

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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Form C-102

JAN 14 2020 Revised August 1, 2011

Submit one copy to appropriate

EMNRD-OCD ARTESIA District Office

☒ AMENDED REPORT
AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-44639		² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 320646	⁵ Property Name CB SE 5 32 FED COM		⁶ Well Number 13H
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.		⁹ Elevation 3028'

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	5	24 SOUTH	29 EAST, N.M.P.M.		380'	SOUTH	1250'	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
A	32	23 SOUTH	29 EAST, N.M.P.M.		168'	NORTH	341'	EAST	EDDY

¹² Dedicated Acres 640	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 ACTUAL BOTTOM HOLE LOCATION X= 603,335 Y= 461,374 LAT. 32.267991 N LONG. 103.999015 W NAD 27 X= 644,518 Y= 461,433 LAT. 32.268114 N LONG. 103.999505 W NAD83/86 FINAL BOTTOM TAKE POINT X= 603,354 Y= 460,546 LAT. 32.265716 N LONG. 103.998960 W NAD 27 X= 644,538 Y= 460,606 LAT. 32.265838 N LONG. 103.999450 W NAD83/86 CORNER COORDINATES TABLE (NAD 27) A - Y=461537.13, X=601028.36 B - Y=461542.17, X=603672.21 C - Y=456270.49, X=601137.17 D - Y=456251.69, X=603786.69 E - Y=450962.21, X=601166.20 F - Y=450947.72, X=603814.23 FINAL TOP TAKE POINT X= 603,462 Y= 451,332 LAT. 32.240385 N LONG. 103.998704 W NAD 27 X= 644,646 Y= 451,391 LAT. 32.240508 N LONG. 103.999193 W NAD83/86 CB SE 5 32 FED COM NO. 13H WELL X= 602,562 Y= 451,334 LAT. 32.240399 N LONG. 104.001614 W NAD 27 X= 643,746 Y= 451,393 LAT. 32.240522 N LONG. 104.002104 W NAD83/86 ELEVATION +3028' NAVD 88	Final Bottom Take Point @ 19,490' MD 995.30 FNL, 339.36 FEL Sec. 32 T23S-R29E T24S-R29E Sec. 5 Final Top Take Point @ 10,257' MD 382.23' FSL, 350.10' FEL	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. <i>Kayla McConnell</i> 2/7/2019 Signature Date Kayla McConnell Printed Name <i>gncv@chevron.com</i> E-mail Address 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. 11/10/2016 Date of Survey <i>Robert L. Lastrapes</i> Signature and Seal of Professional Surveyor 23006 Certificate Number 11/13/2018
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RWP 1-23-2020

Intent ☐ As Drilled ☒

API #
30-015-44639

Operator Name:
CHEVRON USA INC

Property Name:
CB SE 5 32 FED COM

Well Number
13H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude			NAD	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	5	24S	29E		382	S	350	E	EDDY
Latitude 32.240508					Longitude -103.999793			NAD 83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	32	23S	29E		995	N	339	E	EDDY
Latitude 32.265838					Longitude -103.999450			NAD 83	

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 #
30-015-44638

Operator Name:

Property Name:
CB SE 5 32 FED COM

Well Number
12H

KZ 06/29/2018



Actual Wellpath Report

CB SE 5 32 Federal Com No. 013H_awp
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EMNRD-OCD ARTESIA **BAKER HUGHES**
a GE company



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	CB SE 5 32 Federal Com No. 013H
Area	Eddy County, NM	Well	CB SE 5 32 Federal Com No. 013H
Field	Purple Sage, Wolfcamp(Eddy Co., NM) NAD27	Wellbore	CB SE 5 32 Federal Com No. 013H
Facility	CB 24 29 Sec 5 32 Pad 1		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Gilbjosi
Scale	0.999921	Report Generated	14-Sep-18 at 1:40:21 PM
Convergence at slot	0.18° East	Database/Source file	WA_HOU_Midland_Defn/CB_SE_5_32_Federal_Com_No._013H_awp.xml

WELLPATH LOCATION

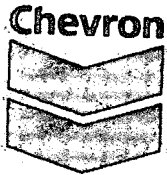
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	50.00	602562.00	451334.00	32°14'25.436"N	104°00'05.814"W
Facility Reference Pt			602512.00	451334.00	32°14'25.437"N	104°00'06.396"W
Field Reference Pt			152400.30	0.00	30°59'42.846"N	105°26'33.659"W

WELLPATH DATUM

Calculation method	Minimum curvature		
Horizontal Reference Pt	Slot	Patterson 257 (KB) to Facility Vertical Datum	3056.00ft
Vertical Reference Pt	Patterson 257 (KB)	Patterson 257 (KB) to Mean Sea Level	3056.00ft
MD Reference Pt	Patterson 257 (KB)	Patterson 257 (KB) to Ground Level at Slot (CB SE 5 32 Federal Com No. 013H)	28.00ft
Field Vertical Reference	Mean Sea Level	Section Origin	N 0.00, E 0.00 ft
		Section Azimuth	359.23°

We hereby certify that the surveys contained herein, are to the best of our knowledge a true and accurate account of the well.

