

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address CHEVRON USA INC 6301 DEAUVILLE BLVD MIDLAND, TX 79706		² OGRID Number 4323	
		³ Reason for Filing Code/ Effective Date NW	
⁴ API Number 30 - 015-45118	⁵ Pool Name PURPLE SAGE;WOLFCAMP		⁶ Pool Code 98220
⁷ Property Code	⁸ Property Name HH SO 8 5 FED 003		⁹ Well Number 4H

II. 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
C	17	26S	27E		554	NORTH	2309	WEST	EDDY

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	5	26S	27E		182	NORTH	2007	EAST	EDDY
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 11/27/2019	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
34053	PLAINS 500 Dallas, Ste 700 Houston, TX	O
151618	ENTERPRISE PO BOX 4503 Houston, TX	G

IV. Well Completion Data

²¹ Spud Date 09/21/2018	²² Ready Date 11/27/2019	²³ TD 20331'	²⁴ PBTD 20316'	²⁵ Perforations 10200' - 20171'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
SURF 17.5"	13.375"	478'	461		
INT 12.250"	9.625"	8340'	1740		
PROD 8.5"	5.5"	20316'	3421		
TBG	2.875"	9287'			

V. Well Test Data

³¹ Date New Oil 11/27/2019	³² Gas Delivery Date 11/27/2019	³³ Test Date 12/16/2019	³⁴ Test Length 24 HR	³⁵ Tbg. Pressure 1151	³⁶ Csg. Pressure 7
³⁷ Choke Size 64	³⁸ Oil 424	³⁹ Water 3647	⁴⁰ Gas 3647		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: Kayla McConnell			OIL CONSERVATION DIVISION		
Printed name: KAYLA MCCONNELL			Approved by:		
Title: PERMITTING SPECIALIST			Title:		
E-mail Address: GNCV@CHEVRON.COM			Approval Date:		
Date: 2/25/2020			Phone: 432-687-7375		
#22 & #31: No sundry notice to show details in the well files. Amend C-104 & 3160-4 and re-submit entire packet. Provide an approved 3160-5 Sundry Notice to reflect highlighted dates first.					

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

****EMNRD-OCD ARTESIA
RECEIVED: 3/17/2020**

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

☒ AMENDED REPORT
As-Drilled

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 HH SO 8 5 FED 003	⁶ Well Number 4H
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	⁹ Elevation 3265'

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
C	17	26 SOUTH	27 EAST, N.M.P.M.		554'	NORTH	2309'	WEST	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
B	5	26 SOUTH	27 EAST, N.M.P.M.		182'	NORTH	2007'	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 <table border="1"> <tr><th colspan="2">FINAL LAST TAKE POINT</th></tr> <tr><td>X= 538,245'</td><td>NAD 27</td></tr> <tr><td>Y= 392,106'</td><td></td></tr> <tr><td>LAT. 32.077954° N</td><td></td></tr> <tr><td>LONG. 104.209855° W</td><td></td></tr> <tr><td>X= 579,429'</td><td>NAD83/86</td></tr> <tr><td>Y= 392,163'</td><td></td></tr> <tr><td>LAT. 32.078075° N</td><td></td></tr> <tr><td>LONG. 104.210349° W</td><td></td></tr> </table> <table border="1"> <tr><th colspan="2">MID POINT</th></tr> <tr><td>X= 538,202'</td><td>NAD 27</td></tr> <tr><td>Y= 387,130'</td><td></td></tr> <tr><td>LAT. 32.064276° N</td><td></td></tr> <tr><td>LONG. 104.210014° W</td><td></td></tr> <tr><td>X= 579,385'</td><td>NAD83/86</td></tr> <tr><td>Y= 387,187'</td><td></td></tr> <tr><td>LAT. 32.064397° N</td><td></td></tr> <tr><td>LONG. 104.210508° W</td><td></td></tr> </table> <table border="1"> <tr><th colspan="2">FINAL FIRST TAKE POINT</th></tr> <tr><td>X= 538,119'</td><td>NAD 27</td></tr> <tr><td>Y= 382,134'</td><td></td></tr> <tr><td>LAT. 32.050542° N</td><td></td></tr> <tr><td>LONG. 104.210300° W</td><td></td></tr> <tr><td>X= 579,302'</td><td>NAD83/86</td></tr> <tr><td>Y= 382,191'</td><td></td></tr> <tr><td>LAT. 32.050664° N</td><td></td></tr> <tr><td>LONG. 104.210794° W</td><td></td></tr> </table> <table border="1"> <tr><th colspan="2">KICK OFF POINT</th></tr> <tr><td>X= 538,123'</td><td>NAD 27</td></tr> <tr><td>Y= 381,435'</td><td></td></tr> <tr><td>LAT. 32.048619° N</td><td></td></tr> <tr><td>LONG. 104.210289° W</td><td></td></tr> <tr><td>X= 579,307'</td><td>NAD83/86</td></tr> <tr><td>Y= 381,491'</td><td></td></tr> <tr><td>LAT. 32.048741° N</td><td></td></tr> <tr><td>LONG. 104.210782° W</td><td></td></tr> </table>	FINAL LAST TAKE POINT		X= 538,245'	NAD 27	Y= 392,106'		LAT. 32.077954° N		LONG. 104.209855° W		X= 579,429'	NAD83/86	Y= 392,163'		LAT. 32.078075° N		LONG. 104.210349° W		MID POINT		X= 538,202'	NAD 27	Y= 387,130'		LAT. 32.064276° N		LONG. 104.210014° W		X= 579,385'	NAD83/86	Y= 387,187'		LAT. 32.064397° N		LONG. 104.210508° W		FINAL FIRST TAKE POINT		X= 538,119'	NAD 27	Y= 382,134'		LAT. 32.050542° N		LONG. 104.210300° W		X= 579,302'	NAD83/86	Y= 382,191'		LAT. 32.050664° N		LONG. 104.210794° W		KICK OFF POINT		X= 538,123'	NAD 27	Y= 381,435'		LAT. 32.048619° N		LONG. 104.210289° W		X= 579,307'	NAD83/86	Y= 381,491'		LAT. 32.048741° N		LONG. 104.210782° W		<table border="1"> <tr><th colspan="2">ACTUAL BOTTOM HOLE LOCATION</th></tr> <tr><td>X= 538,250'</td><td>NAD 27</td></tr> <tr><td>Y= 392,266'</td><td></td></tr> <tr><td>LAT. 32.078393° N</td><td></td></tr> <tr><td>LONG. 104.209840° W</td><td></td></tr> <tr><td>X= 579,433'</td><td>NAD83/86</td></tr> <tr><td>Y= 392,323'</td><td></td></tr> <tr><td>LAT. 32.078515° N</td><td></td></tr> <tr><td>LONG. 104.210334° W</td><td></td></tr> </table> CORNER COORDINATES TABLE (NAD 27) A - Y=392446.14, X=537606.87 B - Y=392449.96, X=540258.92 C - Y=387132.57, X=537574.14 D - Y=387122.04, X=540212.94 E - Y=381810.94, X=534988.20 F - Y=381805.09, X=537646.07 G - Y=381799.23, X=540303.95 H - Y=376480.27, X=535066.16 I - Y=376477.58, X=537710.13 <table border="1"> <tr><th colspan="2">HH SO 8 5 FED 003 4H WELL</th></tr> <tr><td>X= 537,306'</td><td>NAD 27</td></tr> <tr><td>Y= 381,252'</td><td></td></tr> <tr><td>LAT. 32.048119° N</td><td></td></tr> <tr><td>LONG. 104.212927° W</td><td></td></tr> <tr><td>X= 578,490'</td><td>NAD83/86</td></tr> <tr><td>Y= 381,309'</td><td></td></tr> <tr><td>LAT. 32.048241° N</td><td></td></tr> <tr><td>LONG. 104.213421° W</td><td></td></tr> <tr><td colspan="2">ELEVATION +3265' NAVD 88</td></tr> </table>	ACTUAL BOTTOM HOLE LOCATION		X= 538,250'	NAD 27	Y= 392,266'		LAT. 32.078393° N		LONG. 104.209840° W		X= 579,433'	NAD83/86	Y= 392,323'		LAT. 32.078515° N		LONG. 104.210334° W		HH SO 8 5 FED 003 4H WELL		X= 537,306'	NAD 27	Y= 381,252'		LAT. 32.048119° N		LONG. 104.212927° W		X= 578,490'	NAD83/86	Y= 381,309'		LAT. 32.048241° N		LONG. 104.213421° W		ELEVATION +3265' NAVD 88		Final Last Take Point @ 20,171' MD 341.48' FNL, 2010.70' FEL 640.38' FWL Lease Sec. 5 Mid Point @ 15,195.85' MD Sec. 8 Final First Take Point @ 10,200' MD 330.03' FSL, 2179.15' FEL 477.07' FWL Lease Kick Off Point @ 9,100' MD 369.52' FNL, 2184.18' FEL Sec. 17	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> 2/25/2020 Signature Date Kayla McConnell Printed Name kaylamcconnell@chevron.com 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. 04/07/2017 Date of Survey Signature and Seal of Professional Surveyor: <i>Robert L. Lastrapes</i> 23006 12/13/2019 Certificate Number
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Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

