

District I
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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
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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

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 30-025-45820	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 11H
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	⁹ Elevation 3197'

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	1430'	WEST	LEA

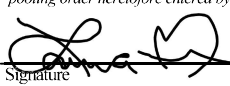
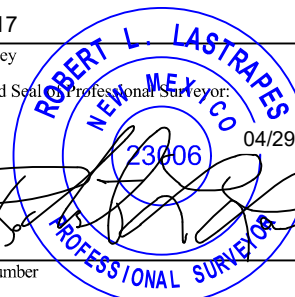
¹¹ Bottom Hole Location If Different From Surface

SL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	23	26 SOUTH	32 EAST, N.M.P.M.		26'	SOUTH	1673'	WEST	LEA

¹² Dedicated Acres 640	¹³ Joint or Infill Defining well	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><tr><td>SD 14 23 FED P18 NO. 11H WELL</td><td>AS-DRILLED BOTTOM HOLE LOCATION</td></tr><tr><td>X= 712,011 Y= 382,198 LAT. 32.048930 N LONG. 103.649059 W NAD 27</td><td>X= 712,303 Y= 371,982 LAT. 32.020842 N LONG. 103.648326 W NAD 27</td></tr><tr><td>X= 753,198 Y= 382,255 LAT. 32.049055 N LONG. 103.649529 W NAD83/2011</td><td>X= 753,490 Y= 372,039 LAT. 32.020967 N LONG. 103.648795 W NAD83/2011</td></tr><tr><td colspan="2">ELEVATION +3197' NAVD 88</td></tr><tr><td>FINAL FIRST TAKE POINT</td><td>FINAL LAST TAKE POINT</td></tr><tr><td>X= 712,230 Y= 382,235 LAT. 32.049028 N LONG. 103.648350 W NAD 27</td><td>X= 712,298 Y= 372,185 LAT. 32.021400 N LONG. 103.648336 W NAD 27</td></tr><tr><td>X= 753,417 Y= 382,292 LAT. 32.049153 N LONG. 103.648820 W NAD83/2011</td><td>X= 753,486 Y= 372,242 LAT. 32.021525 N LONG. 103.648805 W NAD83/2011</td></tr></table> <table><tr><td>FINAL KICK OFF POINT</td></tr><tr><td>X= 712,221 Y= 382,592 LAT. 32.050009 N LONG. 103.648372 W NAD 27</td></tr><tr><td>X= 753,408 Y= 382,649 LAT. 32.050134 N LONG. 103.648843 W NAD83/2011</td></tr></table> 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=382660.57, X=713234.95 G - Y=371962.12, X=713287.04 H - Y=371953.82, X=711958.74	SD 14 23 FED P18 NO. 11H WELL	AS-DRILLED BOTTOM HOLE LOCATION	X= 712,011 Y= 382,198 LAT. 32.048930 N LONG. 103.649059 W NAD 27	X= 712,303 Y= 371,982 LAT. 32.020842 N LONG. 103.648326 W NAD 27	X= 753,198 Y= 382,255 LAT. 32.049055 N LONG. 103.649529 W NAD83/2011	X= 753,490 Y= 372,039 LAT. 32.020967 N LONG. 103.648795 W NAD83/2011	ELEVATION +3197' NAVD 88		FINAL FIRST TAKE POINT	FINAL LAST TAKE POINT	X= 712,230 Y= 382,235 LAT. 32.049028 N LONG. 103.648350 W NAD 27	X= 712,298 Y= 372,185 LAT. 32.021400 N LONG. 103.648336 W NAD 27	X= 753,417 Y= 382,292 LAT. 32.049153 N LONG. 103.648820 W NAD83/2011	X= 753,486 Y= 372,242 LAT. 32.021525 N LONG. 103.648805 W NAD83/2011	FINAL KICK OFF POINT	X= 712,221 Y= 382,592 LAT. 32.050009 N LONG. 103.648372 W NAD 27	X= 753,408 Y= 382,649 LAT. 32.050134 N LONG. 103.648843 W NAD83/2011	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: 7/22/2020 Laura Becerra Printed Name LBecerra@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. 07/25/2017 Date of Survey Signature and Seal of Professional Surveyor:  04/29/2020 Certificate Number
SD 14 23 FED P18 NO. 11H WELL	AS-DRILLED BOTTOM HOLE LOCATION																	
X= 712,011 Y= 382,198 LAT. 32.048930 N LONG. 103.649059 W NAD 27	X= 712,303 Y= 371,982 LAT. 32.020842 N LONG. 103.648326 W NAD 27																	
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Intent ☐ As Drilled ☒

API # 30-025-45820			
Operator Name: CHEVRON USA INC		Property Name: SD 14 23 FED P18	Well Number 11H

