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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

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☒ AMENDED REPORT

"As-Drilled"

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-44975	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 321443	⁵ Property Name CB SE 5 32 FED COM 3	⁶ Well Number 2H
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	⁹ Elevation 3015'

¹⁰ Surface Location

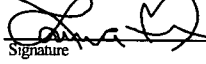
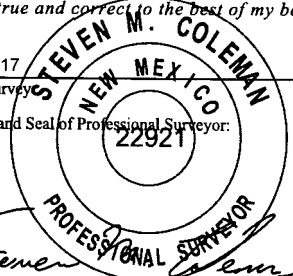
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	5	24 SOUTH	29 EAST, N.M.P.M.		295'	SOUTH	1567'	WEST	EDDY

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
D	32	23 SOUTH	29 EAST, N.M.P.M.		183'	NORTH	1249'	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 FINAL LAST TAKE POINT X= 599,633' Y= 461,194' LAT. 32.267529° N LONG. 104.010991° W NAD 27 X= 640,817' Y= 461,254' LAT. 32.267651° N LONG. 104.011483° W NAD83/86 MID POINT X= 599,713' Y= 456,281' LAT. 32.254021° N LONG. 104.010781° W NAD 27 X= 640,897' Y= 456,340' LAT. 32.254143° N LONG. 104.011272° W NAD83/86 FINAL FIRST TAKE POINT X= 599,756' Y= 451,321' LAT. 32.240387° N LONG. 104.010691° W NAD 27 X= 640,939' Y= 451,380' LAT. 32.240510° N LONG. 104.011181° W NAD83/86 KICK OFF POINT X= 599,798' Y= 451,021' LAT. 32.239560° N LONG. 104.010557° W NAD 27 X= 640,982' Y= 451,080' LAT. 32.239683° N LONG. 104.011047° W NAD83/86	ACTUAL BOTTOM HOLE LOCATION X= 599,636' Y= 461,357' LAT. 32.267976° N LONG. 104.010980° W NAD 27 X= 640,820' Y= 461,416' LAT. 32.268098° N LONG. 104.011471° W NAD83/86 CORNER COORDINATES TABLE (NAD 27) A - Y=461541.79, X=598383.67 B - Y=461537.13, X=601028.36 C - Y=456289.41, X=598487.65 D - Y=456270.49, X=601137.17 E - Y=450976.71, X=598518.17 F - Y=450962.21, X=601166.20 CB SE 5 32 FED COM 3 2H WELL X= 600,083' Y= 451,263' LAT. 32.240225° N LONG. 104.009632° W NAD 27 X= 641,267' Y= 451,322' LAT. 32.240347° N LONG. 104.010123° W NAD83/86 ELEV. +3015' NAVD 88	Final Last Take Point @ 19,887' MD 345.32' FNL, 1,242.50' FWL Sec. 32 T23S-R29E Mid Point @ 14,971.57' MD T24S-R29E Final First Take Point @ 9995' MD 351.30' FSL, 1,239.57' FWL Sec. 5 Kick Off Point @ 9439' MD 50.85' FSL, 1,280.22' FWL 1249' 183' 295' 1567'	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 10/9/2019 Laura Becerra Printed Name L.Becerra@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. 11/28/2017 Date of Survey Signature and Seal of Professional Surveyor:  Certificate Number 10/4/2019
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Chevron CB SE 5 32 FED COM 3 2H MWD to 20049ft Survey Geodetic

Report
(Def Survey)