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
Latitude					Longitude				NAD

Last Take Point (LTP)

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

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

Is this well an infill well? ☐

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

API #		
Operator Name:	Property Name:	Well Number

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

May 21, 2019

Chevron USA Inc.
9525 CAMINO MEDIA #1392
BAKERSFIELD, CA

Re:

17, 26S, 27E, EDDY NM
32.04824 104.21343

CLIENT: Chevron USA Inc.
WELL: HH SO 8 5 FED 003 4H
FIELD: PURPLE SAGE (WOLFCAMP)

RIG: PATTERSON 815
COUNTY: EDDY
API NO: 30-015-45118-0000
JOB NO: 18MLD3956

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
KHALID ISSA FS	HH SO 8 5 FED 003 4H Original Hole	506.00 Ft to 20289.00 Ft	December 1, 2018 to May 15, 2019	TelePacer

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Field Service Manager

Schlumberger-Private

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

Well Reference:
17, 26S, 27E, EDDY NM
32.04824 104.21343

I, KHALID ISSA certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of December 01, 2018 through May 15, 2019, conduct or supervise the taking of the TelePacer surveys from a depth of 506.00 feet to a depth of 20289.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Chevron USA Inc. for the HH SO 8 5 FED 003 4H Well (Original Hole) API No. 30-015-45118-0000 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By
KHALID ISSA
FS

Khalid Issa

Subscribed and Sworn to before me this 21st day of May (month) 2019 (yr)

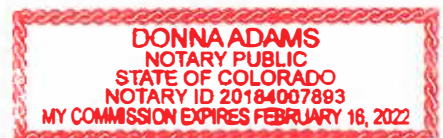
My Commission expires:

2-11-2022

D. Adams
Notary Public

(signature)

Adams County Colorado
(County State)



Chevron HH SO 8 5 FED 003 No. 4H MWD to 20331ft Survey Geodetic Report (Def Survey)