Kick Off Point (KOP)

UL C	Section 14	Township 26S	Range 32E	Lot	Feet 63	From N/S FNL	Feet 1,641	From E/W FWL	County LEA
Latitude 32.050134					Longitude 103.648843			NAD NAD 83/86	

First Take Point (FTP)

UL C	Section 14	Township 26S	Range 32E	Lot	Feet 420	From N/S FNL	Feet 1,650	From E/W FWL	County LEA
Latitude 32.049153					Longitude 103.648820			NAD NAD 83/86	

Last Take Point (LTP)

UL N	Section 23	Township 26S	Range 32E	Lot	Feet 229	From N/S FSL	Feet 1,670	From E/W FWL	County LEA
Latitude 32.021525					Longitude 103.648805			NAD NAD 86/86	

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)

Rec'd 8/18/2020 - NMOCD

Schlumberger

November 6, 2019

Chevron USA INC.
6301 Deauville Blvd
Midland, TX 79706-0000

Re:

S14, T26S, R32E Lea, NM
N 32.049055 W -103.649529

CLIENT: Chevron USA INC.
WELL: SD 14 23 Fed P18 11H
FIELD: Upper Wolfcamp

RIG: Nabors X30
COUNTY: Lea
API NO: 30-025-45820
JOB NO: 19MLI0217

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>
Thomas Brady FS	SD 14 23 Fed P18 11H Original Hole	873.00 Ft to 22462.00 Ft	August 23, 2019 to October 11, 2019	TelePacer SlimPulse

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

KZ

Well Reference:

S14, T26S, R32E Lea, NM

N 32.049055 W -103.649529

I, Thomas Brady certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of August 23, 2019 through October 11, 2019, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 873.00 feet to a depth of 22462.00 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 SD 14 23 Fed P18 11H Well (Original Hole) API No. 30-025-45820 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
Thomas Brady
FS



Subscribed and Sworn to before me this 6 day of November (month) 2019 (yr)

My Commission expires:

6/14/2023

Notary Public

Comanche, Oklahoma

(County State)

(signature)





Chevron SD 14 23 Fed P18 11H MWD to 22505ft Survey Report

(Def Survey)

