

District I
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Phone: (575) 748-1283 Fax: (575) 748-9720
District III
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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

Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

"As-Drilled"

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-45867	² Pool Code 98065	³ Pool Name WC-025 G-08 S263205N; UPPER WOLFCAMP
⁴ Property Code 325387	⁵ Property Name SD 14 23 FED P18	⁶ Well Number 9H
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	⁹ Elevation 3196'

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	14	26 SOUTH	32 EAST, N.M.P.M.		455'	NORTH	1380'	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

SL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	26 SOUTH	32 EAST, N.M.P.M.		15'	SOUTH	343'	WEST	LEA

¹² Dedicated Acres 640	¹³ Joint or Infill 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>SD 14 23 FED P18 NO. 9H WELL</th> <th>AS-DRILLED BOTTOM HOLE LOCATION</th> </tr> <tr> <td>X= 711,961 Y= 382,198 LAT. 32.048930 N LONG. 103.649220 W NAD 27</td> <td>X= 710,973 Y= 371,962 LAT. 32.020812 N LONG. 103.652616 W NAD 27</td> </tr> <tr> <td>X= 753,148 Y= 382,255 LAT. 32.049055 N LONG. 103.649690 W NAD83/2011</td> <td>X= 752,161 Y= 372,019 LAT. 32.020937 N LONG. 103.653084 W NAD83/2011</td> </tr> <tr> <td colspan="2">ELEVATION +3196' NAVD 88</td> </tr> </table> <table border="1"> <tr> <th>FINAL FIRST TAKE POINT</th> <th>FINAL LAST TAKE POINT</th> </tr> <tr> <td>X= 710,955 Y= 382,227 LAT. 32.049029 N LONG. 103.652465 W NAD 27</td> <td>X= 710,975 Y= 372,087 LAT. 32.021155 N LONG. 103.652607 W NAD 27</td> </tr> <tr> <td>X= 752,142 Y= 382,284 LAT. 32.049154 N LONG. 103.652936 W NAD83/2011</td> <td>X= 752,163 Y= 372,144 LAT. 32.021281 N LONG. 103.653076 W NAD83/2011</td> </tr> </table>	SD 14 23 FED P18 NO. 9H WELL	AS-DRILLED BOTTOM HOLE LOCATION	X= 711,961 Y= 382,198 LAT. 32.048930 N LONG. 103.649220 W NAD 27	X= 710,973 Y= 371,962 LAT. 32.020812 N LONG. 103.652616 W NAD 27	X= 753,148 Y= 382,255 LAT. 32.049055 N LONG. 103.649690 W NAD83/2011	X= 752,161 Y= 372,019 LAT. 32.020937 N LONG. 103.653084 W NAD83/2011	ELEVATION +3196' NAVD 88		FINAL FIRST TAKE POINT	FINAL LAST TAKE POINT	X= 710,955 Y= 382,227 LAT. 32.049029 N LONG. 103.652465 W NAD 27	X= 710,975 Y= 372,087 LAT. 32.021155 N LONG. 103.652607 W NAD 27	X= 752,142 Y= 382,284 LAT. 32.049154 N LONG. 103.652936 W NAD83/2011	X= 752,163 Y= 372,144 LAT. 32.021281 N LONG. 103.653076 W NAD83/2011	Final Kick Off Point at 11,616' MD 66.31' FNL, 281.90' FWL Final First Take Point at 12,280' MD 419.20' FNL, 374.40' FWL Final Last Take Point at 22,447' MD 139.64' FSL, 345.74' FWL CORNER COORDINATES TABLE (NAD 27) A - Y=382643.92, X=710579.74 B - Y=382677.22, X=715890.15 C - Y=371945.53, X=710630.44 D - Y=371978.70, X=715943.63 E - Y=382652.25, X=711907.34 F - Y=371953.82, X=711958.74	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: Date: 7/15/2020 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: 07/25/2017 Signature and Seal of Professional Surveyor: 04/29/2020 Certificate Number: 23606
SD 14 23 FED P18 NO. 9H WELL	AS-DRILLED BOTTOM HOLE LOCATION															
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Intent ☐ As Drilled ☒

Rec'd 8/12/2020 - NMOCD

API #
30-025-45867

Operator Name: CHEVRON USA INC	Property Name: SD 14 23 FED P18	Well Number 9H
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Kick Off Point (KOP)

UL D	Section 14	Township 26S	Range 32E	Lot	Feet 66	From N/S FNL	Feet 282	From E/W FWL	County LEA
Latitude 32.050124					Longitude 103.653230				NAD NAD 83/86

First Take Point (FTP)

UL D	Section 14	Township 26S	Range 32E	Lot	Feet 419	From N/S FNL	Feet 374	From E/W FWL	County LEA
Latitude 32.049154					Longitude 103.652936				NAD NAD 83/86

Last Take Point (LTP)

UL M	Section 23	Township 26S	Range 32E	Lot	Feet 140	From N/S FSL	Feet 346	From E/W FWL	County LEA
Latitude 32.021281					Longitude 103.653076				NAD NAD 86/86