Report Date: May 16, 2019 - 08:41 AM
Client: Chevron
Field: NM Eddy County (NAD 27)
Structure / Slot: Chevron HH SO 8 5 FED 003 No. 4H / Chevron HH SO 8 5 FED 003 No. 4H
Well: Chevron HH SO 8 5 FED 003 No. 4H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Chevron HH SO 8 5 FED 003 No. 4H MWD to 20331ft
Survey Date: May 16, 2019
Tort / AHD / DDI / ERD Ratio: 298.812 ° / 11750.647 ft / 6.867 / 1.211
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 2' 53.23011", W 104° 12' 46.53521"
Location Grid N/E Y/X: N 381252.000 ftUS, E 537306.000 ftUS
CRS Grid Convergence Angle: 0.0639 °
Grid Scale Factor: 0.99991068
Version / Patch: 2.10.760.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 359.760 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB = 28ft
TVD Reference Elevation: 3293.000 ft above MSL
Seabed / Ground Elevation: 3265.000 ft above MSL
Magnetic Declination: 7.229 °
Total Gravity Field Strength: 998.4291mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47776.006 nT
Magnetic Dip Angle: 59.658 °
Declination Date: May 16, 2019
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.0639 °
Total Corr Mag North->Grid North: 7.1654 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	381252.00	537306.00	N 32 2 53.23	W 104 12 46.54
First 3rd Party Survey	148.00	0.60	284.41	148.00	0.20	0.19	-0.75	0.41	381252.19	537305.25	N 32 2 53.23	W 104 12 46.54
	193.00	1.10	128.14	193.00	-0.01	-0.02	-0.64	3.70	381251.98	537305.36	N 32 2 53.23	W 104 12 46.54
	282.00	0.40	97.91	281.99	-0.59	-0.59	0.34	0.88	381251.41	537306.34	N 32 2 53.22	W 104 12 46.53
Last 3rd Party Survey	372.00	0.50	147.40	371.98	-0.96	-0.96	0.86	0.43	381251.04	537306.86	N 32 2 53.22	W 104 12 46.53
	452.00	1.40	173.30	451.97	-2.23	-2.22	1.17	1.22	381249.78	537307.17	N 32 2 53.21	W 104 12 46.52
	506.00	0.80	211.45	505.96	-3.21	-3.20	1.05	1.70	381248.80	537307.05	N 32 2 53.20	W 104 12 46.52
First SLB MWD Survey	595.00	0.92	27.25	594.96	-3.10	-3.10	1.05	1.93	381248.90	537307.05	N 32 2 53.20	W 104 12 46.52
	687.00	2.35	61.84	686.92	-1.56	-1.55	3.05	1.82	381250.45	537309.05	N 32 2 53.21	W 104 12 46.50
	874.00	4.57	75.98	873.57	2.01	2.07	13.66	1.26	381254.07	537319.66	N 32 2 53.25	W 104 12 46.38
	968.00	6.67	77.11	967.12	4.10	4.19	22.62	2.24	381256.19	537328.61	N 32 2 53.27	W 104 12 46.27
	1063.00	7.93	80.50	1061.34	6.36	6.50	34.46	1.40	381258.50	537340.45	N 32 2 53.29	W 104 12 46.13
	1157.00	8.79	77.64	1154.34	8.91	9.11	47.87	1.02	381261.11	537353.86	N 32 2 53.32	W 104 12 45.98
	1252.00	10.05	75.59	1248.06	12.46	12.73	62.99	1.37	381264.73	537368.98	N 32 2 53.36	W 104 12 45.80
	1346.00	9.63	74.75	1340.68	16.51	16.84	78.52	0.47	381268.84	537384.51	N 32 2 53.40	W 104 12 45.62
	1441.00	9.69	77.22	1434.33	20.30	20.70	93.98	0.44	381272.69	537399.97	N 32 2 53.43	W 104 12 45.44
	1535.00	9.49	77.91	1527.02	23.61	24.07	109.27	0.25	381276.07	537415.26	N 32 2 53.47	W 104 12 45.27
	1630.00	9.02	78.25	1620.78	26.70	27.23	124.22	0.50	381279.22	537430.21	N 32 2 53.50	W 104 12 45.09
	1724.00	10.57	77.25	1713.41	30.04	30.63	139.85	1.66	381282.63	537445.83	N 32 2 53.53	W 104 12 44.91
	1818.00	11.39	77.81	1805.69	33.83	34.49	157.33	0.88	381286.49	537463.31	N 32 2 53.57	W 104 12 44.71
	1913.00	11.51	79.07	1898.80	37.53	38.27	175.80	0.29	381290.27	537481.79	N 32 2 53.61	W 104 12 44.49
	2007.00	10.77	75.13	1991.03	41.49	42.30	193.50	1.13	381294.30	537499.48	N 32 2 53.65	W 104 12 44.29
	2102.00	10.43	73.48	2084.41	46.14	47.02	210.32	0.48	381299.02	537516.30	N 32 2 53.69	W 104 12 44.09
	2196.00	10.19	72.83	2176.89	50.95	51.90	226.43	0.28	381303.89	537532.40	N 32 2 53.74	W 104 12 43.90
	2291.00	10.17	74.46	2270.39	55.61	56.63	242.53	0.30	381308.62	537548.51	N 32 2 53.79	W 104 12 43.72
	2385.00	10.33	74.03	2362.89	60.08	61.17	258.63	0.19	381313.16	537564.61	N 32 2 53.83	W 104 12 43.53
	2480.00	10.14	74.34	2456.38	64.62	65.77	274.87	0.21	381317.76	537580.85	N 32 2 53.88	W 104 12 43.34
	2574.00	10.26	75.14	2548.89	68.93	70.15	290.93	0.20	381322.14	537596.91	N 32 2 53.92	W 104 12 43.15
	2669.00	10.07	73.75	2642.40	73.36	74.64	307.08	0.33	381326.64	537613.06	N 32 2 53.97	W 104 12 42.97
	2763.00	10.25	73.61	2734.93	77.95	79.30	323.00	0.19	381331.30	537628.97	N 32 2 54.01	W 104 12 42.78
	2857.00	10.18	74.49	2827.44	82.46	83.88	339.02	0.18	381335.88	537644.99	N 32 2 54.06	W 104 12 42.60