Report Date: October 11, 2019 - 05:28 PM
Client: Chevron
Field: NM Lea County (NAD 27)
Structure / Slot: Chevron SD 14 23 FED Pad 18 / 11H
Well: SD 14 23 Fed P18 11H
Borehole: SD 14 23 Fed P18 11H
UWI / API#: Unknown / 30-025-45820
Survey Name: Chevron SD 14 23 Fed P18 11H MWD to 22505ft
Survey Date: October 11, 2019
Tort / AHD / DDI / ERD Ratio: 301.140 ° / 11226.550 ft / 6.796 / 0.922
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 2' 56.14945", W 103° 38' 56.61124"
Location Grid N/E Y/X: N 382198,000 ftUS, E 712011,000 ftUS
CRS Grid Convergence Angle: 0.3631 °
Grid Scale Factor: 0.99996057
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: 3229,600 ft above MSL
Seabed / Ground Elevation: 3197,000 ft above MSL
Magnetic Declination: 6.627 °
Total Gravity Field Strength: 998.4326mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47672.546 nT
Magnetic Dip Angle: 59.630 °
Declination Date: October 11, 2019
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.3631 °
Total Corr Mag North→Grid North: 6.2635 °
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	58.39M
First 3rd Party Survey	201.90	1.10	58.39	201.89	-0.84	0.85	1.38	1.62	58.39	0.65	95.39M
	287.90	1.20	95.39	287.87	-1.18	1.20	2.98	3.21	68.10	0.86	230.39M
	375.90	0.20	230.39	375.87	-1.00	1.01	3.78	3.91	74.99	1.53	224.39M
	466.90	0.20	224.39	466.87	-0.78	0.80	3.55	3.63	77.31	0.02	232.39M
	558.90	0.20	232.39	558.87	-0.57	0.59	3.31	3.36	79.95	0.03	121.39M
	651.90	0.40	121.39	651.87	-0.30	0.32	3.45	3.47	84.75	0.55	247.39M
Last 3rd Party Survey	768.90	0.70	247.39	768.86	0.18	-0.17	3.14	3.15	93.09	0.85	296.5M
First SLB MWD Survey	873.00	0.48	296.50	872.96	0.23	-0.22	2.17	2.18	95.79	0.51	287.43M
	968.00	0.55	287.43	967.95	-0.09	0.09	1.38	1.38	86.07	0.11	304.67M
	1062.00	0.62	304.67	1061.95	-0.52	0.52	0.53	0.74	45.43	0.20	17.91M
	1156.00	0.59	17.91	1155.95	-1.27	1.27	0.26	1.29	11.46	0.77	29.64M
	1250.00	1.94	29.64	1249.92	-3.11	3.11	1.19	3.33	20.97	1.45	33.38M
	1345.00	3.50	33.38	1344.81	-6.91	6.93	3.58	7.80	27.34	1.65	31.67M
	1439.00	5.25	31.67	1438.53	-12.95	12.99	7.42	14.96	29.74	1.87	29.04M
	1534.00	6.57	29.04	1533.03	-21.38	21.44	12.34	24.74	29.93	1.42	27.15M
	1628.00	8.07	27.15	1626.26	-31.93	32.01	17.96	36.71	29.30	1.62	4.86R
	1722.00	10.09	28.13	1719.07	-45.03	45.15	24.86	51.54	28.84	2.16	31.68R
	1911.00	10.87	30.65	1904.92	-74.88	75.08	41.75	85.90	29.08	0.48	159.01R
	2100.00	10.63	31.15	2090.60	-105.05	105.33	59.85	121.14	29.61	0.14	169.31R
	2194.00	10.41	31.38	2183.02	-119.67	120.00	68.76	138.30	29.81	0.24	152.46R
	2288.00	10.26	31.82	2275.50	-134.00	134.36	77.59	155.16	30.01	0.18	137.54R
	2383.00	10.01	33.15	2369.02	-148.05	148.46	86.57	171.86	30.25	0.36	121.5L
	2477.00	9.81	31.18	2461.61	-161.70	162.15	95.18	188.03	30.41	0.42	84.21L
	2572.00	9.94	26.01	2555.21	-175.96	176.45	102.97	204.29	30.27	0.94	132.18L
	2666.00	9.78	24.96	2647.82	-190.46	190.98	109.89	220.34	29.92	0.26	169.36L
	2760.00	9.62	24.78	2740.48	-204.79	205.35	116.56	236.12	29.58	0.17	175.76R