Is this well the defining well for the Horizontal Spacing Unit? ☐ NO

Is this well an infill well? ☐ YES

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

API #
30-025-45820

Operator Name: CHEVRON USA INC	Property Name: SD 14 23 FED P18	Well Number 11H
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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)

Rec'd 8/12/2020 - NMOCD

Schlumberger

KZ

November 25, 2019

Chevron USA Incorporated
6301 Deauville Blvd
Midland, TX 79706

Re:

S14, T26S, R32E Lea, NM
N 32.049055 W -103.64969

CLIENT: Chevron USA Incorporated
WELL: SD 14 23 Fed P18 9H
FIELD: Upper Wolcamp

RIG: Nabors X30
COUNTY: Lea
API NO: 30-025-45867
JOB NO: 19MLI0077

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>
Tom Brady FE	SD 14 23 Fed P18 9H Original Hole	879.00 Ft to 22510.00 Ft	October 29, 2019 to November 11, 2019	TelePacer SlimPulse

Schlumberger**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)

Well Reference:

S14, T26S, R32E Lea, NM

N 32.049055 W -103.64969

I, Tom Brady certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of October 29, 2019 through November 11, 2019, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 879.00 feet to a depth of 22510.00 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 SD 14 23 Fed P18 9H Well (Original Hole) API No. 30-025-45867 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
Tom Brady
FE

Tom Brady

Subscribed and Sworn to before me this 05 day of November (month) 2019 (yr)

My Commission expires:

6/14/2023

Notary Public

Jean-Paul Langlois

(signature)

(County State)



Chevron SD 14 23 Fed P18 9H MWD+DMAG to 22572ft Survey Report

(Def Survey)