MWD COORDINATOR



Actual Wellpath Report

CB SE 5 32 Federal Com No. 013H_awp
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REFERENCE WELLPATH IDENTIFICATION

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Field	Purple Sage, Wolfcamp(Eddy Co., NM) NAD27			Wellbore	CB SE 5 32 Federal Com No. 013H
Facility	CB 24 29 Sec 5 32 Pad 1				

WELLPATH DATA (177 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	67.340	0.00	0.00	0.00	0.00	602562.00	451334.00	32°14'25.436"N	104°00'05.814"W	0.00	0.00	0.00	
28.00	0.000	67.340	28.00	0.00	0.00	0.00	602562.00	451334.00	32°14'25.436"N	104°00'05.814"W	0.00	0.00	0.00	
158.00	0.150	67.340	158.00	0.06	0.07	0.16	602562.16	451334.07	32°14'25.436"N	104°00'05.812"W	0.12	0.12	51.80	
343.00	3.150	130.130	342.90	-3.18	-3.12	4.27	602566.27	451330.88	32°14'25.405"N	104°00'05.764"W	1.67	1.62	33.94	
427.00†	2.340	168.930	426.81†	-26.37†	-26.29†	6.36†	602568.36†	451327.71†	32°14'25.373"N	104°00'05.740"W	2.35†	2.09†	46.19†	17.1/2 Surface (28) 1'58" 427.00
516.00	3.070	146.930	515.72	-10.18	-10.07	8.01	602570.01	451323.93	32°14'25.336"N	104°00'05.721"W	1.41	0.82	-24.72	
605.00	4.910	116.350	604.51	-13.93	-13.76	12.73	602574.72	451320.24	32°14'25.299"N	104°00'05.666"W	3.09	2.07	-34.36	
697.00	6.420	111.060	696.06	-17.63	-17.35	21.05	602583.05	451316.65	32°14'25.263"N	104°00'05.569"W	1.73	1.64	-5.75	
791.00	5.020	102.950	789.59	-20.56	-20.16	29.97	602591.96	451313.84	32°14'25.235"N	104°00'05.466"W	1.72	-1.49	-8.63	
884.00†	4.860	100.070	882.24†	-22.27†	-21.76†	37.81†	602599.81†	451312.24†	32°14'25.219"N	104°00'05.374"W	10.32†	20.17†	3.10†	
1074.00	4.060	101.100	1071.66	-25.17	-24.47	52.34	602614.33	451309.54	32°14'25.192"N	104°00'05.205"W	0.42	-0.42	0.54	
1169.00	3.320	94.020	1166.47	-26.09	-25.31	58.38	602620.38	451308.69	32°14'25.183"N	104°00'05.135"W	0.91	-0.78	-7.45	
1265.00	5.890	115.830	1262.16	-28.53	-27.65	65.59	602627.58	451306.35	32°14'25.160"N	104°00'05.051"W	3.19	2.68	22.72	
1456.00	5.540	115.770	1452.21	-37.04	-35.93	82.71	602644.71	451298.08	32°14'25.078"N	104°00'04.852"W	0.18	-0.18	-0.03	
1647.00†	6.020	113.790	1642.24†	-45.32†	-43.98†	100.51†	602662.51†	451290.03†	32°14'24.997"N	104°00'04.649"W	0.127†	0.25†	1.04†	
1838.00	9.050	109.410	1831.57	-54.67	-53.01	123.52	602685.51	451280.99	32°14'24.907"N	104°00'04.378"W	1.61	1.59	-2.29	
2030.00	9.190	108.400	2021.14	-64.91	-62.87	152.31	602714.30	451271.14	32°14'24.809"N	104°00'04.043"W	0.11	0.07	-0.53	
2221.00	12.020	113.550	2208.86	-78.11	-75.63	185.02	602747.01	451258.37	32°14'24.682"N	104°00'03.662"W	1.56	1.48	2.70	
2413.00	12.630	111.190	2396.44	-94.19	-91.21	222.92	602784.90	451242.80	32°14'24.526"N	104°00'03.222"W	0.41	0.32	-1.23	
2604.00†	12.890	112.870	2582.72†	-110.55†	-107.03†	262.02†	602824.00†	451226.97†	32°14'24.369"N	104°00'02.767"W	0.24†	0.14†	0.88†	
2795.00	12.690	109.250	2768.98	-126.27	-122.23	301.46	602863.43	451211.78	32°14'24.217"N	104°00'02.308"W	0.43	-0.10	-1.90	
2986.00	11.390	106.390	2955.78	-139.02	-134.47	339.36	602901.33	451199.54	32°14'24.095"N	104°00'01.868"W	0.75	-0.68	-1.50	
3177.00	13.800	106.390	3142.17	-151.31	-146.22	379.31	602941.28	451187.79	32°14'23.977"N	104°00'01.403"W	1.26	1.26	0.00	
3368.00	13.310	105.510	3327.85	-164.19	-158.53	422.35	602984.32	451175.48	32°14'23.854"N	104°00'00.902"W	0.28	-0.26	-0.46	
3560.00†	12.840	104.850	3514.87†	-176.13†	-169.91†	464.27†	603026.23†	451164.11†	32°14'23.740"N	104°00'00.415"W	0.26†	0.24†	0.34†	
3751.00	12.440	104.620	3701.24	-187.30	-180.54	504.69	603066.65	451153.48	32°14'23.634"N	103°59'59.944"W	0.21	-0.21	-0.12	
3942.00	11.090	103.900	3888.22	-197.42	-190.14	542.43	603104.38	451143.87	32°14'23.538"N	103°59'59.505"W	0.71	-0.71	-0.38	
4134.00	10.580	110.030	4076.81	-208.35	-200.62	576.91	603138.87	451133.40	32°14'23.433"N	103°59'59.104"W	0.66	-0.27	3.19	
4325.00	11.560	118.910	4264.27	-224.06	-215.88	610.14	603172.10	451118.14	32°14'23.281"N	103°59'58.718"W	1.03	0.51	4.65	
4517.00†	11.160	114.880	4452.51†	-241.63†	-232.99†	643.84†	603205.79†	451101.02†	32°14'23.110"N	103°59'58.326"W	0.46†	0.21†	2.10†	



