

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

OCD Artesia

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM124659
2. Name of Operator CIMAREX ENERGY COMPANY OF CO		6. If Indian, Allottee or Tribe Name
Contact: TRACIE J CHERRY E-Mail: tcherry@cimarex.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 600 NORTH MARIENFELD STREET SUITE 600 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-620-1959	8. Well Name and No. BURTON 6 FEDERAL 2
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 6 T20S R30E NENW 475FNL 1500FWL		9. API Well No. 30-015-38486-00-X1
		10. Field and Pool, or Exploratory PARKWAY WC, Cisco (97851)
		11. County or Parish, and State EDDY COUNTY, NM

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

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

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Cimarex Energy Co. respectfully requests permission to revise the drilling plan for the referenced well.

Total depth will change to 14235 MD, 10260 TVD. No pilot hole will be drilled. Bottomhole location and EOC & Beginning of Productive interval have changed. Surface Hole location remains as permitted.

Proposed completion is Wildcat Cisco (originally permitted for Parkway; Bone Spring). New directional plan and casing & cementing program are attached.

Work will begin upon approval of Sundry.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL****RECEIVED**

AUG 14 2012

NMOCD ARTESIA

Accepted for record

14. I hereby certify that the foregoing is true and correct		NMOCD 8/15/2012
Electronic Submission #144750 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 08/03/2012 (12KMS2710SE)		
Name (Printed/Typed)	TRACIE J CHERRY	Title
		SR REGULATORY ANALYST
Signature	(Electronic Submission)	Date
		08/03/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>CHRISTOPHER WALLS</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>08/10/2012</u>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office <u>Carlsbad</u>

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

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

Additional data for EC transaction #144750 that would not fit on the form

32. Additional remarks, continued

BHL: 660' FSL & 1980' FWL

EOC/Top producing interval: 494' FNL & 1556' FWL

DISTRICT I
1000 E. Franklin St., Santa Fe, NM 87503

DISTRICT II
1001 W. Central Avenue, Santa Fe, NM 87503

DISTRICT III
1000 E. Central Ave., Santa Fe, NM 87503

DISTRICT IV
1001 E. Central Ave., Santa Fe, NM 87503

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1280 South St. Francis Dr.
Santa Fe, New Mexico 87505

RECEIVED

AUG 14 2012

Form E-108
Revised July 14, 2010
Please send copy to appropriate District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-38486	Pool Code 97851	Pool Name Wildcat; Cisco
Property Code	Property Name BURTON "6" FEDERAL	Well Number 2
Owner No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3292'

Surface Location

UL or Lot No.	Section	Township	Range	Lot No.	Feet from the	North/South Line	Feet from the	East/West Line	County
C	6	20 S	30 E		475	NORTH	1500	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or Lot No.	Section	Township	Range	Lot No.	Feet from the	North/South Line	Feet from the	East/West Line	County
N	6	20 S	30 E		660	SOUTH	1980	WEST	EDDY

Dedicated Acres 317.95	Joint or Initial	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

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Drilling Plan
Burton 6 Federal No. 2
Cimarex Energy Co. of Colorado
Unit C, Section 6
T20S-R30E, Eddy County, NM
API 015-38486

Proposed Mud Circulating System:

Depth		Mud Wt	Visc	Fluid Loss	Type Mud
0'	to 320'	8.4 - 9.0	28	NC	FW
320'	to 1600'	10.0	28	NC	Brine water
1600'	to 3500'	8.4 - 9.0	28	NC	FW
3500'	to 10260'	9.0	30-32	NC	Cut Brine
9783'	to 14235'	12.5	50-60	NC	OBM

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

Proposed drilling Plan

Drill 8-3/4" hole to 9783' kickoff point, then drill 6-1/8" lateral to TD (14235' MD, 10260' TVD). Run 7" 26# P-110 LT&C from 0-10437'. Run 4½" liner from 10237'-14235'.

Drilling Plan
Burton 6 Federal No. 2
Cimarex Energy Co. of Colorado
Unit C, Section 6
T20S-R30E, Eddy County, NM
API 015-38486

Casing & Cementing Program:

String	Hole Size	Depth	Casing OD	Weight	Collar	Grade
Surface 1	26"	0' to 320'	New 20"	94#	BTC	H-40
Surface 2	17½"	0' to 1600'	New 13¾"	54.5#	STC	J/K-55
Intermediate	12¼"	0' to 3500'	New 9¾"	36#	LTC	J/K-55
Production	8¾"	0' to 10437'	New 7"	26#	LTC	P-110
Liner	6⅞"	10237' to 14235'	New 4½"	11.6#	LTC	P-110

Cementing:

Surface 1 865 sx Class C (wt 14.8, yld 1.34)
TOC Surface

Surface 2 Lead: 990sx 65:35 C: Poz + 5% salt (wt 12.9, yld 1.88)
Tail: 275 sx Class C (wt 14.8, yld 1.34)
TOC Surface