Report Date: November 13, 2019 - 05:50 AM
Client: Chevron
Field: NM Lea County (NAD 27)
Structure / Slot: Chevron SD 14 23 FED Pad 18 / 9H
Well: SD 14 23 Fed P18 9H
Borehole: SD 14 23 Fed P18 9H
UWI / API#: Unknown / 30-025-45867
Survey Name: Chevron SD 14 23 Fed P18 9H MWD+DMAG to 22572ft
Survey Date: November 11, 2019
Tort / AHD / DDI / ERD Ratio: 325,107 ° / 11879,019 ft / 6,857 / 0,979
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 2' 56.15259", W 103° 38' 57.19216"
Location Grid N/E Y/X: N 382198,000 ftUS, E 711961,000 ftUS
CRS Grid Convergence Angle: 0.3630 °
Grid Scale Factor: 0.99996055
Version / Patch: 2.10.782.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.730 ° (Grid North)
Vertical Section Origin: 0,000 ft, 0,000 ft
TVD Reference Datum: RKB = 32.6ft
TVD Reference Elevation: 3228,600 ft above MSL
Seabed / Ground Elevation: 3196,000 ft above MSL
Magnetic Declination: 6.618 °
Total Gravity Field Strength: 998.4327mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47663.386 nT
Magnetic Dip Angle: 59.626 °
Declination Date: November 11, 2019
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.3630 °
Total Corr Mag North→Grid North: 6.2549 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	0M
Adjusted KB	33.00	0.00	0.00	33.00	0.00	0.00	0.00	0.00	0.00	0.00	270.38M
First 3rd Party Survey	201.90	0.50	270.38	201.90	-0.01	0.00	-0.74	0.74	270.38	0.30	178.38M
	287.90	0.60	178.38	287.90	0.44	-0.44	-1.10	1.19	248.07	0.92	161.38M
	375.90	0.50	161.38	375.89	1.26	-1.27	-0.96	1.59	217.26	0.22	212.38M
	466.90	0.50	212.38	466.89	1.97	-1.98	-1.05	2.24	207.94	0.47	296.38M
	558.90	0.30	296.38	558.89	2.20	-2.21	-1.48	2.66	213.81	0.60	121.38M
	651.90	0.50	121.38	651.89	2.31	-2.31	-1.35	2.68	210.30	0.86	39.38M
Last 3rd Party Survey	761.90	0.50	39.38	761.88	2.19	-2.19	-0.64	2.28	196.22	0.60	141.06M
First SLB MWD Survey	879.00	0.18	141.06	878.98	1.94	-1.94	-0.20	1.95	185.83	0.48	268.16M
	973.00	1.56	268.16	972.97	2.09	-2.10	-1.38	2.51	213.43	1.78	278.98M
	1067.00	3.59	278.98	1066.87	1.65	-1.68	-5.57	5.82	253.23	2.21	284.59M
	1161.00	5.05	284.59	1160.60	0.12	-0.18	-12.48	12.48	269.19	1.62	282.95M
	1255.00	6.23	282.95	1254.14	-2.11	2.01	-21.46	21.55	275.35	1.27	288.81M
	1350.00	7.51	288.81	1348.46	-5.32	5.17	-32.36	32.77	279.07	1.53	297.67M
	1444.00	9.02	297.67	1441.49	-10.78	10.57	-44.70	45.93	283.30	2.10	8.88R
	1539.00	10.45	298.90	1535.12	-18.47	18.19	-58.84	61.59	287.18	1.52	27.06L
	1633.00	11.50	296.24	1627.40	-26.81	26.45	-74.71	79.25	289.50	1.24	16.76R
	1727.00	11.58	296.36	1719.50	-35.22	34.79	-91.56	97.95	290.80	0.09	122.26R
	1821.00	11.51	296.92	1811.59	-43.73	43.22	-108.38	116.68	291.74	0.14	137.97L
	1916.00	11.39	296.37	1904.70	-52.27	51.68	-125.24	135.48	292.42	0.17	7.44L
	2010.00	11.59	296.24	1996.82	-60.64	59.98	-142.02	154.17	292.89	0.21	90R
	2105.00	11.59	296.52	2089.88	-69.21	68.46	-159.12	173.22	293.28	0.06	160.2L
	2199.00	11.54	296.43	2181.97	-77.69	76.86	-175.99	192.04	293.59	0.06	167.85R
	2293.00	11.18	296.83	2274.13	-86.06	85.16	-192.54	210.53	293.86	0.39	73.27L
	2388.00	11.45	292.77	2367.29	-93.95	92.96	-209.45	229.16	293.93	0.89	60.9L
	2482.00	12.54	284.72	2459.24	-100.24	99.17	-227.93	248.57	293.51	2.12	48.36L