Actual Wellpath Report

CB SE 5 32 Federal Com No. 013H_awp
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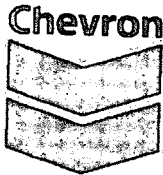


REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	CB SE 5 32 Federal Com No. 013H
Area	Eddy County, NM	Well	CB SE 5 32 Federal Com No. 013H
Field	Purple Sage, Wolfcamp(Eddy Co., NM) NAD27	Wellbore	CB SE 5 32 Federal Com No. 013H
Facility	CB 24 29 Sec 5 32 Pad 1		

WELLPATH DATA (177 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
4708.00	11.730	111.300	4639.71	-256.92	-247.82	678.70	603240.65	451086.20	32°14'22.963"N	103°59'57.921"W	0.48	0.30	-1.87	
4899.00	11.900	111.060	4826.66	-271.54	-261.95	715.17	603277.11	451072.07	32°14'22.822"N	103°59'57.497"W	0.09	0.09	-0.13	
5091.00	11.190	111.220	5014.78	-285.88	-275.81	751.01	603312.95	451058.21	32°14'22.683"N	103°59'57.080"W	0.37	-0.37	0.08	
5282.00	11.070	113.040	5202.19	-300.22	-289.69	785.16	603347.09	451044.33	32°14'22.545"N	103°59'56.683"W	0.19	-0.06	0.95	
5473.00	9.860	115.330	5390.01	-314.82	-303.87	816.81	603378.75	451030.16	32°14'22.404"N	103°59'56.315"W	0.67	-0.63	1.20	
5664.00	8.460	112.230	5578.57	-327.50	-316.18	844.60	603406.53	451017.84	32°14'22.281"N	103°59'55.992"W	0.78	-0.73	-1.62	
5856.00	7.560	110.810	5768.69	-337.67	-326.01	869.48	603431.41	451008.01	32°14'22.183"N	103°59'55.703"W	0.48	-0.47	-0.74	
6047.00	6.230	110.630	5958.31	-346.07	-334.13	890.93	603452.86	450999.90	32°14'22.102"N	103°59'55.453"W	0.70	-0.70	-0.09	
6238.00	4.440	101.610	6148.47	-351.44	-339.27	907.87	603469.80	450994.76	32°14'22.051"N	103°59'55.256"W	1.03	-0.94	-4.72	
6429.00	2.540	109.520	6339.11	-353.78	-341.46	919.29	603481.21	450992.57	32°14'22.029"N	103°59'55.123"W	1.00	-0.99	-1.09	
6621.00	1.330	102.130	6531.00	-355.04	-342.63	925.66	603487.59	450991.40	32°14'22.017"N	103°59'55.049"W	0.63	-0.63	1.36	
6746.00	0.780	105.910	6655.98	-355.60	-343.16	927.90	603489.82	450990.86	32°14'22.011"N	103°59'55.023"W	-0.44	-0.44	3.02	12 1/4" Intermediate (427') 516' - 6746'
6817.00	0.490	123.160	6726.97	-355.91	-343.46	928.62	603490.54	450990.56	32°14'22.008"N	103°59'55.015"W	0.48	-0.41	24.30	
7008.00	0.310	164.300	6917.97	-356.87	-344.41	929.44	603491.37	450989.62	32°14'21.999"N	103°59'55.005"W	0.17	-0.09	21.54	
7199.00	0.760	173.800	7108.96	-357.03	-344.55	930.80	603492.72	450989.48	32°14'21.998"N	103°59'54.989"W	0.43	-0.24	-47.38	
7390.00	1.810	283.850	7299.94	-355.93	-343.48	929.08	603491.01	450990.55	32°14'22.008"N	103°59'55.009"W	1.31	0.55	-78.51	
7581.00	2.160	290.030	7490.82	-353.89	-341.52	922.77	603484.70	450992.51	32°14'22.028"N	103°59'55.083"W	0.21	0.18	3.24	
7772.00	1.350	296.230	7681.73	-351.59	-339.29	917.37	603479.30	450994.73	32°14'22.050"N	103°59'55.146"W	0.43	-0.42	3.25	
7963.00	1.300	292.590	7872.68	-349.71	-337.47	913.36	603475.28	450996.56	32°14'22.068"N	103°59'55.192"W	0.05	-0.03	-1.91	
8154.00	1.530	329.480	8063.62	-346.64	-334.44	910.06	603471.99	450999.59	32°14'22.098"N	103°59'55.231"W	0.48	-0.12	-19.31	
8346.00	2.380	12.690	8255.52	-340.54	-328.34	909.63	603471.56	451005.69	32°14'22.159"N	103°59'55.235"W	0.86	0.44	22.51	
8537.00	1.300	288.650	8446.45	-335.96	-323.78	908.45	603470.38	451010.25	32°14'22.204"N	103°59'55.249"W	1.36	-0.57	-44.00	
8729.00	1.050	259.310	8638.41	-335.54	-323.41	904.66	603466.59	451010.62	32°14'22.208"N	103°59'55.293"W	0.33	-0.13	-15.28	
8920.00	0.930	216.280	8829.38	-337.07	-324.98	902.02	603463.95	451009.04	32°14'22.192"N	103°59'55.324"W	0.38	-0.06	-22.53	
9016.00	1.150	228.980	8925.37	-338.32	-326.24	900.84	603462.76	451007.78	32°14'22.180"N	103°59'55.338"W	0.33	0.23	-13.23	
9112.00	0.590	281.910	9021.36	-338.83	-326.77	899.62	603461.55	451007.25	32°14'22.175"N	103°59'55.352"W	0.96	-0.58	55.14	
9207.00	0.570	272.200	9116.35	-338.70	-326.65	898.67	603460.60	451007.37	32°14'22.176"N	103°59'55.363"W	0.11	-0.02	-10.22	
9303.00	0.140	82.740	9212.35	-338.66	-326.62	898.31	603460.24	451007.41	32°14'22.176"N	103°59'55.367"W	0.74	-0.45	177.65	
9399.00	0.060	176.550	9308.35	-338.70	-326.66	898.43	603460.36	451007.37	32°14'22.176"N	103°59'55.366"W	0.16	-0.08	97.72	
9481.00	0.240	271.480	9390.35	-338.74	-326.69	898.26	603460.19	451007.33	32°14'22.175"N	103°59'55.368"W	0.31	0.22	15.77	11 1/2" BH MWD 6817-9481



