

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Carlsbad Field Office

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.*5. Lease Serial No.
NMNM118723

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other: INJECTION

2. Name of Operator

CHEVRON USA INCORPORATED

Contact: LAURA BECERRA

E-Mail: LBECERRA@CHEVRON.COM

8. Well Name and No.

AELSTROM SWD 1

9. API Well No.

30-025-45127-00-X1

3a. Address

6301 DEAUVILLE BLVD
MIDLAND, TX 79706

3b. Phone No. (include area code)

Ph: 432-687-7655

10. Field and Pool or Exploratory Area

SWD-SILURIAN

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 15 T26S R32E NWSE 2050FSL 1793FEL
32.041229 N Lat, 103.659966 W Lon

11. County or Parish, State

LEA COUNTY, NM

12. CHECK THE 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	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Drilling Operations
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 recomple 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

12/14/18-2/14/19 - Drilled 12-1/4" hole to 17,159'

2/18/19 - Ran 9-5/8", 53.50#, TN110HS liner to 17,152', float collar @ 17,107', float shoe @ 17,152'.

2/19/19 - Notified Stephen Caffey @ BLM of intent to cement 9-5/8" liner.

2/20/19 - Cement liner in place w/Tail: 1963 sx, Class H, Yld: 1.21 cuft/sk, Vol: 423 bbls, 75 bbls spacer & 28 bbls cmt to surface, WOC per BLM requirements.

2/22/19 - Notified Jim McCormick @ BLM of intent to run & cement 9-5/8" tieback. Ran 9-5/8" tieback to 11,579'.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #464119 verified by the BLM Well Information System
For CHEVRON USA INCORPORATED, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 05/06/2019 (19PP1771SE)

Name (Printed/Typed) LAURA BECERRA

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 05/03/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Accepted for Record

MAY 08 2019

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

Jonathon Shepard
Carlsbad Field Office

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.

(Instructions on page 2)

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

Additional data for EC transaction #464119 that would not fit on the form

32. Additional remarks, continued

2/24/19 - Cement in place w/Tail: 3302sx, Class H, Yld: 1.19cuft/sk, Vol: 700 bbls, 60 bbls spacer & 40 bbls cmt to surface, WOC per BLM requirements.

2/26/19 - Test 9-5/8" csg to 3000 psi for 30 min, test good.

2/28/19-3/5/19 - Drilled 8-1/2" hole to 17,565'

3/5/19 - Notified Kristi Pruitt @ BLM of intent to run and cement liner.

3/6/19 - Ran 7" 26#, L-80 liner to 17,563'; float collar @ 17,520', float shoe @ 17,563'.

3/7/19 - Cement from 17,141' to 17,563' w/Tail: 142sx, Yld: 1.53cuft/sk, Vol: 39 bbls.

3/10/19 - Test 7" liner & 9-5/8" csg to 4,850 psi for 30 min, test good.

3/13/19 - Drilled 6-1/8" hole to 18,941'.

3/18/19 - Reached 18,941' TD.

3/20/19 - notified Jon Staton @ BLM of upcoming BOP test. Perform 6.125" open hole wireline evaluation log. Full BOP test.

3/25/19 - Set injection packer, pressure test.

3/27/19 - Notified Paul Flowers @ BLM of intent to run tubing. Ran 4" injection tubing string to 16,707' & 4.5" to 17,500', anchor seal assembly @ 17,499'.

3/30/19 - Pressure test annulus, tbg & hanger. N/D BOP

3/31/19 - Released rig



Actual Wellpath Report

SD Maelstrom 15 SWD 1_awp (32') 173'-18884' Proj: 18940'
Page 1 of 10

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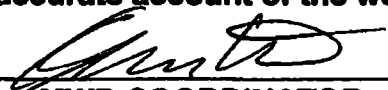
REFERENCE WELLPATH IDENTIFICATION			
Operator	Chevron U.S.A. Inc.	Slot	SD Maelstrom 15 SWD 1
Area	Lea County, NM	Well	SD Maelstrom 15 SWD 1
Field	SWD (Lea County, NM) NAD27	Wellbore	SD Maelstrom 15 SWD 1 AWB
Facility	SD Maelstrom 15 SWD 1		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Moyagusa
Scale	0.999959	Report Generated	25/Apr/2019 at 15:05
Convergence at slot	0.36° 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	0.00	708796.00	379331.00	32°02'27.978"N	103°39'34.172"W
Facility Reference Pt			708796.00	379331.00	32°02'27.978"N	103°39'34.172"W
Field Reference Pt			152400.30	0.00	30°59'42.846"N	105°26'33.659"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Nabors M 1207 (KB) to Facility Vertical Datum	3200.00ft
Horizontal Reference Pt	Slot	Nabors M 1207 (KB) to Mean Sea Level	3200.00ft
Vertical Reference Pt	Nabors M 1207 (KB)	Nabors M 1207 (KB) to Ground Level at Slot (SD Maelstrom 15 SWD 1)	32.00ft
MD Reference Pt	Nabors M 1207 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	0.00°

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

SD Maelstrom 15 SWD 1_ awp (32') 173'-18884' Proj: 18940'
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Field	SWD (Lea County, NM) NAD27	Wellbore	SD Maelstrom 15 SWD 1 AWB
Facility	SD Maelstrom 15 SWD 1		

