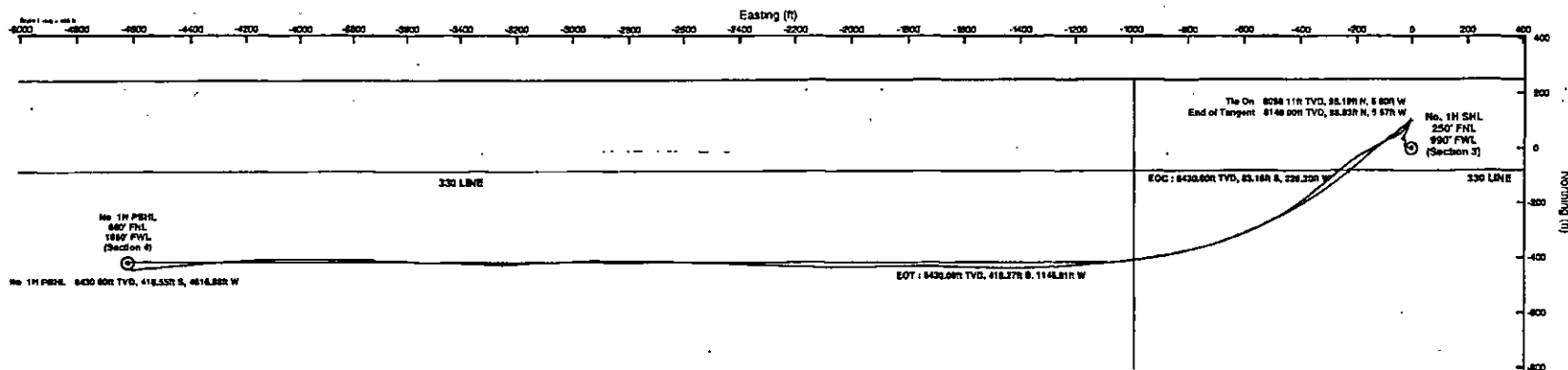
Location: Eddy County, NM
Field: (Intrepid) Sec 3, T19S, R30E
Facility: Intrepid 3 Fed Com No. 1H

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	269.998	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

Page 2 of 6



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) = 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	3.52	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	22.62	7.26	-22.97	654571.30	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	32.740	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	33.280	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	0.51	
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	253.090	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	334.300	4299.26	26.04	35.93	-29.35	654564.96	617164.03	32°41'45.912"N	103°57'54.945"W	0.36	



Actual Wellpath Report

No. 1H AWP

Page 3 of 6



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	1.0740	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	247.40	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	1.2040	30.830	6299.08	23.18	47.97	-27.62	654566.68	617176.67	32°41'46.037"N	103°57'54.925"W	0.20	
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	-15.73	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	1.08	93.55	-9.53	654584.97	617222.23	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

Page 4 of 6



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
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	-189.81	654405.01	617102.17	32°41'45.305"N	103°57'56.820"W	28.98	
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	320.95	-125.29	-313.92	654280.41	617003.42	32°41'44.332"N	103°57'58.282"W	15.31	
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	233.700	8442.63	455.20	-222.59	-436.89	654157.44	616900.13	32°41'43.374"N	103°57'59.723"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	
8899.00	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	-353.86	-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	91.500	258.900	8436.70	911.61	-388.96	-880.08	653713.29	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	653398.89	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	653241.13	616692.99	32°41'41.296"N	103°58'10.456"W	2.21	



Actual Wellpath Report

No. 1H AWP

Page 5 of 6



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
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	-1512.20	653082.19	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	10.65	
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	10.91	
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	271.500	8422.24	2651.29	-414.24	-2624.63	651969.89	616714.49	32°41'41.552"N	103°58'25.342"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	8423.88	2968.86	-413.19	-2943.58	651650.95	616715.55	32°41'41.578"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	8420.74	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	616710.73	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
Page 6 of 6



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]
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

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



MODRALL SPERLING

L A W Y E R S

January 15, 2015

VIA CERTIFIED MAIL -
RETURN RECEIPT REQUESTED

Jennifer L. Bradfute
505.848.1845
Fax: 505.848.1882
jlb@modrall.com

TO AFFECTED PARTIES

Re: Notification of Cimarex Energy Co. of Colorado designation of a non-standard project area for its Intrepid "3" Federal Com 1, API 30-015-38979 drilled from a surface location and penetration point 250 feet from the North line and 990 feet from the West line of Section 3 to a bottom hole location 660 feet from the North line and 1650 feet from the West line of Section 4, Township 19 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.

Ladies and Gentlemen:

Cimarex Energy Co. of Colorado ("Cimarex") (OGRID No. 251099) is seeking administrative approval under Division Rules 19.15.16.7(L), (M) and 19.15.16.15(E) NMAC for a non-standard project area for its Intrepid "3" Federal Com 1 Well, API 30-015-38979, which is a horizontal well located in Sections 3 and 4, Township 19 South, Range 30 East, N.M.P.M., Eddy County, New Mexico. This well has been drilled to test the Bone Spring formation (South Leo-Bone Spring Pool) and is located as follows:

- **Proposed Project Area:** Lot 4 in Section 3 and Lots 1-3 in Section 4 of Township 19 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.
- **Surface Location:** 250 feet from the North line and 990 feet from the West line of Section 3;
- **Bottom Hole Location:** 660 feet from the North line and 1650 feet from the West line of Section 4;
- **Penetration Point in the Bone Spring:** 162.53 feet from the North line and 943 feet from the West line of Section 3;
- **Beginning of Producing Interval:** 162.53 feet from the North line and 943 feet from the West line of Section 3; and
- **End of Producing Interval:** 660 feet from the North line of Section 3 and 1650 feet from the West line of Section 4.

This well was drilled in 2011 and the location of above Proposed Project Area created was due to topographical reasons. The NW/4 NW/4 of Section 4 in

Modrall Sperling
Reehl Harris & Sisk P.A.

Bank of America Centre
500 Fourth Street NW
Suite 1000
Albuquerque,
New Mexico 87102

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Page 2

Township 19 South, Range 30 East, N.M.P.M., Eddy County, New Mexico is not included in the project area created for this well.

Any protests that you have to the designation of this proposed project area must be in writing and mailed within twenty days after the date of this notice to Cimarex at the below address.

Terri Stathem
Manager – Regulatory Compliance
Cimarex Energy Co.
202 S. Cheyenne Ave. Suite 1000
Tulsa, OK 74103-3001
Phone: 432-620-1936

If no protests are received within twenty days, this non-standard project area may be administratively approved by the Division. Please contact me should you have any questions concerning this notice.

Sincerely,



Jennifer L. Bradfute

Attorney for Cimarex Energy Co. of