	2952.00	9.97	75.77	2920.97	86.66	88.15	355.09	0.32	381340.14	537661.05	N 32 2 54.10	W 104 12 42.41
	3047.00	9.40	76.00	3014.62	90.50	92.05	370.58	0.60	381344.04	537676.55	N 32 2 54.14	W 104 12 42.23
	3141.00	9.42	75.93	3107.36	94.16	95.78	385.49	0.02	381347.77	537691.46	N 32 2 54.17	W 104 12 42.06
	3330.00	9.33	77.46	3293.83	101.12	102.86	415.45	0.14	381354.85	537721.41	N 32 2 54.24	W 104 12 41.71
	3424.00	9.59	77.07	3386.55	104.47	106.27	430.52	0.28	381358.26	537736.48	N 32 2 54.28	W 104 12 41.53
	3519.00	9.47	77.55	3480.24	107.86	109.73	445.87	0.15	381361.72	537751.83	N 32 2 54.31	W 104 12 41.35
	3616.00	9.10	78.32	3575.97	111.07	113.00	461.17	0.40	381364.99	537767.13	N 32 2 54.34	W 104 12 41.18
	3708.00	9.40	78.69	3666.77	113.95	115.94	475.66	0.33	381367.93	537781.62	N 32 2 54.37	W 104 12 41.01
	3802.00	10.07	76.73	3759.42	117.28	119.34	491.19	0.80	381371.33	537797.14	N 32 2 54.41	W 104 12 40.83
	3897.00	10.29	77.68	3852.93	120.93	123.05	507.56	0.29	381375.04	537813.52	N 32 2 54.44	W 104 12 40.64
	3991.00	10.27	78.36	3945.42	124.34	126.54	523.97	0.13	381378.52	537829.92	N 32 2 54.48	W 104 12 40.45
	4086.00	9.92	78.83	4038.95	127.56	129.83	540.29	0.38	381381.82	537846.24	N 32 2 54.51	W 104 12 40.26
	4180.00	9.41	78.49	4131.61	130.60	132.93	555.77	0.55	381384.92	537861.72	N 32 2 54.54	W 104 12 40.08
	4369.00	8.87	79.42	4318.21	136.24	138.69	585.23	0.30	381390.68	537891.18	N 32 2 54.60	W 104 12 39.73
	4558.00	8.46	79.34	4505.05	141.37	143.94	613.22	0.22	381395.92	537919.16	N 32 2 54.65	W 104 12 39.41
	4653.00	8.36	80.09	4599.03	143.79	146.42	626.89	0.16	381398.40	537932.83	N 32 2 54.67	W 104 12 39.25
	4842.00	7.88	79.80	4786.14	148.34	151.08	653.17	0.25	381403.06	537959.11	N 32 2 54.72	W 104 12 38.94
	4936.00	7.55	80.43	4879.28	150.46	153.24	665.60	0.36	381405.23	537971.54	N 32 2 54.74	W 104 12 38.80
	5031.00	7.80	80.68	4973.43	152.48	155.33	678.12	0.27	381407.31	537984.06	N 32 2 54.76	W 104 12 38.65
	5126.00	7.74	80.63	5067.56	154.52	157.41	690.79	0.06	381409.40	537996.73	N 32 2 54.78	W 104 12 38.51
	5220.00	7.60	81.11	5160.72	156.46	159.40	703.18	0.16	381411.39	538009.12	N 32 2 54.80	W 104 12 38.36
	5314.00	7.55	80.81	5253.90	158.35	161.35	715.42	0.07	381413.34	538021.35	N 32 2 54.82	W 104 12 38.22
	5409.00	7.25	81.40	5348.11	160.19	163.24	727.51	0.33	381415.23	538033.44	N 32 2 54.84	W 104 12 38.08
	5504.00	6.93	80.44	5442.38	161.99	165.09	739.08	0.36	381417.08	538045.02	N 32 2 54.86	W 104 12 37.95
	5599.00	6.72	70.21	5536.71	164.78	167.92	749.97	1.30	381419.91	538055.90	N 32 2 54.88	W 104 12 37.82
	5694.00	6.04	65.53	5631.12	168.69	171.88	759.75	0.90	381423.86	538065.68	N 32 2 54.92	W 104 12 37.71
	5789.00	5.02	62.33	5725.68	172.66	175.88	767.98	1.12	381427.86	538073.91	N 32 2 54.96	W 104 12 37.61
	5883.00	4.43	63.72	5819.36	176.15	179.40	774.87	0.64	381431.38	538080.80	N 32 2 55.00	W 104 12 37.53
	5978.00	3.42	63.93	5914.14	178.99	182.26	780.71	1.06	381434.25	538086.64	N 32 2 55.03	W 104 12 37.46
	6072.00	2.58	59.97	6008.01	181.27	184.56	785.06	0.92	381436.54	538090.99	N 32 2 55.05	W 104 12 37.41
	6166.00	2.36	51.50	6101.92	183.52	186.82	788.41	0.45	381438.80	538094.33	N 32 2 55.07	W 104 12 37.37
	6261.00	2.58	56.62	6196.83	185.90	189.21	791.72	0.33	381441.20	538097.65	N 32 2 55.09	W 104 12 37.33
	6355.00	3.10	70.11	6290.72	187.91	191.24	795.88	0.90	381443.22	538101.81	N 32 2 55.11	W 104 12 37.29
	6450.00	1.90	68.12	6385.63	189.35	192.70	799.76	1.27	381444.69	538105.68	N 32 2 55.13	W 104 12 37.24
	6544.00	1.11	65.48	6479.59	190.30	193.66	802.03	0.84	381445.64	538107.96	N 32 2 55.14	W 104 12 37.21
	6639.00	1.48	47.34	6574.57	191.51	194.87	803.77	0.58	381446.86	538109.70	N 32 2 55.15	W 104 12 37.19
	6734.00	1.19	47.60	6669.54	193.00	196.37	805.40	0.31	381448.35	538111.33	N 32 2 55.16	W 104 12 37.18
	6829.00	0.90	13.70	6764.53	194.38	197.76	806.31	0.70	381449.74	538112.23	N 32 2 55.18	W 104 12 37.16
	6924.00	0.83	13.82	6859.52	195.77	199.15	806.65	0.07	381451.14	538112.57	N 32 2 55.19	W 104 12 37.16
	7018.00	0.28	352.32	6953.51	196.66	200.04	806.78	0.62	381452.03	538112.70	N 32 2 55.20	W 104 12 37.16
	7113.00	0.48	315.73	7048.51	197.18	200.56	806.47	0.32	381452.54	538112.40	N 32 2 55.21	W 104 12 37.16
	7208.00	0.62	51.49	7143.51	197.78	201.16	806.					

