

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

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 30-015-45102	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 321649	⁵ Property Name HH SO 17 20 FED 001	⁶ Well Number 5H
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	⁹ Elevation 3258'

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
N	8	26 SOUTH	27 EAST, N.M.P.M.		230'	SOUTH	1872'	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
M	20	26 SOUTH	27 EAST, N.M.P.M.		166'	SOUTH	1155'	WEST	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">KICK OFF POINT</th> </tr> <tr> <td>X= 536,404'</td> <td>NAD 27</td> </tr> <tr> <td>Y= 382,043'</td> <td></td> </tr> <tr> <td>LAT. 32.050297° N</td> <td></td> </tr> <tr> <td>LONG. 104.215836° W</td> <td></td> </tr> <tr> <td>X= 577,587'</td> <td>NAD83/86</td> </tr> <tr> <td>Y= 382,100'</td> <td></td> </tr> <tr> <td>LAT. 32.050419° N</td> <td></td> </tr> <tr> <td>LONG. 104.216330° W</td> <td></td> </tr> <tr> <th colspan="2">FINAL FIRST TAKE POINT</th> </tr> <tr> <td>X= 536,327'</td> <td>NAD 27</td> </tr> <tr> <td>Y= 381,453'</td> <td></td> </tr> <tr> <td>LAT. 32.048675° N</td> <td></td> </tr> <tr> <td>LONG. 104.216086° W</td> <td></td> </tr> <tr> <td>X= 577,511'</td> <td>NAD83/86</td> </tr> <tr> <td>Y= 381,510'</td> <td></td> </tr> <tr> <td>LAT. 32.048797° N</td> <td></td> </tr> <tr> <td>LONG. 104.216580° W</td> <td></td> </tr> <tr> <th colspan="2">MID POINT</th> </tr> <tr> <td>X= 536,243'</td> <td>NAD 27</td> </tr> <tr> <td>Y= 376,479'</td> <td></td> </tr> <tr> <td>LAT. 32.035002° N</td> <td></td> </tr> <tr> <td>LONG. 104.216373° W</td> <td></td> </tr> <tr> <td>X= 577,427'</td> <td>NAD83/86</td> </tr> <tr> <td>Y= 376,536'</td> <td></td> </tr> <tr> <td>LAT. 32.035124° N</td> <td></td> </tr> <tr> <td>LONG. 104.216866° W</td> <td></td> </tr> <tr> <th colspan="2">FINAL LAST TAKE POINT</th> </tr> <tr> <td>X= 536,234'</td> <td>NAD 27</td> </tr> <tr> <td>Y= 371,517'</td> <td></td> </tr> <tr> <td>LAT. 32.021360° N</td> <td></td> </tr> <tr> <td>LONG. 104.216420° W</td> <td></td> </tr> <tr> <td>X= 577,418'</td> <td>NAD83/86</td> </tr> <tr> <td>Y= 371,573'</td> <td></td> </tr> <tr> <td>LAT. 32.021482° N</td> <td></td> </tr> <tr> <td>LONG. 104.216913° W</td> <td></td> </tr> </table> <table border="1"> <tr> <th colspan="2">CORNER COORDINATES TABLE (NAD 27)</th> </tr> <tr> <td>A - Y=387143.09, X=534935.36</td> <td></td> </tr> <tr> <td>B - Y=381810.94, X=534988.20</td> <td></td> </tr> <tr> <td>C - Y=381799.23, X=540303.95</td> <td></td> </tr> <tr> <td>D - Y=376480.27, X=535066.16</td> <td></td> </tr> <tr> <td>E - Y=376474.90, X=540354.10</td> <td></td> </tr> <tr> <td>F - Y=371149.70, X=535082.62</td> <td></td> </tr> <tr> <td>G - Y=371148.59, X=540391.30</td> <td></td> </tr> </table> <table border="1"> <tr> <th colspan="2">ACTUAL BOTTOM HOLE LOCATION</th> </tr> <tr> <td>X= 536,237'</td> <td>NAD 27</td> </tr> <tr> <td>Y= 371,316'</td> <td></td> </tr> <tr> <td>LAT. 32.020807° N</td> <td></td> </tr> <tr> <td>LONG. 104.216411° W</td> <td></td> </tr> <tr> <td>X= 577,421'</td> <td>NAD83/86</td> </tr> <tr> <td>Y= 371,372'</td> <td></td> </tr> <tr> <td>LAT. 32.020929° N</td> <td></td> </tr> <tr> <td>LONG. 104.216904° W</td> <td></td> </tr> </table>	KICK OFF POINT		X= 536,404'	NAD 27	Y= 382,043'		LAT. 32.050297° N		LONG. 104.215836° W		X= 577,587'	NAD83/86	Y= 382,100'		LAT. 32.050419° N		LONG. 104.216330° W		FINAL FIRST TAKE POINT		X= 536,327'	NAD 27	Y= 381,453'		LAT. 32.048675° N		LONG. 104.216086° W		X= 577,511'	NAD83/86	Y= 381,510'		LAT. 32.048797° N		LONG. 104.216580° W		MID POINT		X= 536,243'	NAD 27	Y= 376,479'		LAT. 32.035002° N		LONG. 104.216373° W		X= 577,427'	NAD83/86	Y= 376,536'		LAT. 32.035124° N		LONG. 104.216866° W		FINAL LAST TAKE POINT		X= 536,234'	NAD 27	Y= 371,517'		LAT. 32.021360° N		LONG. 104.216420° W		X= 577,418'	NAD83/86	Y= 371,573'		LAT. 32.021482° N		LONG. 104.216913° W		CORNER COORDINATES TABLE (NAD 27)		A - Y=387143.09, X=534935.36		B - Y=381810.94, X=534988.20		C - Y=381799.23, X=540303.95		D - Y=376480.27, X=535066.16		E - Y=376474.90, X=540354.10		F - Y=371149.70, X=535082.62		G - Y=371148.59, X=540391.30		ACTUAL BOTTOM HOLE LOCATION		X= 536,237'	NAD 27	Y= 371,316'		LAT. 32.020807° N		LONG. 104.216411° W		X= 577,421'	NAD83/86	Y= 371,372'		LAT. 32.020929° N		LONG. 104.216904° W			¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>[Signature]</i> Date: 3/3/2020 Printed Name: Laura Becerra E-mail Address: LBecerra@Chevron.com ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey: 06/25/2019 Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: 11/12/2019 23006
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Intent ☐ As Drilled ☒

