

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

February 18, 2020

Chevron USA Incorporated
6301 Deauville Blvd.
Midland, TX 79706

Re:

S29, T26S, R33E Lea, NM
N 32.021432 W -103.594321

CLIENT: Chevron USA Incorporated
WELL: SD EA 29 32 Fed Com P10 18H
FIELD: Upper Wolfcamp

RIG: Nabors 1206
COUNTY: Lea
API NO: 30-025-44486
JOB NO: 18MLD4042

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>
Ryland Matthews FE	Chevron SD EA 29 32 Fed Com P10 18H Original Hole	983.00 Ft to 20087.00 Ft	February 23, 2019 to April 26, 2019	TelePacer SlimPulse

HOBBS OCD
FEB 24 2020
RECEIVED

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:
S29, T26S, R33E Lea, NM
N 32.021432 W -103.594321

I, Ryland Matthews certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of February 23, 2019 through April 26, 2019, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 983.00 feet to a depth of 20087.00 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 for the Chevron SD EA 29 32 Fed Com P10 18H Well (Original Hole) API No. 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.

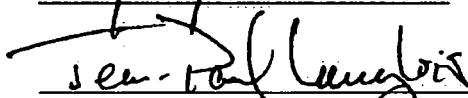
By
Ryland Matthews
FE



Subscribed and Sworn to before me this 18 day of February (month) 2020 (yr)

My Commission expires:

6/14/23



(signature)

Notary Public

Comanche, Oklahoma

(County State)





Chevron SD EA 29 32 Fed Com P10 18H MWD to 20127ft Survey Geodetic Report (Def Survey)