Actual Wellpath Report

CB SE 5 32 Federal Com No. 013H_awp
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HUGHES
a GE company



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WELLPATH DATA (177 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
9540.00	0.450	298.620	9449.35	-338.62	-326.58	897.94	603459.86	451007.45	32°14'22.176"N	103°59'55.371"W	0.44	0.36	46.00	
9599.00	1.040	336.480	9508.34	-338.01	-325.98	897.52	603459.45	451008.05	32°14'22.182"N	103°59'55.376"W	1.25	1.00	64.17	
9693.00	9.510	354.220	9601.86	-329.47	-317.45	896.40	603458.32	451016.57	32°14'22.267"N	103°59'55.389"W	9.07	9.01	18.87	
9788.00	16.660	358.270	9694.34	-308.01	-296.01	895.19	603457.12	451038.02	32°14'22.479"N	103°59'55.402"W	7.58	7.53	4.26	
9882.00	25.530	359.160	9781.95	-274.21	-262.22	894.49	603456.41	451071.81	32°14'22.813"N	103°59'55.409"W	19.44	19.44	10.95	
9977.00	35.720	358.120	9863.59	-225.89	-213.90	893.27	603455.20	451120.12	32°14'23.292"N	103°59'55.422"W	10.74	10.73	-1.09	
10071.00	45.160	2.900	9935.07	-165.04	-153.04	894.06	603455.99	451180.97	32°14'23.894"N	103°59'55.410"W	10.56	10.04	5.09	
10166.00	54.450	1.930	9996.32	-92.67	-80.62	897.07	603459.00	451253.39	32°14'24.610"N	103°59'55.373"W	9.81	9.78	-1.02	
10260.00	64.930	2.150	10043.69	-11.73	0.37	899.97	603461.89	451334.37	32°14'25.412"N	103°59'55.336"W	11.15	11.15	0.23	
10355.00	74.780	2.050	10076.37	777.24	89.39	903.23	603465.16	451423.38	32°14'26.292"N	103°59'55.295"W	10.37	10.37	-0.11	
10450.00	84.840	359.350	10093.16	170.58	182.75	904.33	603466.26	451516.74	32°14'27.216"N	103°59'55.278"W	10.95	10.59	-2.84	
10495.00	88.830	359.880	10095.64	215.50	227.67	904.03	603465.96	451561.65	32°14'27.661"N	103°59'55.280"W	8.94	8.87	1.18	
10544.00	90.560	0.520	10095.90	264.49	276.67	904.20	603466.13	451610.65	32°14'28.146"N	103°59'55.277"W	3.76	3.53	1.31	
10639.00	89.910	0.570	10095.51	359.47	371.66	905.11	603467.03	451705.63	32°14'29.086"N	103°59'55.263"W	0.69	-0.68	0.05	
10733.00	92.100	359.830	10093.86	453.43	465.64	905.44	603467.36	451799.61	32°14'30.016"N	103°59'55.255"W	2.46	2.33	0.79	
10827.00	88.800	358.470	10093.12	547.42	559.61	904.04	603465.97	451893.57	32°14'30.946"N	103°59'55.268"W	3.80	-3.51	-1.45	
10921.00	90.490	358.950	10093.71	641.41	653.59	901.93	603463.85	451987.53	32°14'31.875"N	103°59'55.289"W	1.87	1.80	0.51	
11014.00	90.250	357.630	10093.11	734.39	746.54	899.15	603461.08	452080.48	32°14'32.795"N	103°59'55.318"W	1.44	-0.26	-1.42	
11108.00	92.960	358.540	10090.47	828.32	840.44	896.01	603457.94	452174.37	32°14'33.725"N	103°59'55.351"W	3.04	2.88	0.97	
11202.00	93.540	357.990	10085.14	922.16	934.25	893.17	603455.10	452268.17	32°14'34.653"N	103°59'55.381"W	10.85	10.62	20.59	
11295.00	93.320	359.630	10079.58	1014.99	1027.06	891.24	603453.17	452360.97	32°14'35.571"N	103°59'55.400"W	1.78	-0.24	1.76	
11388.00	92.250	0.580	10075.06	1107.86	1119.94	891.41	603453.34	452453.85	32°14'36.491"N	103°59'55.395"W	1.54	-1.15	1.02	
11482.00	91.420	2.040	10072.05	1201.75	1213.87	893.56	603455.49	452547.77	32°14'37.420"N	103°59'55.366"W	1.79	-0.88	1.55	
11576.00	89.080	2.530	10071.64	1295.61	1307.78	897.31	603459.23	452641.68	32°14'38.349"N	103°59'55.319"W	2.54	-2.49	0.52	
11670.00	90.370	2.180	10072.09	1389.47	1401.70	901.17	603463.10	452735.59	32°14'39.278"N	103°59'55.271"W	1.42	1.37	0.37	
11764.00	89.660	1.890	10072.07	1483.35	1495.64	904.51	603466.43	452829.52	32°14'40.208"N	103°59'55.229"W	0.82	-0.76	-0.31	
11858.00	92.470	2.220	10070.32	1577.21	1589.56	907.88	603469.80	452923.43	32°14'41.137"N	103°59'55.186"W	3.01	2.99	0.35	
11950.00	90.150	0.440	10068.22	1669.12	1681.50	910.01	603471.94	453015.36	32°14'42.047"N	103°59'55.158"W	3.18	-2.52	-1.93	
12044.00	92.770	0.860	10065.82	1763.05	1775.45	911.08	603473.00	453109.31	32°14'42.976"N	103°59'55.142"W	2.82	2.79	0.45	
12137.00	90.000	358.770	10063.57	1856.00	1868.41	910.78	603472.70	453202.26	32°14'43.896"N	103°59'55.142"W	3.73	2.98	2.25	