	2577.00	13.03	282.33	2551.89	-105.24	104.07	-248.37	269.29	292.74	0.76	168.38R
	2671.00	12.73	282.61	2643.52	-109.86	108.60	-268.82	289.93	292.00	0.33	45.09R
	2765.00	12.83	283.06	2735.19	-114.58	113.22	-289.10	310.48	291.39	0.15	157.29R
	2954.00	11.78	285.23	2919.85	-124.57	123.03	-328.16	350.46	290.55	0.61	176.15L
	3143.00	10.73	284.85	3105.21	-134.32	132.61	-363.78	387.19	290.03	0.56	177.18L
	3236.00	9.83	284.59	3196.72	-138.61	136.82	-379.83	403.72	289.81	0.97	3.77L
	3331.00	10.86	284.23	3290.17	-142.93	141.07	-396.35	420.71	289.59	1.09	94.9R
	3426.00	10.84	285.68	3383.47	-147.63	145.68	-413.63	438.53	289.40	0.29	31.12R
	3520.00	12.09	289.22	3475.60	-153.34	151.31	-431.44	457.20	289.33	1.53	170.76R
	3614.00	10.71	290.43	3567.74	-159.71	157.60	-448.92	475.78	289.34	1.49	22.8L
	3708.00	11.39	288.99	3660.00	-165.86	163.67	-465.88	493.79	289.36	0.78	175.62L
	3802.00	11.04	288.85	3752.20	-171.87	169.60	-483.17	512.07	289.34	0.37	178.34R
	3897.00	10.30	288.97	3845.56	-177.65	175.30	-499.81	529.66	289.33	0.78	102.19R
	3991.00	10.28	289.50	3938.05	-183.26	180.83	-515.67	546.45	289.32	0.10	18.96R
	4085.00	10.91	290.64	4030.44	-189.27	186.77	-531.90	563.74	289.35	0.71	9.23R
	4180.00	12.62	291.91	4123.45	-196.40	193.81	-549.94	583.09	289.41	1.82	178.61L
	4274.00	11.86	291.82	4215.31	-203.91	201.23	-568.44	603.00	289.49	0.81	63.44L
	4367.00	11.96	290.87	4306.31	-210.98	208.21	-586.31	622.19	289.55	0.24	5.79R
	4461.00	13.20	291.42	4398.05	-218.45	215.60	-605.40	642.65	289.60	1.33	175.99R
	4555.00	12.52	291.64	4489.69	-226.22	223.28	-624.87	663.56	289.66	0.73	171.6L
	4600.00	12.04	291.30	4533.66	-229.77	226.78	-633.77	673.13	289.69	1.08	59.25R
DMAG-Corrected Surveys	4743.00	12.37	293.80	4673.43	-241.50	238.38	-661.68	703.32	289.81	0.44	78.7L
	4837.00	12.45	292.07	4765.23	-249.46	246.25	-680.29	723.48	289.90	0.40	27.36L
	4931.00	12.71	291.46	4856.98	-257.14	253.84	-699.30	743.95	289.95	0.31	3.17L
	5025.00	13.12	291.36	4948.60	-264.90	261.51	-718.86	764.95	289.99	0.44	179.83L
	5120.00	12.41	291.35	5041.25	-272.63	269.16	-738.41	785.93	290.03	0.75	168.18L
	5308.00	11.09	289.91	5225.31	-286.32	282.67	-774.23	824.21	290.06	0.72	77.9R
	5402.00	11.10	290.15	5317.55	-292.59	288.87	-791.22	842.30	290.06	0.05	21.33L
	5497.00	11.25	289.85	5410.75	-298.97	295.16	-808.52	860.71	290.06	0.17	144.88L
	5588.00	10.96	288.77	5500.04	-304.84	300.96	-825.06	878.24	290.04	0.39	28.84L
	5681.00	11.27	287.90	5591.30	-310.56	306.60	-842.08	896.16	290.01	0.38	18.78L
	5775.00	11.89	286.88	5683.39	-316.28	312.23	-860.09	915.01	289.95	0.69	8.59L
	5867.00	13.50	285.84	5773.13	-322.06	317.92	-879.49	935.19	289.87	1.77	40.73R
	5961.00	14.53	289.29	5864.34	-329.05	324.81	-901.17	957.92	289.82	1.41	14.43R
	6056.00	15.14	289.89	5956.17	-337.32	332.96	-924.09	982.25	289.81	0.66	112.22R
	6150.00	14.94	291.87	6046.95	-346.11	341.65	-946.88	1006.63	289.84	0.59	0.99L
	6243.00	15.09	291.86	6136.77	-355.19	350.63	-969.24	1030.71	289.89	0.16	163.21R
	6337.00	14.04	293.17	6227.75	-364.34	359.67	-991.08	1054.32	289.95	1.17	177.89L
	6431.00	11.86	292.78	6319.36	-372.65	367.90	-1010.47	1075.36	290.01	2.32	179.23R
	6526.00	9.51	292.97	6412.70	-379.57	374.74	-1026.70	1092.95	290.05	2.47	174.04R
	6620.00	7.55	294.53	6505.66	-385.23	380.34	-1039.47	1106.86	290.10	2.10	294.35M