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7870.00	0.72	154.29	7805.43	193.27	196.69	814.76	0.77	381448.67	538120.69	N 32 2 55.17	W 104 12 37.07
	7964.00	0.13	141.52	7899.42	192.66	196.07	815.09	0.63	381448.06	538121.01	N 32 2 55.16	W 104 12 37.06
	8059.00	0.34	322.77	7994.42	192.80	196.21	814.98	0.49	381448.20	538120.91	N 32 2 55.16	W 104 12 37.06
	8153.00	0.28	257.92	8088.42	192.97	196.39	814.59	0.36	381448.37	538120.51	N 32 2 55.16	W 104 12 37.07
	8248.00	0.30	232.25	8183.42	192.77	196.19	814.17	0.14	381448.17	538120.09	N 32 2 55.16	W 104 12 37.07
	8297.00	0.56	182.66	8232.42	192.46	195.87	814.05	0.88	381447.85	538119.98	N 32 2 55.16	W 104 12 37.07
	8435.00	1.05	170.56	8370.40	190.54	193.95	814.23	0.37	381445.93	538120.15	N 32 2 55.14	W 104 12 37.07
	8549.00	1.08	162.86	8484.38	188.48	191.89	814.72	0.13	381443.87	538120.64	N 32 2 55.12	W 104 12 37.07
	8629.00	1.03	163.45	8564.37	187.06	190.48	815.14	0.06	381442.46	538121.07	N 32 2 55.11	W 104 12 37.06
	8724.00	0.94	176.34	8659.36	185.47	188.88	815.44	0.25	381440.87	538121.36	N 32 2 55.09	W 104 12 37.06
	8820.00	1.06	172.36	8755.34	183.80	187.22	815.61	0.14	381439.20	538121.53	N 32 2 55.07	W 104 12 37.06
	8912.00	1.06	165.93	8847.33	182.13	185.55	815.93	0.13	381437.53	538121.85	N 32 2 55.06	W 104 12 37.05
	9007.00	1.17	154.79	8942.31	180.40	183.82	816.55	0.26	381435.80	538122.48	N 32 2 55.04	W 104 12 37.05
	9101.00	0.40	120.60	9036.30	179.36	182.78	817.24	0.92	381434.77	538123.17	N 32 2 55.03	W 104 12 37.04
	9148.00	6.63	0.67	9083.20	181.99	185.42	817.42	14.55	381437.40	538123.34	N 32 2 55.06	W 104 12 37.04
	9196.00	13.45	354.52	9130.44	190.33	193.75	816.92	14.36	381445.74	538122.84	N 32 2 55.14	W 104 12 37.04
	9243.00	16.67	353.14	9175.82	202.47	205.89	815.59	6.89	381457.87	538121.51	N 32 2 55.26	W 104 12 37.06
	9291.00	19.93	353.22	9221.38	217.44	220.86	813.80	6.79	381472.84	538119.72	N 32 2 55.41	W 104 12 37.08
	9338.00	24.96	357.65	9264.81	235.33	238.73	812.45	11.28	381490.71	538118.37	N 32 2 55.58	W 104 12 37.09
	9386.00	29.03	4.79	9307.58	257.06	260.47	813.00	10.83	381512.45	538118.93	N 32 2 55.80	W 104 12 37.09
	9433.00	31.36	7.55	9348.21	280.54	283.96	815.56	5.77	381535.94	538121.49	N 32 2 56.03	W 104 12 37.06
	9480.00	34.31	6.12	9387.69	305.83	309.26	818.58	6.49	381561.23	538124.51	N 32 2 56.28	W 104 12 37.02
	9528.00	37.95	1.83	9426.46	334.04	337.48	820.50	9.23	381589.45	538126.42	N 32 2 56.56	W 104 12 37.00
	9575.00	44.18	358.80	9461.88	364.89	368.33	820.62	13.91	381620.30	538126.54	N 32 2 56.87	W 104 12 37.00
	9622.00	47.76	359.48	9494.55	398.68	402.11	820.11	7.69	381654.08	538126.04	N 32 2 57.20	W 104 12 37.00
	9669.00	51.91	0.52	9524.85	434.58	438.02	820.12	8.99	381688.98	538126.05	N 32 2 57.56	W 104 12 37.00
	9716.00	55.44	359.87	9552.69	472.44	475.88	820.25	7.59	381727.84	538126.17	N 32 2 57.93	W 104 12 37.00
	9764.00	59.49	359.38	9578.50	512.90	516.34	819.98	8.48	381768.29	538125.91	N 32 2 58.33	W 104 12 37.00
	9811.00	63.01	359.39	9601.10	554.10	557.54	819.54	7.49	381809.49	538125.46	N 32 2 58.74	W 104 12 37.01
	9859.00	68.06	357.56	9620.98	597.76	601.19	818.36	11.08	381853.14	538124.29	N 32 2 59.17	W 104 12 37.02
	9906.00	71.89	356.97	9637.07	641.87	645.29	816.25	8.23	381897.24	538122.18	N 32 2 59.61	W 104 12 37.04
	9953.00	72.58	357.24	9651.41	686.58	690.00	813.99	1.57	381941.93	538119.92	N 32 3 0.05	W 104 12 37.07
	10000.00	79.06	359.17	9662.92	732.11	735.52	812.58	14.35	381987.45	538118.50	N 32 3 0.50	W 104 12 37.08
	10048.00	86.24	0.98	9669.05	779.68	783.09	812.64	15.42	382035.02	538118.57	N 32 3 0.97	W 104 12 37.08
	10095.00	88.77	0.21	9671.10	826.62	830.04	813.13	5.63	382081.96	538119.06	N 32 3 1.43	W 104 12 37.08
	10143.00	88.65	359.29	9672.18	874.61	878.02	812.92	1.93	382129.94	538118.85	N 32 3 1.91	W 104 12 37.08
Heel HL Cross	10148.00	88.65	359.25	9672.30	879.61	883.02	812.86	0.78	382134.94	538118.78	N 32 3 1.96	W 104 12 37.08
	10208.00	88.65	358.78	9673.71	939.59	943.00	811.83	0.78	382194.91	538117.75	N 32 3 2.55	W 104 12 37.09
	10290.00	90.06	358.42	9674.64	1021.56	1024.96	809.82	1.77	382276.87	538115.75	N 32 3 3.36	W 104 12 37.11
	10385.00	89.38	354.83	9675.10	1119.78	1123.97	804.23	3.85	382371.68	538110.16	N 32 3 4.30	W 104 12 37.18
	10480.00	88.82	350.52	9676.59	1210.64	1213.97	792.13	4.57	382465.86	538098.05	N 32 3 5.23	W 104 12 37.32
	10574.00	88.77	349.62	9678.57	1303.28	1306.54	775.92	0.96	382558.42	538081.85	N 32 3 6.15	W 104 12 37.50
	10669.00	88.77	348.64	9680.61	1396.63	1399.82	758.01	1.03	382651.69	538063.94	N 32 3 7.07	W 104 12 37.71
	10763.00	88.88	347.75	9682.54	1488.70	1491.81	738.78	0.95	382743.67	538044.71	N 32 3 7.98	W 104 12 37.93
	10858.00	89.83	347.46	9683.61	1581.56	1584.59	718.39	1.05	382836.44	538024.33	N 32 3 8.90	W 104 12 38.17
	10953.00	89.27	347.25	9684.35	1674.34	1677.28	697.60	0.63	382929.13	538003.53	N 32 3 9.82	W 104 12 38.41
	11047.00	90.39	347.47	9684.63	1766.15	1769.00	677.03	1.21	383020.84	537982.97	N 32 3 10.73	W 104 12 38.65
	11142.00	90.28	347.23	9684.08	1858.93	1861.69	656.22	0.28	383113.52	537962.16	N 32 3 11.65	W 104 12 38.89
	11236.00	90.06	349.64	9683.80	1951.09	1953.77	637.38	2.57	383205.60	537943.32	N 32 3 12.56	W 104 12 39.10
	11330.00	90.06	351.26	9683.70	2043.85	2046.47	621.78	1.72	383298.28	537927.73	N 32 3 13.47	W 104 12 39.28
	11425.00	90.34	350.71	9683.37	2137.73	2140.29	606.90	0.65	383392.10	537912.84	N 32 3 14.40	W 104 12 39.46
	11519.00	90.28	355.84	9682.86	2231.10	2233.62	595.90	5.46	383485.41	537901.84	N 32 3 15.33	W 104 12 39.58
	11614.00	90.11	356.78	9682.53	2325.93	2328.42	589.78	1.01	383580.20	537895.73	N 32 3 16.26	W 104 12 39.65
	11708.00	92.02	359.63	9680.79	2419.86	2422.34	586.84	3.65	383674.12	537882.78	N 32 3 17.19	W 104 12 39.69
	11803.00	90.84	1.00	9678.42	2514.82	2517.31	587.36	1.90	383769.08	537893.31	N 32 3 18.13	W 104 12 39.68
	11898.00	91.29	3.36	9676.65	2609.71	2612.21	590.97	2.53	383863.97	537896.92	N 32 3 19.07	W 104 12 39.63
	11992.00	90.11	5.32	9675.50	2703.40	2705.93	598.08	2.43	383957.68	537904.03	N 32 3 20.00	W 104 12 39.55
	12087.00	89.38	9.82	9675.92	2797.49	2800.08	610.60	4.80	384051.82	537916.54	N 32 3 20.93	W 104 12 39.40
	12181.00	89.78	8.98	9676.61	2890.16	2892.81	625.95	0.99	384144.55	537931.89	N 32 3 21.85	W 104 12 39.22
	12276.00	89.83	13.95	9676.94	2983.16	2985.89	644.83	5.23	384237.61	537950.77	N 32 3 22.77	W 104 12 39.00
	12371.00	90.22	15.56	9676.90	3074.92	3077.75	669.02	1.74	384329.47	537974.96	N 32 3 23.68	W 104 12 38.72
	12465.00	91.07	15.12	9675.84	3165.46	3168.39	693.89	1.02	384420.10	537999.82	N 32 3 24.58	W 104 12 38.43
	12559.00	90.84	11.68	9674.27	3256.78	3259.81	715.66	3.67	384511.51	538021.60	N 32 3 25.48	W 104 12 38.18
	12654.00	90.22	10.86	9673.39	3349.87	3352.97	734.23	1.08	384604.66	538040.16	N 32 3 26.40	W 104 12 37.96
	12749.00	90.17	10.42	9673.07	3443.16	3446.34	751.77	0.47	384698.02	538057.70	N 32 3 27.33	W 104 12 37.76
	12843.00	90.90	8.98	9672.19	3535.74	3538.99	767.61	1.72	384790.66	538073.54	N 32 3 28.24	W 104 12 37.57
	12938.00	91.35	8.09	9670.33	3629.61	3632.91	781.70	1.05	384884.58	538087.63	N 32 3 29.17	W 104 12 37.41
	13033.00	90.84	7.54	9668.51	3723.65	3727.01	794.62	0.79	384978.67	538100.54	N 32 3 30.10	W 104 12 37.25
	13127.00	91.29	7.48	9666.76	3816.78	3820.19	806.90	0.48	385071.84	538112.83	N 32 3 31.02	W 104 12 37.11
	13222.00	92.02	9.02	9664.02	3910.69	3914.17	820.53	1.79	385165.81	538126.45	N 32 3 31.95	W 104 12 36.95
	13316.00	91.40	8.38	9661.21	4003.51	4007.04	834.74	0.95	385258.68	538140.66	N 32 3 32.87	W 104 12 36.78
	13411.00	91.29	8.14	9658.98	4097.44	4101.03	848.38	0.28	385352.66	538154.30	N 32 3 33.80	W 104 12 36.62
	13505.00	91.40	7.52	9656.78	4190.48	4194.13	861.18	0.67	385445.75	538167.11	N 32 3 34.72	W 104 12 36.47
	13600.00	91.29	6.85	9654.55	4284.66	4288.36	873.06	0.71	385539.96	538178.98	N 32 3 35.66	W 104 12 36.34
	13694.00	91.23	5.90	9652.48	4378.01	4381.75	885.50	1.01	385633.35	538189.42	N 32 3 36.58	W 104 12 36.21
	13789.00	90.79	6.11	9650.81	4472.43	4476.21	893.43	0.51	385727.81	538199.35	N 32 3 37.52	W 104 12 36.10
	13884.00	89.33	4.46	9646.99	4566.99	4570.80						

