

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011

Permit 279960

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706		2. OGRID Number 4323
		3. API Number 30-015-46930
4. Property Code 327345	5. Property Name CB BERU 23 14 FEE 06	6. Well No. 403H

7. Surface Location

UL - Lot P	Section 23	Township 23S	Range 28E	Lot Idn P	Feet From 470	N/S Line S	Feet From 825	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot H	Section 14	Township 23S	Range 28E	Lot Idn H	Feet From 2615	N/S Line S	Feet From 330	E/W Line E	County Eddy
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9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220
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Additional Well Information

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 2996
16. Multiple N	17. Proposed Depth 17451	18. Formation Wolfcamp	19. Contractor	20. Spud Date 5/1/2020
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	450	350	0
Int1	12.25	9.625	43.5	2600	635	0
Prod	8.75	7	29	8650	800	2300
Liner1	6.25	4.5	11.6	17451	860	8450

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3500	TBD
Blind	10000	6650	TBD
Pipe	10000	6650	TBD

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.		OIL CONSERVATION DIVISION	
Signature:			
Printed Name:	Electronically filed by Laura Becerra	Approved By:	Raymond Podany
Title:	Regulatory Specialist	Title:	Geologist
Email Address:	LBecerra@chevron.com	Approved Date:	3/27/2020
Date:	3/26/2020	Phone:	432-687-7665
		Expiration Date:	3/27/2022
		Conditions of Approval Attached	

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code	⁵ Property Name CB BERU 23 14 FEE 06	⁶ Well Number 403H
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	⁹ Elevation 2996'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	23	23 SOUTH	28 EAST, N.M.P.M.		470'	SOUTH	825'	EAST	EDDY

¹¹ 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
H	14	23 SOUTH	28 EAST, N.M.P.M.		2615'	SOUTH	330'	EAST	EDDY

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

¹⁶ LAST TAKE POINT X= 587,489' Y= 474,608' LAT. 32.304497° N LONG. 104.050167° W NAD 27 X= 628,672' Y= 474,668' LAT. 32.304618° N LONG. 104.050661° W NAD83/86 MID POINT X= 587,471' Y= 472,300' LAT. 32.298153° N LONG. 104.050245° W NAD 27 X= 628,654' Y= 472,360' LAT. 32.298274° N LONG. 104.050739° W NAD83/86 FIRST TAKE POINT X= 587,539' Y= 467,361' LAT. 32.284574° N LONG. 104.050068° W NAD 27 X= 628,722' Y= 467,420' LAT. 32.284695° N LONG. 104.050562° W NAD83/86	PROPOSED BOTTOM HOLE LOCATION X= 587,491' Y= 474,913' LAT. 32.305336° N LONG. 104.050156° W NAD 27 X= 628,674' Y= 474,973' LAT. 32.305457° N LONG. 104.050651° W NAD83/86 CORNER COORDINATES TABLE (NAD 27) A. X=585192.08 Y=477584.36 B. X=587840.18 Y=477582.87 C. X=587802.94 Y=472300.33 D. X=587817.78 Y=469677.21 E. X=587875.81 Y=467031.96 F. X=585218.06 Y=467022.29 G. X=585174.92 Y=472283.52 CB BERU 23 14 FEE 06 NO. 403H WELL X= 587,040' Y= 467,499' LAT. 32.284957° N LONG. 104.051679° W NAD 27 X= 628,223' Y= 467,558' LAT. 32.285078° N LONG. 104.052173° W NAD83/86	Sec. 14 Sec. 23 Last Take Point 2310' FSL, 330' FEL 2307' FWL Lease Mid Point First Take Point 330' FSL 330' FEL 2323' FWL Lease 2670' 330' 2615' N 00° 26' 46" E 2,612.98' S 74° 29' 44" E 516.96' 470' 825'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: Date: 3/8/2020 Printed Name: Laura Becerra E-mail Address: LBecerra@Chevron.com ¹⁸ 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. Date of Survey: 01/30/2019 Signature and Seal of Professional Surveyor: Certificate Number: 10/16/2019
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

GAS CAPTURE PLAN

Date: 3/27/2020

☒ Original

Operator & OGRID No.: [4323] CHEVRON U S A INC

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
CB BERU 23 14 FEE 06 #403H	30-015- 46930	P-23- 23S- 28E	0470S 0825E	2500	None	Produced gas will be processed in Culberson County, Texas at either Targa's Falcon Plant (Sec 9, Blk 58, T1S T&P RR Co Survey) or Peregrine Plant (Sec 47, Blk 61, T1S, T&P RR Co Survey).

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to TARGA TRANSPORT LLC and will be connected to TARGA TRANSPORT LLC High Pressure gathering system located in Eddy County, New Mexico. It will require 1500' of pipeline to connect the facility to High Pressure gathering system. CHEVRON U S A INC provides (periodically) to TARGA TRANSPORT LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, CHEVRON U S A INC and TARGA TRANSPORT LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at TARGA TRANSPORT LLC Processing Plant located in Sec. 23, Twn. 23S, Rng. 28E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on TARGA TRANSPORT LLC system at that time. Based on current information, it is CHEVRON U S A INC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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

Form APD Comments

Permit 279960

PERMIT COMMENTS

Operator Name and Address: CHEVRON U S A INC [4323] 6301 Deauville Blvd Midland, TX 79706		API Number: 30-015-46930
		Well: CB BERU 23 14 FEE 06 #403H
Created By	Comment	Comment Date

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Form APD Conditions

Permit 279960

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: CHEVRON U S A INC [4323] 6301 Deauville Blvd Midland, TX 79706		API Number: 30-015-46930
		Well: CB BERU 23 14 FEE 06 #403H
OCD Reviewer	Condition	
ksimmons	Will require a directional survey with the C-104	
ksimmons	Will require administrative order for non-standard spacing unit	
ksimmons	Cement is required to circulate on both surface and intermediate1 strings of casing	



H₂S Preparedness and Contingency Plan Summary

Training

MCBU Drilling and Completions H₂S training requirements are intended to define the minimum level of training required for employees, contractors and visitors to enter or perform work at MCBU Drilling and Completions locations that have known concentrations of H₂S.

Awareness Level

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of H₂S, who are not required to perform work in H₂S areas, will be provided with an awareness level of H₂S training prior to entering any H₂S areas. At a minimum, awareness level training will include:

1. Physical and chemical properties of H₂S
2. Health hazards of H₂S
3. Personal protective equipment
4. Information regarding potential sources of H₂S
5. Alarms and emergency evacuation procedures

Awareness level training will be developed and conducted by personnel who are qualified either by specific training, educational experience and/or work-related background.