	2949.00	8.72	25.22	2927.06	-232.03	232.65	129.28	266.15	29.06	0.48	156.36R
	3043.00	8.30	26.50	3020.02	-244.52	245.16	135.34	280.04	28.90	0.49	17.98R
	3138.00	8.96	27.87	3113.95	-257.17	257.84	141.86	294.29	28.82	0.73	62.87R
	3231.00	9.18	30.45	3205.79	-269.93	270.64	149.01	308.95	28.84	0.50	129.18R
	3326.00	8.85	33.16	3299.61	-282.55	283.29	156.84	323.81	28.97	0.57	1.74L
	3421.00	9.68	33.01	3393.37	-295.32	296.10	165.19	339.07	29.16	0.87	161R
	3515.00	9.55	33.28	3486.05	-308.43	309.25	173.78	354.73	29.33	0.15	112.99R
	3609.00	9.45	34.76	3578.76	-321.25	322.11	182.45	370.19	29.53	0.28	174.84R
	3703.00	8.89	35.10	3671.56	-333.49	334.39	191.03	385.11	29.74	0.60	172.37R
	3797.00	8.14	35.81	3764.52	-344.79	345.73	199.10	398.96	29.94	0.81	164.69R
	3892.00	7.56	37.02	3858.63	-355.20	356.17	206.80	411.86	30.14	0.63	40.15M
	3986.00	7.33	40.15	3951.84	-364.68	365.70	214.39	423.90	30.38	0.50	43.58M
	4080.00	7.04	43.58	4045.10	-373.40	374.45	222.23	435.43	30.69	0.55	41.15M
	4175.00	5.81	41.15	4139.51	-381.20	382.29	229.40	445.84	30.97	1.33	45.42M
	4269.00	5.33	45.42	4233.06	-387.82	388.94	235.64	454.75	31.21	0.67	50.24M
	4362.00	4.32	50.24	4325.73	-393.07	394.21	241.41	462.26	31.48	1.17	43.22M
	4456.00	2.98	43.22	4419.54	-397.09	398.25	245.81	468.00	31.68	1.50	46.12M
	4643.00	2.40	46.12	4606.33	-403.32	404.51	251.96	476.56	31.92	0.32	326.83M
	4832.00	2.31	326.83	4795.22	-409.25	410.44	252.73	482.01	31.62	1.59	265.44M
	4926.00	1.01	265.44	4889.18	-410.78	411.96	250.87	482.34	31.34	2.16	232.87M
	5020.00	1.07	232.87	4983.17	-410.19	411.37	249.34	481.03	31.22	0.62	239.97M
	5115.00	1.17	239.97	5078.15	-409.17	410.35	247.79	479.36	31.13	0.18	234.04M
	5209.00	0.98	234.04	5172.13	-408.23	409.39	246.31	477.78	31.03	0.23	107.43M
	5303.00	0.64	107.43	5266.13	-407.60	408.77	246.16	477.16	31.06	1.55	103.3M
	5397.00	1.21	103.30	5360.11	-407.21	408.38	247.63	477.59	31.23	0.61	102.62M
	5491.00	1.11	102.62	5454.09	-406.77	407.95	249.48	478.19	31.45	0.11	101.35M
	5583.00	1.10	101.35	5546.08	-406.40	407.58	251.22	478.79	31.65	0.03	98.04M
	5676.00	0.87	98.04	5639.06	-406.11	407.31	252.79	479.38	31.83	0.25	87.78M
	5770.00	0.87	87.78	5733.05	-406.03	407.24	254.21	480.07	31.97	0.17	91.91M
	5862.00	0.95	91.91	5825.04	-406.03	407.24	255.67	480.84	32.12	0.11	81.75M
	5956.00	0.92	81.75	5919.03	-406.10	407.32	257.20	481.73	32.27	0.18	85.55M
	6051.00	1.01	85.55	6014.02	-406.27	407.50	258.79	482.73	32.42	0.12	145.33M
	6145.00	0.52	145.33	6108.01	-405.98	407.21	259.86	483.06	32.54	0.93	166.13M
	6238.00	0.89	166.13	6201.00	-404.93	406.16	260.27	482.40	32.65	0.48	171.75M
	6332.00	1.08	171.75	6294.99	-403.34	404.58	260.57	481.23	32.78	0.23	183.13M
	6426.00	0.88	183.13	6388.97	-401.74	402.98	260.66	479.93	32.90	0.30	185.8M
	6521.00	1.01	185.80	6483.96	-400.18	401.42	260.53	478.55	32.99	0.14	260.59M
	6615.00	0.86	260.59	6577.95	-399.25	400.48	259.76	477.34	32.97	1.21	266.86M
	6709.00	1.14	266.86	6671.94	-399.09	400.31	258.13	476.32	32.81	0.32	264.95M
	6804.00	1.31	264.95	6766.91	-398.95	400.16	256.10	475.10	32.62	0.18	17.34M