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	17100.00	91.01	358.30	9703.12	7780.60	7784.46	904.21	1.72	389035.75	538210.13	N 32 4 10.25	W 104 12 35.93
	17194.00	89.21	359.43	9702.94	7874.59	7878.43	902.35	2.26	389129.72	538208.27	N 32 4 11.18	W 104 12 35.95
	17289.00	88.93	0.29	9704.48	7969.57	7973.42	902.12	0.95	389224.69	538208.03	N 32 4 12.12	W 104 12 35.95
	17383.00	91.46	2.98	9704.16	8063.51	8067.37	904.80	3.93	389318.63	538210.72	N 32 4 13.05	W 104 12 35.92
	17478.00	91.01	1.86	9702.12	8158.38	8162.26	908.81	1.27	389413.51	538214.72	N 32 4 13.99	W 104 12 35.87
	17573.00	92.41	2.24	9699.28	8253.26	8257.15	912.20	1.53	389508.40	538218.12	N 32 4 14.93	W 104 12 35.83
	17667.00	92.58	2.92	9695.19	8347.05	8350.97	916.43	0.75	389602.20	538222.35	N 32 4 15.86	W 104 12 35.78
	17762.00	89.55	1.84	9693.42	8441.93	8445.86	920.38	3.39	389697.08	538226.29	N 32 4 16.80	W 104 12 35.73
	17857.00	90.11	2.61	9693.70	8536.84	8540.78	924.06	1.00	389792.00	538229.98	N 32 4 17.74	W 104 12 35.69
	17951.00	88.15	2.79	9695.13	8630.70	8634.66	928.49	2.09	389885.87	538234.41	N 32 4 18.67	W 104 12 35.63
	18046.00	89.33	2.52	9697.22	8725.55	8729.54	932.89	1.27	389980.74	538238.80	N 32 4 19.60	W 104 12 35.58
	18140.00	89.89	1.12	9697.86	8819.49	8823.48	935.88	1.60	390074.68	538241.79	N 32 4 20.53	W 104 12 35.54
	18235.00	88.37	0.39	9699.30	8914.46	8918.46	937.13	1.77	390169.65	538243.04	N 32 4 21.47	W 104 12 35.53
	18329.00	90.62	1.17	9700.13	9008.43	9012.44	938.41	2.53	390263.62	538244.32	N 32 4 22.40	W 104 12 35.51
	18424.00	91.01	0.76	9698.78	9103.40	9107.42	940.01	0.60	390358.59	538245.92	N 32 4 23.34	W 104 12 35.49
	18518.00	89.66	359.34	9698.23	9197.39	9201.41	940.09	2.08	390452.57	538246.00	N 32 4 24.27	W 104 12 35.49
	18613.00	89.66	358.93	9698.79	9292.39	9296.40	938.65	0.43	390547.55	538244.57	N 32 4 25.21	W 104 12 35.51
	18707.00	90.34	359.98	9698.79	9386.38	9390.39	937.76	1.33	390641.54	538243.67	N 32 4 26.14	W 104 12 35.52
	18802.00	89.78	359.80	9698.70	9481.38	9485.39	937.58	0.62	390736.53	538243.49	N 32 4 27.08	W 104 12 35.52
	18897.00	90.17	359.57	9698.74	9576.38	9580.39	937.06	0.48	390831.52	538242.97	N 32 4 28.02	W 104 12 35.52
	18991.00	91.01	359.44	9697.77	9670.38	9674.38	936.24	0.90	390925.50	538242.16	N 32 4 28.95	W 104 12 35.53
	19086.00	91.35	359.33	9695.81	9765.35	9769.36	935.22	0.38	391020.46	538241.14	N 32 4 29.89	W 104 12 35.54
	19181.00	91.40	0.09	9693.53	9860.33	9864.33	934.74	0.80	391115.43	538240.66	N 32 4 30.83	W 104 12 35.54
	19370.00	89.16	358.36	9692.61	10049.30	10053.29	932.19	1.50	391304.37	538238.10	N 32 4 32.70	W 104 12 35.57
	19465.00	89.27	358.43	9693.91	10144.26	10148.24	929.53	0.14	391399.32	538235.44	N 32 4 33.64	W 104 12 35.60
	19560.00	89.10	358.28	9695.26	10239.22	10243.19	926.80	0.24	391494.26	538232.71	N 32 4 34.58	W 104 12 35.63
	19654.00	90.28	359.32	9695.77	10333.20	10337.17	924.83	1.67	391588.22	538230.75	N 32 4 35.51	W 104 12 35.65
	19749.00	90.45	1.30	9695.17	10428.19	10432.16	925.34	2.09	391683.21	538231.26	N 32 4 36.45	W 104 12 35.65
	19844.00	90.17	1.54	9694.65	10523.15	10527.13	927.70	0.39	391778.17	538233.61	N 32 4 37.39	W 104 12 35.62
	19939.00	91.23	1.93	9693.49	10618.09	10622.08	930.58	1.19	391873.11	538236.49	N 32 4 38.33	W 104 12 35.58
	20033.00	91.07	2.02	9691.60	10712.00	10716.00	933.81	0.20	391967.02	538239.73	N 32 4 39.26	W 104 12 35.54
	20128.00	91.80	2.55	9689.22	10806.87	10810.90	937.60	0.95	392061.91	538243.51	N 32 4 40.20	W 104 12 35.50
Toe HL Cross	20183.00	90.65	1.95	9688.05	10861.81	10865.84	939.76	2.36	392116.85	538245.67	N 32 4 40.74	W 104 12 35.47
	20222.00	89.83	1.53	9687.89	10900.78	10904.82	940.95	2.36	392155.83	538246.86	N 32 4 41.13	W 104 12 35.46
Last SLB MWD Survey	20289.00	90.11	1.60	9687.92	10967.75	10971.80	942.78	0.43	392222.79	538248.69	N 32 4 41.79	W 104 12 35.44
Projection to Bit	20331.00	90.11	1.60	9687.84	11009.73	11013.78	943.95	0.00	392264.77	538249.86	N 32 4 42.21	W 104 12 35.42