Advanced Level H₂S Training

Employees and contractors required to work in areas that may contain H₂S will be provided with Advanced Level H₂S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H₂S training will include:

1. H₂S safe work practice procedures;
2. Emergency contingency plan procedures;
3. Methods to detect the presence or release of H₂S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H₂S equipment.
4. Basic overview of respiratory protective equipment suitable for use in H₂S environments. Note: Employees who work at sites that participate in the Chevron Respirator User program will require separate respirator training as required by the MCBU Respiratory Protection Program;
5. Basic overview of emergency rescue techniques, first aid, CPR and medical evaluation procedures. Employees who may be required to perform "standby" duties are required to receive additional first aid and CPR training, which is not covered in the Advanced Level H₂S training;
6. Proficiency examination covering all course material.

Advanced H₂S training courses will be instructed by personnel who have successfully completed an appropriate H₂S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.



H₂S Preparedness and Contingency Plan Summary

H₂S Training Certification

All employees and visitors will be issued an H₂S training certification card (or certificate) upon successful completion of the appropriate H₂S training course. Personnel working in an H₂S environment will carry a current H₂S training certification card as proof of having received the proper training on their person at all times.

Briefing Area

A minimum of two briefing areas will be established in locations that at least one area will be upwind from the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated upwind briefing areas for instructions.

H₂S Equipment

Respiratory Protection

- a) Six 30 minute SCBAs – 2 at each briefing area and 2 in the Safety Trailer.
- b) Eight 5 minute EBAs – 5 in the dog house at the rig floor, 1 at the accumulator, 1 at the shale shakers and 1 at the mud pits.

Visual Warning System

- a) One color code sign, displaying all possible conditions, will be placed at the entrance to the location with a flag displaying the current condition.
- b) Two windsocks will be on location, one on the dog house and one on the Drill Site Manager's Trailer.

H₂S Detection and Monitoring System

- a) H₂S monitoring system (sensor head, warning light and siren) placed throughout rig.
 - Drilling Rig Locations: at a minimum, in the area of the Shale shaker, rig floor, and bell nipple.
 - Workover Rig Locations: at a minimum, in the area of the Cellar, rig floor and circulating tanks or shale shaker.



H₂S Preparedness and Contingency Plan Summary

Well Control Equipment

- a) Flare Line 150' from wellhead with igniter.
- b) Choke manifold with a remotely operated choke.
- c) Mud / gas separator

Mud Program

In the event of drilling, completions, workover and well servicing operations involving a hydrogen sulfide concentration of 100 ppm or greater the following shall be considered:

- 1. Use of a degasser
- 2. Use of a zinc based mud treatment
- 3. Increasing mud weight

Public Safety - Emergency Assistance

<u>Agency</u>	<u>Telephone Number</u>
Lea County Sheriff's Department	575-396-3611
Fire Department:	
Carlsbad	575-885-3125
Artesia	575-746-5050
Lea County Regional Medical Center	575-492-5000
Jal Community Hospital	505-395-2511
Lea County Emergency Management	575-396-8602
Poison Control Center	800-222-1222



H₂S Preparedness and Contingency Plan Summary

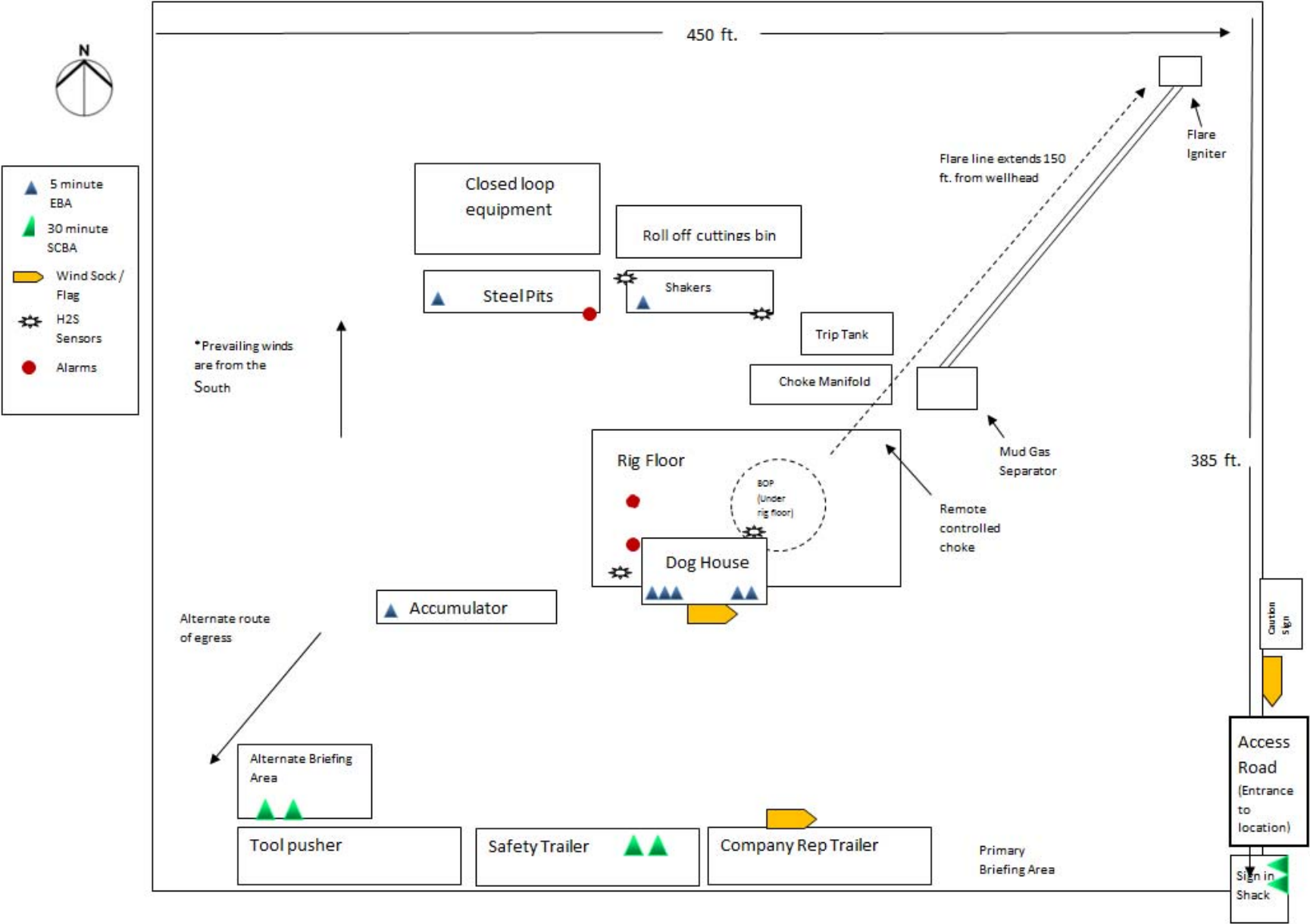
Chevron MCBU D&C Emergency Notifications

Below are lists of contacts to be used in emergency situations.