Report Date: April 28, 2019 - 12:41 PM
 Client: Chevron
 Field: NM Lea County (NAD 27)
 Structure / Slot: Chevron SD EA 29 32 Fed Com P10 Pad / 18H
 Well: SD EA 29 32 Fed Com P10 18H
 Borehole: SD EA 29 32 Fed Com P10 18H
 UWI / API#: Unknown / Unknown
 Survey Name: Chevron SD EA 29 32 Fed Com P10 18H MWD to 20127ft
 Survey Date: April 27, 2019
 Tort / AHD / DDI / ERD Ratio: 243.458' / 8100.591 ft / 6.493 / 0.635
 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 1' 16.70358", W 103° 35' 37.87953"
 Location Grid N/E Y/X: N 372262.000 RUS, E 729184.000 RUS
 CRS Grid Convergence Angle: 0.3921°
 Grid Scale Factor: 0.99996925
 Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 179.530° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB = 31.5ft
 TVD Reference Elevation: 3267.500 ft above
 Seabed / Ground Elevation: 3236.000 ft above
 Magnetic Declination: 6.678°
 Total Gravity Field Strength: 998.4327 mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47682.135 nT
 Magnetic Dip Angle: 59.630°
 Declination Date: April 27, 2019
 Magnetic Declination Model: HDGM 2019
 North Reference: Grid North
 Grid Convergence Used: 0.3921°
 Total Corr Mag North-Grid North: 6.2859°
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/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	372262.00	729184.00	N 32° 1' 16.70" W 103° 35' 37.88"	
Adjusted KB	24.50	0.00	0.00	24.50	0.00	0.00	0.00	0.00	372262.00	729184.00	N 32° 1' 16.70" W 103° 35' 37.88"	
First 3rd Party Survey	156.50	1.40	99.67	156.49	0.28	-0.27	1.59	1.06	372261.73	729185.59	N 32° 1' 16.70" W 103° 35' 37.86"	
	243.50	0.70	108.80	243.47	0.65	-0.62	3.14	0.82	372261.38	729187.14	N 32° 1' 16.70" W 103° 35' 37.84"	
	333.50	0.60	105.00	333.47	0.95	-0.92	4.12	0.12	372261.08	729188.12	N 32° 1' 16.69" W 103° 35' 37.83"	
	435.50	0.70	136.30	435.46	1.55	-1.51	5.06	0.36	372260.49	729189.06	N 32° 1' 16.69" W 103° 35' 37.81"	
	520.50	0.70	87.60	520.45	1.91	-1.86	5.94	0.68	372260.14	729189.94	N 32° 1' 16.68" W 103° 35' 37.81"	
	604.50	1.20	133.60	604.44	2.51	-2.45	7.09	1.04	372259.55	729191.09	N 32° 1' 16.68" W 103° 35' 37.80"	
	689.50	0.90	103.80	689.43	3.29	-3.22	8.38	0.72	372258.78	729192.38	N 32° 1' 16.67" W 103° 35' 37.77"	
	773.50	0.80	143.17	773.42	3.92	-3.85	9.37	0.69	372258.15	729193.37	N 32° 1' 16.66" W 103° 35' 37.77"	
	831.50	0.20	261.47	831.42	4.26	-4.19	9.52	1.57	372257.81	729193.52	N 32° 1' 16.66" W 103° 35' 37.77"	
	983.00	1.19	296.60	982.91	3.59	-3.52	7.85	0.68	372258.48	729191.85	N 32° 1' 16.67" W 103° 35' 37.79"	
Last 3rd Party Survey	1078.00	1.59	292.52	1077.88	2.62	-2.57	5.75	0.43	372259.43	729189.75	N 32° 1' 16.68" W 103° 35' 37.81"	
	1174.00	2.63	307.01	1173.81	0.76	-0.74	2.76	1.21	372261.26	729186.76	N 32° 1' 16.70" W 103° 35' 37.85"	
	1268.00	4.29	301.53	1267.64	-2.41	2.40	-1.96	1.80	372264.40	729182.04	N 32° 1' 16.73" W 103° 35' 37.90"	
	1362.00	4.86	299.82	1361.34	-6.29	6.22	-8.41	0.62	372268.22	729175.59	N 32° 1' 16.77" W 103° 35' 37.98"	
	1457.00	5.64	304.93	1455.94	-11.02	10.89	-15.73	0.96	372272.89	729168.27	N 32° 1' 16.81" W 103° 35' 38.06"	