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	6714.00	5.53	294.35	6599.04	-389.71	384.77	-1049.21	1117.54	290.14	2.15	284.51M
	6809.00	3.27	284.51	6693.76	-392.31	387.33	-1056.00	1124.80	290.14	2.50	265.42M
	6903.00	1.74	265.42	6787.67	-392.88	387.89	-1060.02	1128.76	290.10	1.83	278.93M
	6997.00	0.94	278.93	6881.64	-392.90	387.90	-1062.21	1130.82	290.06	0.91	350.02M
	7091.00	0.61	350.02	6975.63	-393.51	388.51	-1063.06	1131.82	290.08	1.00	318.26M
	7185.00	0.40	318.26	7069.63	-394.25	389.25	-1063.36	1132.36	290.11	0.36	332M
	7279.00	0.36	332.00	7163.63	-394.76	389.75	-1063.72	1132.87	290.12	0.11	334.29M
	7373.00	0.08	334.29	7257.63	-395.08	390.07	-1063.89	1133.14	290.14	0.30	185.95M
	7467.00	0.07	185.95	7351.63	-395.08	390.07	-1063.92	1133.17	290.13	0.15	188.29M
	7561.00	0.38	188.29	7445.62	-394.72	389.71	-1063.97	1133.10	290.12	0.33	212.97M
	7655.00	0.45	212.97	7539.62	-394.10	389.09	-1064.22	1133.11	290.08	0.20	194.46M
	7750.00	0.57	194.46	7634.62	-393.33	388.32	-1064.54	1133.15	290.04	0.21	186.65M
	7843.00	0.60	186.65	7727.61	-392.40	387.39	-1064.71	1132.99	289.99	0.09	135.29M
	8032.00	0.87	135.29	7916.60	-390.40	385.39	-1063.81	1131.47	289.91	0.36	93.35M
	8126.00	0.49	93.35	8010.59	-389.86	384.86	-1062.91	1130.44	289.90	0.64	56.86M
	8220.00	0.62	56.86	8104.59	-390.11	385.11	-1062.08	1129.75	289.93	0.39	93.82M
	8315.00	0.81	93.82	8199.58	-390.34	385.35	-1060.98	1128.79	289.96	0.51	105.53M
	8409.00	0.80	105.53	8293.57	-390.12	385.13	-1059.69	1127.50	289.97	0.18	322.08M
	8503.00	0.58	322.08	8387.57	-390.31	385.33	-1059.35	1127.25	289.99	1.40	307.93M
	8596.00	0.88	307.93	8480.56	-391.13	386.14	-1060.20	1128.33	290.01	0.37	294.4M
	8690.00	0.77	294.40	8574.55	-391.84	386.84	-1061.35	1129.65	290.03	0.24	283.23M
	8784.00	0.71	283.23	8668.55	-392.24	387.24	-1062.49	1130.85	290.02	0.17	263.72M
	8879.00	0.98	263.72	8763.54	-392.29	387.28	-1063.87	1132.17	290.00	0.41	265.02M
	8974.00	1.48	265.02	8858.51	-392.10	387.09	-1065.90	1134.01	289.96	0.53	263.25M
	9068.00	1.73	263.25	8952.48	-391.84	386.81	-1068.52	1136.38	289.90	0.27	265.13M
	9162.00	1.52	265.13	9046.44	-391.58	386.54	-1071.17	1138.78	289.84	0.23	269.48M
	9256.00	1.85	269.48	9140.40	-391.48	386.42	-1073.93	1141.33	289.79	0.38	272.8M
	9351.00	2.42	272.80	9235.33	-391.58	386.51	-1077.46	1144.69	289.73	0.61	279.33M
	9446.00	2.86	279.33	9330.23	-392.08	386.99	-1081.81	1148.94	289.68	0.56	286.19M
	9540.00	3.25	286.19	9424.10	-393.23	388.11	-1086.68	1153.91	289.65	0.57	288.33M
	9635.00	2.47	288.33	9518.98	-394.64	389.51	-1091.21	1158.64	289.64	0.83	292.32M
	9729.00	1.76	292.32	9612.91	-395.84	390.69	-1094.47	1162.11	289.64	0.77	348.63M
	9823.00	1.04	348.63	9706.89	-397.24	392.08	-1095.97	1163.99	289.68	1.56	19.83M
	9917.00	0.63	19.83	9800.88	-398.56	393.40	-1095.96	1164.43	289.75	0.64	77.9M
	10012.00	1.55	77.90	9895.86	-399.31	394.16	-1094.53	1163.34	289.80	1.40	79.26M
	10106.00	0.95	79.26	9989.84	-399.71	394.57	-1092.52	1161.59	289.86	0.64	69.42M
	10200.00	0.36	69.42	10083.83	-399.96	394.82	-1091.48	1160.69	289.89	0.64	289.36M
	10293.00	0.29	289.36	10176.83	-400.14	395.00	-1091.43	1160.71	289.90	0.66	222.1M
	10388.00	0.24	222.10	10271.83	-400.07	394.93	-1091.79	1161.02	289.89	0.31	264.7M
	10482.00	0.87	264.70	10365.83	-399.86	394.72	-1092.63	1161.74	289.86	0.76	263.14M
	10576.00	1.09	263.14	10459.81	-399.70	394.55	-1094.23	1163.19	289.83	0.24	117.18M
	10670.00	0.75	117.18	10553.81	-399.31	394.16	-1094.57	1163.38	289.80	1.87	90.29M
	10763.00	0.94	90.29	10646.80	-399.02	393.88	-1093.26	1162.05	289.81	0.47	153.67M
	10858.00	0.35	153.67	10741.79	-398.76	393.61	-1092.36	1161.11	289.82	0.89	229.28M
	10952.00	0.68	229.28	10835.79	-398.14	392.99	-1092.65	1161.18	289.78	0.73	234.43M
	11046.00	1.11	234.43	10929.78	-397.25	392.10	-1093.82	1161.97	289.72	0.46	238.57M
	11140.00	1.27	238.57	11023.76	-396.18	391.03	-1095.44	1163.14	289.64	0.19	252.25M