	Name	Title	Office Number	Cell Phone
1.	TBD	Drilling Engineer		
2.	TBD	Superintendent		
5.	Steve Hassmann	Drilling Manager	(713) 372-4496	832-729-3236
6.	Kyle Eastman	Operations Manager	TBD	281-755-6554
7.	TBD	D&C HES		
8.	TBD	Completion Engineer		



H₂S Preparedness and Contingency Plan Summary



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Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

☐ Original Operator & OGRID No.: CHEVRON U S A INC 4323
☐ Amended Date: 3/5/2020
Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: A C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule 19.15.18.12.A

Wells / Production Facility – CULEBRA BLUFF CENTRAL CTB (SECTION 23)

The wells that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
CB BERU 23 14 FEE 06 301H	<i>Pending</i>	UL: P, Sec 23, T23S-R28E	470' FSL, 900' FEL	1,200	0	
CB BERU 23 14 FEE 06 302H	<i>Pending</i>	UL: P, Sec 23, T23S-R28E	470' FSL, 850' FEL	1,200	0	
CB BERU 23 14 FEE 06 401H	<i>Pending</i>	UL: P, Sec 23, T23S-R28E	470' FSL, 925' FEL	2,500	0	
CB BERU 23 14 FEE 06 402H	<i>Pending</i>	UL: P, Sec 23, T23S-R28E	470' FSL, 875' FEL	2,500	0	
CB BERU 23 14 FEE 06 403H	<i>Pending</i>	UL: P, Sec 23, T23S-R28E	470' FSL, 825' FEL	2,500	0	

Gathering System and Pipeline Notification

These Culebra Bluff Beru Package 6 wells will be connected to Chevron's Culebra Bluff Central CTB (Section 23) production facility located in Sec. 23, T23S, R28E, Eddy County, New Mexico during flowback and production. Gas produced from the production facility will be dedicated to Targa Delaware LLC ("Targa") and connected to Targa's high-pressure gathering system in Eddy County, New Mexico. Produced gas will then be processed in Culberson County, Texas at either Targa's Falcon Plant (Sec 9, Blk 58, T1S T&P RR Co Survey) or Peregrine Plant (Sec 47, Blk 61, T1S, T&P RR Co Survey). The actual flow of the gas will be based on compression operating parameters and gathering system pressures. Chevron will periodically provide Targa a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Chevron and Targa will have periodic conference calls to discuss changes to the drilling and completion schedules.

Flowback Strategy

After the fracture treatment/completion operations, wells will be routed to the permanent production facilities. Wells will have temporary sand catchers (separators) that will be installed at the well location to prevent sand from getting into the flowlines. These sand separators will be blown down periodically which will result in minimal venting of gas. Gas sales will start as soon as the wells start flowing through the production facilities unless there are operational issues with Targa's system at that time. Based on current information, it is Chevron's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On Lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared.
- Compressed Natural Gas – On Lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines.
- NGL Removal – On lease and trucked from condensate tanks
 - Plants are expensive and uneconomical to operate when gas volume declines.
 - Any residue gas that results in the future may be flared.



Planned Wellpath Report

CB BERU 23 14 FEE 06 No. 403H Rev-A.0

Page 1 of 9



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Well	CB BERU 23 14 FEE 06 No. 403H
Field	Purple Sage (Eddy Co., NM) NAD 27	API/Legal	
Facility	CB Pkg 6	Wellbore	CB BERU 23 14 FEE 06 No. 403H PWB
Slot	CB BERU 23 14 FEE 06 No. 403H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Moyagusa
Scale	0.999918	Report Generated	20/Jan/2020 at 16:07
Convergence at slot	0.15° East	Database	WA_HOU_Midland_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	75.01	587040.00	467499.00	32°17'5.8463"N	104°03'6.0490"W
Facility Reference Pt			586965.00	467499.00	32°17'5.8483"N	104°03'6.9227"W
Field Reference Pt			152400.30	0.00	30°59'42.8458"N	105°26'33.6593"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 257 (KB) to Facility Vertical Datum	3024.00ft
Horizontal Reference Pt	Slot	Patterson 257 (KB) to Mean Sea Level	3024.00ft
Vertical Reference Pt	Patterson 257 (KB)	Patterson 257 (KB) to Ground Level at Slot (CB BERU 23 14 FEE 06 No. 403H)	28.00ft
MD Reference Pt	Patterson 257 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.21°



Planned Wellpath Report

CB BERU 23 14 FEE 06 No. 403H Rev-A.0

Page 2 of 9



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Well	CB BERU 23 14 FEE 06 No. 403H
Field	Purple Sage (Eddy Co., NM) NAD 27	API/Legal	
Facility	CB Pkg 6	Wellbore	CB BERU 23 14 FEE 06 No. 403H PWB
Slot	CB BERU 23 14 FEE 06 No. 403H		