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	6898.00	0.56	17.34	6860.91	-399.30	400.51	255.17	474.88	32.50	1.71	39.17M
	6992.00	1.08	39.17	6954.90	-400.42	401.63	255.86	476.21	32.50	0.64	40.39M
	7086.00	0.73	40.39	7048.88	-401.56	402.77	256.81	477.68	32.52	0.37	38.75M
	7180.00	0.64	38.75	7142.88	-402.42	403.64	257.53	478.80	32.54	0.10	30.05M
	7368.00	0.23	30.05	7330.87	-403.56	404.79	258.37	480.22	32.55	0.22	93.57M
	7462.00	0.24	93.57	7424.87	-403.71	404.94	258.66	480.50	32.57	0.26	354.57M
	7556.00	0.13	354.57	7518.87	-403.81	405.03	258.85	480.68	32.58	0.31	234.16M
	7650.00	0.08	234.16	7612.87	-403.87	405.10	258.79	480.70	32.57	0.20	95.62M
	7745.00	0.11	95.62	7707.87	-403.83	405.05	258.82	480.68	32.58	0.19	219.04M
	7838.00	0.33	219.04	7800.87	-403.61	404.83	258.74	480.46	32.58	0.43	227.13M
	7932.00	0.64	227.13	7894.87	-403.05	404.27	258.19	479.68	32.56	0.34	209.27M
	8027.00	0.93	209.27	7989.86	-402.02	403.23	257.42	478.40	32.55	0.40	219.37M
	8120.00	1.18	219.37	8082.84	-400.62	401.83	256.45	476.69	32.55	0.33	54.75M
	8215.00	0.23	54.75	8177.84	-399.98	401.19	255.98	475.90	32.54	1.48	51.34M
	8310.00	0.85	51.34	8272.83	-400.52	401.74	256.69	476.74	32.58	0.65	70.62M
	8404.00	0.45	70.62	8366.83	-401.08	402.30	257.58	477.69	32.63	0.48	123.28M
	8497.00	0.34	123.28	8459.82	-401.05	402.27	258.16	477.98	32.69	0.39	144.23M
	8591.00	0.41	144.23	8553.82	-400.62	401.84	258.59	477.85	32.76	0.16	180.3M
	8685.00	0.63	180.30	8647.82	-399.83	401.05	258.78	477.29	32.83	0.41	186.33M
	8779.00	1.13	186.33	8741.81	-398.39	399.61	258.67	476.03	32.92	0.54	187.62M
	8874.00	0.86	187.62	8836.79	-396.75	397.98	258.48	474.55	33.00	0.29	178.28M
	8969.00	0.64	178.28	8931.78	-395.52	396.74	258.40	473.47	33.08	0.26	204.18M
	9063.00	0.62	204.18	9025.78	-394.53	395.75	258.21	472.53	33.12	0.30	194.41M
	9157.00	0.91	194.41	9119.77	-393.34	394.56	257.81	471.32	33.16	0.34	211.4M
	9251.00	1.01	211.40	9213.76	-391.92	393.13	257.19	469.79	33.19	0.32	240.7M
	9346.00	1.15	240.70	9308.74	-390.74	391.95	255.93	468.11	33.14	0.59	255.71M
	9441.00	1.35	255.71	9403.72	-390.01	391.21	254.01	466.44	33.00	0.40	260.06M
	9535.00	1.51	260.06	9497.69	-389.53	390.72	251.72	464.79	32.79	0.21	252.52M
	9724.00	1.18	252.52	9686.64	-388.54	389.71	247.41	461.61	32.41	0.20	351.99M
	9818.00	0.52	351.99	9780.63	-388.67	389.84	246.43	461.19	32.30	1.45	354.87M
	10006.00	0.52	354.87	9968.62	-390.37	391.53	246.23	462.52	32.17	0.01	323.61M
	10101.00	0.68	323.61	10063.62	-391.25	392.42	245.86	463.07	32.07	0.38	329.22M
	10195.00	0.60	329.22	10157.61	-392.13	393.29	245.28	463.50	31.95	0.11	318.1M
	10288.00	0.57	318.10	10250.61	-392.89	394.05	244.72	463.86	31.84	0.13	321.84M
	10383.00	0.76	321.84	10345.60	-393.74	394.90	244.01	464.21	31.71	0.21	352.11M
	10477.00	0.50	352.11	10439.59	-394.64	395.79	243.57	464.74	31.61	0.44	2.51M
	10570.00	0.71	2.51	10532.59	-395.62	396.77	243.54	465.55	31.54	0.25	340.04M
	10664.00	0.75	340.04	10626.58	-396.78	397.93	243.36	466.45	31.45	0.31	261.6M
	10758.00	0.76	261.60	10720.58	-397.27	398.42	242.53	466.43	31.33	1.02	265.25M
	10852.00	1.80	265.25	10814.55	-397.07	398.21	240.44	465.17	31.12	1.11	284.25M
	10947.00	2.34	284.25	10909.49	-397.44	398.56	237.07	463.74	30.75	0.91	269.79M
	11041.00	2.80	269.79	11003.40	-397.92	399.02	232.92	462.03	30.27	0.84	259.76M
	11134.00	2.56	259.76	11096.29	-397.56	398.65	228.60	459.54	29.83	0.57	263.4M
	11228.00	2.13	263.40	11190.22	-397.01	398.07	224.80	457.16	29.45	0.48	258.23M
	11338.00	2.05	258.23	11300.14	-396.39	397.44	220.85	454.67	29.06	0.19	263.01M
	11433.00	2.72	263.01	11395.06	-395.79	396.81	216.94	452.25	28.67	0.74	273.86M
	11527.00	2.83	273.86	11488.95	-395.69	396.70	212.42	449.99	28.17	0.57	186.98M
	11621.00	9.48	186.98	11582.48	-388.16	389.15	209.15	441.80	28.26	10.36	12.76L