Intermediate 1st Stage: Lead: 440 sx 65:35 C: Poz (wt 12.9, yld 1.97)
Tail: 250 sx Class C (wt 14.8, yld 1.34)
2nd Stage: Lead: 390sx 65:35 C: Poz (wt. 12.9, yld 1.97)
Tail: 100sx Class C (wt 14.8, 1.34 yld)
DV Tool & ECP @ 1700-1800', Top of Tail @ 2800'

Production Lead: 700 sx 50:50 Poz H + 10% gel (wt 11.9, yld 2.44)
Tail: 200 sx 50:50 Poz: H (wt 14.5, yld 1.22)
TOC 1500'

Liner Tail: 450sx 50:50 Poz: H (wt 14.5, yld 1.22)

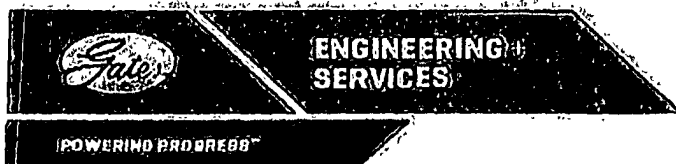
Fresh water zones will be protected by setting 20" casing at 320' and 13¾" casing at 1600' and cementing to surface. Hydrocarbon zones will be protected by setting 9¾" casing at 3500' and cementing to surface, and by setting 7" casing at 10437", and 4-1/2" liner 10237' - 14235' and cementing.

<u>Collapse Factor</u>	<u>Burst Factor</u>	<u>Tension Factor</u>
1.125	1.125	1.6

Pressure control Equipment:

BOPS will be tested by an independent service company to 250 psi low and 5000 psi high. Hydril will be tested to 250 psi low and 5000 psi high.

Cimarex Energy Co. of Colorado requests a variance to use a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.



GATES E & S NORTH AMERICA, INC
DU-TEX
134 44TH STREET
CORPUS CHRISIT, TEXAS 78405

PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe&s@gates.com
WEB: www.gates.com

GRADE E PRESSURE TEST CERTIFICATE

Customer.:	SPECIALTY SALES	Test Date :	3/13/2012
Customer Ref. :	44479S	Certificate No. :	D-031312-2
Invoice No. :	184955	Created By :	RORY BOYD

Product Description: 10K3.542.0CK41/1610K FLANGES

End Fitting 1 :	4 1/16 10K FLANGE	End Fitting 2 :	4 1/16 10K FLANGE
Gates Part No. :	4773-6291	Hose Serial No. :	U31853011112D-031312-2
Assembly Code :	U31853011112	Test Pressure :	15,000 PSI
Working Pressure :	10,000 PSI		

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to API 7K requirements and passed the hydrostatic test per API Spec 7K, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