Actual Wellpath Report

CB SE 5 32 Federal Com No. 013H_awp
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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	CB SE 5 32 Federal Com No. 013H
Area	Eddy County, NM	Well	CB SE 5 32 Federal Com No. 013H
Field	Purple Sage, Wolfcamp(Eddy Co., NM) NAD27	Wellbore	CB SE 5 32 Federal Com No. 013H
Facility	CB 24 29 Sec 5 32 Pad 1		

WELLPATH DATA (177 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
12232.00	91.140	357.970	10062.63	1950.98	1963.37	908.07	603470.00	453297.21	32°14'44.836"N	103°59'55.170"W	1.47	1.20	-0.84	
12326.00	92.870	358.570	10059.34	2044.91	2057.26	905.24	603467.16	453391.09	32°14'45.765"N	103°59'55.200"W	1.95	1.84	0.64	
12421.00	90.650	357.750	10056.42	2139.84	2152.16	902.19	603464.12	453485.99	32°14'46.704"N	103°59'55.232"W	2.49	-2.34	-0.86	
12515.00	91.700	356.720	10054.50	2233.76	2246.03	897.66	603459.58	453579.85	32°14'47.633"N	103°59'55.281"W	1.56	1.12	-1.10	
12609.00	88.150	356.160	10054.62	2327.64	2339.83	889.82	603453.75	453673.64	32°14'48.562"N	103°59'55.346"W	3.82	-2.78	-0.60	
12704.00	90.220	358.410	10055.97	2422.56	2434.70	887.32	603449.25	453768.51	32°14'49.501"N	103°59'55.395"W	3.22	2.18	2.37	
12799.00	89.110	358.270	10056.53	2517.55	2529.66	884.57	603446.50	453863.46	32°14'50.440"N	103°59'55.423"W	1.18	-1.17	-0.15	
12893.00	87.750	357.960	10059.10	2611.49	2623.57	881.48	603443.41	453957.36	32°14'51.370"N	103°59'55.456"W	1.48	-1.45	-0.33	
12988.00	88.860	358.160	10061.91	2706.43	2718.48	878.26	603440.19	454052.26	32°14'52.309"N	103°59'55.490"W	1.19	1.17	0.21	
13082.00	90.150	358.650	10062.72	2800.41	2812.43	875.65	603437.58	454146.21	32°14'53.239"N	103°59'55.517"W	1.47	-1.37	0.52	
13177.00	89.660	357.700	10062.88	2895.39	2907.38	872.62	603434.55	454241.15	32°14'54.179"N	103°59'55.549"W	1.13	-0.52	-1.00	
13271.00	89.200	357.720	10063.82	2989.36	3001.30	868.87	603430.80	454335.06	32°14'55.108"N	103°59'55.589"W	0.49	-0.49	0.02	
13365.00	89.540	357.510	10064.85	3083.31	3095.22	864.96	603426.89	454428.97	32°14'56.037"N	103°59'55.631"W	0.43	0.36	-0.22	
13460.00	90.490	357.430	10064.82	3178.27	3190.12	860.76	603422.69	454523.86	32°14'56.977"N	103°59'55.677"W	1.00	1.00	-0.08	
13555.00	92.070	359.300	10062.70	3273.22	3285.05	858.05	603419.98	454618.79	32°14'57.916"N	103°59'55.705"W	2.58	-1.66	-1.97	
13649.00	90.280	357.530	10060.77	3367.19	3378.99	855.45	603417.38	454712.72	32°14'58.846"N	103°59'55.732"W	2.68	-1.90	-1.88	
13744.00	92.550	358.690	10058.43	3462.13	3473.90	852.32	603414.25	454807.62	32°14'59.785"N	103°59'55.765"W	2.68	2.39	1.22	
13838.00	93.080	0.910	10053.81	3556.01	3567.78	851.99	603413.92	454901.49	32°15'00.714"N	103°59'55.765"W	2.43	0.56	2.36	
13933.00	90.190	1.130	10051.10	3650.91	3662.72	853.68	603415.61	454996.42	32°15'01.653"N	103°59'55.742"W	3.05	-3.04	0.23	
14027.00	90.150	1.310	10050.82	3744.86	3756.70	855.68	603417.61	455090.39	32°15'02.583"N	103°59'55.715"W	0.20	-0.04	0.19	
14122.00	89.200	0.530	10051.36	3839.81	3851.68	857.21	603419.14	455185.37	32°15'03.523"N	103°59'55.694"W	1.29	-1.00	-0.82	
14216.00	90.830	1.020	10051.34	3933.77	3945.67	858.48	603420.41	455279.35	32°15'04.453"N	103°59'55.676"W	1.81	1.73	0.52	
14311.00	91.760	0.890	10049.19	4028.71	4040.63	860.06	603421.99	455374.30	32°15'05.393"N	103°59'55.654"W	0.99	0.98	-0.14	
14411.00	90.190	0.850	10047.49	4128.65	4140.60	861.58	603423.51	455474.26	32°15'06.382"N	103°59'55.633"W	1.57	-1.57	-0.04	
14506.00	87.690	358.640	10049.25	4223.61	4235.57	861.16	603423.09	455569.23	32°15'07.322"N	103°59'55.634"W	3.51	-2.63	-2.33	
14602.00	88.460	358.070	10052.47	4319.55	4331.47	858.40	603420.34	455665.12	32°15'08.271"N	103°59'55.663"W	1.00	0.80	-0.59	
14697.00	90.120	359.010	10053.65	4414.53	4426.43	855.98	603417.92	455760.07	32°15'09.211"N	103°59'55.687"W	2.01	1.75	0.99	
14793.00	92.220	359.550	10051.69	4510.50	4522.40	854.78	603416.71	455856.03	32°15'10.160"N	103°59'55.698"W	2.26	2.19	0.56	
14889.00	91.790	359.670	10048.33	4606.44	4618.34	854.13	603416.06	455951.96	32°15'11.110"N	103°59'55.702"W	0.47	-0.45	0.13	
14984.00	93.240	359.260	10044.16	4701.35	4713.24	853.24	603415.17	456046.86	32°15'12.049"N	103°59'55.709"W	1.59	-1.53	-0.43	