API # 30-015-45102			
Operator Name: CHEVRON USA INC		Property Name: HH SO 17 20 FED 001	Well Number 5H

Kick Off Point (KOP)

UL N	Section 8	Township 26S	Range 27E	Lot	Feet 235	From N/S FSL	Feet 1,418	From E/W FWL	County EDDY
Latitude 32.050419					Longitude 104.216330			NAD NAD 83/86	

First Take Point (FTP)

UL D	Section 17	Township 26S	Range 27E	Lot	Feet 355	From N/S FNL	Feet 1,333	From E/W FWL	County EDDY
Latitude 32.048797					Longitude 104.216580			NAD NAD 83/86	

Last Take Point (LTP)

UL M	Section 20	Township 26S	Range 27E	Lot	Feet 367	From N/S FSL	Feet 1,153	From E/W FWL	County EDDY
Latitude 32.021482					Longitude 104.216913			NAD NAD 83/86	

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

KZ 06/29/2018

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)



April 2, 2019

Chevron USA Incorporated
6301 Deauville Blvd.
Midland TX 79706

8, 26S, 27E, Eddy NM
N 32.05040 W 104.21485

Re:

CLIENT: Chevron USA Incorporated
WELL: HH SO 17 20 Fed 001 No. 5H
FIELD: Purple Sage-Wolfcamp (Gas)

RIG: Patterson 270
COUNTY: Eddy
API NO: 30-015-45102
JOB NO: 18MLD3950

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>
Fredy Portillo FE	HH SO 17 20 Fed 001 No. 5H Original Hole	200.00 Ft to 20148.00 Ft	March 9, 2019 to March 28, 2019	TelePacer SlimPulse

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

Dana Lasher
Field Service Manager

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:
8, 26S, 27E, Eddy NM
N 32.05040 W 104.21485

I, Fredy Portillo certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of March 09, 2019 through March 28, 2019, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 200.00 feet to a depth of 20148.00 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 Incorporated for the HH SO 17 20 Fed 001 No. 5H Well (Original Hole) API No. 30-015-45102 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
Fredy Portillo
FE

Fredy Portillo

Subscribed and Sworn to before me this 2nd day of April (month) 2019 (yr)

My Commission expires:

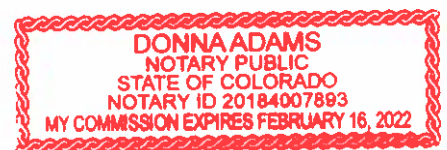
2-16-2022

Donna Adams

Notary Public

Adams County Colorado
(County State)

(signature)





Chevron HH SO 17 20 Fed 001 No. 5H MWD to 20216ft Survey Geodetic Report (Def Survey)