WELLPATH DATA (202 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	258.560	0.00	0.00	0.00	0.00	708796.00	379331.00	32°02'27.978"N	103°39'34.172"W	0.00	0.00	0.00	
32.00	0.000	258.560	32.00	0.00	0.00	0.00	708796.00	379331.00	32°02'27.978"N	103°39'34.172"W	0.00	0.00	0.00	
173.00	0.640	258.560	173.00	-0.16	-0.16	-0.77	708795.23	379330.84	32°02'27.976"N	103°39'34.181"W	0.45	0.45	-71.94	24° BHI MWD Surveys 173'-771'
266.00	0.820	266.560	265.99	-0.30	-0.30	-1.95	708794.05	379330.70	32°02'27.975"N	103°39'34.195"W	0.22	0.19	8.60	
359.00	0.890	275.110	358.98	-0.29	-0.29	-3.17	708782.83	379330.71	32°02'27.975"N	103°39'34.209"W	0.18	-0.14	9.18	
462.00	0.590	256.170	461.98	-0.36	-0.36	-4.30	708791.70	379330.64	32°02'27.974"N	103°39'34.222"W	0.23	-0.10	-18.39	
557.00	0.530	299.130	556.97	-0.26	-0.26	-5.16	708790.84	379330.74	32°02'27.975"N	103°39'34.232"W	0.44	-0.06	45.22	
651.00	0.260	312.760	650.97	0.09	0.09	-5.69	708790.31	379331.09	32°02'27.979"N	103°39'34.239"W	0.30	-0.29	14.50	
746.00	0.360	288.660	745.97	0.33	0.33	-6.14	708789.86	379331.33	32°02'27.981"N	103°39'34.244"W	0.17	0.11	-25.37	
771.00	0.420	285.750	770.97	0.40	0.40	-6.29	708789.71	379331.40	32°02'27.982"N	103°39'34.246"W	0.31	0.24	28.36	
833.00	0.540	300.490	832.96	0.65	0.65	-6.75	708789.25	379331.65	32°02'27.985"N	103°39'34.251"W	0.20	0.19	7.66	18-1/2° BHI MWD Surveys 833'-4426'
928.00	0.590	291.440	927.96	1.05	1.05	-7.59	708788.41	379332.05	32°02'27.989"N	103°39'34.261"W	0.11	0.05	-9.53	
1023.00	0.620	309.080	1022.95	1.56	1.56	-8.44	708787.56	379332.56	32°02'27.994"N	103°39'34.270"W	0.20	0.03	18.57	
1118.00	0.650	289.510	1117.95	2.06	2.06	-9.35	708786.65	379333.06	32°02'27.999"N	103°39'34.281"W	0.23	0.03	-20.60	
1212.00	0.620	288.480	1211.94	2.48	2.48	-10.30	708785.70	379333.48	32°02'28.003"N	103°39'34.292"W	0.11	-0.03	9.54	
1307.00	0.620	290.450	1306.94	2.90	2.90	-11.23	708784.77	379333.90	32°02'28.007"N	103°39'34.303"W	0.09	0.00	-8.45	
1402.00	0.490	299.150	1401.93	3.28	3.28	-12.07	708783.93	379334.28	32°02'28.011"N	103°39'34.312"W	0.16	-0.14	9.16	
1497.00	0.510	277.040	1496.93	3.53	3.53	-12.85	708783.16	379334.53	32°02'28.014"N	103°39'34.321"W	0.20	0.02	-23.27	
1592.00	0.540	291.380	1591.93	3.75	3.75	-13.68	708782.32	379334.75	32°02'28.016"N	103°39'34.331"W	0.14	0.03	15.09	
1686.00	0.550	280.230	1685.92	3.99	3.99	-14.54	708781.46	379334.99	32°02'28.018"N	103°39'34.341"W	0.11	0.01	-11.86	
1781.00	0.470	282.800	1780.92	4.16	4.16	-15.37	708780.63	379335.16	32°02'28.020"N	103°39'34.351"W	0.09	-0.08	2.71	
1876.00	0.530	293.080	1875.91	4.41	4.41	-16.15	708779.85	379335.41	32°02'28.022"N	103°39'34.360"W	0.11	0.06	10.82	
1971.00	0.590	283.660	1970.91	4.70	4.70	-17.03	708778.97	379335.70	32°02'28.025"N	103°39'34.370"W	0.12	0.06	-9.92	
2066.00	0.670	271.610	2065.90	4.83	4.83	-18.06	708777.94	379335.83	32°02'28.027"N	103°39'34.382"W	0.16	0.08	-12.68	
2160.00	0.760	266.150	2159.90	4.81	4.81	-19.23	708776.77	379335.81	32°02'28.027"N	103°39'34.396"W	0.12	0.10	-5.81	
2255.00	0.590	267.780	2254.89	4.75	4.75	-20.35	708775.65	379335.75	32°02'28.026"N	103°39'34.409"W	0.18	-0.18	1.72	
2350.00	0.610	278.710	2349.88	4.80	4.80	-21.34	708774.66	379335.80	32°02'28.027"N	103°39'34.420"W	0.12	0.02	11.51	
2445.00	0.770	273.800	2444.88	4.92	4.92	-22.48	708773.53	379335.92	32°02'28.028"N	103°39'34.433"W	0.18	0.17	-5.17	
2540.00	0.850	274.780	2539.87	5.02	5.02	-23.81	708772.19	379336.02	32°02'28.029"N	103°39'34.449"W	0.09	0.08	1.03	
2634.00	1.150	267.840	2633.85	5.05	5.05	-25.45	708770.55	379336.05	32°02'28.029"N	103°39'34.468"W	0.34	0.32	-7.38	



Actual Wellpath Report

SD Maelstrom 15 SWD 1_ awp (32') 173'-18884' Proj: 18940'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD Maelstrom 15 SWD 1
Area	Lea County, NM	Well	SD Maelstrom 15 SWD 1
Field	SWD (Lea County, NM) NAD27	Wellbore	SD Maelstrom 15 SWD 1 AWB
Facility	SD Maelstrom 15 SWD 1		