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 21 2019

RECEIVED

Report Date: March 18, 2019 - 01:09 PM
Client: Chevron
Field: NM Eddy County (NAD 27)
Structure / Slot: Chevron CB SE 5 32 FED COM 3 Pad / 2H
Well: CB SE 5 32 FED COM 3 2H
Borehole: CB SE 5 32 FED COM 3 2H
UWI / API#: Unknown / Unknown
Survey Name: Chevron CB SE 5 32 FED COM 3 2H MWD to 20049ft
Survey Date: March 18, 2019
Tort / AHD / DDI / ERD Ratio: 250 849' / 10790.660 ft / 6.736' / 1.084
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 14' 24.807911", W 104° 0' 34.68017"
Location Grid N/E Y/X: N 451263.000 NUS, E 600083.000 NUS
CRS Grid Convergence Angle: 0.1727°
Grid Scale Factor: 0.99992056
Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 359.270° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: KB - 28.00 ft
TVD Reference Elevation: 3043.000 ft above MSL
Seabed / Ground Elevation: 3015.000 ft above MSL
Magnetic Declination: 7.042°
Total Gravity Field Strength: 998.4638mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47928.008 nT
Magnetic Dip Angle: 59.987°
Declination Date: March 18, 2019
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.1727°
Total Corr Mag North->Grid North: 6.8695°
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	451263.00	600083.00	N 32 14 24.81	W 104 0 34.66
Adjusted KB	28.00	0.00	0.00	28.00	0.00	0.00	0.00	0.00	451263.00	600083.00	N 32 14 24.81	W 104 0 34.66
First 3rd Party Survey	237.00	0.97	227.08	236.99	-1.19	-1.20	-1.30	0.46	451261.80	600081.70	N 32 14 24.80	W 104 0 34.70
Last 3rd Party Survey	405.00	1.67	272.37	404.95	-2.01	-2.07	-4.78	0.72	451260.93	600078.22	N 32 14 24.79	W 104 0 34.74
First SLB MWD Survey	506.00	0.28	348.13	505.93	-1.69	-1.77	-6.30	1.61	451261.23	600076.70	N 32 14 24.79	W 104 0 34.75
	690.00	2.05	244.27	689.89	-2.64	-2.76	-9.36	1.16	451260.24	600073.64	N 32 14 24.78	W 104 0 34.79
	782.00	4.92	234.49	781.72	-5.59	-5.76	-14.06	3.17	451257.24	600068.94	N 32 14 24.75	W 104 0 34.84
	873.00	5.31	233.00	872.35	-10.30	-10.57	-20.60	0.45	451252.44	600062.41	N 32 14 24.70	W 104 0 34.92
	965.00	8.53	235.76	963.67	-16.59	-16.97	-29.64	3.52	451246.03	600053.36	N 32 14 24.64	W 104 0 35.03
	1061.00	9.09	237.49	1058.54	-24.51	-25.05	-41.92	0.65	451237.95	600041.08	N 32 14 24.56	W 104 0 35.17
	1156.00	8.64	236.78	1152.40	-32.30	-32.99	-54.22	0.49	451230.01	600028.79	N 32 14 24.48	W 104 0 35.31
	1252.00	7.65	227.69	1247.44	-40.41	-41.24	-64.98	1.69	451221.76	600018.03	N 32 14 24.40	W 104 0 35.44
	1348.00	6.80	220.31	1342.68	-48.94	-49.88	-73.38	1.31	451213.12	600009.63	N 32 14 24.32	W 104 0 35.54
	1444.00	6.73	228.04	1438.01	-56.94	-57.98	-81.24	0.95	451205.03	600001.77	N 32 14 24.24	W 104 0 35.63
	1539.00	7.68	234.86	1532.26	-64.19	-65.35	-90.57	1.34	451197.65	599992.44	N 32 14 24.16	W 104 0 35.74
	1635.00	6.94	235.59	1627.48	-71.03	-72.32	-100.60	0.78	451190.68	599982.41	N 32 14 24.10	W 104 0 35.85
	1730.00	5.79	235.86	1721.89	-76.86	-78.25	-109.30	1.21	451184.75	599973.71	N 32 14 24.04	W 104 0 35.96
	1826.00	6.18	232.88	1817.37	-82.59	-84.09	-117.43	0.52	451178.92	599965.58	N 32 14 23.98	W 104 0 36.05
	1922.00	7.95	233.81	1912.64	-89.50	-91.13	-126.91	1.85	451171.88	599956.10	N 32 14 23.91	W 104 0 36.16
	2017.00	9.07	233.53	2006.59	-97.69	-99.46	-138.23	1.18	451163.55	599944.78	N 32 14 23.83	W 104 0 36.29
	2113.00	7.96	233.00	2101.53	-106.04	-107.96	-149.63	1.16	451155.05	599933.39	N 32 14 23.74	W 104 0 36.43
	2209.00	6.37	228.73	2196.78	-113.44	-115.47	-158.94	1.75	451147.54	599924.07	N 32 14 23.67	W 104 0 36.53