	1552.00	6.03	307.32	1550.45	-16.78	16.59	-23.52	0.48	372278.59	729160.48	N 32° 1' 16.87" W 103° 35' 38.15"	
	1648.00	6.01	307.21	1645.92	-22.94	22.69	-31.54	0.02	372284.69	729152.46	N 32° 1' 16.93" W 103° 35' 38.24"	
	1743.00	6.09	306.05	1740.39	-28.98	28.66	-39.57	0.15	372290.66	729144.43	N 32° 1' 16.99" W 103° 35' 38.34"	
	1838.00	6.06	306.22	1834.86	-34.98	34.59	-47.69	0.04	372296.59	729136.31	N 32° 1' 17.05" W 103° 35' 38.43"	
	1933.00	6.02	306.37	1929.33	-40.96	40.50	-55.75	0.05	372302.50	729128.25	N 32° 1' 17.11" W 103° 35' 38.52"	
First SLB MWD Survey	2028.00	5.72	305.85	2023.83	-46.75	46.23	-63.60	0.32	372308.23	729120.40	N 32° 1' 17.17" W 103° 35' 38.61"	
	2123.00	5.58	307.41	2118.37	-52.39	51.81	-71.10	0.22	372313.81	729112.90	N 32° 1' 17.22" W 103° 35' 38.70"	
	2218.00	5.50	305.98	2212.92	-57.93	57.29	-78.46	0.17	372319.29	729105.55	N 32° 1' 17.28" W 103° 35' 38.79"	
	2312.00	5.31	307.22	2306.51	-63.27	62.57	-85.57	0.24	372324.57	729098.44	N 32° 1' 17.33" W 103° 35' 38.87"	
	2406.00	5.28	308.04	2400.11	-68.62	67.86	-92.44	0.09	372329.86	729091.57	N 32° 1' 17.38" W 103° 35' 38.95"	
	2502.00	4.64	300.91	2495.75	-73.39	72.58	-99.25	0.92	372334.58	729084.76	N 32° 1' 17.43" W 103° 35' 39.03"	
	2597.00	4.52	298.14	2590.44	-77.19	76.32	-105.84	0.26	372338.32	729078.16	N 32° 1' 17.47" W 103° 35' 39.10"	
	2692.00	4.26	300.73	2685.16	-80.81	79.89	-112.18	0.34	372341.89	729071.83	N 32° 1' 17.50" W 103° 35' 39.18"	
	2787.00	3.96	287.27	2779.92	-83.63	82.67	-118.34	1.06	372344.66	729065.66	N 32° 1' 17.53" W 103° 35' 39.25"	
	2881.00	3.88	284.08	2873.70	-85.42	84.40	-124.53	0.25	372346.40	729059.48	N 32° 1' 17.55" W 103° 35' 39.32"	
	2976.00	2.88	303.32	2968.54	-87.56	86.50	-129.64	1.58	372348.49	729054.36	N 32° 1' 17.57" W 103° 35' 39.38"	
	3071.00	1.56	322.36	3063.47	-89.91	88.83	-132.42	1.72	372350.83	729051.58	N 32° 1' 17.59" W 103° 35' 39.41"	
	3165.00	0.53	235.38	3157.45	-90.69	89.60	-133.56	1.72	372351.99	729050.44	N 32° 1' 17.60" W 103° 35' 39.42"	
	3259.00	0.62	202.63	3251.45	-89.98	88.88	-134.12	0.36	372350.88	729049.89	N 32° 1' 17.59" W 103° 35' 39.43"	
	3355.00	0.80	255.19	3347.44	-89.33	88.23	-134.96	0.68	372350.23	729049.04	N 32° 1' 17.59" W 103° 35' 39.44"	
	3450.00	0.40	291.53	3442.44	-89.29	88.18	-135.91	0.56	372350.18	729048.09	N 32° 1' 17.59" W 103° 35' 39.45"	
	3545.00	0.70	78.03	3537.44	-89.53	88.42	-135.65	1.11	372350.42	729048.35	N 32° 1' 17.59" W 103° 35' 39.45"	
	3640.00	0.60	97.40	3632.43	-89.58	88.48	-134.59	0.25	372350.48	729049.41	N 32° 1' 17.59" W 103° 35' 39.44"	
	3734.00	0.73	233.46	3726.43	-89.16	88.06	-134.59	1.31	372350.06	729049.42	N 32° 1' 17.58" W 103° 35' 39.44"	
	3829.00	0.29	216.50	3821.42	-88.61	87.51	-135.22	0.48	372349.50	729048.79	N 32° 1' 17.56" W 103° 35' 39.44"	
	3924.00	0.28	78.39	3916.42	-88.47	87.36	-135.13	0.56	372349.36	729048.87	N 32° 1' 17.56" W 103° 35' 39.44"	
	4018.00	0.68	218.89	4010.42	-88.08	86.97	-135.26	0.97	372348.97	729048.75	N 32° 1' 17.57" W 103° 35' 39.44"	
	4113.00	1.06	224.26	4105.41	-87.02	85.91	-136.23	0.41	372347.90	729047.78	N 32° 1' 17.56" W 103° 35' 39.45"	