Actual Wellpath Report

CB SE 5 32 Federal Com No. 013H_awp

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HUGHES
a GE company



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	CB SE 5 32 Federal Com No. 013H
Area	Eddy County, NM	Well	CB SE 5 32 Federal Com No. 013H
Field	Purple Sage, Wolfcamp(Eddy Co., NM) NAD27	Wellbore	CB SE 5 32 Federal Com No. 013H
Facility	CB 24 29 Sec 5 32 Pad 1		

WELLPATH DATA (177 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
15080.00	88.920	359.770	10042.35	4797.31	4809.20	852.43	603414.36	456142.81	32°15'12.998"N	103°59'55.715"W	4.53	-4.50	0.53	
15180.00	87.900	0.190	10045.13	4897.26	4909.16	852.39	603414.32	456242.76	32°15'13.987"N	103°59'55.712"W	1.10	-1.02	0.42	
15206.00	88.000	359.960	10046.06	4923.24	4935.14	852.43	603414.36	456268.74	32°15'14.245"N	103°59'55.710"W	0.96	0.38	-0.88	
15301.00	89.420	1.450	10048.19	5018.18	5030.10	853.60	603415.53	456363.70	32°15'15.184"N	103°59'55.693"W	2.17	1.49	1.57	
15397.00	90.960	1.200	10047.88	5114.11	5126.07	855.81	603417.75	456459.66	32°15'16.134"N	103°59'55.664"W	1.63	1.60	2.26	
15493.00	89.410	0.760	10047.57	5210.06	5222.06	857.46	603419.39	456555.63	32°15'17.084"N	103°59'55.641"W	1.68	-1.61	-0.46	
15588.00	88.180	0.740	10049.56	5305.00	5317.02	858.70	603420.63	456650.59	32°15'18.023"N	103°59'55.623"W	1.29	-1.29	-0.02	
15684.00	88.370	0.680	10052.45	5400.93	5412.97	859.89	603421.82	456746.54	32°15'18.973"N	103°59'55.606"W	0.21	0.20	-0.06	
15780.00	89.780	2.440	10054.00	5496.83	5508.92	862.50	603424.43	456842.47	32°15'19.922"N	103°59'55.572"W	2.35	1.47	1.83	
15876.00	90.150	3.250	10054.06	5592.64	5604.80	867.27	603429.20	456938.35	32°15'20.871"N	103°59'55.513"W	0.93	0.93	0.84	
15972.00	86.950	2.060	10056.49	5688.42	5700.65	871.71	603433.64	457034.19	32°15'21.819"N	103°59'55.458"W	3.56	-3.33	-1.24	
16067.00	84.660	358.690	10063.44	5783.13	5795.38	872.34	603434.27	457128.91	32°15'22.756"N	103°59'55.447"W	4.28	-2.41	-3.55	
16163.00	86.450	354.540	10070.89	5878.72	5890.89	866.68	603428.61	457224.42	32°15'23.702"N	103°59'55.510"W	4.70	1.86	-4.32	
16258.00	89.750	353.670	10074.03	5973.27	5985.33	856.93	603418.86	457318.84	32°15'24.636"N	103°59'55.620"W	3.59	3.47	-0.92	
16354.00	88.640	352.980	10075.38	6068.75	6080.66	845.77	603407.71	457414.17	32°15'25.580"N	103°59'55.746"W	1.36	1.16	0.72	
16450.00	88.740	353.770	10077.58	6164.22	6176.00	834.70	603396.63	457509.50	32°15'26.524"N	103°59'55.872"W	0.83	0.10	0.82	
16545.00	90.430	358.000	10078.27	6259.03	6270.72	827.89	603389.82	457604.22	32°15'27.461"N	103°59'55.948"W	4.79	1.78	4.45	
16641.00	93.830	2.900	10074.70	6354.90	6366.61	828.64	603390.57	457700.10	32°15'28.410"N	103°59'55.935"W	6.21	3.54	5.10	
16736.00	90.960	1.580	10070.73	6449.68	6461.44	832.34	603394.28	457794.92	32°15'29.349"N	103°59'55.889"W	3.32	-3.02	-1.39	
16832.00	89.540	0.530	10070.31	6545.62	6557.42	834.11	603396.04	457890.89	32°15'30.298"N	103°59'55.865"W	1.84	1.48	1.09	
16928.00	88.670	1.240	10071.81	6641.57	6653.40	835.59	603397.53	457986.86	32°15'31.248"N	103°59'55.844"W	1.17	-0.91	0.74	
17023.00	87.130	358.750	10075.29	6736.49	6748.32	835.59	603397.52	458081.78	32°15'32.187"N	103°59'55.841"W	3.08	-1.62	-2.62	
17119.00	87.810	359.290	10079.53	6832.39	6844.22	833.95	603395.88	458177.66	32°15'33.136"N	103°59'55.856"W	0.90	0.71	0.56	
17214.00	88.950	359.340	10082.21	6927.35	6939.17	832.81	603394.74	458272.61	32°15'34.076"N	103°59'55.866"W	1.20	1.20	0.05	
17310.00	90.430	359.510	10082.73	7023.35	7035.16	831.85	603393.78	458368.59	32°15'35.026"N	103°59'55.874"W	1.55	1.54	1.18	
17406.00	87.840	359.270	10084.18	7119.33	7131.14	830.83	603392.76	458464.56	32°15'35.975"N	103°59'55.882"W	2.71	-2.70	-0.25	
17501.00	88.580	0.320	10087.15	7214.27	7226.09	830.49	603392.42	458559.50	32°15'36.915"N	103°59'55.883"W	1.35	0.78	1.11	
17597.00	88.770	359.080	10089.37	7310.24	7322.06	829.98	603391.92	458655.47	32°15'37.865"N	103°59'55.885"W	1.31	0.20	-1.29	
17693.00	85.960	354.430	10093.78	7406.02	7417.77	824.56	603386.50	458751.17	32°15'38.812"N	103°59'55.945"W	5.65	-2.93	-4.84	
17789.00	86.370	354.700	10100.21	7501.48	7513.42	815.49	603377.42	458846.51	32°15'39.756"N	103°59'56.047"W	0.51	0.43	0.28	