Report Date: March 29, 2019 - 08:01 AM
Client: Chevron
Field: NM Eddy County (NAD 27)
Structure / Slot: Chevron HH SO 17 20 Fed 001 No. 5H / HH SO 17 20 Fed 001 No. 5H
Well: HH SO 17 20 Fed 001 No. 5H
Borehole: HH SO 17 20 Fed 001 No. 5H
UWI / API#: Unknown / Unknown
Survey Name: Chevron HH SO 17 20 Fed 001 No. 5H MWD to 20216ft
Survey Date: March 28, 2019
Tort / AHD / DDI / ERD Ratio: 308.031 ° / 11286.151 ft / 6.862 / 1.169
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 3' 1.00389", W 104° 12' 51.73054"
Location Grid N/E Y/X: N 382037.000 ftUS, E 536858.000 ftUS
CRS Grid Convergence Angle: 0.0631 °
Grid Scale Factor: 0.99991065
Version / Patch: 2.10.753.0
Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.490 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB = 28ft
TVD Reference Elevation: 3286.000 ft above MSL
Seabed / Ground Elevation: 3258.000 ft above MSL
Magnetic Declination: 7.246 °
Total Gravity Field Strength: 998.4300mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47791.190 nT
Magnetic Dip Angle: 59.666 °
Declination Date: March 28, 2019
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.0631 °
Total Corr Mag North->Grid North: 7.1824 °
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	382037.00	536858.00	N 32 ° 3' 1.00 "	W 104 ° 12' 51.73 "
First SLB MWD Survey	200.00	0.88	273.03	199.99	-0.09	0.08	-1.53	0.44	382037.08	536856.47	N 32 ° 3' 1.00 "	W 104 ° 12' 51.75 "
	400.00	1.10	273.50	399.96	-0.32	0.28	-4.98	0.11	382037.28	536853.02	N 32 ° 3' 1.01 "	W 104 ° 12' 51.79 "
	503.00	1.12	270.48	502.94	-0.41	0.35	-6.98	0.06	382037.35	536851.02	N 32 ° 3' 1.01 "	W 104 ° 12' 51.81 "
	595.00	0.93	273.80	594.93	-0.48	0.41	-8.62	0.22	382037.41	536849.38	N 32 ° 3' 1.01 "	W 104 ° 12' 51.83 "
	688.00	0.45	280.59	687.92	-0.61	0.52	-9.73	0.52	382037.52	536848.27	N 32 ° 3' 1.01 "	W 104 ° 12' 51.84 "
	781.00	0.25	235.37	780.92	-0.57	0.47	-10.26	0.35	382037.47	536847.74	N 32 ° 3' 1.01 "	W 104 ° 12' 51.85 "
	874.00	0.88	267.68	873.91	-0.43	0.33	-11.14	0.73	382037.33	536846.86	N 32 ° 3' 1.01 "	W 104 ° 12' 51.86 "
	964.00	2.46	279.20	963.87	-0.73	0.61	-13.74	1.79	382037.61	536844.26	N 32 ° 3' 1.01 "	W 104 ° 12' 51.89 "
	1059.00	4.39	280.02	1058.70	-1.74	1.57	-19.33	2.03	382038.57	536838.67	N 32 ° 3' 1.02 "	W 104 ° 12' 51.96 "
	1154.00	5.84	277.08	1153.32	-3.04	2.80	-27.71	1.55	382039.80	536830.29	N 32 ° 3' 1.03 "	W 104 ° 12' 52.05 "
	1248.00	6.88	274.17	1246.74	-4.14	3.80	-38.07	1.16	382040.80	536819.93	N 32 ° 3' 1.04 "	W 104 ° 12' 52.17 "
	1343.00	7.78	273.73	1340.96	-5.08	4.63	-50.16	0.95	382041.63	536807.84	N 32 ° 3' 1.05 "	W 104 ° 12' 52.31 "
	1438.00	8.00	271.61	1435.06	-5.80	5.23	-63.19	0.38	382042.23	536794.82	N 32 ° 3' 1.06 "	W 104 ° 12' 52.46 "
	1534.00	9.17	270.25	1529.99	-6.14	5.45	-77.51	1.24	382042.45	536780.49	N 32 ° 3' 1.06 "	W 104 ° 12' 52.63 "
	1629.00	10.32	270.07	1623.61	-6.33	5.50	-93.59	1.21	382042.50	536764.42	N 32 ° 3' 1.06 "	W 104 ° 12' 52.82 "