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 3 *** 3-D 97.071% Confidence 3.0000 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	28.000	1/98.425	30.000	30.000	A001Ma_MWD-Depth Only	Original Borehole / Chevron HH SO 8 5 FED 003 No. 4H MWD to
	1	28.000	28.000	Act Stns	30.000	30.000	A001Ma_MWD-Depth Only	Original Borehole / Chevron HH SO 8 5 FED 003 No. 4H MWD to
	1	28.000	452.000	Act Stns	30.000	30.000	A001Ma_MWD	Original Borehole / Chevron HH SO 8 5 FED 003 No. 4H MWD to
	1	452.000	20331.000	Act Stns	30.000	30.000	B001Ma_MWD+HDGM	Original Borehole / Chevron HH SO 8 5 FED 003 No. 4H MWD to

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other			5. Lease Serial No. NMNM100549		
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____			6. If Indian, Allottee or Tribe Name		
2. Name of Operator CHEVRON USA INC			Contact: KAYLA MCCONNELL E-Mail: gncv@chevron.com		
3. Address 6301 DEAUVILLE BLVD MIDLAND, TX 79706			3a. Phone No. (include area code) Ph: 432-687-7375		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 17 T26S R27E Mer At surface 554FNL 2309FWL 32.048241 N Lat, 104.213425 W Lon Sec 17 T26S R27E Mer At top prod interval reported below 330FSL 2179FEL 32.050664 N Lat, 104.210794 W Lon Sec 5 T26S R27E Mer At total depth 182FNL 2007FEL 32.078515 N Lat, 104.210334 W Lon			8. Lease Name and Well No. HH SO 8 5 FED 003 4H		
14. Date Spudded 09/21/2018			15. Date T.D. Reached 05/15/2019		
16. Date Completed ☐ D & A ☒ Ready to Prod. 11/27/2019			9. API Well No. 30-015-45118		
18. Total Depth: MD 20331 TVD 9687			19. Plug Back T.D.: MD TVD		
20. Depth Bridge Plug Set: MD TVD			10. Field and Pool, or Exploratory PURPLE SAGE WOLFCAMP		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) GR			11. Sec., T., R., M., or Block and Survey or Area Sec 17 T26S R27E Mer		
22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)			12. County or Parish EDDY		
23. Casing and Liner Record (Report all strings set in well)			13. State NM		
17. Elevations (DF, KB, RT, GL)* 3265 GL			16. Date Completed ☐ D & A ☒ Ready to Prod. 11/27/2019		