	11716.00	17.64	180.96	11674.75	-365.97	366.96	207.96	421.79	29.54	8.71	0.37R
Heel HL Cross	11748.82	20.44	181.01	11705.78	-355.27	356.25	207.77	412.42	30.25	8.53	0.32R
	11812.00	25.83	181.08	11763.85	-330.46	331.44	207.32	390.94	32.03	8.53	6.54L
	11907.00	34.65	179.31	11845.85	-282.67	283.65	207.25	351.30	36.15	9.33	5.36L
	12002.00	45.80	177.86	11918.27	-221.44	222.42	208.86	305.11	43.20	11.78	8.98L
	12097.00	52.06	176.61	11980.65	-149.92	150.92	212.35	260.52	54.60	6.66	12.19L
	12192.00	58.95	174.88	12034.42	-71.87	72.90	218.20	230.06	71.53	7.41	5.07L
	12287.00	71.33	173.73	12074.29	13.77	-12.70	226.78	227.14	93.21	13.08	25.74R
	12382.00	81.64	178.70	12096.47	105.81	-104.72	232.78	255.25	114.22	11.98	33.4R
	12477.00	83.45	179.90	12108.80	200.00	-198.90	233.93	307.06	130.37	2.28	43.6L
	12572.00	85.97	177.50	12117.56	294.57	-293.46	236.08	376.63	141.18	3.66	18.87R
	12666.00	87.90	178.16	12122.58	388.38	-387.25	239.63	455.40	148.25	2.17	9.64L
	12760.00	90.55	177.71	12123.85	482.31	-481.17	243.02	539.06	153.20	2.86	148.69L
	12821.00	87.97	176.14	12124.64	543.23	-542.07	246.29	595.40	155.57	4.95	93.68R
	12970.00	87.70	180.43	12130.27	692.04	-690.86	250.75	734.96	160.05	2.88	39.8L
	13064.00	89.97	178.54	12132.18	786.01	-784.83	251.59	824.17	162.23	3.14	87.66R
	13158.00	90.07	180.99	12132.15	880.00	-878.82	251.98	914.23	164.00	2.61	86.69R
	13252.00	90.14	182.20	12131.98	973.95	-972.78	249.36	1004.24	165.62	1.29	90R
	13346.00	90.14	182.69	12131.75	1067.84	-1066.70	245.35	1094.55	167.05	0.52	103.42L
	13440.00	89.93	181.81	12131.69	1161.75	-1160.62	241.66	1185.52	168.24	0.96	128.99L
	13534.00	89.76	181.60	12131.95	1255.69	-1254.58	238.86	1277.12	169.22	0.29	87.32L
	13629.00	89.79	180.96	12132.32	1350.66	-1349.56	236.74	1370.16	170.05	0.67	93.3R
	13723.00	89.76	181.48	12132.69	1444.63	-1443.54	234.74	1462.50	170.76	0.55	126.87L
	13817.00	89.73	181.44	12133.11	1538.58	-1537.50	232.34	1554.96	171.41	0.05	83.89R
	13911.00	89.76	181.72	12133.52	1632.53	-1631.47	229.75	1647.57	171.98	0.30	78.92R
	14005.00	90.24	184.17	12133.52	1726.38	-1725.34	224.92	1739.93	172.57	2.66	100.05L
	14100.00	90.10	183.38	12133.24	1821.14	-1820.13	218.67	1833.22	173.15	0.84	111.56L
	14194.00	88.08	178.26	12134.74	1915.07	-1914.07	217.32	1926.37	173.52	5.85	139.07R
First DMAG Correction	14288.00	82.99	182.71	12142.06	2008.73	-2007.73	216.54	2019.37	173.84	7.18	108.32R
	14382.00	81.64	186.89	12154.63	2101.49	-2100.53	208.76	2110.88	174.32	4.63	12.24L
	14476.00	85.83	185.98	12164.89	2194.27	-2193.36	198.29	2202.31	174.83	4.56	31.9L
	14579.00	89.24	183.86	12169.32	2296.73	-2295.87	189.47	2303.67	175.28	3.90	76.89L
	14664.00	89.72	181.80	12170.09	2381.60	-2380.75	185.27	2387.95	175.55	2.49	52.21L
	14759.00	91.34	179.71	12169.21	2476.57	-2475.73	184.02	2482.56	175.75	2.78	81.59L
	14853.00	91.72	177.13	12166.70	2570.51	-2569.66	186.61	2576.42	175.85	2.77	75.94L
	15041.00	91.92	176.33	12160.73	2758.15	-2757.25	197.33	2764.31	175.91	0.44	125.55R
	15135.00	91.82	176.47	12157.66	2851.94	-2851.02	203.23	2858.25	175.92	0.18	86.44R
	15230.00	91.92	178.09	12154.56	2946.80	-2945.86	207.73	2953.17	175.97	1.71	98.36R
	15324.00	91.82	178.77	12151.49	3040.73	-3039.77	210.31	3047.04	176.04	0.73	30.24R
	15418.00	92.06	178.91	12148.31	3134.66	-3133.70	212.21	3140.88	176.13	0.30	119.41L
	15512.00	90.31	175.81	12146.37	3228.55	-3227.56	216.54	3234.82	176.16	3.79	100.65R
	15607.00	89.96	177.67	12146.14	3323.41	-3322.41	221.94	3329.81	176.18	1.99	91.07R
	15701.00	89.92	179.82	12146.24	3417.39	-3416.38	224.00	3423.71	176.25	2.29	63.43R
	15795.00	90.34	180.66	12146.03	3511.39	-3510.38	223.60	3517.49	176.36	1.00	140.36R
	15889.00	89.99	180.95	12145.76	3605.37	-3604.37	222.28	3611.21	176.47	0.48	24.44L
	15984.00	90.54	180.70	12145.32	3700.35	-3699					