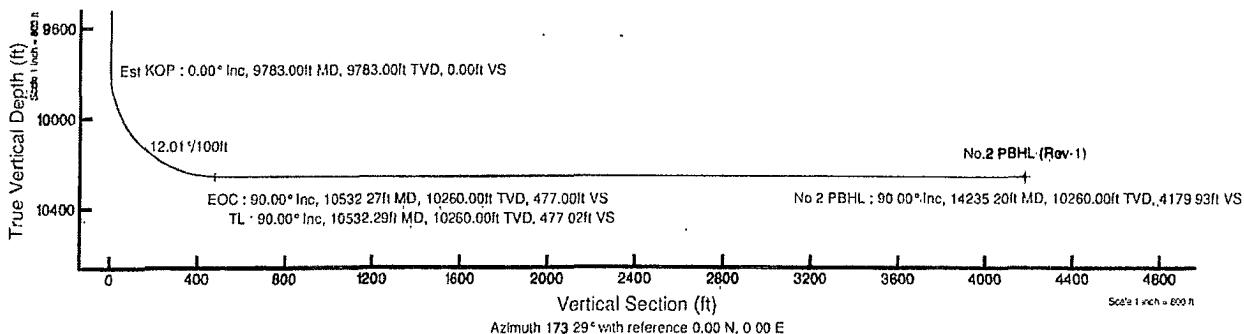
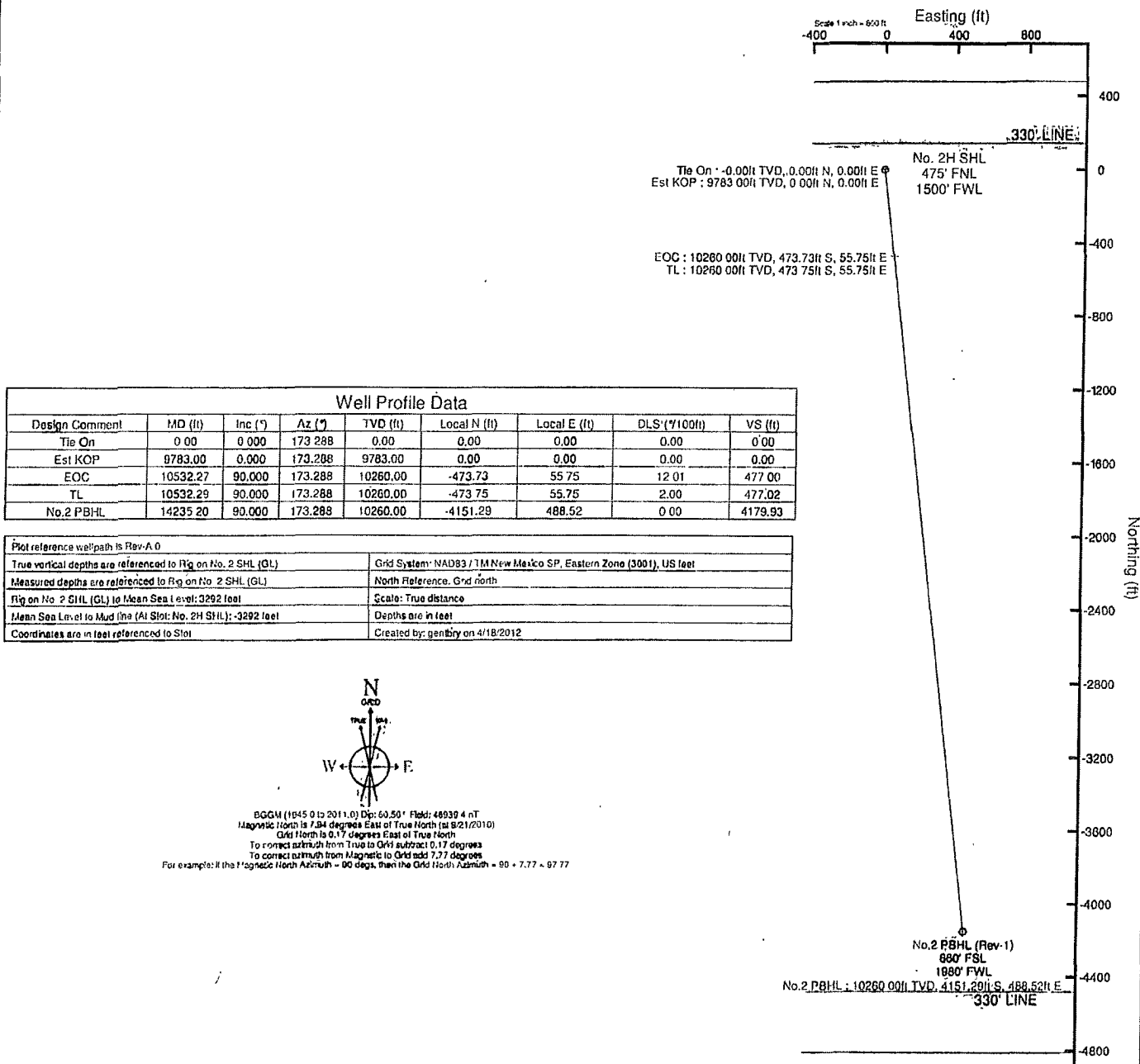
Technician :	JOE R.	Technical Supervisor :	RAM V.
Date :	3/13/2012	Date :	3/13/2012
Signature :		Signature :	
Quality Manager :	RORY B.	Testing Operator :	MARK M.
Date :	3/13/2012	Date :	3/13/2012
Signature :		Signature :	



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





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	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cinarex 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 RSS
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	