	1723.00	9.15	272.33	1716.26	-6.79	5.81	-109.48	1.31	382042.81	536748.53	N 32 ° 3' 1.06 "	W 104 ° 12' 53.00 "
	1819.00	8.17	274.49	1811.16	-7.76	6.66	-123.91	1.08	382043.66	536734.10	N 32 ° 3' 1.07 "	W 104 ° 12' 53.17 "
	2008.00	9.56	271.15	1997.90	-9.38	8.02	-152.99	0.78	382045.02	536705.02	N 32 ° 3' 1.08 "	W 104 ° 12' 53.51 "
	2103.00	8.48	270.74	2091.73	-9.77	8.27	-167.88	1.14	382045.27	536690.13	N 32 ° 3' 1.09 "	W 104 ° 12' 53.68 "
	2198.00	8.78	270.60	2185.65	-10.06	8.44	-182.14	0.32	382045.44	536675.88	N 32 ° 3' 1.09 "	W 104 ° 12' 53.85 "
	2293.00	11.48	272.52	2279.16	-10.70	8.93	-198.83	2.86	382045.93	536659.19	N 32 ° 3' 1.09 "	W 104 ° 12' 54.04 "
	2388.00	12.25	274.15	2372.13	-12.02	10.07	-218.33	0.88	382047.07	536639.69	N 32 ° 3' 1.11 "	W 104 ° 12' 54.27 "
	2482.00	12.09	273.64	2464.02	-13.54	11.42	-238.10	0.21	382048.42	536619.92	N 32 ° 3' 1.12 "	W 104 ° 12' 54.50 "
	2577.00	11.64	274.45	2556.99	-15.09	12.80	-257.58	0.51	382049.80	536600.44	N 32 ° 3' 1.13 "	W 104 ° 12' 54.72 "
	2671.00	11.61	274.92	2649.06	-16.80	14.34	-276.46	0.11	382051.34	536581.56	N 32 ° 3' 1.15 "	W 104 ° 12' 54.94 "
	2766.00	11.16	274.27	2742.19	-18.47	15.85	-295.15	0.49	382052.85	536562.87	N 32 ° 3' 1.16 "	W 104 ° 12' 55.16 "
	2861.00	11.08	273.44	2835.41	-19.87	17.08	-313.43	0.19	382054.08	536544.59	N 32 ° 3' 1.18 "	W 104 ° 12' 55.37 "
	2956.00	10.22	273.38	2928.77	-21.07	18.12	-330.96	0.91	382055.12	536527.07	N 32 ° 3' 1.19 "	W 104 ° 12' 55.58 "
	3051.00	9.78	3022.33	222.24	-22.24	19.14	-347.42	0.47	382056.14	536510.61	N 32 ° 3' 1.20 "	W 104 ° 12' 55.77 "
	3146.00	9.50	273.64	3115.98	-23.40	20.17	-363.30	0.30	382057.16	536494.73	N 32 ° 3' 1.21 "	W 104 ° 12' 55.95 "
	3240.00	9.30	273.02	3208.72	-24.43	21.06	-378.63	0.24	382058.06	536479.41	N 32 ° 3' 1.22 "	W 104 ° 12' 56.13 "
	3336.00	9.07	275.40	3303.49	-25.68	22.18	-393.91	0.46	382059.18	536464.13	N 32 ° 3' 1.23 "	W 104 ° 12' 56.31 "
	3431.00	8.02	277.89	3397.44	-27.42	23.79	-407.93	1.17	382060.79	536450.11	N 32 ° 3' 1.24 "	W 104 ° 12' 56.47 "
	3525.00	6.53	277.18	3490.68	-29.10	25.36	-419.73	1.59	382062.36	536438.31	N 32 ° 3' 1.26 "	W 104 ° 12' 56.61 "
	3620.00	6.36	276.23	3585.08	-30.44	26.61	-430.32	0.21	382063.61	536427.72	N 32 ° 3' 1.27 "	W 104 ° 12' 56.73 "
	3715.00	4.28	273.82	3679.66	-31.32	27.42	-439.08	2.20	382064.41	536418.96	N 32 ° 3' 1.28 "	W 104 ° 12' 56.83 "
	3809.00	2.67	279.20	3773.49	-31.96	28.00	-444.75	1.75	382065.00	536413.30	N 32 ° 3' 1.29 "	W 104 ° 12' 56.90 "
	3904.00	2.16	274.60	3868.40	-32.49	28.50	-448.71	0.57	382065.49	536409.33	N 32 ° 3' 1.29 "	W 104 ° 12' 56.94 "
	3999.00	0.68	293.83	3963.37	-32.88	28.87	-451.01	1.62	382065.87	536407.03	N 32 ° 3' 1.29 "	W 104 ° 12' 56.97 "
	4094.00	0.30	291.36	4058.37	-33.21	29.19	-451.76	0.40	382066.18	536406.28	N 32 ° 3' 1.30 "	W 104 ° 12' 56.98 "
	4188.00	0.61	272.92	4152.36	-33.33	29.30	-452.49	0.36	382066.30	536405.55	N 32 ° 3' 1.30 "	W 104 ° 12' 56.99 "
	4282.00	0.53	267.70	4246.36	-33.34	29.31	-453.43	0.10	382066.31	536404.62	N 32 ° 3' 1.30 "	W 104 ° 12' 57.00 "