Actual Wellpath Report

CB SE 5 32 Federal Com No. 013H_awp
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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	CB SE 5 32 Federal Com No. 013H
Area	Eddy County, NM	Well	CB SE 5 32 Federal Com No. 013H
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Facility	CB 24 29 Sec 5 32 Pad 1		

WELLPATH DATA (177 stations)

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17884.00	88.550	356.720	10104.42	7596.20	7607.75	808.39	603370.33	458941.14	32°15'40.692"N	103°59'56.126"W	3.13	2.29	2.13	
17980.00	89.110	356.510	10106.38	7692.08	7703.56	802.73	603364.66	459036.94	32°15'41.641"N	103°59'56.189"W	0.62	0.58	-0.22	
18075.00	88.340	358.310	10108.49	7787.00	7798.44	798.43	603360.37	459131.81	32°15'42.580"N	103°59'56.235"W	2.06	-0.81	1.89	
18171.00	88.460	357.550	10111.17	7882.94	7894.34	794.97	603356.90	459227.70	32°15'43.529"N	103°59'56.272"W	0.80	0.12	-0.79	
18266.00	91.480	357.040	10111.22	7977.88	7989.22	790.48	603352.42	459322.57	32°15'44.468"N	103°59'56.321"W	3.22	-3.18	-0.54	
18362.00	90.460	355.840	10109.59	8073.75	8085.02	784.52	603346.46	459418.36	32°15'45.416"N	103°59'56.387"W	1.64	-1.06	-1.25	
18457.00	90.400	358.680	10108.88	8168.68	8179.90	779.98	603341.92	459513.24	32°15'46.355"N	103°59'56.436"W	2.99	-0.06	2.99	
18553.00	89.850	358.440	10108.67	8264.67	8275.87	777.57	603339.51	459609.20	32°15'47.305"N	103°59'56.461"W	0.63	-0.57	-0.25	
18649.00	92.950	0.050	10106.33	8360.63	8371.81	776.31	603338.24	459705.14	32°15'48.254"N	103°59'56.472"W	3.64	3.23	1.68	
18744.00	92.430	0.670	10101.87	8455.50	8466.71	776.90	603338.84	459800.02	32°15'49.193"N	103°59'56.462"W	0.85	-0.55	-0.65	
18840.00	93.210	1.120	10097.15	8551.34	8562.58	778.40	603340.34	459895.89	32°15'50.142"N	103°59'56.441"W	0.94	0.81	0.47	
18935.00	93.700	1.220	10091.42	8646.12	8657.39	780.34	603342.27	459990.69	32°15'51.080"N	103°59'56.415"W	0.53	0.52	0.11	
19031.00	89.940	0.970	10088.37	8742.00	8753.30	782.17	603344.11	460086.59	32°15'52.029"N	103°59'56.390"W	3.93	-3.92	-0.26	
19127.00	89.970	1.240	10088.45	8837.95	8849.28	784.02	603345.96	460182.57	32°15'52.979"N	103°59'56.365"W	0.28	0.03	0.28	
19222.00	90.340	1.590	10088.19	8932.88	8944.25	786.37	603348.30	460277.53	32°15'53.918"N	103°59'56.334"W	0.54	-0.39	-0.37	
19318.00	89.750	1.870	10088.11	9028.79	9040.21	789.26	603351.20	460373.48	32°15'54.868"N	103°59'56.297"W	0.68	-0.61	0.29	
19413.00	89.140	0.340	10089.03	9123.73	9135.19	791.10	603353.03	460468.45	32°15'55.807"N	103°59'56.272"W	1.73	-0.64	-1.61	
19509.00	90.710	1.110	10089.16	9219.69	9231.17	792.31	603354.25	460564.43	32°15'56.757"N	103°59'56.255"W	1.82	1.64	0.80	
19604.00	91.350	0.040	10087.45	9314.65	9326.15	793.26	603355.20	460659.40	32°15'57.697"N	103°59'56.240"W	1.31	0.67	-1.13	
19700.00	85.770	357.930	10089.86	9410.57	9422.06	791.57	603353.50	460755.30	32°15'58.646"N	103°59'56.256"W	6.21	-5.81	-2.20	
19795.00	86.020	358.160	10096.67	9505.31	9516.76	788.33	603350.27	460849.99	32°15'59.583"N	103°59'56.290"W	0.36	0.26	0.24	
19891.00	88.180	357.080	10101.52	9601.14	9612.55	784.35	603346.29	460945.77	32°16'00.531"N	103°59'56.333"W	2.51	2.25	-1.13	
19987.00	88.370	357.100	10104.41	9697.03	9708.38	779.48	603341.42	461041.60	32°16'01.480"N	103°59'56.387"W	0.20	0.20	0.02	
20082.00	89.880	357.650	10105.86	9791.97	9803.27	775.13	603337.07	461136.48	32°16'02.419"N	103°59'56.434"W	1.69	1.59	0.58	
20178.00	91.570	359.010	10104.65	9887.94	9899.22	772.33	603334.27	461232.42	32°16'03.368"N	103°59'56.463"W	2.26	-1.76	-1.42	
20264.00	94.600	0.530	10100.02	9973.80	9985.08	771.99	603333.92	461318.27	32°16'04.218"N	103°59'56.464"W	3.94	3.52	1.77	3/4 BH MWD 9540-20264
20319.00	94.600	0.530	10095.61	10028.61	10039.90	772.49	603334.43	461373.09	32°16'04.760"N	103°59'56.456"W	0.00	0.00	0.00	Projection to bit 20319