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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
12400.00†	90.000	173.288	10260.00	2344.73	-2328.66	274.03	639644.02	582876.69	32°36'07.109"N	104°00'50.763"W	0.00	
12500.00†	90.000	173.288	10260.00	2444.73	-2427.98	285.72	639655.71	582777.38	32°36'06.126"N	104°00'50.629"W	0.00	
12600.00†	90.000	173.288	10260.00	2544.73	-2527.29	297.41	639667.39	582678.08	32°36'05.143"N	104°00'50.496"W	0.00	
12700.00†	90.000	173.288	10260.00	2644.73	-2626.61	309.09	639679.08	582578.77	32°36'04.160"N	104°00'50.363"W	0.00	
12800.00†	90.000	173.288	10260.00	2744.73	-2725.92	320.78	639690.77	582479.46	32°36'03.177"N	104°00'50.230"W	0.00	
12900.00†	90.000	173.288	10260.00	2844.73	-2825.24	332.47	639702.45	582380.16	32°36'02.194"N	104°00'50.097"W	0.00	
13000.00†	90.000	173.288	10260.00	2944.73	-2924.55	344.16	639714.14	582280.85	32°36'01.211"N	104°00'49.964"W	0.00	
13100.00†	90.000	173.288	10260.00	3044.73	-3023.86	355.84	639725.82	582181.54	32°36'00.228"N	104°00'49.831"W	0.00	
13200.00†	90.000	173.288	10260.00	3144.73	-3123.18	367.53	639737.51	582082.24	32°35'59.245"N	104°00'49.698"W	0.00	
13300.00†	90.000	173.288	10260.00	3244.73	-3222.49	379.22	639749.20	581982.93	32°35'58.262"N	104°00'49.564"W	0.00	
13400.00†	90.000	173.288	10260.00	3344.73	-3321.81	390.90	639760.88	581883.62	32°35'57.279"N	104°00'49.431"W	0.00	
13500.00†	90.000	173.288	10260.00	3444.73	-3421.12	402.59	639772.57	581784.32	32°35'56.296"N	104°00'49.298"W	0.00	
13600.00†	90.000	173.288	10260.00	3544.73	-3520.44	414.28	639784.25	581685.01	32°35'55.313"N	104°00'49.165"W	0.00	
13700.00†	90.000	173.288	10260.00	3644.73	-3619.75	425.97	639795.94	581585.70	32°35'54.330"N	104°00'49.032"W	0.00	
13800.00†	90.000	173.288	10260.00	3744.73	-3719.07	437.65	639807.63	581486.40	32°35'53.347"N	104°00'48.899"W	0.00	
13900.00†	90.000	173.288	10260.00	3844.73	-3818.38	449.34	639819.31	581387.09	32°35'52.364"N	104°00'48.766"W	0.00	
14000.00†	90.000	173.288	10260.00	3944.73	-3917.70	461.03	639831.00	581287.78	32°35'51.381"N	104°00'48.633"W	0.00	
14100.00†	90.000	173.288	10260.00	4044.73	-4017.01	472.71	639842.68	581188.48	32°35'50.397"N	104°00'48.500"W	0.00	
14200.00†	90.000	173.288	10260.00	4144.73	-4116.33	484.40	639854.37	581089.17	32°35'49.414"N	104°00'48.366"W	0.00	
14235.20	90.000	173.288	10260.00	4179.93	-4151.29	488.52	639858.48	581054.21	32°35'49.068"N	104°00'48.320"W	0.00	No. 2H PWB

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No. 2 PBHL (Rev-0)		8275.00	-4481.39	488.41	639858.38	580724.14	32°35'45.802"N	104°00'48.332"W	point
1) No. 2 PBHL (Rev-1)	14235.20	10260.00	-4151.29	488.52	639858.48	581054.21	32°35'49.068"N	104°00'48.320"W	point

SURVEY PROGRAM					Ref Wellbore: No. 2H PWB	Ref Wellpath: Rev-A.0
Start MD [ft]	End MD [ft]	Positional Uncertainty Model			Log Name/Comment	Wellbore
0.00	14235.20	NaviTrak (Standard)				No. 2H PWB

CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CIMAREX ENERGY CO. OF COLORADO
LEASE NO.:	NM124659
WELL NAME & NO.:	BURTON 6 FEDERAL #2
SURFACE HOLE FOOTAGE:	0475' FNL & 1500' FWL
BOTTOM HOLE FOOTAGE:	0660' FSL & 1980' FWL
LOCATION:	Section 6, T. 20 S., R 30 E., NMPM
COUNTY:	Eddy County, New Mexico

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. **Although Hydrogen Sulfide has not been reported in this section, it is always a potential hazard. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
4. **The record of the drilling rate along with the GR/N well log run from TD to surface will be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.**

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

High cave potential.

Secretary's Potash

Possible water flows in the Artesia and Salado Groups.

Possible lost circulation in the Capitan Reef.

1. The 20 inch surface casing shall be set at approximately 320 feet (a minimum of 25 above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **13-3/8** inch intermediate casing is:
 - ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash and cave/karst.
3. The minimum required fill of cement behind the **9-5/8** inch 2nd intermediate casing is:
 - a. First stage to DV tool:
 - ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
 - b. Second stage above DV tool:
 - ☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to the Capitan Reef.**
4. The minimum required fill of cement behind the **7** inch production casing is:
 - ☒ Cement should tie-back at least **50 feet above the Capitan Reef** (Top of cement 1500'). Operator shall provide method of verification.
5. The minimum required fill of cement behind the **4-1/2** inch production liner is:
 - ☒ No cement required. Peak completion assembly being used.
6. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. **A variance will be granted for the use of a diverter on the 20" surface casing.**
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **13-3/8** inch intermediate casing shoe shall be **5000 (5M) psi.**

4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - c. The results of the test shall be reported to the appropriate BLM office.
 - d. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
 - e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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