WELLPATH DATA (202 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
2729.00	1.230	271.240	2728.83	5.03	5.03	-27.42	708768.58	379336.03	32°02'28.029"N	103°39'34.491"W	0.11	0.08	3.58	
2824.00	1.250	273.550	2823.81	5.12	5.12	-29.48	708766.52	379336.12	32°02'28.030"N	103°39'34.515"W	0.06	0.02	2.43	
2919.00	1.350	269.540	2918.79	5.17	5.17	-31.63	708764.37	379336.17	32°02'28.031"N	103°39'34.540"W	0.14	0.11	-4.22	
3014.00	1.290	273.770	3013.76	5.23	5.23	-33.82	708762.18	379336.23	32°02'28.032"N	103°39'34.565"W	0.12	-0.06	4.45	
3109.00	0.880	271.440	3108.74	5.32	5.32	-35.61	708760.39	379336.32	32°02'28.033"N	103°39'34.586"W	0.43	-0.43	-2.45	
3203.00	0.760	272.110	3202.73	5.36	5.36	-36.96	708759.04	379336.36	32°02'28.033"N	103°39'34.601"W	0.13	-0.13	0.71	
3298.00	0.500	318.980	3297.73	5.70	5.70	-37.86	708758.14	379336.70	32°02'28.037"N	103°39'34.612"W	0.58	-0.27	49.34	
3393.00	0.370	321.610	3392.73	6.25	6.25	-38.32	708757.68	379337.25	32°02'28.042"N	103°39'34.617"W	0.14	-0.14	2.77	
3488.00	0.580	355.200	3487.72	6.97	6.97	-38.55	708757.45	379337.97	32°02'28.049"N	103°39'34.620"W	0.36	0.22	35.36	
3583.00	0.510	356.220	3582.72	7.87	7.87	-38.62	708757.38	379338.87	32°02'28.058"N	103°39'34.621"W	0.07	-0.07	1.07	
3677.00	0.690	357.340	3676.71	8.86	8.86	-38.67	708757.33	379339.86	32°02'28.068"N	103°39'34.621"W	0.19	0.19	1.19	
3772.00	0.660	11.360	3771.71	9.96	9.96	-38.59	708757.41	379340.96	32°02'28.079"N	103°39'34.620"W	0.18	-0.03	14.76	
3867.00	0.890	44.800	3866.70	11.02	11.02	-37.97	708758.04	379342.02	32°02'28.089"N	103°39'34.613"W	0.52	0.24	35.20	
3962.00	1.210	72.830	3961.68	11.84	11.84	-36.49	708759.51	379342.84	32°02'28.097"N	103°39'34.595"W	0.63	0.34	29.51	
4058.00	1.410	69.450	4055.68	12.54	12.54	-34.48	708761.55	379343.54	32°02'28.104"N	103°39'34.572"W	0.23	0.21	-3.60	
4151.00	1.760	89.780	4150.62	12.96	12.96	-31.90	708764.10	379343.96	32°02'28.108"N	103°39'34.542"W	0.69	0.37	21.40	
4246.00	2.510	99.060	4245.56	12.64	12.64	-28.39	708767.61	379343.64	32°02'28.105"N	103°39'34.501"W	0.87	0.79	9.77	
4341.00	2.870	104.950	4340.45	11.70	11.70	-24.04	708771.96	379342.70	32°02'28.095"N	103°39'34.451"W	0.48	0.38	6.20	
4426.00	2.780	103.800	4425.35	10.65	10.65	-19.98	708776.02	379341.65	32°02'28.084"N	103°39'34.404"W	0.13	-0.11	-1.35	
4564.00	2.440	108.830	4563.21	8.91	8.91	-13.95	708782.05	379339.91	32°02'28.067"N	103°39'34.334"W	0.30	-0.25	3.64	14-3/4" BHI MWD Surveys 4564'-11905'
4658.00	2.640	107.160	4657.11	7.62	7.62	-9.99	708786.01	379338.62	32°02'28.054"N	103°39'34.288"W	0.23	0.21	-1.78	
4753.00	2.630	106.320	4752.01	6.37	6.37	-5.81	708790.20	379337.37	32°02'28.041"N	103°39'34.239"W	0.04	-0.01	-0.88	
4847.00	2.800	106.610	4845.91	5.10	5.10	-1.54	708794.46	379336.10	32°02'28.028"N	103°39'34.190"W	0.18	0.18	0.31	
4942.00	2.760	104.550	4940.80	3.87	3.87	2.90	708798.90	379334.87	32°02'28.016"N	103°39'34.138"W	0.11	-0.04	-2.17	
5037.00	2.950	104.450	5035.88	2.68	2.68	7.48	708803.48	379333.68	32°02'28.004"N	103°39'34.085"W	0.20	0.20	-0.11	
5132.00	3.150	101.970	5130.54	1.53	1.53	12.40	708808.40	379332.53	32°02'27.992"N	103°39'34.028"W	0.25	0.21	-2.61	
5226.00	3.160	99.900	5224.40	0.55	0.55	17.48	708813.48	379331.55	32°02'27.982"N	103°39'33.969"W	0.12	0.01	-2.20	
5321.00	3.140	103.310	5319.26	-0.50	-0.50	22.59	708818.59	379330.50	32°02'27.971"N	103°39'33.910"W	0.20	-0.02	3.59	
5416.00	3.140	100.100	5414.11	-1.56	-1.56	27.69	708823.69	379329.44	32°02'27.961"N	103°39'33.851"W	0.19	0.00	-3.38	
5511.00	3.230	100.700	5508.97	-2.51	-2.51	32.88	708828.88	379328.49	32°02'27.951"N	103°39'33.791"W	0.10	0.09	0.63	