	11233.00	1.49	252.25	11116.73	-395.29	390.12	-1097.48	1164.75	289.57	0.42	263.04M
Standard MWD Surveys	11327.00	1.56	263.04	11210.70	-394.77	389.59	-1099.91	1166.87	289.50	0.31	286.44M
	11436.00	1.40	286.44	11319.66	-394.98	389.79	-1102.66	1169.53	289.47	0.57	190.96M
	11530.00	0.85	190.96	11413.65	-394.63	389.43	-1103.89	1170.57	289.43	1.81	145.2M
	11624.00	11.41	145.20	11506.99	-386.26	381.09	-1098.70	1162.92	289.13	11.53	7.93L
Actual FTP Cross	11718.00	17.91	142.27	11597.89	-367.11	362.00	-1084.54	1143.36	288.46	6.96	17.53R
	11770.93	21.17	145.10	11647.76	-352.78	347.72	-1074.09	1128.97	287.94	6.40	14.86R
	11813.00	23.78	146.81	11686.64	-339.41	334.39	-1065.10	1116.35	287.43	6.40	23.97R
	11907.00	32.72	153.97	11769.38	-300.53	295.61	-1043.52	1084.59	285.82	10.16	35.22R
	12001.00	42.13	163.41	11844.01	-247.23	242.41	-1023.31	1051.63	283.33	11.70	56.25R
	12095.00	47.95	174.08	11910.50	-182.09	177.33	-1010.68	1026.12	279.95	10.13	17.38R
	12190.00	52.48	175.86	11971.27	-109.36	104.63	-1004.32	1009.75	275.95	4.98	46.08R
	12284.00	61.25	185.72	12022.69	-30.89	26.16	-1005.74	1006.08	271.49	12.80	17.87L
	12379.00	71.88	182.15	12060.43	55.90	-60.67	-1011.60	1013.42	266.57	11.71	12.76L
	12473.00	77.41	180.87	12085.32	146.46	-151.24	-1013.98	1025.19	261.52	6.03	11.09L
	12568.00	84.28	179.52	12100.42	240.19	-244.97	-1014.28	1043.45	256.42	7.37	0.71R
	12663.00	89.93	179.59	12105.22	335.03	-339.81	-1013.55	1068.99	251.47	5.95	5.57L
	12743.00	90.34	179.55	12105.03	415.03	-419.81	-1012.95	1096.49	247.49	0.51	11.94R
DMAG-Corrected Surveys	12777.00	90.86	179.66	12104.67	449.03	-453.81	-1012.71	1109.74	245.86	1.56	111.82R
	12871.00	89.55	182.93	12104.34	542.98	-547.77	-1014.84	1153.23	241.64	3.75	83.84R
	12965.00	89.79	185.15	12104.88	636.71	-641.53	-1021.46	1206.21	237.87	2.38	78.91L
	13060.00	90.65	180.76	12104.51	731.53	-736.37	-1026.35	1263.19	234.34	4.71	92.75L
	13154.00	90.17	170.93	12103.84	825.20	-830.01	-1019.55	1314.69	230.85	10.47	94.52L
	13248.00	89.59	163.59	12104.04	916.92	-921.63	-998.84	1359.07	227.30	7.83	84.33R
	13342.00	89.96	167.31	12104.41	1007.99	-1012.60	-975.23	1405.85	223.92	3.98	132.62R
	13436.00	87.90	169.55	12106.16	1100.14	-1104.66	-956.38	1461.14	220.88	3.24	90R
	13530.00	87.90	175.51	12109.61	1193.30	-1197.76	-944.17	1525.15	218.25	6.34	66.91R
	13624.00	91.00	182.76	12110.51	1287.22	-1291.67	-942.76	1599.13	216.12	8.39	109.98L
	13719.00	90.96	182.65	12108.89	1382.07	-1386.55	-947.24	1679.22	214.34	0.12	147.1R
	13813.00	90.79	182.76	12107.45	1475.94	-1480.44	-951.67	1759.94	212.73	0.22	169.94L
	13907.00	89.55	182.54	12107.17	1569.81	-1574.33	-956.02	1841.87	211.27	1.34	90R
	14001.00	89.55	182.85	12107.91	1663.68	-1668.23	-960.44	1924.95	209.93	0.33	83.8R
	14095.00	89.65	183.77	12108.57	1757.50	-1762.07	-965.87	2009.42	208.73	0.98	94.24L
	14190.00	89.55	182.42	12109.23	1852.33	-1856.92	-971.00	2095.47	207.61	1.42	90R
	14284.00	89.55	182.96	12109.97	1946.20	-1950.82	-975.41	2181.08	206.57	0.57	126.03L
	14378.00	88.99	182.19	12111.17	2040.07	-2044.71	-979.63	2267.27	205.60	1.01	55.74R
	14472.00	89.61	183.10	12112.32	2133.94	-2138.60	-983.97	2354.11	204.71	1.17	79.56L
	14566.00	89.68	182.72	12112.90	2227.80	-2232.48	-988.74	2441.63	203.89	0.41	77.28L
	14660.00	89.82	182.10	12113.31	2321.69	-2326.40	-992.69	2529.34	203.11	0.68	169.05L
	14755.00	89.51	182.04	12113.86	2416.61	-2421.33	-996.12	2618.23	202.36	0.33	68.75L
	14849.00	89.58	181.86	12114.61	2510.54	-2515.28	-999.32	2706.52	201.67	0.21	8.13L
	14943.00	89.65	181.85	12115.24	2604.47	-2609.22	-1002.36	2795.14	201.01	0.08	8.13R
	15037.00	89.72	181.86	12115.76	2698.41	-2703.17	-1005.41	2884.09	200.40	0.08	146.31L
	15131.00	89.48	181.70	12116.41	2792.34	-2797.13	-1008.33	2973.32	199.82	0.31	8.37R
	15226.00	89.82	181.75	12116.99	2887.28	-2892.08	-1011.19	3063.76	199.27	0.36	127.57L
	15320.00	89.72	181.62	1211							