	4208.00	0.34	358.71	4200.40	-86.68	85.56	-136.85	1.39	372347.56	729047.16	N 32° 1' 17.56" W 103° 35' 39.46"	
	4303.00	0.86	57.60	4295.40	-87.34	86.22	-136.25	0.78	372348.22	729047.76	N 32° 1' 17.57" W 103° 35' 39.46"	
	4397.00	0.75	155.84	4389.39	-87.15	86.04	-135.40	1.30	372348.04	729048.60	N 32° 1' 17.56" W 103° 35' 39.45"	
	4492.00	1.58	164.18	4484.37	-85.31	84.21	-134.79	0.89	372346.21	729049.21	N 32° 1' 17.55" W 103° 35' 39.44"	
	4587.00	2.06	178.70	4579.33	-82.34	81.24	-134.39	0.70	372343.24	729049.61	N 32° 1' 17.52" W 103° 35' 39.43"	
	4682.00	2.08	218.61	4674.27	-79.30	78.19	-135.43	1.49	372340.19	729048.57	N 32° 1' 17.49" W 103° 35' 39.45"	
	4777.00	2.18	273.26	4769.21	-78.08	76.95	-138.31	2.06	372338.94	729045.69	N 32° 1' 17.47" W 103° 35' 39.48"	
	4871.00	2.08	344.93	4863.16	-79.84	78.69	-140.54	2.65	372340.69	729043.46	N 32° 1' 17.49" W 103° 35' 39.51"	
	4966.00	1.06	24.37	4958.13	-82.31	81.16	-140.63	1.51	372343.16	729043.38	N 32° 1' 17.52" W 103° 35' 39.51"	
	5061.00	0.97	168.08	5053.12	-82.32	81.17	-140.10	2.03	372343.17	729043.91	N 32° 1' 17.52" W 103° 35' 39.50"	
	5155.00	1.37	182.45	5147.10	-80.42	79.27	-139.98	0.52	372341.27	729044.02	N 32° 1' 17.50" W 103° 35' 39.50"	
	5250.00	0.45	228.98	5242.09	-79.04	77.89	-140.31	1.17	372339.89	729043.69	N 32° 1' 17.48" W 103° 35' 39.50"	
	5345.00	0.44	258.64	5337.09	-78.73	77.58	-140.95	0.24	372339.57	729043.05	N 32° 1' 17.48" W 103° 35' 39.51"	
	5439.00	0.38	183.09	5431.09	-78.35	77.19	-141.32	0.54	372339.19	729042.68	N 32° 1' 17.48" W 103° 35' 39.51"	
	5534.00	0.25	213.18	5526.08	-77.86	76.71	-141.45	0.22	372338.70	729042.55	N 32° 1' 17.47" W 103° 35' 39.52"	
	5629.00	0.45	184.89	5621.08	-77.32	76.16	-141.60	0.27	372338.16	729042.41	N 32° 1' 17.47" W 103° 35' 39.52"	
	5724.00	0.24	234.04	5716.08	-76.83	75.67	-141.79	0.36	372337.67	729042.22	N 32° 1' 17.46" W 103° 35' 39.52"	
	5818.00	0.40	188.11	5810.08	-76.39	75.23	-142.00	0.31	372337.23	729042.01	N 32° 1' 17.46" W 103° 35' 39.52"	
	5913.00	0.34	181.74	5905.08	-75.78	74.62	-142.05	0.08	372336.62	729041.95	N 32° 1' 17.45" W 103° 35' 39.52"	
	6008.00	0.34	245.71	6000.08	-75.39	74.22	-142.32	0.38	372336.22	729041.69	N 32° 1' 17.45" W 103° 35' 39.53"	
	6103.00	0.28	192.70	6095.07	-75.05	73.88	-142.62	0.30	372335.88	729041.38	N 32° 1' 17.44" W 103° 35' 39.53"	
	6198.00	0.28	212.28	6190.07	-74.63	73.46	-142.80	0.10	372335.46	729041.21	N 32° 1' 17.44" W 103° 35' 39.53"	
	6293.00	0.40	224.65	6285.07	-74.20	73.03	-143.16	0.15	372335.02	729040.85	N 32° 1' 17.44" W 103° 35' 39.54"	
	6388.00	0.16	194.03	6380.07	-73.84	72.66	-143.42	0.29	372334.66	729040.58	N 32° 1' 17.43" W 103° 35' 39.54"	
	6483.00	0.29	201.81	6475.07	-73.49	72.31	-143.54	0.14	372334.31	729040.46	N 32° 1' 17.43" W 103° 35' 39.54"	
	6578.00	0.28	145.22	6570.07	-73.07	71.90	-143.50	0.29	372333.89	729040.50	N 32° 1' 17.42" W 103° 35' 39.54"	
	6672.00	0.30	200.37	6664.07	-72.65	71.48	-143.45	0.29	372333.47	729040.55	N 32° 1' 17.42" W 103° 35' 39.54"	
	6766.00	0.11	135.01	6758.07	-72.36	71.						