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	16172.00	89.75	181.14	12145.77	3888.32	-3887.33	218.37	3893.46	176.78	0.57	68.75L
	16267.00	89.89	180.78	12146.07	3983.30	-3982.32	216.78	3988.22	176.88	0.41	116L
	16362.00	89.69	180.37	12146.42	4078.29	-4077.31	215.83	4083.02	176.97	0.48	32.83L
	16457.00	90.00	180.17	12146.67	4173.28	-4172.31	215.38	4177.87	177.04	0.39	103.24L
	16552.00	89.72	178.98	12146.90	4268.28	-4267.31	216.09	4272.77	177.10	1.29	82.26L
	16647.00	89.89	177.73	12147.23	4363.25	-4362.27	218.81	4367.75	177.13	1.33	95.57R
	16741.00	89.85	178.14	12147.44	4457.20	-4456.20	222.20	4461.74	177.15	0.44	84.47R
	16836.00	90.06	180.31	12147.52	4552.19	-4551.19	223.48	4556.67	177.19	2.29	55.77R
	16931.00	90.72	181.28	12146.87	4647.17	-4646.18	222.17	4651.49	177.26	1.23	66.5L
	17026.00	90.82	181.05	12145.59	4742.13	-4741.15	220.24	4746.26	177.34	0.26	118.34L
	17120.00	90.41	180.29	12144.58	4836.11	-4835.14	219.14	4840.10	177.41	0.92	178.36L
	17215.00	90.06	180.28	12144.19	4931.11	-4930.13	218.66	4934.98	177.46	0.37	154.49R
	17309.00	89.62	180.49	12144.46	5025.10	-5024.13	218.03	5028.86	177.52	0.52	104.16L
	17404.00	89.00	178.03	12145.60	5120.08	-5119.11	219.26	5123.80	177.55	2.67	46.64R
	17499.00	89.34	178.39	12146.98	5215.04	-5214.05	222.23	5218.79	177.56	0.52	60.07R
	17593.00	89.72	179.05	12147.75	5309.02	-5308.02	224.33	5312.76	177.58	0.81	95.86R
	17688.00	89.68	179.44	12148.25	5404.02	-5403.01	225.58	5407.72	177.61	0.41	178.88L
	17783.00	89.17	179.43	12149.20	5499.01	-5498.00	226.51	5502.67	177.64	0.54	50.69R
	17878.00	90.30	180.81	12149.64	5594.00	-5593.00	226.31	5597.58	177.68	1.88	111.8L
	17972.00	89.92	179.86	12149.46	5688.00	-5687.00	225.77	5691.48	177.73	1.09	126.46L
	18066.00	88.62	178.10	12150.66	5781.98	-5780.97	227.44	5785.44	177.75	2.33	67.52R
	18161.00	88.86	178.68	12152.74	5876.93	-5875.91	230.11	5880.41	177.76	0.66	79.82L
	18256.00	89.31	176.18	12154.26	5971.83	-5970.79	234.37	5975.39	177.75	2.67	79.01R
	18350.00	89.65	177.93	12155.11	6065.72	-6064.66	239.19	6069.38	177.74	1.90	103.13L
	18445.00	89.10	175.57	12156.15	6160.58	-6159.49	244.58	6164.35	177.73	2.55	50.53L
	18539.00	89.24	175.40	12157.51	6254.31	-6253.19	251.98	6258.27	177.69	0.23	69.03R
	18634.00	89.93	177.20	12158.20	6349.13	-6347.99	258.11	6353.23	177.67	2.03	87.17R
	18729.00	90.17	182.05	12158.12	6444.11	-6442.96	258.73	6448.15	177.70	5.11	44.35R
	18824.00	90.62	182.49	12157.46	6539.01	-6537.88	254.97	6542.85	177.77	0.66	112.72L
	18918.00	90.00	181.01	12156.95	6632.95	-6631.83	252.10	6636.62	177.82	1.71	84.29L
	19013.00	90.03	180.71	12156.93	6727.93	-6726.82	250.67	6731.49	177.87	0.32	48.81L
	19108.00	90.10	180.63	12156.82	6822.92	-6821.81	249.56	6826.38	177.90	0.11	96.51L
	19203.00	89.93	179.14	12156.80	6917.91	-6916.79	249.75	6921.32	177.93	1.58	75.09R
	19297.00	90.34	180.68	12156.58	7011.91	-7010.81	249.90	7015.26	177.96	1.70	138.46L
	19392.00	89.55	179.98	12156.67	7106.90	-7105.81	249.35	7110.18	177.99	1.11	88.63L
	19487.00	89.58	178.73	12157.39	7201.90	-7200.80	250.42	7205.15	178.01	1.32	30.37R
	19582.00	90.86	179.48	12157.02	7296.89	-7295.78	251.90	7300.13	178.02	1.56	123.21L