Actual Wellpath Report

CB SE 5 32 Federal Com No. 013H_awp

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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	CB SE 5 32 Federal Com No. 013H
Area	Eddy County, NM	Well	CB SE 5 32 Federal Com No. 013H
Field	Purple Sage, Wolfcamp(Eddy Co., NM) NAD27	Wellbore	CB SE 5 32 Federal Com No. 013H
Facility	CB 24 29 Sec 5 32 Pad 1		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
CB SE 5 32 FED COM 13H 2	10055.00	3129.92	877.68	603439.61	454463.67	32°14'56.380"N	103°59'55.482"W	point
CB SE 5 32 FED COM 13H 3	10061.00	4562.79	858.37	603420.30	455896.42	32°15'10.560"N	103°59'55.655"W	point
CB SE 5 32 FED COM 13H 5	10081.00	8366.44	807.12	603369.05	459699.76	32°15'48.200"N	103°59'56.113"W	point
CB SE 5 32 FED COM 13H FTP rev 2	10083.00	-54.46	920.58	603482.51	451279.54	32°14'24.868"N	103°59'55.098"W	point
CB SE 5 32 FED COM 13H LTP	10084.00	9878.35	787.36	603349.30	461211.55	32°16'03.161"N	103°59'56.289"W	point
CB SE 5 32 FED COM 13H PBHL rev 2	10088.00	9928.80	786.06	603348.00	461262.00	32°16'03.661"N	103°59'56.302"W	point
CB SE 5 32 FED COM 13H 1	10091.00	1305.08	902.27	603464.20	452638.97	32°14'38.322"N	103°59'55.262"W	point
CB SE 5 32 FED COM 13H 4	10093.00	6940.57	826.33	603388.26	458274.01	32°15'34.090"N	103°59'55.942"W	point

WELLPATH COMPOSITION - Ref Wellbore: CB SE 5 32 Federal Com No. 013H Ref Wellpath: CB SE 5 32 Federal Com No. 013H_awp

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
28.00	427.00	BHI NaviTrak (Axial)	17 1/2" Surface (28') 158' - 427'	CB SE 5 32 Federal Com No. 013H
427.00	6746.00	BHI NaviTrak (Axial)	12 1/4" Intermediate (427') 516' - 6746'	CB SE 5 32 Federal Com No. 013H
6746.00	9481.00	BHI NaviTrak (Axial)	8 1/2 BH MWD 6817-9481	CB SE 5 32 Federal Com No. 013H
9481.00	20264.00	BHI NaviTrak (Axial)	6 3/4 BH MWD 9540-20264	CB SE 5 32 Federal Com No. 013H
20264.00	20319.00	Blind Drilling (std)	Projection to bit	CB SE 5 32 Federal Com No. 013H



Actual Wellpath Report

CB SE 5 32 Federal Com No. 013H_awp

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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	CB SE 5 32 Federal Com No. 013H
Area	Eddy County, NM	Well	CB SE 5 32 Federal Com No. 013H
Field	Purple Sage, Wolfcamp(Eddy Co., NM) NAD27	Wellbore	CB SE 5 32 Federal Com No. 013H
Facility	CB 24 29 Sec 5 32 Pad 1		

COMMENTS

Wellpath general comments

Well: CB SE 5 32 Federal Com No. 013H
Field: Purple Sage, Wolfcamp
Rig: Patterson 257
Location: Eddy Co., NM
API: 300-154-4639-00
Latitude: 32° 14' 25.436" N
Longitude: 104° 00' 05.814" W
DF Elevation: 3056.00 feet
Elev. GL: 3028.00 feet
Proposed Direction: 359.23°
PBHL: 20319.00 feet
Duration: 3/18/2018-8/26/2018
FSE's: S. Dinh
SO#: 9059593
17 1/2" Surface (28') 158' - 427'
12 1/4" Intermediate (427') 516' - 6746'
8 1/2 BH MWD 6817-9481
6 3/4 BH MWD 9540-20264
Projection to bit 20319