	4377.00	0.52	254.88	4341.36	-33.22	29.18	-454.28	0.12	382066.18	536403.76	N 32 ° 3' 1.30 "	W 104 ° 12' 57.01 "
	4472.00	0.62	276.27	4436.35	-33.17	29.12	-455.21	0.25	382066.12	536402.83	N 32 ° 3' 1.30 "	W 104 ° 12' 57.02 "
	4662.00	0.74	263.68	4626.34	-33.17	29.10	-457.45	0.10	382066.10	536400.59	N 32 ° 3' 1.30 "	W 104 ° 12' 57.04 "
	4757.00	1.00	255.62	4721.33	-32.91	28.83	-458.86	0.30	382065.82	536399.18	N 32 ° 3' 1.29 "	W 104 ° 12' 57.06 "
	4852.00	1.15	255.66	4816.31	-32.48	28.39	-460.59	0.16	382065.38	536397.45	N 32 ° 3' 1.29 "	W 104 ° 12' 57.08 "
	4946.00	1.52	256.73	4910.28	-31.98	27.87	-462.72	0.39	382064.86	536395.33	N 32 ° 3' 1.28 "	W 104 ° 12' 57.11 "
	5041.00	0.50	273.76	5005.27	-31.74	27.60	-464.36	1.11	382064.60	536393.69	N 32 ° 3' 1.28 "	W 104 ° 12' 57.13 "
	5136.00	0.18	303.32	5100.27	-31.85	27.71	-464.89	0.37	382064.71	536393.15	N 32 ° 3' 1.28 "	W 104 ° 12' 57.13 "
	5231.00	0.06	4.00	5195.27	-31.98	27.84	-465.01	0.17	382064.84	536393.03	N 32 ° 3' 1.28 "	W 104 ° 12' 57.13 "
	5326.00	0.08	74.05	5290.27	-32.05	27.91	-464.95	0.09	382064.91	536393.09	N 32 ° 3' 1.29 "	W 104 ° 12' 57.13 "
	5420.00	0.33	214.79	5384.27	-31.85	27.71	-465.04	0.42	382064.71	536393.00	N 32 ° 3' 1.28 "	W 104 ° 12' 57.13 "
	5514.00	0.62	213.96	5478.26	-31.21	27.06	-465.48	0.31	382064.06	536392.56	N 32 ° 3' 1.28 "	W 104 ° 12' 57.14 "
	5609.00	1.03	225.71	5573.25	-30.19	26.04	-466.38	0.46	382063.04	536391.67	N 32 ° 3' 1.27 "	W 104 ° 12' 57.15 "
	5703.00	1.40	230.38	5667.23	-28.88	24.72	-467.87	0.41	382061.72	536390.18	N 32 ° 3' 1.25 "	W 104 ° 12' 57.17 "
	5805.00	1.13	241.34	5769.21	-27.62	23.44	-469.71	0.35	382060.44	536388.34	N 32 ° 3' 1.24 "	W 104 ° 12' 57.19 "
	5899.00	1.05	245.25	5863.19	-26.83	22.64	-471.30	0.12	382059.63	536386.74	N 32 ° 3' 1.23 "	W 104 ° 12' 57.21 "
	5989.00	1.01	242.27	5953.17	-26.13	21.92	-472.75	0.07	382058.92	536385.29	N 32 ° 3' 1.23 "	W 104 ° 12' 57.22 "
	6085.00	0.56	265.12	6049.17	-25.71	21.49	-473.97	0.56	382058.49	536384.07	N 32 ° 3' 1.22 "	W 104 ° 12' 57.24 "
	6180.00	1.67	70.80	6144.16	-26.11	21.90	-473.13	2.33	382058.90	536384.92	N 32 ° 3' 1.23 "	W 104 ° 12' 57.23 "
	6276.00	1.72	90.27	6240.11	-26.54	22.36	-470.36	0.60	382059.36	536387.68	N 32 ° 3' 1.23 "	W 104 ° 12' 57.20 "
	6370.00	1.23	85.45	6334.08	-26.60	22.43	-467.95	0.54	382059.43	536390.10	N 32 ° 3' 1.23 "	W 104 ° 12' 57.17 "
	6465.00	0.95	83.62	6429.07	-26.75	22.60	-466.15	0.30	382059.60	536391.89	N 32 ° 3' 1.23 "	W 104 ° 12' 57.15 "
	6560.00	0.95	119.76	6524.05	-26.43	22.30	-464.68	0.62	382059.29	536393.36	N 32 ° 3' 1.23 "	W 104 ° 12' 57.13 "
	6655.00	1.02	129.53	6619.04	-25.49	21.37	-463.35	0.19	382058.37	536394.70	N 32 ° 3' 1.22 "	W 104 ° 12' 57.11 "
	6750.00	0.84	120.69	6714.03	-24.59	20.47	-462.10	0.24	382057.47	536395.95	N 32 ° 3' 1.21 "	W 104 ° 12' 57.10 "
	6845.00	0.61	100.51	6809.02	-24.13	20.03	-461.00	0.36	382057.02	536397.04	N 32 ° 3' 1.21 "	W 104 ° 12' 57.09 "