Actual Wellpath Report

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5605.00	2.920	100.820	5602.83	-3.45	-3.45	37.83	708833.83	379327.55	32°02'27.941"N	103°39'33.733"W	0.33	-0.33	0.13	
5700.00	2.950	102.050	5697.71	-4.41	-4.41	42.60	708838.60	379326.59	32°02'27.931"N	103°39'33.678"W	0.07	0.03	1.29	
5795.00	3.040	99.470	5792.58	-5.34	-5.34	47.48	708843.47	379325.66	32°02'27.922"N	103°39'33.621"W	0.17	0.09	-2.72	
5890.00	3.140	98.820	5887.44	-6.15	-6.15	52.53	708848.53	379324.85	32°02'27.914"N	103°39'33.563"W	0.11	0.11	-0.68	
5952.00	3.230	101.790	5949.34	-6.77	-6.77	55.92	708851.92	379324.23	32°02'27.907"N	103°39'33.523"W	0.30	0.15	4.79	
6047.00	2.950	102.780	6044.21	-7.86	-7.86	60.92	708856.92	379323.14	32°02'27.896"N	103°39'33.465"W	0.30	-0.29	1.04	
6141.00	2.690	105.410	6138.09	-8.98	-8.98	65.41	708861.41	379322.02	32°02'27.885"N	103°39'33.413"W	0.31	-0.28	2.80	
6236.00	2.380	106.880	6233.00	-10.14	-10.14	69.45	708865.44	379320.86	32°02'27.873"N	103°39'33.366"W	0.33	-0.33	1.55	
6331.00	2.300	108.830	6327.92	-11.33	-11.33	73.14	708869.13	379319.67	32°02'27.861"N	103°39'33.324"W	0.12	-0.08	2.05	
6426.00	2.170	115.210	6422.85	-12.71	-12.71	76.57	708872.57	379318.29	32°02'27.847"N	103°39'33.284"W	0.30	-0.14	6.72	
6521.00	1.710	126.710	6517.79	-14.33	-14.33	79.33	708875.33	379316.67	32°02'27.831"N	103°39'33.252"W	0.63	-0.48	12.11	
6615.00	1.170	134.780	6611.76	-15.84	-15.84	81.14	708877.13	379315.16	32°02'27.816"N	103°39'33.231"W	0.61	-0.57	8.59	
6710.00	1.230	132.660	6706.74	-17.22	-17.22	82.58	708878.57	379313.79	32°02'27.802"N	103°39'33.214"W	0.08	0.06	-2.23	
6804.00	0.840	129.700	6800.73	-18.34	-18.34	83.85	708879.84	379312.66	32°02'27.791"N	103°39'33.200"W	0.42	-0.41	-3.15	
6899.00	0.650	127.790	6895.72	-19.11	-19.11	84.81	708880.81	379311.89	32°02'27.783"N	103°39'33.189"W	0.20	-0.20	-2.01	
6993.00	0.650	130.020	6989.71	-19.78	-19.78	85.64	708881.64	379311.22	32°02'27.777"N	103°39'33.179"W	0.03	0.00	2.37	
7087.00	0.570	158.050	7083.71	-20.56	-20.56	86.22	708882.22	379310.44	32°02'27.769"N	103°39'33.172"W	0.32	-0.08	29.82	
7182.00	0.620	172.100	7178.70	-21.51	-21.51	86.47	708882.47	379309.49	32°02'27.760"N	103°39'33.170"W	0.16	0.05	14.79	
7276.00	0.810	182.100	7272.70	-22.68	-22.68	86.52	708882.51	379308.33	32°02'27.748"N	103°39'33.169"W	0.24	0.20	10.64	
7371.00	0.570	189.390	7367.69	-23.81	-23.81	86.41	708882.41	379307.19	32°02'27.737"N	103°39'33.170"W	0.27	-0.25	7.87	
7465.00	0.590	203.670	7461.68	-24.72	-24.72	86.14	708882.14	379306.28	32°02'27.728"N	103°39'33.174"W	0.15	0.02	15.19	
7560.00	0.700	195.800	7556.68	-25.72	-25.72	85.79	708881.78	379305.28	32°02'27.718"N	103°39'33.178"W	0.15	0.12	-8.28	
7654.00	0.770	199.340	7650.67	-26.87	-26.87	85.42	708881.42	379304.13	32°02'27.707"N	103°39'33.182"W	0.09	0.07	3.77	
7749.00	0.730	195.010	7745.66	-28.06	-28.06	85.05	708881.05	379302.94	32°02'27.695"N	103°39'33.186"W	0.07	-0.04	-4.56	
7844.00	0.630	197.800	7840.66	-29.14	-29.14	84.74	708880.73	379301.86	32°02'27.684"N	103°39'33.190"W	0.11	-0.11	2.94	
7940.00	0.480	176.780	7936.65	-30.04	-30.04	84.60	708880.60	379300.96	32°02'27.675"N	103°39'33.192"W	0.26	-0.16	-21.90	
8034.00	0.510	175.760	8030.65	-30.85	-30.85	84.65	708880.65	379300.15	32°02'27.667"N	103°39'33.191"W	0.03	0.03	-1.09	
8129.00	0.590	168.000	8125.64	-31.76	-31.76	84.79	708880.78	379299.25	32°02'27.658"N	103°39'33.190"W	0.11	0.08	-8.17	
8223.00	0.710	182.590	8219.64	-32.81	-32.81	84.86	708880.86	379298.19	32°02'27.648"N	103°39'33.189"W	0.22	0.13	15.52	
8318.00	0.700	196.630	8314.63	-33.95	-33.95	84.67	708880.66	379297.05	32°02'27.637"N	103°39'33.191"W	0.18	-0.01	14.78	



Actual Wellpath Report

SD Maelstrom 15 SWD 1_ awp (32') 173'-18884' Proj: 18940'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD Maelstrom 15 SWD 1
Area	Lea County, NM	Well	SD Maelstrom 15 SWD 1
Field	SWD (Lea County, NM) NAD27	Wellbore	SD Maelstrom 15 SWD 1 AWB
Facility	SD Maelstrom 15 SWD 1		