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	7528.00	0.83	257.45	7518.06	-71.15	69.96	-145.57	0.52	372331.96	729038.43	N 32° 1' 17.41"	W 103° 35' 39.96"
	7621.00	0.57	254.60	7613.05	-70.88	69.68	-146.70	0.28	372331.68	729037.31	N 32° 1' 17.40"	W 103° 35' 39.96"
	7715.00	0.60	247.36	7707.04	-70.58	69.37	-147.60	0.08	372331.37	729036.40	N 32° 1' 17.40"	W 103° 35' 39.96"
	7810.00	0.58	210.75	7802.04	-69.98	68.76	-148.31	0.39	372330.76	729035.70	N 32° 1' 17.39"	W 103° 35' 39.96"
	7905.00	0.87	211.02	7897.03	-68.95	67.73	-148.93	0.31	372329.73	729035.08	N 32° 1' 17.38"	W 103° 35' 39.96"
	8000.00	0.78	197.16	7992.02	-67.72	66.50	-149.49	0.23	372328.50	729034.52	N 32° 1' 17.37"	W 103° 35' 39.96"
	8095.00	0.95	216.89	8087.01	-66.48	65.25	-150.15	0.36	372327.25	729033.85	N 32° 1' 17.36"	W 103° 35' 39.96"
	8189.00	1.03	211.14	8181.00	-65.14	63.90	-151.06	0.14	372325.90	729032.95	N 32° 1' 17.35"	W 103° 35' 39.96"
	8283.00	1.12	185.26	8274.98	-63.51	62.27	-151.58	0.52	372324.26	729032.43	N 32° 1' 17.33"	W 103° 35' 39.96"
	8378.00	1.26	188.43	8369.96	-61.55	60.31	-151.82	0.16	372322.31	729032.19	N 32° 1' 17.31"	W 103° 35' 39.96"
	8473.00	1.32	182.61	8464.94	-59.43	58.18	-152.02	0.15	372320.18	729031.99	N 32° 1' 17.29"	W 103° 35' 39.96"
	8568.00	1.07	175.99	8559.92	-57.45	56.20	-152.01	0.30	372318.20	729032.00	N 32° 1' 17.27"	W 103° 35' 39.96"
	8663.00	1.33	191.45	8654.89	-55.48	54.24	-152.16	0.43	372316.24	729031.84	N 32° 1' 17.25"	W 103° 35' 39.96"
	8758.00	1.23	195.49	8749.87	-53.43	52.18	-152.66	0.14	372314.17	729031.35	N 32° 1' 17.23"	W 103° 35' 39.96"
	8858.00	1.33	197.41	8849.85	-51.29	50.03	-153.29	0.11	372312.03	729030.72	N 32° 1' 17.21"	W 103° 35' 39.96"
	8953.00	0.88	201.95	8944.83	-49.57	48.30	-153.89	0.48	372310.30	729030.11	N 32° 1' 17.19"	W 103° 35' 39.96"
	9048.00	0.56	208.22	9039.82	-48.48	47.22	-154.38	0.35	372309.22	729029.62	N 32° 1' 17.18"	W 103° 35' 39.96"
	9143.00	1.06	188.81	9134.81	-47.21	45.94	-154.74	0.59	372307.94	729029.27	N 32° 1' 17.17"	W 103° 35' 39.96"
	9237.00	1.46	214.09	9228.79	-45.37	44.09	-155.54	0.72	372306.09	729028.46	N 32° 1' 17.15"	W 103° 35' 39.96"
	9332.00	1.35	224.57	9323.76	-43.58	42.29	-157.01	0.29	372304.29	729027.00	N 32° 1' 17.13"	W 103° 35' 39.96"
	9427.00	1.40	200.32	9418.73	-41.70	40.41	-158.19	0.81	372302.40	729025.81	N 32° 1' 17.11"	W 103° 35' 39.96"
	9515.00	1.35	196.47	9506.71	-39.71	38.40	-158.86	0.12	372300.40	729025.12	N 32° 1' 17.09"	W 103° 35' 39.96"
	9609.00	1.56	206.39	9600.68	-37.50	36.20	-159.74	0.35	372298.19	729024.26	N 32° 1' 17.07"	W 103° 35' 39.96"
	9704.00	1.91	235.22	9695.64	-35.48	34.13	-161.62	0.98	372296.13	729022.39	N 32° 1' 17.05"	W 103° 35' 39.96"
	9799.00	2.02	269.30	9790.58	-34.56	33.21	-164.59	1.22	372295.21	729019.41	N 32° 1' 17.04"	W 103° 35' 39.96"