WELLPATH DATA (187 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.000	139.091	0.00	0.00	0.00	0.00	587040.00	467499.00	32°17'5.8463"N	104°03'6.0490"W	0.00	0.00	0.00	
28.00	0.000	139.091	28.00	0.00	0.00	0.00	587040.00	467499.00	32°17'5.8463"N	104°03'6.0490"W	0.00	0.00	0.00	Tie On
128.00†	0.000	139.091	128.00	0.00	0.00	0.00	587040.00	467499.00	32°17'5.8463"N	104°03'6.0490"W	0.00	0.00	0.00	
228.00†	0.000	139.091	228.00	0.00	0.00	0.00	587040.00	467499.00	32°17'5.8463"N	104°03'6.0490"W	0.00	0.00	0.00	
328.00†	0.000	139.091	328.00	0.00	0.00	0.00	587040.00	467499.00	32°17'5.8463"N	104°03'6.0490"W	0.00	0.00	0.00	
428.00†	0.000	139.091	428.00	0.00	0.00	0.00	587040.00	467499.00	32°17'5.8463"N	104°03'6.0490"W	0.00	0.00	0.00	
528.00†	0.000	139.091	528.00	0.00	0.00	0.00	587040.00	467499.00	32°17'5.8463"N	104°03'6.0490"W	0.00	0.00	0.00	
550.00	0.000	139.091	550.00	0.00	0.00	0.00	587040.00	467499.00	32°17'5.8463"N	104°03'6.0490"W	0.00	0.00	0.00	Start Build
628.00†	1.170	139.091	627.99	-0.61	-0.60	0.52	587040.52	467498.40	32°17'5.8404"N	104°03'6.0430"W	1.50	1.50	0.00	
728.00†	2.670	139.091	727.94	-3.17	-3.13	2.72	587042.72	467495.87	32°17'5.8152"N	104°03'6.0175"W	1.50	1.50	0.00	
828.00†	4.170	139.091	827.75	-7.73	-7.64	6.62	587046.62	467491.36	32°17'5.7705"N	104°03'5.9721"W	1.50	1.50	0.00	
928.00†	5.670	139.091	927.38	-14.29	-14.12	12.24	587052.24	467484.88	32°17'5.7063"N	104°03'5.9069"W	1.50	1.50	0.00	
1028.00†	7.170	139.091	1026.75	-22.84	-22.57	19.56	587059.56	467476.43	32°17'5.6224"N	104°03'5.8219"W	1.50	1.50	0.00	
1128.00†	8.670	139.091	1125.80	-33.38	-32.99	28.58	587068.58	467466.02	32°17'5.5192"N	104°03'5.7171"W	1.50	1.50	0.00	
1140.04	8.851	139.091	1137.70	-34.78	-34.37	29.78	587069.78	467464.63	32°17'5.5054"N	104°03'5.7032"W	1.50	1.50	0.00	End Build
1228.00†	8.851	139.091	1224.61	-45.13	-44.60	38.65	587078.64	467454.40	32°17'5.4040"N	104°03'5.6002"W	0.00	0.00	0.00	
1328.00†	8.851	139.091	1323.42	-56.89	-56.23	48.72	587088.72	467442.78	32°17'5.2887"N	104°03'5.4832"W	0.00	0.00	0.00	
1428.00†	8.851	139.091	1422.23	-68.66	-67.86	58.80	587098.79	467431.15	32°17'5.1733"N	104°03'5.3662"W	0.00	0.00	0.00	
1528.00†	8.851	139.091	1521.04	-80.43	-79.48	68.87	587108.87	467419.52	32°17'5.0580"N	104°03'5.2492"W	0.00	0.00	0.00	
1628.00†	8.851	139.091	1619.85	-92.19	-91.11	78.95	587118.94	467407.90	32°17'4.9427"N	104°03'5.1322"W	0.00	0.00	0.00	
1728.00†	8.851	139.091	1718.66	-103.96	-102.74	89.02	587129.02	467396.27	32°17'4.8274"N	104°03'5.0152"W	0.00	0.00	0.00	
1828.00†	8.851	139.091	1817.46	-115.72	-114.37	99.10	587139.09	467384.64	32°17'4.7120"N	104°03'4.8982"W	0.00	0.00	0.00	
1928.00†	8.851	139.091	1916.27	-127.49	-126.00	109.18	587149.17	467373.02	32°17'4.5967"N	104°03'4.7812"W	0.00	0.00	0.00	
2028.00†	8.851	139.091	2015.08	-139.25	-137.62	119.25	587159.24	467361.39	32°17'4.4814"N	104°03'4.6642"W	0.00	0.00	0.00	
2128.00†	8.851	139.091	2113.89	-151.02	-149.25	129.33	587169.32	467349.76	32°17'4.3661"N	104°03'4.5472"W	0.00	0.00	0.00	
2228.00†	8.851	139.091	2212.70	-162.79	-160.88	139.40	587179.39	467338.13	32°17'4.2508"N	104°03'4.4302"W	0.00	0.00	0.00	
2328.00†	8.851	139.091	2311.51	-174.55	-172.51	149.48	587189.47	467326.51	32°17'4.1354"N	104°03'4.3132"W	0.00	0.00	0.00	
2428.00†	8.851	139.091	2410.32	-186.32	-184.13	159.55	587199.54	467314.88	32°17'4.0201"N	104°03'4.1962"W	0.00	0.00	0.00	
2528.00†	8.851	139.091	2509.13	-198.08	-195.76	169.63	587209.62	467303.25	32°17'3.9048"N	104°03'4.0792"W	0.00	0.00	0.00	
2628.00†	8.851	139.091	2607.94	-209.85	-207.39	179.71	587219.69	467291.63	32°17'3.7895"N	104°03'3.9622"W	0.00	0.00	0.00	



Planned Wellpath Report

CB BERU 23 14 FEE 06 No. 403H Rev-A.0

Page 3 of 9



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Well	CB BERU 23 14 FEE 06 No. 403H
Field	Purple Sage (Eddy Co., NM) NAD 27	API/Legal	
Facility	CB Pkg 6	Wellbore	CB BERU 23 14 FEE 06 No. 403H PWB
Slot	CB BERU 23 14 FEE 06 No. 403H		

WELLPATH DATA (187 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
2728.00†	8.851	139.091	2706.75	-221.61	-219.02	189.78	587229.76	467280.00	32°17'3.6741"N	104°03'3.8452"W	0.00	0.00	0.00	
2828.00†	8.851	139.091	2805.56	-233.38	-230.65	199.86	587239.84	467268.37	32°17'3.5588"N	104°03'3.7281"W	0.00	0.00	0.00	
2928.00†	8.851	139.091	2904.37	-245.15	-242.27	209.93	587249.91	467256.75	32°17'3.4435"N	104°03'3.6111"W	0.00	0.00	0.00	
3028.00†	8.851	139.091	3003.18	-256.91	-253.90	220.01	587259.99	467245.12	32°17'3.3282"N	104°03'3.4941"W	0.00	0.00	0.00	
3128.00†	8.851	139.091	3101.99	-268.68	-265.53	230.08	587270.06	467233.49	32°17'3.2128"N	104°03'3.3771"W	0.00	0.00	0.00	
3228.00†	8.851	139.091	3200.79	-280.44	-277.16	240.16	587280.14	467221.87	32°17'3.0975"N	104°03'3.2601"W	0.00	0.00	0.00	
3328.00†	8.851	139.091	3299.60	-292.21	-288.78	250.23	587290.21	467210.24	32°17'2.9822"N	104°03'3.1431"W	0.00	0.00	0.00	
3428.00†	8.851	139.091	3398.41	-303.97	-300.41	260.31	587300.29	467198.61	32°17'2.8669"N	104°03'3.0261"W	0.00	0.00	0.00	
3528.00†	8.851	139.091	3497.22	-315.74	-312.04	270.39	587310.36	467186.99	32°17'2.7515"N	104°03'2.9091"W	0.00	0.00	0.00	
3628.00†	8.851	139.091	3596.03	-327.50	-323.67	280.46	587320.44	467175.36	32°17'2.6362"N	104°03'2.7921"W	0.00	0.00	0.00	
3728.00†	8.851	139.091	3694.84	-339.27	-335.30	290.54	587330.51	467163.73	32°17'2.5209"N	104°03'2.6751"W	0.00	0.00	0.00	
3828.00†	8.851	139.091	3793.65	-351.04	-346.92	300.61	587340.59	467152.11	32°17'2.4056"N	104°03'2.5581"W	0.00	0.00	0.00	
3928.00†	8.851	139.091	3892.46	-362.80	-358.55	310.69	587350.66	467140.48	32°17'2.2902"N	104°03'2.4411"W	0.00	0.00	0.00	
4028.00†	8.851	139.091	3991.27	-374.57	-370.18	320.76	587360.74	467128.85	32°17'2.1749"N	104°03'2.3241"W	0.00	0.00	0.00	
4128.00†	8.851	139.091	4090.08	-386.33	-381.81	330.84	587370.81	467117.22	32°17'2.0596"N	104°03'2.2071"W	0.00	0.00	0.00	
4150.49	8.851	139.091	4112.30	-388.98	-384.42	333.11	587373.08	467114.61	32°17'2.0337"N	104°03'2.1808"W	0.00	0.00	0.00	Start Drop
4228.00†	7.688	139.091	4189.00	-397.50	-392.85	340.41	587380.38	467106.19	32°17'1.9501"N	104°03'2.0960"W	1.50	-1.50	0.00	
4328.00†	6.188	139.091	4288.27	-406.74	-401.98	348.32	587388.29	467097.06	32°17'1.8596"N	104°03'2.0041"W	1.50	-1.50	0.00	
4428.00†	4.688	139.091	4387.82	-413.99	-409.14	354.52	587394.49	467089.90	32°17'1.7885"N	104°03'1.9321"W	1.50	-1.50	0.00	
4528.00†	3.188	139.091	4487.58	-419.24	-414.33	359.02	587398.99	467084.71	32°17'1.7371"N	104°03'1.8799"W	1.50	-1.50	0.00	
4628.00†	1.688	139.091	4587.48	-422.49	-417.54	361.80	587401.77	467081.49	32°17'1.7052"N	104°03'1.8475"W	1.50	-1.50	0.00	
4728.00†	0.188	139.091	4687.47	-423.74	-418.78	362.88	587402.85	467080.26	32°17'1.6929"N	104°03'1.8351"W	1.50	-1.50	0.00	
4740.53	0.000	24.820	4700.00	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	1.50	-1.50	0.00	End Drop
4828.00†	0.000	24.820	4787.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
4928.00†	0.000	24.820	4887.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
5028.00†	0.000	24.820	4987.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
5128.00†	0.000	24.820	5087.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
5228.00†	0.000	24.820	5187.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
5328.00†	0.000	24.820	5287.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
5428.00†	0.000	24.820	5387.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	