WELLPATH DATA (202 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
8413.00	0.630	184.580	8409.62	-35.03	-35.03	84.46	708880.46	379295.97	32°02'27.626"N	103°39'33.194"W	0.16	-0.07	-12.68	
8507.00	0.640	183.750	8503.62	-36.07	-36.07	84.38	708880.38	379294.93	32°02'27.616"N	103°39'33.195"W	0.01	0.01	-0.88	
8602.00	0.670	185.770	8598.61	-37.15	-37.15	84.29	708880.29	379293.85	32°02'27.605"N	103°39'33.196"W	0.04	0.03	2.13	
8697.00	0.630	193.550	8693.61	-38.21	-38.21	84.12	708880.11	379292.79	32°02'27.594"N	103°39'33.198"W	0.10	-0.04	8.19	
8791.00	0.620	187.080	8787.60	-39.22	-39.22	83.93	708879.93	379291.78	32°02'27.585"N	103°39'33.200"W	0.08	-0.01	-6.88	
8886.00	0.680	209.380	8882.59	-40.22	-40.22	83.59	708879.59	379290.78	32°02'27.575"N	103°39'33.204"W	0.27	0.06	23.47	
8980.00	0.450	234.300	8976.59	-40.92	-40.92	83.02	708879.01	379290.08	32°02'27.568"N	103°39'33.211"W	0.35	-0.24	26.51	
9075.00	0.430	238.660	9071.59	-41.33	-41.33	82.41	708878.41	379289.88	32°02'27.564"N	103°39'33.218"W	0.04	-0.02	4.59	
9170.00	0.390	206.450	9166.58	-41.80	-41.80	81.96	708877.96	379289.20	32°02'27.559"N	103°39'33.223"W	0.24	-0.04	-33.91	
9265.00	0.220	159.150	9261.58	-42.26	-42.26	81.88	708877.88	379288.74	32°02'27.555"N	103°39'33.224"W	0.31	-0.18	-49.79	
9359.00	0.100	153.840	9355.58	-42.50	-42.50	81.98	708877.98	379288.50	32°02'27.552"N	103°39'33.223"W	0.13	-0.13	-5.65	
9454.00	0.040	298.890	9450.58	-42.56	-42.56	81.99	708877.99	379288.44	32°02'27.552"N	103°39'33.223"W	0.14	-0.06	152.68	
9548.00	0.510	168.320	9544.58	-42.96	-42.96	82.05	708878.04	379288.05	32°02'27.548"N	103°39'33.222"W	0.57	0.50	-138.90	
9643.00	0.650	165.900	9639.58	-43.89	-43.89	82.26	708878.26	379287.11	32°02'27.538"N	103°39'33.220"W	0.15	0.15	-2.55	
9737.00	0.460	182.880	9733.57	-44.79	-44.79	82.38	708878.37	379286.22	32°02'27.530"N	103°39'33.219"W	0.26	-0.20	17.85	
9832.00	0.330	159.900	9828.57	-45.42	-45.42	82.45	708878.45	379285.58	32°02'27.523"N	103°39'33.218"W	0.21	-0.14	-23.98	
9927.00	0.220	186.280	9923.57	-45.86	-45.86	82.53	708878.52	379285.14	32°02'27.519"N	103°39'33.217"W	0.17	-0.12	27.77	
10021.00	0.230	215.750	10017.57	-46.19	-46.19	82.40	708878.39	379284.81	32°02'27.516"N	103°39'33.219"W	0.12	0.01	31.35	
10116.00	0.660	260.390	10112.57	-46.44	-46.44	81.75	708877.74	379284.56	32°02'27.513"N	103°39'33.226"W	0.55	0.45	46.99	
10211.00	0.820	262.310	10207.56	-46.62	-46.62	80.53	708876.53	379284.38	32°02'27.511"N	103°39'33.240"W	0.17	0.17	2.02	
10306.00	1.320	279.060	10302.54	-46.54	-46.54	78.78	708874.77	379284.46	32°02'27.512"N	103°39'33.261"W	0.62	0.53	17.63	
10401.00	1.140	275.570	10397.52	-46.28	-46.28	76.76	708872.75	379284.73	32°02'27.515"N	103°39'33.284"W	0.21	-0.19	-3.67	
10495.00	1.170	283.000	10491.50	-45.97	-45.97	74.89	708870.89	379285.03	32°02'27.518"N	103°39'33.306"W	0.16	0.03	7.90	
10590.00	1.320	273.840	10586.48	-45.68	-45.68	72.85	708868.85	379285.32	32°02'27.521"N	103°39'33.329"W	0.26	0.16	-9.64	
10685.00	1.000	258.910	10681.46	-45.76	-45.76	70.95	708866.95	379285.24	32°02'27.521"N	103°39'33.352"W	0.46	-0.34	-15.72	
10779.00	0.940	278.470	10775.44	-45.81	-45.81	69.38	708865.38	379285.19	32°02'27.520"N	103°39'33.370"W	0.36	-0.06	20.81	
10874.00	0.310	358.890	10870.44	-45.44	-45.44	68.61	708864.60	379285.56	32°02'27.524"N	103°39'33.379"W	0.99	-0.66	84.65	
10969.00	0.410	300.110	10965.44	-45.01	-45.01	68.31	708864.30	379285.99	32°02'27.528"N	103°39'33.382"W	0.38	0.11	-61.87	
11064.00	0.760	285.400	11060.43	-44.67	-44.67	67.41	708863.40	379286.33	32°02'27.532"N	103°39'33.393"W	0.40	0.37	-15.48	
11159.00	0.740	274.780	11155.43	-44.45	-44.45	66.19	708862.18	379286.55	32°02'27.534"N	103°39'33.407"W	0.15	-0.02	-11.18	



Actual Wellpath Report

SD Maelstrom 15 SWD 1_awp (32') 173'-18884' Proj: 18940'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Chevron U.S.A. Inc.	Slot	SD Maelstrom 15 SWD 1
Area	Lea County, NM	Well	SD Maelstrom 15 SWD 1
Field	SWD (Lea County, NM) NAD27	Wellbore	SD Maelstrom 15 SWD 1 AWB
Facility	SD Maelstrom 15 SWD 1		