	9894.00	2.08	282.69	9885.52	-34.95	33.57	-167.95	0.51	372295.57	729016.05	N 32° 1' 17.05"	W 103° 35' 39.96"
	9989.00	1.20	271.03	9980.48	-35.38	33.97	-170.63	0.99	372295.96	729013.38	N 32° 1' 17.05"	W 103° 35' 39.96"
	10080.00	0.96	306.52	10071.47	-35.85	34.44	-172.19	0.77	372296.43	729011.81	N 32° 1' 17.06"	W 103° 35' 39.96"
	10175.00	0.93	304.15	10166.46	-36.76	35.34	-173.47	0.05	372297.34	729010.54	N 32° 1' 17.07"	W 103° 35' 39.96"
	10270.00	0.87	310.75	10261.44	-37.68	36.25	-174.65	0.13	372298.24	729009.35	N 32° 1' 17.07"	W 103° 35' 39.96"
	10364.00	0.83	327.41	10355.43	-38.72	37.29	-175.56	0.27	372299.28	729008.44	N 32° 1' 17.08"	W 103° 35' 39.96"
	10459.00	0.96	31.56	10450.42	-39.98	38.54	-175.52	1.01	372300.54	729008.49	N 32° 1' 17.10"	W 103° 35' 39.96"
	10554.00	1.18	23.31	10545.41	-41.55	40.12	-174.71	0.28	372302.12	729009.29	N 32° 1' 17.11"	W 103° 35' 39.96"
	10649.00	1.23	5.38	10640.39	-43.46	42.03	-174.23	0.40	372304.03	729009.78	N 32° 1' 17.13"	W 103° 35' 39.96"
	10744.00	1.40	4.48	10735.36	-45.63	44.21	-174.04	0.18	372306.20	729009.96	N 32° 1' 17.15"	W 103° 35' 39.96"
	10839.00	1.51	352.87	10830.33	-48.03	46.60	-174.85	0.33	372308.60	729009.90	N 32° 1' 17.18"	W 103° 35' 39.96"
	10937.00	1.81	338.01	10928.29	-50.75	49.32	-176.93	0.53	372311.32	729009.16	N 32° 1' 17.20"	W 103° 35' 39.96"
	11031.00	2.46	311.01	11022.23	-53.47	52.02	-176.93	1.26	372314.02	729007.08	N 32° 1' 17.23"	W 103° 35' 39.96"
	11126.00	3.69	279.62	11117.09	-55.36	53.87	-181.48	2.15	372315.87	729002.53	N 32° 1' 17.25"	W 103° 35' 39.96"
	11221.00	4.54	273.60	11211.85	-56.16	54.62	-189.25	1.00	372316.62	728995.76	N 32° 1' 17.26"	W 103° 35' 40.06"
	11316.00	5.34	272.61	11306.50	-56.66	55.05	-196.41	0.85	372317.05	728987.59	N 32° 1' 17.26"	W 103° 35' 40.06"
	11411.00	5.45	269.97	11401.08	-56.70	55.02	-205.34	0.57	372317.02	728978.67	N 32° 1' 17.26"	W 103° 35' 40.06"
	11506.00	5.56	262.83	11495.64	-55.96	54.20	-214.41	0.43	372316.20	728969.60	N 32° 1' 17.25"	W 103° 35' 40.06"
	11541.00	5.29	264.00	11530.48	-55.61	53.82	-217.69	0.83	372315.82	728966.31	N 32° 1' 17.25"	W 103° 35' 40.06"
	11593.00	4.89	263.06	11582.28	-55.13	53.31	-222.28	0.79	372315.30	728961.73	N 32° 1' 17.25"	W 103° 35' 40.06"
	11688.00	2.69	247.25	11677.06	-53.83	51.95	-226.35	2.54	372313.95	728955.65	N 32° 1' 17.23"	W 103° 35' 40.06"
	11783.00	1.90	274.23	11771.99	-53.11	51.21	-231.98	1.39	372313.21	728952.03	N 32° 1' 17.23"	W 103° 35' 40.06"
	11877.00	0.31	216.82	11865.97	-53.03	51.12	-233.69	1.86	372313.12	728950.32	N 32° 1' 17.23"	W 103° 35' 40.06"
	11971.00	0.49	222.24	11959.97	-52.54	50.62	-234.11	0.20	372312.62	728949.90	N 32° 1' 17.22"	W 103° 35' 40.06"
	12067.00	2.65	140.49	12055.93	-50.51	48.60	-232.97	2.73	372310.60	728951.03	N 32° 1' 17.20"	W 103° 35' 40.06"
	12114.00	9.78	150.65	12102.63	-48.17	44.28	-230.32	15.29	372306.28	728953.68	N 32° 1' 17.16"	W 103° 35' 40.06"