...HH SO 17 20 Fed 001 No. 5H\Chevron HH SO 17 20 Fed 001 No. 5H MWD to 20216ft

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 ° ' ")
	6940.00	0.73	91.46	6904.01	-24.01	19.92	-459.90	0.17	382056.92	536398.15	N 32 3 1.21	W 104 12 57.07
	7034.00	0.13	198.50	6998.01	-23.89	19.80	-459.33	0.83	382056.80	536398.71	N 32 3 1.20	W 104 12 57.07
	7129.00	0.32	103.77	7093.01	-23.72	19.64	-459.11	0.37	382056.63	536398.93	N 32 3 1.20	W 104 12 57.06
	7224.00	0.28	21.52	7188.01	-23.87	19.79	-458.77	0.42	382056.79	536399.28	N 32 3 1.20	W 104 12 57.06
	7319.00	0.41	106.46	7283.01	-23.99	19.91	-458.35	0.50	382056.91	536399.69	N 32 3 1.21	W 104 12 57.06
	7413.00	0.52	114.83	7377.00	-23.71	19.63	-457.64	0.14	382056.63	536400.40	N 32 3 1.20	W 104 12 57.05
	7508.00	0.93	92.70	7472.00	-23.48	19.42	-456.48	0.51	382056.42	536401.56	N 32 3 1.20	W 104 12 57.03
	7602.00	1.24	114.88	7565.98	-23.00	18.95	-454.80	0.55	382055.95	536403.24	N 32 3 1.20	W 104 12 57.01
	7697.00	1.14	117.60	7660.96	-22.11	18.08	-453.03	0.12	382055.08	536405.01	N 32 3 1.19	W 104 12 56.99
	7793.00	1.96	117.58	7756.92	-20.89	16.88	-450.73	0.85	382053.88	536407.31	N 32 3 1.18	W 104 12 56.97
	7888.00	1.50	112.53	7851.88	-19.64	15.65	-448.14	0.51	382052.65	536409.90	N 32 3 1.16	W 104 12 56.94
	7983.00	0.11	354.98	7946.87	-19.24	15.27	-447.00	1.64	382052.26	536411.04	N 32 3 1.16	W 104 12 56.92
	8078.00	0.48	332.69	8041.87	-19.69	15.71	-447.19	0.40	382052.71	536410.85	N 32 3 1.16	W 104 12 56.93
	8173.00	0.23	335.35	8136.87	-20.22	16.24	-447.45	0.26	382053.24	536410.59	N 32 3 1.17	W 104 12 56.93
	8268.00	0.45	348.75	8231.86	-20.76	16.78	-447.60	0.24	382053.78	536410.44	N 32 3 1.17	W 104 12 56.93
	8362.00	0.55	319.39	8325.86	-21.47	17.48	-447.97	0.29	382054.48	536410.07	N 32 3 1.18	W 104 12 56.93
	8457.00	0.61	321.41	8420.86	-22.21	18.22	-448.58	0.07	382055.22	536409.46	N 32 3 1.19	W 104 12 56.94
	8552.00	0.29	302.73	8515.85	-22.74	18.75	-449.10	0.37	382055.75	536408.94	N 32 3 1.19	W 104 12 56.95
	8646.00	0.56	263.46	8609.85	-22.83	18.82	-449.76	0.41	382055.82	536408.29	N 32 3 1.20	W 104 12 56.96
	8741.00	0.66	238.53	8704.85	-22.50	18.49	-450.68	0.30	382055.48	536407.36	N 32 3 1.19	W 104 12 56.97
	8835.00	0.85	243.74	8798.84	-21.91	17.89	-451.77	0.21	382054.89	536406.27	N 32 3 1.19	W 104 12 56.98
	8930.00	0.85	228.15	8893.83	-21.14	17.11	-452.93	0.24	382054.11	536405.11	N 32 3 1.18	W 104 12 56.99
	9024.00	1.76	197.38	8987.80	-19.31	15.27	-453.88	1.19	382052.27	536404.16	N 32 3 1.16	W 104 12 57.00
	9095.00	2.30	181.69	9058.76	-16.85	12.81	-454.25	1.08	382049.80	536403.80	N 32 3 1.14	W 104 12 57.01
	9214.00	3.72	181.07	9177.59	-10.60	6.56	-454.39	1.19	382043.56	536403.65	N 32 3 1.07	W 104 12 57.01
	9261.00	10.11	185.26	9224.23	-4.97	0.92	-454.79	13.63	382037.92	536403.25	N 32 3 1.02	W 104 12 57.01
	9309.00	17.05	187.27	9270.86	6.21	-10.27	-456.07	14.49	382026.73	536401.97	N 32 3 0.91	W 104 12 57.03
	9356.00	24.04	184.98	9314.84	22.59	-26.66	-457.78	14.97	382010.34	536400.26	N 32 3 0.75	W 104 12 57.05
	9404.00	29.77	184.21	9357.63	44.21	-48.30	-459.50	11.96	381988.70	536398.54	N 32 3 0.53	W 104 12 57.07
	9451.00	35.26	182.77	9397.24	69.40	-73.51	-461.02	11.80	381963.50	536397.03	N 32 3 0.28	W 104 12 57.09
	9497.00	39.20	178.66	9433.87	97.21	-101.32	-461.32	10.12	381935.69	536396.72	N 32 3 0.01	W 104 12 57.09
	9544.00	43.17	181.54	9469.24	128.14	-132.26	-461.40	9.36	381904.75	536396.64	N 32 2 59.70	W 104 12 57.09
	9592.00	49.60	185.71	9502.34	162.77	-166.90	-463.67	14.79	381870.11	536394.38	N 32 2 59.36	W 104 12 57.12
	9639.00	54.36	187.74	9531.28	199.48	-203.66	-468.02	10.68	381833.36	536390.02	N 32 2 58.99	W 104 12 57.17
	9687.00	57.30	186.70	9558.24	238.83	-243.05	-473.01	6.38	381793.97	536385.04	N 32 2 58.60	W 104 12 57.23
	9734.00	61.38	188.33	9582.20	278.85	-283.12	-478.30	9.18	381753.90	536379.74	N 32 2 58.21	W 104 12 57.29
	9782.00	66.72	189.21	9603.20	321.43	-325.76	-484.89	11.25	381711.27	536373.15	N 32 2 57.79	W 104 12 57.37
	9829.00	71.48	186.72	9619.96	364.85	-369.23	-490.96	11.27	381667.80	536367.09	N 32 2 57.36	W 104 12 57.44
	9876.00	77.06	187.17	9632.70	409.68	-414.12	-496.43	11.91	381622.92	536361.62	N 32 2 56.91	W 104 12 57.50