Planned Wellpath Report

CB BERU 23 14 FEE 06 No. 403H Rev-A.0

Page 4 of 9



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Well	CB BERU 23 14 FEE 06 No. 403H
Field	Purple Sage (Eddy Co., NM) NAD 27	API/Legal	
Facility	CB Pkg 6	Wellbore	CB BERU 23 14 FEE 06 No. 403H PWB
Slot	CB BERU 23 14 FEE 06 No. 403H		

WELLPATH DATA (187 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
5528.00†	0.000	24.820	5487.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
5628.00†	0.000	24.820	5587.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
5728.00†	0.000	24.820	5687.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
5828.00†	0.000	24.820	5787.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
5928.00†	0.000	24.820	5887.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
6028.00†	0.000	24.820	5987.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
6128.00†	0.000	24.820	6087.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
6228.00†	0.000	24.820	6187.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
6328.00†	0.000	24.820	6287.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
6428.00†	0.000	24.820	6387.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
6528.00†	0.000	24.820	6487.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
6628.00†	0.000	24.820	6587.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
6728.00†	0.000	24.820	6687.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
6828.00†	0.000	24.820	6787.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
6928.00†	0.000	24.820	6887.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
7028.00†	0.000	24.820	6987.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
7128.00†	0.000	24.820	7087.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
7228.00†	0.000	24.820	7187.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
7328.00†	0.000	24.820	7287.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
7428.00†	0.000	24.820	7387.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
7528.00†	0.000	24.820	7487.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
7628.00†	0.000	24.820	7587.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
7728.00†	0.000	24.820	7687.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
7828.00†	0.000	24.820	7787.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
7928.00†	0.000	24.820	7887.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
8028.00†	0.000	24.820	7987.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
8128.00†	0.000	24.820	8087.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
8228.00†	0.000	24.820	8187.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
8328.00†	0.000	24.820	8287.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
8428.00†	0.000	24.820	8387.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	



Planned Wellpath Report

CB BERU 23 14 FEE 06 No. 403H Rev-A.0

Page 5 of 9



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Well	CB BERU 23 14 FEE 06 No. 403H
Field	Purple Sage (Eddy Co., NM) NAD 27	API/Legal	
Facility	CB Pkg 6	Wellbore	CB BERU 23 14 FEE 06 No. 403H PWB
Slot	CB BERU 23 14 FEE 06 No. 403H		

WELLPATH DATA (187 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
8528.00†	0.000	24.820	8487.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
8570.53	0.000	24.820	8530.00	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	7" Casing
8628.00†	0.000	24.820	8587.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
8728.00†	0.000	24.820	8687.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
8828.00†	0.000	24.820	8787.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
8928.00†	0.000	24.820	8887.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
9028.00†	0.000	24.820	8987.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
9128.00†	0.000	24.820	9087.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
9228.00†	0.000	24.820	9187.47	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	
9260.82	0.000	24.820	9220.29	-423.76	-418.80	362.89	587402.86	467080.24	32°17'1.6928"N	104°03'1.8349"W	0.00	0.00	0.00	Curve KOP
9328.00†	6.718	24.820	9287.31	-420.21	-415.23	364.54	587404.51	467083.81	32°17'1.7280"N	104°03'1.8156"W	10.00	10.00	0.00	
9428.00†	16.718	24.820	9385.10	-401.92	-396.82	373.06	587413.02	467102.22	32°17'1.9100"N	104°03'1.7158"W	10.00	10.00	0.00	
9528.00†	26.718	24.820	9477.89	-368.60	-363.27	388.57	587428.54	467135.76	32°17'2.2415"N	104°03'1.5341"W	10.00	10.00	0.00	
9628.00†	36.718	24.820	9562.85	-321.25	-315.62	410.61	587450.57	467183.41	32°17'2.7125"N	104°03'1.2759"W	10.00	10.00	0.00	
9660.82	40.000	24.820	9588.58	-302.88	-297.13	419.16	587459.12	467201.89	32°17'2.8952"N	104°03'1.1757"W	10.00	10.00	0.00	Cont. Build/Start Turn
9728.00†	45.810	19.856	9637.78	-260.83	-254.83	436.42	587476.38	467244.19	32°17'3.3133"N	104°03'0.9734"W	10.00	8.65	-7.39	
9828.00†	54.766	14.054	9701.64	-187.62	-181.31	458.57	587498.53	467317.71	32°17'4.0403"N	104°03'0.7131"W	10.00	8.96	-5.80	
9928.00†	63.943	9.426	9752.58	-103.72	-97.17	475.89	587515.85	467401.84	32°17'4.8724"N	104°03'0.5088"W	10.00	9.18	-4.63	
10028.00†	73.246	5.479	9789.05	-11.69	-4.96	487.85	587527.81	467494.04	32°17'5.7845"N	104°03'0.3667"W	10.00	9.30	-3.95	
10128.00†	82.616	1.904	9809.94	85.68	92.50	494.08	587534.04	467591.49	32°17'6.7488"N	104°03'0.2910"W	10.00	9.37	-3.57	
10206.57	90.000	359.211	9815.00	164.00	170.84	494.84	587534.79	467669.83	32°17'7.5240"N	104°03'0.2798"W	10.00	9.40	-3.43	End Build/Turn - Landing
10228.00†	90.000	359.211	9815.00	185.43	192.27	494.54	587534.50	467691.25	32°17'7.7360"N	104°03'0.2826"W	0.00	0.00	0.00	
10328.00†	90.000	359.211	9815.00	285.43	292.26	493.16	587533.12	467791.24	32°17'8.7255"N	104°03'0.2956"W	0.00	0.00	0.00	
10428.00†	90.000	359.211	9815.00	385.43	392.25	491.79	587531.74	467891.22	32°17'9.7150"N	104°03'0.3086"W	0.00	0.00	0.00	
10528.00†	90.000	359.211	9815.00	485.43	492.24	490.41	587530.37	467991.20	32°17'10.7045"N	104°03'0.3215"W	0.00	0.00	0.00	
10628.00†	90.000	359.211	9815.00	585.43	592.23	489.03	587528.99	468091.18	32°17'11.6939"N	104°03'0.3345"W	0.00	0.00	0.00	
10728.00†	90.000	359.211	9815.00	685.43	692.22	487.65	587527.61	468191.17	32°17'12.6834"N	104°03'0.3475"W	0.00	0.00	0.00	
10828.00†	90.000	359.211	9815.00	785.43	792.21	486.28	587526.23	468291.15	32°17'13.6729"N	104°03'0.3605"W	0.00	0.00	0.00	
10928.00†	90.000	359.211	9815.00	885.43	892.20	484.90	587524.86	468391.13	32°17'14.6624"N	104°03'0.3734"W	0.00	0.00	0.00	
11028.00†	90.000	359.211	9815.00	985.43	992.20	483.52	587523.48	468491.11	32°17'15.6518"N	104°03'0.3864"W	0.00	0.00	0.00	