WELLPATH DATA (202 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
11253.00	0.910	247.980	11249.42	-44.68	-44.68	54.89	708860.89	379286.32	32°02'27.532°N	103°39'33.422°W	0.44	0.18	-28.51	
11348.00	0.750	250.990	11344.41	-45.17	-45.17	63.60	708859.60	379285.83	32°02'27.527°N	103°39'33.437°W	0.17	-0.17	3.17	
11443.00	1.110	221.830	11439.39	-46.06	-46.06	62.40	708858.40	379284.95	32°02'27.518°N	103°39'33.451°W	0.61	0.38	-30.69	
11538.00	1.050	217.400	11534.38	-47.43	-47.43	61.26	708857.26	379283.57	32°02'27.505°N	103°39'33.464°W	0.11	-0.06	-4.66	
11633.00	1.020	220.430	11629.36	-48.77	-48.77	60.18	708856.18	379282.23	32°02'27.491°N	103°39'33.477°W	0.07	-0.03	3.19	
11727.00	1.030	209.140	11723.35	-50.14	-50.14	59.23	708855.23	379280.86	32°02'27.478°N	103°39'33.488°W	0.21	0.01	-12.01	
11822.00	0.960	196.830	11818.33	-51.65	-51.65	58.58	708854.58	379279.35	32°02'27.463°N	103°39'33.496°W	0.24	-0.07	-12.96	
11843.00	0.980	203.010	11839.33	-51.98	-51.98	58.46	708854.46	379279.02	32°02'27.460°N	103°39'33.497°W	0.51	0.10	29.43	
11905.00	0.940	192.930	11901.32	-52.97	-52.97	58.14	708854.14	379278.03	32°02'27.450°N	103°39'33.501°W	0.28	-0.06	-16.26	
12000.00	0.920	190.690	11996.31	-54.48	-54.48	57.82	708853.82	379276.52	32°02'27.435°N	103°39'33.505°W	0.04	-0.02	-2.36	12-1/4" BHI MWD Surveys 12000'-17113'
12094.00	0.870	186.100	12090.30	-55.93	-55.93	57.61	708853.61	379275.07	32°02'27.421°N	103°39'33.507°W	0.09	-0.05	-4.88	
12189.00	0.920	183.850	12185.28	-57.41	-57.41	57.48	708853.48	379273.60	32°02'27.406°N	103°39'33.509°W	0.06	0.05	-2.37	
12284.00	0.760	190.980	12280.27	-58.79	-58.79	57.31	708853.31	379272.22	32°02'27.393°N	103°39'33.511°W	0.20	-0.17	7.51	
12379.00	0.570	192.810	12375.27	-59.87	-59.87	57.08	708853.08	379271.14	32°02'27.382°N	103°39'33.514°W	0.20	-0.20	1.93	
12474.00	0.620	208.320	12470.26	-60.78	-60.78	56.74	708852.73	379270.22	32°02'27.373°N	103°39'33.518°W	0.18	0.05	16.33	
12568.00	0.610	221.390	12564.26	-61.60	-61.60	56.16	708852.16	379269.40	32°02'27.365°N	103°39'33.524°W	0.15	-0.01	13.90	
12663.00	0.670	216.620	12659.25	-62.43	-62.43	55.50	708851.49	379268.58	32°02'27.357°N	103°39'33.532°W	0.08	0.06	-5.02	
12758.00	0.740	218.490	12754.24	-63.35	-63.35	54.78	708850.78	379267.65	32°02'27.347°N	103°39'33.541°W	0.08	0.07	1.97	
12853.00	0.720	218.410	12849.24	-64.30	-64.30	54.03	708850.03	379266.70	32°02'27.338°N	103°39'33.549°W	0.02	-0.02	-0.08	
12947.00	0.830	215.820	12943.23	-65.32	-65.32	53.27	708849.26	379265.69	32°02'27.328°N	103°39'33.558°W	0.12	0.12	-2.76	
13042.00	0.880	209.340	13038.22	-66.51	-66.51	52.51	708848.50	379264.49	32°02'27.316°N	103°39'33.567°W	0.11	0.05	-6.82	
13137.00	0.970	206.840	13133.21	-67.86	-67.86	51.79	708847.78	379263.14	32°02'27.303°N	103°39'33.576°W	0.10	0.09	-2.63	
13232.00	0.890	209.170	13228.19	-69.22	-69.22	51.06	708847.06	379261.78	32°02'27.290°N	103°39'33.584°W	0.09	-0.08	2.45	
13327.00	0.870	207.360	13323.18	-70.51	-70.51	50.37	708846.37	379260.49	32°02'27.277°N	103°39'33.592°W	0.04	-0.02	-1.91	
13422.00	0.830	215.800	13418.17	-71.71	-71.71	49.64	708845.64	379259.29	32°02'27.265°N	103°39'33.601°W	0.14	-0.04	8.88	
13515.00	0.740	211.650	13511.16	-72.77	-72.77	48.93	708844.93	379258.24	32°02'27.255°N	103°39'33.609°W	0.11	-0.10	-4.46	
13610.00	0.800	214.800	13606.15	-73.83	-73.83	48.23	708844.23	379257.17	32°02'27.244°N	103°39'33.618°W	0.08	0.06	3.32	
13705.00	0.690	212.890	13701.15	-74.86	-74.86	47.54	708843.54	379256.15	32°02'27.234°N	103°39'33.626°W	0.12	-0.12	-2.01	
13800.00	0.660	208.200	13796.14	-75.82	-75.82	46.97	708842.97	379255.18	32°02'27.225°N	103°39'33.632°W	0.07	-0.03	-4.94	
13895.00	0.620	212.750	13891.13	-76.73	-76.73	46.43	708842.43	379254.27	32°02'27.216°N	103°39'33.639°W	0.07	-0.04	4.79	



Actual Wellpath Report

SD Maelstrom 15 SWD 1_ awp (32') 173'-18884' Proj: 18940'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD Maelstrom 15 SWD 1
Area	Lea County, NM	Well	SD Maelstrom 15 SWD 1
Field	SWD (Lea County, NM) NAD27	Wellbore	SD Maelstrom 15 SWD 1 AWB
Facility	SD Maelstrom 15 SWD 1		