	9923.00	79.66	189.61	9642.18	455.16	-459.65	-503.15	7.51	381577.39	536354.90	N 32 2 56.46	W 104 12 57.58
	9971.00	84.11	192.33	9648.96	501.71	-506.29	-512.19	10.84	381530.76	536345.85	N 32 2 56.00	W 104 12 57.69
Heel HL Cross	10026.00	91.78	195.26	9650.93	554.92	-559.62	-525.29	14.93	381477.43	536332.76	N 32 2 55.47	W 104 12 57.84
	10030.00	92.34	195.47	9650.78	558.77	-563.47	-526.35	14.93	381473.58	536331.70	N 32 2 55.43	W 104 12 57.85
	10161.00	93.51	191.90	9644.10	685.58	-690.57	-557.30	2.86	381346.50	536300.75	N 32 2 54.18	W 104 12 58.21
	10183.00	93.86	191.76	9642.68	707.02	-712.05	-561.80	1.71	381325.01	536296.25	N 32 2 53.96	W 104 12 58.27
	10287.00	91.68	192.34	9637.66	808.41	-813.64	-583.48	2.17	381223.44	536274.57	N 32 2 52.96	W 104 12 58.52
	10382.00	92.13	194.59	9634.50	900.54	-905.97	-605.59	2.41	381131.11	536252.46	N 32 2 52.05	W 104 12 58.78
	10572.00	93.09	192.85	9625.85	1084.51	-1090.35	-650.61	1.05	380946.75	536207.45	N 32 2 50.22	W 104 12 59.30
	10666.00	92.99	188.81	9620.86	1176.53	-1182.52	-668.24	4.29	380854.59	536189.82	N 32 2 49.31	W 104 12 59.51
	10761.00	92.89	184.60	9615.98	1270.63	-1276.73	-679.31	4.43	380760.39	536178.75	N 32 2 48.38	W 104 12 59.64
	10855.00	91.96	184.70	9612.01	1364.16	-1370.33	-686.93	1.00	380666.79	536171.13	N 32 2 47.45	W 104 12 59.73
	10950.00	92.27	184.44	9608.50	1458.73	-1464.97	-694.49	0.43	380572.17	536163.57	N 32 2 46.51	W 104 12 59.82
	11045.00	91.51	182.23	9605.37	1553.45	-1559.75	-700.02	2.46	380477.40	536158.05	N 32 2 45.58	W 104 12 59.88
	11140.00	90.69	180.15	9603.54	1648.39	-1654.70	-701.99	2.35	380382.45	536156.08	N 32 2 44.64	W 104 12 59.91
	11235.00	90.45	180.01	9602.60	1743.38	-1749.70	-702.12	0.29	380287.46	536155.94	N 32 2 43.70	W 104 12 59.91
	11330.00	91.07	180.00	9601.34	1838.37	-1844.69	-702.13	0.65	380192.48	536155.94	N 32 2 42.76	W 104 12 59.91
	11425.00	91.13	179.81	9599.51	1933.35	-1939.67	-701.97	0.21	380097.51	536156.09	N 32 2 41.82	W 104 12 59.91
	11520.00	90.79	177.60	9597.92	2028.32	-2034.63	-699.82	2.35	380002.56	536158.24	N 32 2 40.88	W 104 12 59.89
	11615.00	91.07	176.87	9596.38	2123.23	-2129.50	-695.24	0.82	379907.69	536162.82	N 32 2 39.94	W 104 12 59.83
	11710.00	90.89	176.00	9594.76	2218.08	-2224.31	-689.34	0.94	379812.90	536168.73	N 32 2 39.00	W 104 12 59.77
	11899.00	90.69	175.31	9592.15	2406.64	-2412.74	-675.02	0.38	379624.48	536183.04	N 32 2 37.14	W 104 12 59.60
	12089.00	90.76	175.11	9589.75	2596.09	-2602.06	-659.15	0.11	379435.17	536198.91	N 32 2 35.26	W 104 12 59.42
	12184.00	90.45	174.93	9588.74	2690.80	-2696.70	-650.91	0.38	379340.55	536207.15	N 32 2 34.33	W 104 12 59.33
	12279.00	91.17	178.17	9587.40	2785.65	-2791.51	-645.19	3.49	379245.75	536212.87	N 32 2 33.39	W 104 12 59.26
	12374.00	91.10	181.23	9585.52	2880.62	-2886.47	-644.69	3.22	379150.79	536213.36	N 32 2 32.45	W 104 12 59.26
	12468.00	91.51	183.00	9583.38	2974.49	-2980.38	-648.16	1.93	379056.89	536209.90	N 32 2 31.52	W 104 12 59.30
	12564.00	91.20	181.32	9581.11	3070.36	-3076.28	-651.78	1.78	378961.00	536206.28	N 32 2 30.57	W 104 12 59.34
	12658.00	91.10	178.64	9579.22	3164.33	-3170.26	-651.75	2.85	378867.03	536206.31	N 32 2 29.64	W 104 12 59.34
	12753.00	91.93	177.03	9576.71	3259.25	-3265.15	-648.16	1.91	378772.15	536209.90	N 32 2 28.70	W 104 12 59.30
	12847.00	91.03	176.83	9574.28	3353.13	-3358.98	-643.13	0.98	378678.32	536214.93	N 32 2 27.77	W 104 12 59.24
	12942.00	90.72	177.26	9572.83	3448.03	-3453.85	-638.23	0.56	378583.47	536219.83	N 32 2 26.83	W 104 12 59.19
	13037.00	90.86	177.14	9571.52	3542.94	-3548.72	-633.59	0.19	378488.60	536224.47	N 32 2 25.89	W 104 12 59.14
	13227.00	90.65	178.40	9569.01	3732.84	-3738.56	-626.20	0.67	378298.78	536231.86	N 32 2 24.01	W 104 12 59.05
	13321.00	90.31	178.30	9568.23	3826.81	-3832.52	-623.49	0.38	378204.83	536234.57	N 32 2 23.09	W 104 12 59.02
	13415.00	90.96	179.09	9567.19	3920.80	-3926.48	-621.35	1.09	378110.87	536236.71	N 32 2 22.16	W 104 12 59.00
	13510.00	90.89	183.66	9565.65	4015.71	-4021.42	-623.63	4.81	378015.95	536234.43	N 32 2 21.22	W 104 12 59.03
	13606.00	90.96	184.20	9564.10	4111.41	-4117.18	-630.21	0.57	377920.19	536227.85		