	12161.00	14.20	158.11	12148.59	-37.30	35.45	-226.21	9.95	372297.44	728957.79	N 32° 1' 17.07"	W 103° 35' 40.06"
	12208.00	17.29	159.03	12193.82	-25.39	23.57	-221.56	6.60	372285.57	728962.44	N 32° 1' 16.95"	W 103° 35' 40.06"
	12225.00	19.13	160.74	12209.97	-20.38	18.58	-219.74	11.28	372280.58	728964.27	N 32° 1' 16.80"	W 103° 35' 40.06"
	12256.00	22.52	163.16	12238.94	-9.88	8.10	-216.35	11.28	372270.10	728967.66	N 32° 1' 16.80"	W 103° 35' 40.06"
	12303.00	24.49	165.73	12282.04	8.22	-9.96	-211.34	4.72	372252.04	728972.67	N 32° 1' 16.62"	W 103° 35' 40.06"
	12351.00	30.09	169.04	12324.69	29.73	-31.43	-206.59	12.08	372230.57	728977.41	N 32° 1' 16.41"	W 103° 35' 40.06"
	12398.00	36.77	171.03	12363.89	55.26	-56.92	-202.15	14.40	372205.08	728981.85	N 32° 1' 16.15"	W 103° 35' 40.06"
	12446.00	42.39	176.88	12400.88	85.67	-87.30	-199.03	14.04	372174.70	728984.98	N 32° 1' 15.85"	W 103° 35' 40.06"
	12493.00	45.16	178.53	12434.82	118.16	-119.79	-197.74	6.37	372142.22	728986.27	N 32° 1' 15.53"	W 103° 35' 40.06"
	12541.00	47.68	179.30	12467.90	152.93	-154.55	-197.09	5.38	372107.45	728986.92	N 32° 1' 15.19"	W 103° 35' 40.06"
	12588.00	51.59	178.08	12498.34	188.73	-190.34	-196.26	8.55	372071.66	728987.75	N 32° 1' 14.83"	W 103° 35' 40.06"
	12635.00	55.61	178.32	12526.22	226.54	-228.15	-195.07	8.56	372033.86	728988.94	N 32° 1' 14.46"	W 103° 35' 40.06"
	12682.00	59.04	178.10	12551.59	266.09	-267.68	-193.83	7.31	371994.32	728990.17	N 32° 1' 14.07"	W 103° 35' 40.06"
	12730.00	61.28	177.98	12575.48	307.70	-309.29	-192.41	4.67	371952.72	728991.60	N 32° 1' 13.66"	W 103° 35' 40.06"
	12777.00	65.07	179.18	12596.68	349.63	-351.21	-191.38	8.38	371910.80	728992.63	N 32° 1' 13.24"	W 103° 35' 40.06"
	12825.00	68.85	180.77	12616.24	393.46	-395.05	-191.36	4.79	371866.97	728992.64	N 32° 1' 12.81"	W 103° 35' 40.06"
	12872.00	68.13	179.05	12634.23	436.88	-438.46	-191.29	4.34	371823.55	728992.72	N 32° 1' 12.38"	W 103° 35' 40.06"
	12920.00	74.07	177.18	12649.77	482.25	-483.83	-189.78	12.91	371778.19	728994.22	N 32° 1' 11.93"	W 103° 35' 40.06"
	12967.00	76.99	175.85	12661.52	527.69	-529.25	-187.02	6.79	371732.77	728996.99	N 32° 1' 11.48"	W 103° 35' 40.06"
	13014.00	80.94	176.13	12670.51	573.73	-575.25	-183.79	8.42	371686.76	729000.22	N 32° 1' 11.02"	W 103° 35' 40.06"
	13061.00	82.78	176.51	12677.17	620.18	-621.68	-180.80	4.00	371640.34	729003.20	N 32° 1' 10.56"	W 103° 35' 40.06"
	13109.00	87.77	179.35	12681.12	667.98	-669.47	-179.08	11.95	371592.55	729004.92	N 32° 1' 10.09"	W 103° 35' 40.06"
	13203.00	87.18	178.07	12685.26	761.87	-763.35	-176.97	1.50	371498.67	729007.04	N 32° 1' 9.16"	W 103° 35' 40.06"
	13233.00	85.84	178.35	12687.09	791.81	-793.28	-176.03	4.56	371468.75	729007.97	N 32° 1' 8.87"	W 103° 35' 39.99"
	13325.00	87.18	179.14	12692.69	863.63							