WELLPATH DATA (202 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
13990.00	0.620	224.760	13986.13	-77.53	-77.53	45.79	708841.79	379253.47	32°02'27.208"N	103°39'33.846"W	0.14	0.00	12.64	
14084.00	0.510	214.250	14080.12	-78.24	-78.24	45.20	708841.20	379252.76	32°02'27.201"N	103°39'33.653"W	0.18	-0.12	-11.18	
14179.00	0.470	233.370	14175.12	-78.82	-78.82	44.65	708840.65	379252.18	32°02'27.195"N	103°39'33.659"W	0.18	-0.04	20.13	
14274.00	0.430	226.390	14270.12	-79.30	-79.30	44.08	708840.08	379251.70	32°02'27.190"N	103°39'33.666"W	0.07	-0.04	-7.35	
14369.00	0.430	257.650	14365.11	-79.62	-79.62	43.47	708839.47	379251.38	32°02'27.187"N	103°39'33.673"W	0.24	0.00	32.91	
14464.00	0.370	263.280	14460.11	-79.73	-79.73	42.82	708838.82	379251.27	32°02'27.186"N	103°39'33.681"W	0.08	-0.06	5.93	
14558.00	0.370	259.010	14554.11	-79.83	-79.83	42.22	708838.22	379251.18	32°02'27.185"N	103°39'33.688"W	0.03	0.00	-4.54	
14653.00	0.420	248.410	14649.11	-80.01	-80.01	41.59	708837.59	379250.99	32°02'27.183"N	103°39'33.695"W	0.09	0.05	-11.16	
14748.00	0.460	249.840	14744.11	-80.27	-80.27	40.91	708836.91	379250.73	32°02'27.181"N	103°39'33.703"W	0.04	0.04	1.51	
14843.00	0.480	243.800	14839.10	-80.58	-80.58	40.20	708836.20	379250.42	32°02'27.178"N	103°39'33.711"W	0.08	0.02	-6.36	
14938.00	0.620	249.880	14934.10	-80.93	-80.93	39.36	708835.36	379250.07	32°02'27.174"N	103°39'33.721"W	0.18	0.15	6.40	
15032.00	0.570	257.820	15028.09	-81.21	-81.21	38.42	708834.42	379249.80	32°02'27.172"N	103°39'33.732"W	0.10	-0.05	8.45	
15127.00	0.350	278.460	15123.09	-81.26	-81.26	37.67	708833.67	379249.74	32°02'27.171"N	103°39'33.741"W	0.29	-0.23	21.73	
15222.00	0.340	265.020	15218.09	-81.24	-81.24	37.11	708833.11	379249.76	32°02'27.172"N	103°39'33.747"W	0.09	-0.01	-14.15	
15317.00	0.470	274.490	15313.09	-81.24	-81.24	36.44	708832.44	379249.76	32°02'27.172"N	103°39'33.755"W	0.15	0.14	9.97	
15410.00	0.740	308.250	15406.08	-80.84	-80.84	35.59	708831.58	379250.17	32°02'27.176"N	103°39'33.765"W	0.47	0.29	36.30	
15505.00	1.060	325.410	15501.07	-79.73	-79.73	34.61	708830.60	379251.27	32°02'27.187"N	103°39'33.776"W	0.44	0.34	18.06	
15598.00	1.010	307.170	15594.05	-78.53	-78.53	33.46	708829.46	379252.47	32°02'27.199"N	103°39'33.789"W	0.36	-0.05	-19.61	
15693.00	0.940	301.650	15689.04	-77.62	-77.62	32.13	708828.13	379253.39	32°02'27.208"N	103°39'33.805"W	0.12	-0.07	-5.81	
15788.00	1.360	310.350	15784.02	-76.48	-76.48	30.61	708826.61	379254.53	32°02'27.219"N	103°39'33.822"W	0.48	0.44	9.16	
15882.00	1.450	313.710	15877.99	-74.93	-74.93	28.90	708824.90	379256.07	32°02'27.235"N	103°39'33.842"W	0.13	0.10	3.57	
15977.00	1.370	300.830	15972.96	-73.52	-73.52	27.06	708823.06	379257.48	32°02'27.249"N	103°39'33.863"W	0.34	-0.08	-13.56	
16070.00	1.760	301.590	16065.93	-72.20	-72.20	24.89	708820.88	379258.80	32°02'27.262"N	103°39'33.889"W	0.42	0.42	0.82	
16165.00	1.690	292.740	16160.89	-70.90	-70.90	22.35	708818.35	379260.11	32°02'27.275"N	103°39'33.918"W	0.29	-0.07	-9.32	
16260.00	1.790	306.310	16255.84	-69.48	-69.48	19.86	708815.86	379261.53	32°02'27.289"N	103°39'33.947"W	0.45	0.11	14.28	
16355.00	2.130	301.370	16350.79	-67.68	-67.68	17.16	708813.16	379263.32	32°02'27.307"N	103°39'33.978"W	0.40	0.36	-5.20	
16449.00	1.890	311.710	16444.73	-65.74	-65.74	14.51	708810.51	379265.26	32°02'27.326"N	103°39'34.009"W	0.46	-0.26	11.00	
16544.00	2.050	309.420	16539.67	-63.62	-63.62	12.03	708808.03	379267.39	32°02'27.348"N	103°39'34.037"W	0.19	0.17	-2.41	
16639.00	2.000	309.940	16634.61	-61.47	-61.47	9.45	708805.45	379269.53	32°02'27.369"N	103°39'34.067"W	0.06	-0.05	0.55	
16734.00	1.870	309.010	16729.56	-59.43	-59.43	6.97	708802.97	379271.57	32°02'27.389"N	103°39'34.096"W	0.14	-0.14	-0.98	



Actual Wellpath Report

SD Maelstrom 15 SWD 1_awp (32') 173'-18884' Proj: 18940'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD Maelstrom 15 SWD 1
Area	Lea County, NM	Well	SD Maelstrom 15 SWD 1
Field	SWD (Lea County, NM) NAD27	Wellbore	SD Maelstrom 15 SWD 1 AWB
Facility	SD Maelstrom 15 SWD 1		