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 ° ' ")
	15789.00	88.31	181.75	9554.37	6290.99	-6296.55	-597.44	1.98	375741.02	536260.62	N 32 1 58.70	W 104 12 58.75
	15884.00	89.38	181.97	9556.28	6385.88	-6391.48	-600.52	1.15	375646.10	536257.53	N 32 1 57.76	W 104 12 58.79
	16072.00	91.00	184.55	9555.66	6573.45	-6579.16	-611.21	1.62	375458.45	536246.84	N 32 1 55.90	W 104 12 58.91
	16167.00	91.44	182.56	9553.64	6668.19	-6673.95	-617.10	2.14	375363.66	536240.96	N 32 1 54.97	W 104 12 58.98
	16262.00	89.31	181.41	9553.01	6763.09	-6768.88	-620.39	2.55	375268.74	536237.67	N 32 1 54.03	W 104 12 59.02
	16357.00	90.72	181.59	9552.99	6858.03	-6863.84	-622.88	1.50	375173.78	536235.18	N 32 1 53.09	W 104 12 59.05
	16452.00	87.63	180.48	9554.36	6952.97	-6958.81	-624.59	3.46	375078.83	536233.46	N 32 1 52.15	W 104 12 59.07
	16547.00	89.83	181.01	9556.46	7047.92	-7053.77	-625.83	2.38	374983.88	536232.23	N 32 1 51.21	W 104 12 59.09
	16641.00	88.52	180.20	9557.82	7141.89	-7147.75	-626.82	1.64	374889.90	536231.24	N 32 1 50.28	W 104 12 59.10
	16736.00	89.52	180.57	9559.44	7236.86	-7242.73	-627.46	1.12	374794.93	536230.60	N 32 1 49.34	W 104 12 59.11
	16831.00	89.21	179.28	9560.49	7331.85	-7337.73	-627.33	1.40	374699.94	536230.72	N 32 1 48.40	W 104 12 59.11
	16926.00	91.13	180.51	9560.21	7426.84	-7432.72	-627.16	2.40	374604.96	536230.90	N 32 1 47.46	W 104 12 59.11
	17020.00	91.38	181.19	9558.15	7520.79	-7526.69	-628.55	0.77	374511.00	536229.50	N 32 1 46.53	W 104 12 59.13
	17115.00	87.70	180.10	9558.92	7615.75	-7621.66	-629.62	4.04	374416.04	536228.43	N 32 1 45.59	W 104 12 59.14
	17210.00	89.69	178.81	9561.08	7710.72	-7716.62	-628.72	2.50	374321.08	536229.34	N 32 1 44.65	W 104 12 59.13
	17306.00	89.90	181.07	9561.42	7806.71	-7812.62	-628.62	2.36	374225.10	536229.44	N 32 1 43.70	W 104 12 59.13
	17401.00	89.83	180.42	9561.65	7901.69	-7907.61	-629.85	0.69	374130.12	536228.20	N 32 1 42.76	W 104 12 59.15
	17496.00	90.03	181.76	9561.76	7996.65	-8002.59	-631.66	1.43	374035.14	536226.40	N 32 1 41.82	W 104 12 59.17
	17686.00	90.41	182.75	9561.03	8186.42	-8192.44	-639.14	0.56	373845.31	536218.92	N 32 1 39.94	W 104 12 59.26
	17875.00	89.86	180.22	9560.59	8375.29	-8381.36	-644.04	1.37	373656.41	536214.02	N 32 1 38.07	W 104 12 59.32
	17971.00	90.00	178.73	9560.71	8471.29	-8477.35	-643.16	1.56	373560.43	536214.90	N 32 1 37.12	W 104 12 59.31
	18065.00	89.42	177.52	9561.18	8565.26	-8571.30	-640.08	1.43	373466.49	536217.98	N 32 1 36.19	W 104 12 59.27
	18253.00	91.27	177.88	9560.05	8753.15	-8759.13	-632.54	1.00	373278.67	536225.52	N 32 1 34.33	W 104 12 59.19
	18348.00	90.34	177.17	9558.71	8848.09	-8854.03	-628.43	1.23	373183.78	536229.62	N 32 1 33.39	W 104 12 59.14
	18443.00	91.65	176.42	9557.06	8942.97	-8948.87	-623.12	1.59	373088.95	536234.93	N 32 1 32.45	W 104 12 59.08
	18537.00	91.86	177.62	9554.19	9036.83	-9042.69	-618.24	1.30	372995.13	536239.82	N 32 1 31.53	W 104 12 59.03
	18632.00	91.45	179.90	9551.44	9131.78	-9137.63	-616.18	2.44	372900.21	536241.87	N 32 1 30.59	W 104 12 59.00
	18727.00	91.41	181.73	9549.07	9226.72	-9232.58	-617.54	1.93	372805.26	536240.52	N 32 1 29.65	W 104 12 59.02
	18822.00	91.58	180.97	9546.59	9321.64	-9327.52	-619.77	0.82	372710.33	536238.28	N 32 1 28.71	W 104 12 59.05
	19012.00	91.65	181.62	9541.24	9511.47	-9517.40	-624.06	0.34	372520.47	536233.99	N 32 1 26.83	W 104 12 59.10
	19107.00	91.07	181.25	9538.98	9606.38	-9612.34	-626.44	0.72	372425.54	536231.61	N 32 1 25.89	W 104 12 59.13
	19202.00	91.45	180.70	9536.89	9701.33	-9707.30	-628.06	0.70	372330.58	536230.00	N 32 1 24.95	W 104 12 59.15
	19296.00	91.07	180.47	9534.83	9795.29	-9801.28	-629.02	0.47	372236.62	536229.04	N 32 1 24.02	W 104 12 59.16
	19391.00	90.83	181.11	9533.25	9890.25	-9896.25	-630.33	0.72	372141.65	536227.73	N 32 1 23.08	W 104 12 59.18
	19486.00	91.07	180.70	9531.68	9985.21	-9991.23	-631.83	0.50	372046.68	536226.23	N 32 1 22.14	W 104 12 59.20
	19673.00	89.86	178.52	9530.16	10172.19	-10178.20	-630.56	1.33	371859.73	536227.50	N 32 1 20.29	W 104 12 59.18
	19768.00	89.79	177.88	9530.45	10267.16	-10273.15	-627.57	0.68	371764.78	536230.49	N 32 1 19.35	W 104 12 59.15
	19863.00	90.10	179.49	9530.54	10362.15	-10368.13	-625.39	1.73	371669.82	536232.67	N 32 1 18.41	W 104 12 59.13
	19958.00	89.97	179.69	9530.48	10457.15	-10463.12	-624.71	0.25	371574.83	536233.35	N 32 1 17.47	W 104 12 59.12
Toe HL Cross	20053.00	89.72	178.90	9530.74	10552.15	-10558.12	-623.54	0.87	371479.85	536234.51	N 32 1 16.53	W 104 12 59.11
Last SLB MWD Survey	20148.00	89.76	179.18	9531.17	10647.14	-10653.10	-621.95	0.30	371384.87	536236.11	N 32 1 15.59	W 104 12 59.09
Projection to Bit	20216.00	89.76	179.18	9531.46	10715.14	-10721.09	-620.98	0.00	371316.89	536237.08	N 32 1 14.92	W 104 12 59.08

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	B001Ma_MWD+HDGM-Depth Only	HH SO 17 20 Fed 001 No. 5H / Chevron HH SO 17 20 Fed 001 No. 5H MWD to 20216ft
	1	28.000	28.000	Act Stns	30.000	30.000	B001Ma_MWD+HDGM-Depth Only	HH SO 17 20 Fed 001 No. 5H / Chevron HH SO 17 20 Fed 001 No. 5H MWD to 20216ft
	1	28.000	20216.000	Act Stns	30.000	30.000	B001Ma_MWD+HDGM	HH SO 17 20 Fed 001 No. 5H / Chevron HH SO 17 20 Fed 001