Planned Wellpath Report

CB BERU 23 14 FEE 06 No. 403H Rev-A.0

Page 6 of 9



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Well	CB BERU 23 14 FEE 06 No. 403H
Field	Purple Sage (Eddy Co., NM) NAD 27	API/Legal	
Facility	CB Pkg 6	Wellbore	CB BERU 23 14 FEE 06 No. 403H PWB
Slot	CB BERU 23 14 FEE 06 No. 403H		

WELLPATH DATA (187 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
11128.00†	90.000	359.211	9815.00	1085.43	1092.19	482.14	587522.10	468591.09	32°17'16.6413"N	104°03'0.3994"W	0.00	0.00	0.00	
11228.00†	90.000	359.211	9815.00	1185.43	1192.18	480.76	587520.72	468691.08	32°17'17.6308"N	104°03'0.4124"W	0.00	0.00	0.00	
11328.00†	90.000	359.211	9815.00	1285.43	1292.17	479.39	587519.35	468791.06	32°17'18.6203"N	104°03'0.4253"W	0.00	0.00	0.00	
11428.00†	90.000	359.211	9815.00	1385.43	1392.16	478.01	587517.97	468891.04	32°17'19.6097"N	104°03'0.4383"W	0.00	0.00	0.00	
11528.00†	90.000	359.211	9815.00	1485.43	1492.15	476.63	587516.59	468991.02	32°17'20.5992"N	104°03'0.4513"W	0.00	0.00	0.00	
11628.00†	90.000	359.211	9815.00	1585.43	1592.14	475.25	587515.21	469091.00	32°17'21.5887"N	104°03'0.4642"W	0.00	0.00	0.00	
11728.00†	90.000	359.211	9815.00	1685.43	1692.13	473.88	587513.84	469190.99	32°17'22.5781"N	104°03'0.4772"W	0.00	0.00	0.00	
11828.00†	90.000	359.211	9815.00	1785.43	1792.12	472.50	587512.46	469290.97	32°17'23.5676"N	104°03'0.4902"W	0.00	0.00	0.00	
11928.00†	90.000	359.211	9815.00	1885.43	1892.11	471.12	587511.08	469390.95	32°17'24.5571"N	104°03'0.5032"W	0.00	0.00	0.00	
12028.00†	90.000	359.211	9815.00	1985.43	1992.10	469.74	587509.70	469490.93	32°17'25.5466"N	104°03'0.5161"W	0.00	0.00	0.00	
12128.00†	90.000	359.211	9815.00	2085.43	2092.09	468.37	587508.33	469590.91	32°17'26.5360"N	104°03'0.5291"W	0.00	0.00	0.00	
12228.00†	90.000	359.211	9815.00	2185.43	2192.08	466.99	587506.95	469690.90	32°17'27.5255"N	104°03'0.5421"W	0.00	0.00	0.00	
12328.00†	90.000	359.211	9815.00	2285.43	2292.07	465.61	587505.57	469790.88	32°17'28.5150"N	104°03'0.5551"W	0.00	0.00	0.00	
12428.00†	90.000	359.211	9815.00	2385.43	2392.06	464.23	587504.19	469890.86	32°17'29.5045"N	104°03'0.5680"W	0.00	0.00	0.00	
12528.00†	90.000	359.211	9815.00	2485.43	2492.05	462.85	587502.82	469990.84	32°17'30.4939"N	104°03'0.5810"W	0.00	0.00	0.00	
12628.00†	90.000	359.211	9815.00	2585.43	2592.04	461.48	587501.44	470090.83	32°17'31.4834"N	104°03'0.5940"W	0.00	0.00	0.00	
12728.00†	90.000	359.211	9815.00	2685.43	2692.03	460.10	587500.06	470190.81	32°17'32.4729"N	104°03'0.6069"W	0.00	0.00	0.00	
12828.00†	90.000	359.211	9815.00	2785.43	2792.02	458.72	587498.68	470290.79	32°17'33.4624"N	104°03'0.6199"W	0.00	0.00	0.00	
12928.00†	90.000	359.211	9815.00	2885.43	2892.01	457.34	587497.31	470390.77	32°17'34.4518"N	104°03'0.6329"W	0.00	0.00	0.00	
13028.00†	90.000	359.211	9815.00	2985.43	2992.01	455.97	587495.93	470490.75	32°17'35.4413"N	104°03'0.6459"W	0.00	0.00	0.00	
13128.00†	90.000	359.211	9815.00	3085.43	3092.00	454.59	587494.55	470590.74	32°17'36.4308"N	104°03'0.6588"W	0.00	0.00	0.00	
13228.00†	90.000	359.211	9815.00	3185.43	3191.99	453.21	587493.17	470690.72	32°17'37.4203"N	104°03'0.6718"W	0.00	0.00	0.00	
13328.00†	90.000	359.211	9815.00	3285.43	3291.98	451.83	587491.80	470790.70	32°17'38.4097"N	104°03'0.6848"W	0.00	0.00	0.00	
13428.00†	90.000	359.211	9815.00	3385.43	3391.97	450.46	587490.42	470890.68	32°17'39.3992"N	104°03'0.6978"W	0.00	0.00	0.00	
13528.00†	90.000	359.211	9815.00	3485.43	3491.96	449.08	587489.04	470990.66	32°17'40.3887"N	104°03'0.7107"W	0.00	0.00	0.00	
13628.00†	90.000	359.211	9815.00	3585.43	3591.95	447.70	587487.66	471090.65	32°17'41.3782"N	104°03'0.7237"W	0.00	0.00	0.00	
13728.00†	90.000	359.211	9815.00	3685.43	3691.94	446.32	587486.29	471190.63	32°17'42.3676"N	104°03'0.7367"W	0.00	0.00	0.00	
13828.00†	90.000	359.211	9815.00	3785.43	3791.93	444.94	587484.91	471290.61	32°17'43.3571"N	104°03'0.7497"W	0.00	0.00	0.00	
13928.00†	90.000	359.211	9815.00	3885.43	3891.92	443.57	587483.53	471390.59	32°17'44.3466"N	104°03'0.7626"W	0.00	0.00	0.00	
14028.00†	90.000	359.211	9815.00	3985.43	3991.91	442.19	587482.15	471490.57	32°17'45.3361"N	104°03'0.7756"W	0.00	0.00	0.00	