WELLPATH DATA (202 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
16829.00	1.810	309.070	16824.51	-57.51	-57.51	4.60	708800.60	379273.49	32°02'27.408"N	103°39'34.123"W	0.06	-0.06	0.06	
16923.00	1.820	300.870	16918.46	-55.81	-55.81	2.17	708798.17	379275.19	32°02'27.425"N	103°39'34.151"W	0.28	0.01	-8.72	
17018.00	1.810	300.350	17013.42	-54.28	-54.28	-0.42	708795.58	379276.72	32°02'27.441"N	103°39'34.181"W	0.02	-0.01	-0.55	
17113.00	1.640	294.940	17108.37	-52.95	-52.95	-2.95	708793.05	379278.05	32°02'27.454"N	103°39'34.211"W	0.25	-0.18	-5.69	
17202.00	1.680	301.410	17197.34	-51.73	-51.73	-5.22	708790.78	379279.27	32°02'27.466"N	103°39'34.237"W	0.22	0.04	7.27	3-1/2" BHI MWD 17202'-17522'
17392.00	1.730	301.910	17387.25	-48.76	-48.76	-10.03	708785.97	379282.24	32°02'27.496"N	103°39'34.293"W	0.03	0.03	0.26	
17522.00	2.820	298.760	17517.15	-46.19	-46.19	-14.50	708781.50	379284.81	32°02'27.522"N	103°39'34.344"W	0.84	0.84	-2.42	
17671.00	3.990	297.440	17665.88	-42.03	-42.03	-22.31	708773.69	379288.97	32°02'27.563"N	103°39'34.435"W	0.79	0.79	-0.89	6-1/8" BHI MWD 17671'-18884'
17860.00	4.930	316.760	17854.32	-33.09	-33.09	-33.71	708762.29	379297.91	32°02'27.652"N	103°39'34.566"W	0.93	0.50	10.22	
17955.00	5.300	327.530	17948.94	-26.41	-26.41	-38.86	708757.14	379304.59	32°02'27.719"N	103°39'34.626"W	1.08	0.39	11.34	
18050.00	5.240	322.990	18043.54	-19.25	-19.25	-43.83	708752.17	379311.75	32°02'27.790"N	103°39'34.683"W	0.44	-0.06	-4.78	
18145.00	5.980	315.370	18138.09	-12.26	-12.26	-49.92	708746.08	379318.74	32°02'27.860"N	103°39'34.753"W	1.10	0.78	-8.02	
18231.00	5.230	317.300	18223.67	-6.19	-6.19	-55.72	708740.28	379324.81	32°02'27.920"N	103°39'34.820"W	0.90	-0.87	2.24	
18335.00	3.640	295.800	18327.37	-1.27	-1.27	-61.91	708734.09	379329.73	32°02'27.969"N	103°39'34.892"W	2.19	-1.53	-20.67	
18430.00	4.200	291.470	18422.14	1.32	1.32	-67.87	708728.14	379332.32	32°02'27.995"N	103°39'34.961"W	0.87	0.59	-4.56	
18524.00	4.100	288.670	18515.90	3.65	3.65	-74.25	708721.75	379334.65	32°02'28.019"N	103°39'35.035"W	0.24	-0.11	-2.98	
18619.00	3.490	285.360	18610.69	5.50	5.50	-80.26	708715.75	379336.50	32°02'28.037"N	103°39'35.104"W	0.68	-0.64	-3.48	
18714.00	3.810	295.720	18705.50	7.64	7.64	-85.89	708710.11	379338.64	32°02'28.059"N	103°39'35.170"W	0.77	0.34	10.91	
18809.00	4.080	292.910	18800.27	10.33	10.33	-91.85	708704.16	379341.32	32°02'28.086"N	103°39'35.239"W	0.35	0.28	-2.96	
18854.00	3.870	290.250	18845.16	11.47	11.47	-94.75	708701.26	379342.47	32°02'28.097"N	103°39'35.272"W	0.62	-0.47	-5.91	
18884.00	4.080	290.050	18875.09	12.19	12.19	-96.70	708699.31	379343.19	32°02'28.104"N	103°39'35.295"W	0.70	0.70	-0.67	
18940.00	4.080	290.050	18930.95	13.56	13.56	-100.44	708695.56	379344.56	32°02'28.118"N	103°39'35.338"W	0.00	0.00	0.00	Projection to TD: 18940'



Actual Wellpath Report

SD Maelstrom 15 SWD 1_awp (32') 173'-18884' Proj: 18940'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Chevron U.S.A. Inc.	Slot	SD Maelstrom 15 SWD 1
Area	Lea County, NM	Well	SD Maelstrom 15 SWD 1
Field	SWD (Lea County, NM) NAD27	Wellbore	SD Maelstrom 15 SWD 1 AWB
Facility	SD Maelstrom 15 SWD 1		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Maelstrom SWD No. 1	19250.00	0.00	0.00	708796.00	379331.00	32°02'27.978"N	103°39'34.172"W	point

WELLPATH COMPOSITION - Ref Wellbore: SD Maelstrom 15 SWD 1 AWB					Ref Wellpath: SD Maelstrom 15 SWD 1_awp (32') 173'-18884' Proj: 18940'	
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment		Wellbore	
32.00	771.00	BHI NaviTrak (Standard)	24" BHI MWD Surveys 173'-771'		SD Maelstrom 15 SWD 1 AWB	
771.00	4426.00	BHI NaviTrak (Standard)	18-1/2" BHI MWD Surveys 833'-4426'		SD Maelstrom 15 SWD 1 AWB	
4426.00	11905.00	BHI NaviTrak (Standard)	14-3/4" BHI MWD Surveys 4564'-11905'		SD Maelstrom 15 SWD 1 AWB	
11905.00	17113.00	BHI NaviTrak (Standard)	12-1/4" BHI MWD Surveys 12000'-17113'		SD Maelstrom 15 SWD 1 AWB	
17113.00	17522.00	BHI NaviTrak (Standard)	8-1/2" BHI MWD 17202'-17522'		SD Maelstrom 15 SWD 1 AWB	
17522.00	18884.00	BHI NaviTrak (Axial)	6-1/8" BHI MWD 17671'-18884'		SD Maelstrom 15 SWD 1 AWB	
18884.00	18940.00	Blind Drilling (std)	Projection to bit		SD Maelstrom 15 SWD 1 AWB	



Actual Wellpath Report

SD Maelstrom 15 SWD 1_awp (32') 173'-18884' Proj: 18940'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD Maelstrom 15 SWD 1
Area	Lea County, NM	Well	SD Maelstrom 15 SWD 1
Field	SWD (Lea County, NM) NAD27	Wellbore	SD Maelstrom 15 SWD 1 AWB
Facility	SD Maelstrom 15 SWD 1		

COMMENTS

Wellpath general comments
Well: SD Maelstrom 15 SWD 1
Field: SWD
Rig: Nabors M1207
Location: Lea County, New Mexico
API: 30-025-45127
Latitude: 32° 02' 27.978" N
Longitude: 103° 39' 34.172" W
DF Elevation: 3200 feet
Elev. GL: 3168 feet
Proposed Direction: 0
PBHL: 18940 feet
Duration: 10/20/2018-03/20/2019
FSE's: Sam Pearce
SO#: 109455451
24" BHI MWD Surveys 173'-771'
18-1/2" BHI MWD Surveys 833'-4426'
14-3/4" BHI MWD Surveys 4564'-11905'
12-1/4" BHI MWD Surveys 12000'-17113'
8-1/2" BHI MWD 17202'-17522'
6-1/8" BHI MWD 17671'-18884'
Projection to TD: 18940'