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	15697.00	90.03	180.57	12117.88	3358.17	-3363.01	-1018.41	3513.83	196.85	0.04	34.99R
	15791.00	90.13	180.64	12117.75	3452.16	-3457.00	-1019.41	3604.17	196.43	0.13	97.76L
	15885.00	90.10	180.42	12117.56	3546.15	-3551.00	-1020.28	3694.67	196.03	0.24	88.75L
	16074.00	90.13	179.04	12117.18	3735.15	-3739.99	-1019.39	3876.43	195.25	0.73	154.29R
	16168.00	89.86	179.17	12117.19	3829.14	-3833.98	-1017.92	3966.81	194.87	0.32	120.26L
	16263.00	89.51	178.57	12117.71	3924.13	-3928.96	-1016.04	4058.21	194.50	0.73	74.65R
	16358.00	89.65	179.08	12118.41	4019.11	-4023.94	-1014.10	4149.75	194.14	0.56	124.99L
	16453.00	89.58	178.98	12119.05	4114.10	-4118.92	-1012.49	4241.54	193.81	0.13	4.76L
	16548.00	90.06	178.94	12119.35	4209.09	-4213.90	-1010.76	4333.43	193.49	0.51	78.69R
	16643.00	90.13	179.29	12119.19	4304.09	-4308.89	-1009.30	4425.52	193.18	0.38	130.6R
	16737.00	89.89	179.57	12119.17	4398.09	-4402.89	-1008.36	4516.88	192.90	0.39	78.91R
	16832.00	89.99	180.08	12119.27	4493.09	-4497.89	-1008.07	4609.47	192.63	0.55	87.83R
	16927.00	90.24	186.68	12119.08	4587.84	-4592.67	-1013.67	4703.20	192.45	6.95	100.9L
	17022.00	89.82	184.50	12119.03	4682.34	-4687.21	-1022.92	4797.53	192.31	2.34	90.94L
	17116.00	89.79	182.67	12119.35	4776.12	-4781.02	-1028.80	4890.46	192.14	1.95	83.86L
	17211.00	90.06	180.16	12119.47	4871.07	-4875.99	-1031.15	4983.82	191.94	2.66	160.71R
	17305.00	89.86	180.23	12119.54	4965.07	-4969.99	-1031.47	5075.89	191.72	0.23	88.78L
	17495.00	89.89	178.82	12119.95	5155.06	-5159.97	-1029.89	5261.75	191.29	0.74	76.52R
	17589.00	90.24	180.28	12119.85	5249.06	-5253.97	-1029.15	5353.82	191.08	1.60	105.01L
	17684.00	89.65	178.08	12119.94	5344.05	-5348.95	-1027.79	5446.80	190.88	2.40	137.29R
	17779.00	89.52	178.20	12120.63	5439.01	-5443.90	-1024.71	5539.50	190.66	0.19	75.14L
	17874.00	89.65	177.71	12121.32	5533.96	-5538.84	-1021.32	5632.21	190.45	0.53	52.13R
	17968.00	90.07	178.25	12121.55	5627.92	-5632.78	-1018.01	5724.03	190.24	0.73	161.1L
	18062.00	88.96	177.87	12122.34	5721.87	-5726.72	-1014.82	5815.94	190.05	1.25	61.05R
	18157.00	90.10	179.93	12123.12	5816.85	-5821.69	-1013.00	5909.17	189.87	2.48	68.2R
	18252.00	90.20	180.18	12122.87	5911.85	-5916.69	-1013.09	6002.80	189.72	0.28	115.47R
	18346.00	89.10	182.49	12123.45	6005.80	-6010.66	-1015.28	6095.80	189.59	2.72	14.03R
	18441.00	89.14	182.50	12124.90	6100.68	-6105.55	-1019.42	6190.07	189.48	0.04	37.17L
	18535.00	89.76	182.03	12125.81	6194.59	-6199.48	-1023.13	6283.33	189.37	0.83	92.59L
	18630.00	89.69	180.48	12126.26	6289.55	-6294.45	-1025.21	6377.39	189.25	1.63	66.71L
	18725.00	90.37	178.90	12126.21	6384.54	-6389.44	-1024.70	6471.09	189.11	1.81	79.39R
	18820.00	90.92	181.84	12125.14	6479.52	-6484.43	-1025.31	6564.99	188.99	3.15	90R
	18914.00	90.92	182.33	12123.63	6573.43	-6578.35	-1028.73	6658.30	188.89	0.52	104.36L
	19009.00	90.20	179.52	12122.71	6668.39	-6673.32	-1030.26	6752.38	188.78	3.05	94.06L
	19104.00	90.06	177.55	12122.49	6763.37	-6768.29	-1027.84	6845.89	188.63	2.08	104.3R
	19199.00	89.93	178.06	12122.50	6858.31	-6863.22	-1024.20	6939.22	188.49	0.55	146.55L
	19293.00	89.37	177.69	12123.07	6952.26	-6957.15	-1020.71	7031.63	188.35	0.71	8.13R
	19388.00	89.72	177.74	12123.83	7047.20	-7052.07	-1016.92	7125.02	188.21	0.37	129.56R
	19483.00	89.34	178.20	12124.61	7142.15	-7147.01	-1013.56	7218.52	188.07	0.63	124.57R
	19578.00	89.03	178.65	12125.96	7237.12	-7241.96	-1010.95	7312.18	187.95	0.58	50.87R
	19672.00	89.86	179.67	12126.87	7331.11	-7335.95	-1009.57	7405.09	187.84	1.40	96.44R
	19767.00	89.79	180.29	12127.16	7426.11	-7430.95	-1009.54	7499.21	187.74	0.66	53.13L
	19862.00	90.00	180.01	12127.33	7521.10	-7525.94	-1009.79	7593.39	187.64	0.37	116.41L
	19957.00	89.28	178.56	12127.93	7616.09	-7620.93	-1008.60	7687.38	187.54	1.70	22.48R
	20051.00	89.86	178.80	12128.63	7710.08	-7714.90	-1006.43	7780.27	187.43	0.67	62.76R
	20146.00	90.21	179.48	12128.58	7805.07	-7809.89	-1005.01	7874.29	187.33	0.81	90R
	20241.00	90.21	179.56	12128.23	7900.07	-7904.89	-1004.21	7968.42	187.24	0.08	94.72L
	20335.00	90.11	178.35	12127.97	7994.06	-7998.87	-1002.50	8061.45	187.14	1.29	56.82L
	20430.00	90.28	178.09	12127.64	8089.02	-8093.82	-999.55	8155.31	187.04	0.33	98.97R
	20525.00	90.07	179.42	12127.35	8184.01	-8188.80	-997.48	8249.33	186.95	1.42	86.78R
	20619.00	90.17	181.20	12127.16	8278.00	-8282.79	-997.99	8342.70	186.87	1.90	97.64R
	20714.00	89.93	182.99	12127.07	8372.91	-8377.73	-1001.47	8437.37	186.82	1.90	82.25L
	20808.00	90.52	178.65	12126.70	8466.87	-8471.69	-1002.81	8530.84	186.75	4.66	107.16L
	20903.00	89.93	176.74	12126.33	8561.81	-8566.61	-998.99	8624.66	186.65	2.10	51.07R
	20998.00	90.14	177.00	12126.27	8656.69	-8661.47	-993.80	8718.30	186.55	0.35	93.81R
	21092.00	90.04	178.50	12126.12	8750.63	-8755.39	-990.11	8811.20	186.45	1.60	96.97L
	21187.00	89.93	177.60	12126.15	8845.59	-8850.34	-986.88	8905.19	186.36	0.95	87.56R
	21283.00	90.04	180.18	12126.17	8941.57	-8946.31	-985.02	9000.38	186.28	2.69	115.77L
	21377.00	89.76	179.60	12126.34	9035.57	-9040.31	-984.84	9093.80	186.22	0.69	66.11R
	21566.00	90.11	180.39	12126.55	9224.57	-9229.31	-984.82	9281.70	186.09	0.46	117.34L
	21661.00	89.04	178.32	12127.26	9319.55	-9324.29	-983.75	9376.05	186.02	2.45	66.23R
	21755.00	89.93	180.34	12128.10	9413.54	-9418.28	-982.65	9469.40	185.96	2.35	77.83L
	21850.00	90.04	179.83	12128.13	9508.54	-9513.28	-982.80	9563.91	185.90	0.55	93.63R
	21944.00	90.00	180.46	12128.09	9602.54	-9607.28	-983.03	9657.44	185.84	0.67	100.95L
	22038.00	89.94	180.15	12128.14	9696.53	-9701.27	-983.53	9751.00	185.79	0.34	4.4L
	22133.00	90.07	180.14	12128.14	9791.53	-9796.27	-983.77	9845.55	185.73	0.14	111.25L
	22227.00	90.00	179.96	12128.08	9885.53	-9890.27	-983.86	9939.09	185.68	0.21	53.75R
	22322.00	90.11	180.11	12127.99	9980.53	-9985.27	-983.91	10033.63	185.63	0.20	73.61R
	22416.00	90.21	180.45	12127.72	10074.52	-10079.27	-984.37	10127.23	185.58	0.38	82.48R
Actual LTP Cross	22487.40	90.26	180.85	12127.43	10145.91	-10150.67	-985.19	10198.36	185.54	0.57	82.48R
Last SLB MWD DMAG Survey	22510.00	90.28	180.98	12127.32	10168.51	-10173.26	-985.55	10220.89	185.53	0.57	HS
Projection to Bit	22572.00	90.28	180.98	12127.02	10230.49	-10235.25	-986.61	10282.70	185.51	0.00	