Planned Wellpath Report

CB BERU 23 14 FEE 06 No. 403H Rev-A.0

Page 7 of 9



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Well	CB BERU 23 14 FEE 06 No. 403H
Field	Purple Sage (Eddy Co., NM) NAD 27	API/Legal	
Facility	CB Pkg 6	Wellbore	CB BERU 23 14 FEE 06 No. 403H PWB
Slot	CB BERU 23 14 FEE 06 No. 403H		

WELLPATH DATA (187 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
14128.00†	90.000	359.211	9815.00	4085.43	4091.90	440.81	587480.77	471590.56	32°17'46.3255"N	104°03'0.7886"W	0.00	0.00	0.00	
14228.00†	90.000	359.211	9815.00	4185.43	4191.89	439.43	587479.40	471690.54	32°17'47.3150"N	104°03'0.8015"W	0.00	0.00	0.00	
14328.00†	90.000	359.211	9815.00	4285.43	4291.88	438.06	587478.02	471790.52	32°17'48.3045"N	104°03'0.8145"W	0.00	0.00	0.00	
14428.00†	90.000	359.211	9815.00	4385.43	4391.87	436.68	587476.64	471890.50	32°17'49.2939"N	104°03'0.8275"W	0.00	0.00	0.00	
14528.00†	90.000	359.211	9815.00	4485.43	4491.86	435.30	587475.26	471990.48	32°17'50.2834"N	104°03'0.8405"W	0.00	0.00	0.00	
14628.00†	90.000	359.211	9815.00	4585.43	4591.85	433.92	587473.89	472090.47	32°17'51.2729"N	104°03'0.8534"W	0.00	0.00	0.00	
14728.00†	90.000	359.211	9815.00	4685.43	4691.84	432.55	587472.51	472190.45	32°17'52.2624"N	104°03'0.8664"W	0.00	0.00	0.00	
14828.00†	90.000	359.211	9815.00	4785.43	4791.83	431.17	587471.13	472290.43	32°17'53.2518"N	104°03'0.8794"W	0.00	0.00	0.00	
14837.57	90.000	359.211	9815.00†	4795.01	4801.40	431.04	587471.00	472300.00	32°17'53.3465"N	104°03'0.8806"W	0.00	0.00	0.00	Start Turn
14899.70	90.000	0.453	9815.00	4857.13	4863.54	430.85	587470.82	472362.13	32°17'53.9614"N	104°03'0.8808"W	2.00	0.00	2.00	End Turn
14928.00†	90.000	0.453	9815.00	4885.42	4891.83	431.08	587471.04	472390.42	32°17'54.2413"N	104°03'0.8774"W	0.00	0.00	0.00	
15028.00†	90.000	0.453	9815.00	4985.40	4991.83	431.87	587471.83	472490.41	32°17'55.2308"N	104°03'0.8651"W	0.00	0.00	0.00	
15128.00†	90.000	0.453	9815.00	5085.38	5091.83	432.66	587472.62	472590.40	32°17'56.2203"N	104°03'0.8528"W	0.00	0.00	0.00	
15228.00†	90.000	0.453	9815.00	5185.35	5191.82	433.45	587473.41	472690.38	32°17'57.2098"N	104°03'0.8405"W	0.00	0.00	0.00	
15328.00†	90.000	0.453	9815.00	5285.33	5291.82	434.24	587474.21	472790.37	32°17'58.1993"N	104°03'0.8282"W	0.00	0.00	0.00	
15428.00†	90.000	0.453	9815.00	5385.31	5391.82	435.03	587475.00	472890.36	32°17'59.1887"N	104°03'0.8159"W	0.00	0.00	0.00	
15528.00†	90.000	0.453	9815.00	5485.28	5491.81	435.82	587475.79	472990.35	32°18'0.1782"N	104°03'0.8036"W	0.00	0.00	0.00	
15628.00†	90.000	0.453	9815.00	5585.26	5591.81	436.62	587476.58	473090.34	32°18'1.1677"N	104°03'0.7913"W	0.00	0.00	0.00	
15728.00†	90.000	0.453	9815.00	5685.23	5691.81	437.41	587477.37	473190.33	32°18'2.1572"N	104°03'0.7790"W	0.00	0.00	0.00	
15828.00†	90.000	0.453	9815.00	5785.21	5791.80	438.20	587478.16	473290.32	32°18'3.1467"N	104°03'0.7667"W	0.00	0.00	0.00	
15928.00†	90.000	0.453	9815.00	5885.19	5891.80	438.99	587478.95	473390.30	32°18'4.1361"N	104°03'0.7544"W	0.00	0.00	0.00	
16028.00†	90.000	0.453	9815.00	5985.16	5991.80	439.78	587479.74	473490.29	32°18'5.1256"N	104°03'0.7421"W	0.00	0.00	0.00	
16128.00†	90.000	0.453	9815.00	6085.14	6091.79	440.57	587480.53	473590.28	32°18'6.1151"N	104°03'0.7299"W	0.00	0.00	0.00	
16228.00†	90.000	0.453	9815.00	6185.12	6191.79	441.36	587481.33	473690.27	32°18'7.1046"N	104°03'0.7176"W	0.00	0.00	0.00	
16328.00†	90.000	0.453	9815.00	6285.09	6291.79	442.15	587482.12	473790.26	32°18'8.0940"N	104°03'0.7053"W	0.00	0.00	0.00	
16428.00†	90.000	0.453	9815.00	6385.07	6391.78	442.95	587482.91	473890.25	32°18'9.0835"N	104°03'0.6930"W	0.00	0.00	0.00	
16528.00†	90.000	0.453	9815.00	6485.05	6491.78	443.74	587483.70	473990.23	32°18'10.0730"N	104°03'0.6807"W	0.00	0.00	0.00	
16628.00†	90.000	0.453	9815.00	6585.02	6591.78	444.53	587484.49	474090.22	32°18'11.0625"N	104°03'0.6684"W	0.00	0.00	0.00	
16728.00†	90.000	0.453	9815.00	6685.00	6691.77	445.32	587485.28	474190.21	32°18'12.0520"N	104°03'0.6561"W	0.00	0.00	0.00	
16828.00†	90.000	0.453	9815.00	6784.98	6791.77	446.11	587486.07	474290.20	32°18'13.0414"N	104°03'0.6438"W	0.00	0.00	0.00	