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	16541.00	89.97	179.79	12715.71	4097.91	-4099.46	-172.25	1.68	368162.67	729011.76	N 32 0 36.15	W 103 35 40.21
	16636.00	90.00	181.12	12715.74	4192.89	-4194.45	-173.00	1.40	368067.68	729011.01	N 32 0 35.21	W 103 35 40.22
	16731.00	90.00	181.47	12715.74	4287.85	-4289.43	-175.15	0.37	367972.71	729008.86	N 32 0 34.27	W 103 35 40.25
	16826.00	89.83	180.68	12715.88	4382.81	-4384.41	-176.93	0.85	367877.73	729007.08	N 32 0 33.33	W 103 35 40.28
	16921.00	90.14	179.87	12715.91	4477.80	-4479.41	-177.39	0.91	367782.74	729006.62	N 32 0 32.39	W 103 35 40.30
	17016.00	89.86	179.00	12715.91	4572.80	-4574.40	-176.45	0.96	367687.75	729007.56	N 32 0 31.45	W 103 35 40.29
	17111.00	89.83	179.19	12716.18	4667.80	-4669.39	-174.95	0.20	367592.76	729009.06	N 32 0 30.51	W 103 35 40.28
	17206.00	89.93	178.87	12716.36	4762.80	-4764.38	-173.34	0.35	367497.78	729010.67	N 32 0 29.57	W 103 35 40.27
	17301.00	89.31	178.86	12716.99	4857.79	-4859.36	-171.46	0.65	367402.80	729012.55	N 32 0 28.63	W 103 35 40.26
	17396.00	89.31	179.13	12718.14	4952.78	-4954.34	-169.79	0.28	367307.83	729014.21	N 32 0 27.69	W 103 35 40.24
	17491.00	89.73	179.01	12718.93	5047.77	-5049.32	-168.25	0.46	367212.85	729015.76	N 32 0 26.75	W 103 35 40.23
	17585.00	89.21	178.46	12719.80	5141.76	-5143.29	-166.18	0.81	367118.88	729017.83	N 32 0 25.82	W 103 35 40.22
	17680.00	89.42	179.04	12720.94	5236.74	-5238.26	-164.10	0.65	367023.91	729019.90	N 32 0 24.88	W 103 35 40.20
	17774.00	89.42	179.00	12721.89	5330.73	-5332.24	-162.50	0.04	366929.93	729021.51	N 32 0 23.95	W 103 35 40.19
	17869.00	89.35	178.90	12722.91	5425.72	-5427.22	-160.75	0.13	366834.96	729023.25	N 32 0 23.01	W 103 35 40.18
	17963.00	89.55	179.30	12723.81	5519.71	-5521.21	-159.28	0.48	366740.97	729024.73	N 32 0 22.08	W 103 35 40.17
	18058.00	89.69	179.79	12724.44	5614.71	-5616.20	-158.52	0.54	366645.98	729025.48	N 32 0 21.14	W 103 35 40.17
	18153.00	89.52	178.54	12725.10	5709.71	-5711.19	-157.14	1.33	366551.00	729026.87	N 32 0 20.20	W 103 35 40.16
	18247.00	89.79	179.29	12725.66	5803.70	-5805.17	-155.36	0.85	366457.02	729028.65	N 32 0 19.27	W 103 35 40.14
	18342.00	89.11	179.41	12726.57	5898.69	-5900.16	-154.28	0.73	366362.04	729029.72	N 32 0 18.33	W 103 35 40.14
	18437.00	89.86	179.03	12727.43	5993.69	-5995.14	-152.99	0.89	366267.05	729031.02	N 32 0 17.39	W 103 35 40.13
	18532.00	89.55	179.47	12727.92	6088.68	-6090.13	-151.75	0.57	366172.07	729032.26	N 32 0 16.45	W 103 35 40.13
	18626.00	89.04	179.29	12729.07	6182.68	-6184.12	-150.73	0.58	366078.08	729033.28	N 32 0 15.52	W 103 35 40.12
	18721.00	88.90	178.95	12730.78	6277.66	-6279.09	-149.27	0.39	365983.11	729034.74	N 32 0 14.58	W 103 35 40.11
	18816.00	88.80	179.21	12732.69	6372.64	-6374.06	-147.74	0.29	365888.15	729036.26	N 32 0 13.64	W 103 35 40.10
	18911.00	89.11	179.23	12734.42	6467.62	-6469.04	-146.45	0.33	365793.18	729037.55	N 32 0 12.70	W 103 35 40.09
	19006.00	88.76	179.06	12736.19	6562.60	-6564.01	-145.03	0.41	365698.21	729038.97	N 32 0 11.76	W 103 35 40.09
	19195.00	88.35	177.93	12740.95	6751.50	-6752.88	-140.07	0.64	365509.34	729043.93	N 32 0 9.89	W 103 35 40.04
	19290.00	88.31	177.58	12743.72	6846.42	-6847.77	-138.35	0.37	365414.46	729047.65	N 32 0 8.95	W 103 35 40.01
	19385.00	89.42	179.99	12745.60	6941.38	-6942.72	-134.34	2.79	365319.51	729049.67	N 32 0 8.01	W 103 35 39.99
	19479.00	89.66	180.77	12746.36	7035.37	-7036.71	-134.96	0.87	365225.52	729049.04	N 32 0 7.08	W 103 35 40.01
	19576.00	89.66	183.23	12746.93	7132.27	-7133.64	-138.35	2.54	365128.59	729045.66	N 32 0 6.12	W 103 35 40.05
	19671.00	89.45	180.77	12747.67	7227.17	-7228.58	-141.66	2.60	365033.66	729042.34	N 32 0 5.18	W 103 35 40.10
	19765.00	89.24	179.87	12748.75	7321.16	-7322.57	-142.19	0.98	364939.67	729041.82	N 32 0 4.25	W 103 35 40.11
	19860.00	89.59	179.75	12749.72	7416.15	-7417.56	-141.87	0.39	364844.68	729042.13	N 32 0 3.31	W 103 35 40.12
	19954.00	90.14	180.74	12749.94	7510.14	-7511.56	-142.27	1.20	364750.69	729041.73	N 32 0 2.38	W 103 35 40.13
	19972.00	90.13	180.78	12749.89	7528.14	-7529.56	-142.51	0.13	364732.69	729041.49	N 32 0 2.20	W 103 35 40.13
	20050.00	90.10	180.86	12749.74	7606.12	-7607.55	-143.61	0.13	364654.70	729040.39	N 32 0 1.43	W 103 35 40.15
	20087.00	90.17	180.98	12749.65	7643.11	-7644.55	-144.21	0.38	364617.71	729039.80	N 32 0 1.07	W 103 35 40.16
	20127.00	90.17	180.98	12749.53	7683.09	-7684.54	-144.89	0.00	364577.71	729039.11	N 32 0 0.67	W 103 35 40.17

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	24.500	1/98.425	30.000	30.000	A001Ma_MWD-Depth Only	SD EA 29 32 Fed Com P10 18H / Chevron SD EA 29 32 Fed Com
	1	24.500	31.500	Act Stns	30.000	30.000	A001Ma_MWD-Depth Only	SD EA 29 32 Fed Com P10 18H / Chevron SD EA 29 32 Fed Com
	1	31.500	831.500	Act Stns	30.000	30.000	A001Ma_MWD	SD EA 29 32 Fed Com P10 18H / Chevron SD EA 29 32 Fed Com
	1	831.500	20127.000	Act Stns	30.000	30.000	B001Ma_MWD+HDGM	SD EA 29 32 Fed Com P10 18H / Chevron SD EA 29 32 Fed Com

...SD EA 29 32 Fed Com P10 18H/Chevron SD EA 29 32 Fed Com P10 18H MWD to 20127ft