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J-55	54.5	0	488		461		0	
12.250	9.625 HCL-80	43.5	0	8355	1967	1740		0	
8.500	5.500 P110	20.0	0	20331		3421		0	

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	9287	9265						

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	10200	20171	10200 TO 20171			OPEN
B)						
C)						
D)						

Depth Interval	Amount and Type of Material
10200 TO 20171	FRAC W/1051079 BBLs FLUID & 24.4 MM# PROPPANT

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/27/2019	12/16/2019	24	→	424.0	4147.0	3647.0	56.5	0.76	FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
64	SI 1151	7.0	→	424	4147	3647		PGW	

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #504448 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)
SOLD

30. Summary of Porous Zones (Include Aquifers): Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.	31. Formation (Log) Markers
--	-----------------------------

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				RUSTLER LAMAR BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING AVALON WOLFCAMP	55 2116 2167 2998 4100 5821 6381 8938

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:			
1. Electrical/Mechanical Logs (1 full set req'd.)	2. Geologic Report	3. DST Report	4. Directional Survey
5. Sundry Notice for plugging and cement verification	6. Core Analysis	7 Other:	

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):
Electronic Submission #504448 Verified by the BLM Well Information System.
For CHEVRON USA INC, sent to the Carlsbad

Name (<i>please print</i>) <u>KAYLA MCCONNELL</u>	Title <u>PERMITTING SPECIALIST</u>
Signature _____ (Electronic Submission)	Date <u>02/25/2020</u>

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.