Survey Type:

Def Survey

Survey Error Model:
Survey Program:

ISCWSA Rev 3 *** 3-D 97.071% Confidence 3,0000 sigma

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	32.600	1/98.425	30.000	30.000	A001Mb_MWD-Depth Only	SD 14 23 Fed P18 9H / Chevron SD 14 23 Fed P18 9H MWD+DMAG to 22572ft
	1	32.600	32.600	Act Stns	30.000	30.000	A001Mb_MWD-Depth Only	SD 14 23 Fed P18 9H / Chevron SD 14 23 Fed P18 9H MWD+DMAG to 22572ft
	1	32.600	761.900	Act Stns	30.000	30.000	A001Mb_MWD	SD 14 23 Fed P18 9H / Chevron SD 14 23 Fed P18 9H MWD+DMAG to 22572ft
	1	761.900	4743.000	Act Stns	30.000	30.000	B001Mb_MWD+HRGM	SD 14 23 Fed P18 9H / Chevron SD 14 23 Fed P18 9H MWD+DMAG to 22572ft

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
		1	4743.000	11327.000	Act Stns	30.000	30.000	B002Mb_MWD+HRGM+AX		SD 14 23 Fed P18 9H / Chevron SD 14 23 Fed P18 9H MWD+DMAG to 22572ft	
		1	11327.000	12777.000	Act Stns	30.000	30.000	B001Mb_MWD+HRGM		SD 14 23 Fed P18 9H / Chevron SD 14 23 Fed P18 9H MWD+DMAG to 22572ft	
		1	12777.000	22572.000	Act Stns	30.000	30.000	B002Mb_MWD+HRGM+AX		SD 14 23 Fed P18 9H / Chevron SD 14 23 Fed P18 9H MWD+DMAG to 22572ft	