Planned Wellpath Report

CB BERU 23 14 FEE 06 No. 403H Rev-A.0

Page 8 of 9



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Well	CB BERU 23 14 FEE 06 No. 403H
Field	Purple Sage (Eddy Co., NM) NAD 27	API/Legal	
Facility	CB Pkg 6	Wellbore	CB BERU 23 14 FEE 06 No. 403H PWB
Slot	CB BERU 23 14 FEE 06 No. 403H		

WELLPATH DATA (187 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
16928.00†	90.000	0.453	9815.00	6884.95	6891.77	446.90	587486.86	474390.19	32°18'14.0309"N	104°03'0.6315"W	0.00	0.00	0.00	
17028.00†	90.000	0.453	9815.00	6984.93	6991.77	447.69	587487.65	474490.18	32°18'15.0204"N	104°03'0.6192"W	0.00	0.00	0.00	
17128.00†	90.000	0.453	9815.00	7084.90	7091.76	448.48	587488.45	474590.17	32°18'16.0099"N	104°03'0.6069"W	0.00	0.00	0.00	
17228.00†	90.000	0.453	9815.00	7184.88	7191.76	449.27	587489.24	474690.15	32°18'16.9994"N	104°03'0.5946"W	0.00	0.00	0.00	
17328.00†	90.000	0.453	9815.00	7284.86	7291.76	450.07	587490.03	474790.14	32°18'17.9888"N	104°03'0.5823"W	0.00	0.00	0.00	
17428.00†	90.000	0.453	9815.00	7384.83	7391.75	450.86	587490.82	474890.13	32°18'18.9783"N	104°03'0.5700"W	0.00	0.00	0.00	
17450.87	90.000	0.453	9815.00 [‡]	7407.70	7414.62	451.04	587491.00	474913.00	32°18'19.2046"N	104°03'0.5672"W	0.00	0.00	0.00	PBHL

HOLE & CASING SECTIONS - Ref Wellbore: CB BERU 23 14 FEE 06 No. 403H PWB Ref Wellpath: CB BERU 23 14 FEE 06 No. 403H Rev-A.0

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.375in Casing	28.00	450.00	422.00	28.00	450.00	0.00	0.00	0.00	0.00
9.625in Casing	28.00	2619.97	2591.97	28.00	2600.00	0.00	0.00	-206.46	178.90
7in Casing	28.00	8570.53	8542.53	28.00	8530.00	0.00	0.00	-418.80	362.89
4.5in Casing	28.00	17450.87	17422.87	28.00	9815.00	0.00	0.00	7414.62	451.04



Planned Wellpath Report

CB BERU 23 14 FEE 06 No. 403H Rev-A.0

Page 9 of 9



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Well	CB BERU 23 14 FEE 06 No. 403H
Field	Purple Sage (Eddy Co., NM) NAD 27	API/Legal	
Facility	CB Pkg 6	Wellbore	CB BERU 23 14 FEE 06 No. 403H PWB
Slot	CB BERU 23 14 FEE 06 No. 403H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
CB BERU 23 14 FEE 06 No. 403H FTP	N/A	9815.00	-138.01	499.04	587539.00	467361.00	32°17'4.4677"N	104°03'0.2404"W	point
CB BERU 23 14 FEE 06 No. 403H LTP	N/A	9815.00	7109.60	449.04	587489.00	474608.00	32°18'16.1864"N	104°03'0.5999"W	point
1) CB BERU 23 14 FEE 06 No. 403H MP	14837.57	9815.00	4801.40	431.04	587471.00	472300.00	32°17'53.3465"N	104°03'0.8806"W	point
2) CB BERU 23 14 FEE 06 No. 403H PBHL	17450.87	9815.00	7414.62	451.04	587491.00	474913.00	32°18'19.2046"N	104°03'0.5672"W	point

SURVEY PROGRAM - Ref Wellbore: CB BERU 23 14 FEE 06 No. 403H PWB Ref Wellpath: CB BERU 23 14 FEE 06 No. 403H Rev-A.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
28.00	450.00	OWSG MWD rev2 + HRGM		CB BERU 23 14 FEE 06 No. 403H PWB
450.00	2700.00	OWSG MWD rev2 + HRGM		CB BERU 23 14 FEE 06 No. 403H PWB
2700.00	8600.00	OWSG MWD rev2 + HRGM		CB BERU 23 14 FEE 06 No. 403H PWB
8600.00	17450.87	OWSG MWD rev2 + HRGM		CB BERU 23 14 FEE 06 No. 403H PWB

Intent ☒ As Drilled ☐

API #		
Operator Name: CHEVRON USA INC	Property Name: CB BERU 23 14 FEE 06	Well Number 403H

Kick Off Point (KOP)

UL P	Section 23	Township 23S	Range 28E	Lot	Feet 470	From N/S FSL	Feet 825	From E/W FEL	County EDDY
Latitude 32.285078					Longitude 104.052173			NAD NAD 83/86	

First Take Point (FTP)

UL P	Section 23	Township 23S	Range 28E	Lot	Feet 330	From N/S FSL	Feet 330	From E/W FEL	County EDDY
Latitude 32.284695					Longitude 104.050562			NAD NAD 83/86	

Last Take Point (LTP)

UL I	Section 14	Township 23S	Range 28E	Lot	Feet 2,310	From N/S FSL	Feet 330	From E/W FEL	County EDDY
Latitude 32.304618					Longitude 104.050661			NAD NAD 86/86	

Is this well the defining well for the Horizontal Spacing Unit?

☐ NO

Is this well an infill well?

☐ YES

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name: CHEVRON USA INC	Property Name: CB BERU 23 14 FED 06	Well Number 402H

KZ 06/29/2018