	19676.00	90.31	178.64	12156.06	7390.87	-7389.76	253.45	7394.11	178.04	1.07	158.46R
	19771.00	89.93	178.79	12155.86	7485.86	-7484.74	255.58	7489.10	178.04	0.43	20.1R
	19866.00	90.34	178.94	12155.64	7580.85	-7579.72	257.46	7584.09	178.05	0.46	113.2L
	20055.00	89.86	177.82	12155.31	7669.79	-7668.64	262.80	7673.08	178.06	0.64	92.6L
	20150.00	89.79	176.28	12155.60	7864.68	-7863.51	267.69	7868.06	178.05	1.62	106.93L
	20245.00	89.72	176.05	12156.01	7959.50	-7958.30	274.04	7963.01	178.03	0.25	145.31L
	20339.00	89.59	175.96	12156.57	8053.30	-8052.07	280.59	8056.95	178.00	0.17	78.15R
	20434.00	90.10	178.39	12156.83	8148.20	-8146.94	285.28	8151.94	177.99	2.61	74.48R
	20529.00	90.96	181.49	12155.95	8243.18	-8241.93	285.37	8246.86	178.02	3.39	104.24L
	20623.00	90.34	179.05	12154.88	8337.16	-8335.91	284.93	8340.78	178.04	2.68	96.34L
	20718.00	90.31	178.78	12154.35	8432.15	-8430.89	286.73	8435.77	178.05	0.29	90L
	20812.00	90.31	177.75	12153.84	8526.12	-8524.85	289.58	8529.76	178.05	1.10	92.08R
	20907.00	90.27	178.85	12153.36	8621.08	-8619.80	292.40	8624.76	178.06	1.16	77.9R
	21002.00	90.48	179.83	12152.73	8716.08	-8714.79	293.49	8719.73	178.07	1.05	115.12R
	21096.00	89.65	181.60	12152.63	8810.06	-8808.78	292.32	8813.63	178.10	2.08	62.68R
	21191.00	89.96	182.20	12152.95	8904.99	-8903.73	289.17	8908.42	178.14	0.71	118.3R
	21287.00	89.89	182.33	12153.08	9000.90	-8999.65	285.37	9004.18	178.18	0.15	86.44L
	21476.00	90.10	178.96	12153.09	9189.85	-9188.61	283.25	9192.98	178.23	1.79	90R
	21570.00	90.10	180.34	12152.93	9283.84	-9282.61	283.82	9286.95	178.25	1.47	55.01R
	21665.00	90.24	180.54	12152.65	9378.84	-9377.61	283.09	9381.88	178.27	0.26	141.12L
	21759.00	89.93	180.29	12152.51	9472.83	-9471.60	282.41	9475.81	178.29	0.42	164.05L
	21854.00	89.86	180.27	12152.68	9567.82	-9566.60	281.95	9570.76	178.31	0.08	10.44R
	21948.00	90.24	180.34	12152.60	9661.82	-9660.60	281.44	9664.70	178.33	0.41	168.37R
	22042.00	89.90	180.41	12152.49	9755.81	-9754.60	280.83	9758.64	178.35	0.37	118.3L
	22137.00	89.83	180.28	12152.71	9850.81	-9849.60	280.26	9853.58	178.37	0.16	45R
	22231.00	90.10	180.55	12152.77	9944.80	-9943.59	279.58	9947.52	178.39	0.41	105.12L
	22326.00	89.90	179.81	12152.77	10039.80	-10038.59	279.28	10042.48	178.41	0.81	90L
	22420.00	89.90	177.46	12152.93	10133.77	-10132.56	281.52	10136.47	178.41	2.50	73.1R
Toe HL Cross	22429.56	90.05	177.95	12152.93	10143.33	-10142.11	281.90	10146.03	178.41	5.33	73.1R
Last SLB MWD DMAG Survey	22462.00	90.55	179.60	12152.77	10175.76	-10174.54	282.59	10178.47	178.41	5.33	HS
Projection to Bit	22505.00	90.55	179.60	12152.35	10218.76	-10217.54	282.89	10221.45	178.41	0.00	

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	32.600	1/98,425	30.000	30.000	A001Mb_MWD-Depth Only	SD 14 23 Fed P18 11H / Chevron
	1	32.600	32.600	Act Stns	30.000	30.000	A001Mb_MWD-Depth Only	SD 14 23 Fed P18 11H MWD to
	1	32.600	768.900	Act Stns	30.000	30.000	A001Mb_MWD	SD 14 23 Fed P18 11H / Chevron
	1	768.900	14382.000	Act Stns	30.000	30.000	B001Mb_MWD+HRGM	SD 14 23 Fed P18 11H MWD to
	1	14382.000	22505.000	Act Stns	30.000	30.000	B002Mb_MWD+HRGM+AX	SD 14 23 Fed P18 11H / Chevron
								SD 14 23 Fed P18 11H MWD to