	2305.00	6.87	228.03	2292.14	-120.68	-122.82	-167.21	0.53	451140.19	599915.80	N 32 14 23.60	W 104 0 36.63
	2400.00	8.79	234.95	2386.25	-128.52	-130.79	-177.38	2.25	451132.22	599905.64	N 32 14 23.52	W 104 0 36.75
	2496.00	11.05	233.91	2480.81	-137.98	-140.43	-190.82	2.36	451122.59	599892.20	N 32 14 23.42	W 104 0 36.91
	2592.00	12.00	229.25	2574.87	-149.73	-152.36	-205.81	1.38	451110.65	599877.20	N 32 14 23.31	W 104 0 37.08
	2687.00	9.21	224.90	2668.24	-161.40	-164.19	-218.67	3.05	451098.82	599864.35	N 32 14 23.19	W 104 0 37.23
	2783.00	7.37	226.81	2763.24	-170.92	-173.85	-228.58	1.94	451089.16	599854.44	N 32 14 23.09	W 104 0 37.35
	2879.00	6.79	227.22	2858.50	-178.88	-181.92	-237.23	0.61	451081.09	599845.79	N 32 14 23.01	W 104 0 37.45
	2974.00	6.31	228.47	2952.88	-186.06	-189.20	-245.26	0.53	451073.82	599837.76	N 32 14 22.94	W 104 0 37.54
	3069.00	6.13	229.77	3047.32	-192.69	-195.93	-253.04	0.24	451067.08	599829.98	N 32 14 22.88	W 104 0 37.63
	3165.00	6.26	227.80	3142.76	-199.42	-202.76	-260.83	0.26	451060.26	599822.19	N 32 14 22.81	W 104 0 37.72
	3260.00	6.13	227.58	3237.21	-206.22	-209.66	-268.42	0.14	451053.36	599814.61	N 32 14 22.74	W 104 0 37.81
	3356.00	5.45	223.76	3332.72	-212.88	-216.41	-275.35	0.81	451046.61	599807.67	N 32 14 22.67	W 104 0 37.89
	3452.00	4.61	233.80	3428.35	-218.38	-221.98	-281.62	1.26	451041.04	599801.40	N 32 14 22.62	W 104 0 37.97
	3547.00	3.59	243.78	3523.11	-221.87	-225.55	-287.37	1.31	451037.47	599795.66	N 32 14 22.58	W 104 0 38.03
	3643.00	2.58	238.84	3618.97	-224.26	-228.00	-291.91	1.09	451035.02	599791.11	N 32 14 22.56	W 104 0 38.09
	3739.00	1.67	226.57	3714.90	-226.30	-230.08	-294.78	1.05	451032.94	599788.25	N 32 14 22.54	W 104 0 38.12
	3835.00	1.36	230.46	3810.87	-227.96	-231.76	-298.67	0.34	451031.26	599786.35	N 32 14 22.52	W 104 0 38.14
	3930.00	1.29	234.20	3905.84	-229.29	-233.11	-298.41	0.12	451029.91	599784.61	N 32 14 22.51	W 104 0 38.16
	4026.00	1.06	237.52	4001.82	-230.37	-234.22	-300.04	0.25	451028.80	599782.99	N 32 14 22.50	W 104 0 38.18
	4122.00	0.81	237.95	4097.81	-231.19	-235.05	-301.36	0.26	451027.97	599781.67	N 32 14 22.49	W 104 0 38.20
	4217.00	0.70	245.17	4192.80	-231.78	-235.65	-302.46	0.15	451027.37	599780.57	N 32 14 22.49	W 104 0 38.21
	4408.00	0.36	214.65	4383.79	-232.75	-236.64	-303.86	0.23	451026.38	599779.17	N 32 14 22.48	W 104 0 38.23
	4504.00	0.33	212.75	4479.79	-233.22	-237.12	-304.18	0.03	451025.90	599778.85	N 32 14 22.47	W 104 0 38.23
	4600.00	0.25	218.94	4575.79	-233.61	-237.51	-304.46	0.09	451025.51	599778.57	N 32 14 22.47	W 104 0 38.23
	4791.00	0.00	132.64	4766.79	-233.93	-237.84	-304.72	0.13	451025.18	599778.31	N 32 14 22.46	W 104 0 38.24
	4887.00	0.00	89.46	4862.79	-233.93	-237.84	-304.72	0.00	451025.18	599778.31	N 32 14 22.46	W 104 0 38.24
	4983.00	0.22	192.52	4958.79	-234.11	-238.02	-304.76	0.23	451025.00	599778.27	N 32 14 22.46	W 104 0 38.24
	5079.00	0.08	144.83	5054.79	-234.35	-238.25	-304.76	0.18	451024.77	599778.26	N 32 14 22.46	W 104 0 38.24
	5174.00	0.06	242.99	5149.79	-234.43	-238.33	-304.77	0.11	451024.69	599778.26	N 32 14 22.46	W 104 0 38.24
	5270.00	0.13	81.79	5245.79	-234.43	-238.33	-304.70	0.20	451024.68	599778.32	N 32 14 22.46	W 104 0 38.24
	5366.00	0.20	142.05	5341.79	-234.55	-238.45	-304.49	0.18	451024.57	599778.53	N 32 14 22.46	W 104 0 38.23
	5461.00	0.11	232.69	5436.79	-234.74	-238.64	-304.46	0.24	451024.38	599778.56	N 32 14 22.46	W 104 0 38.23
	5556.00	0.29	137.10	5531.79	-234.97	-238.87	-304.37	0.34	451024.15	599778.65	N 32 14 22.45	W 104 0 38.23
	5652.00	0.52	145.81	5627.78	-235.51	-239.41	-303.96	0.25	451023.61	599779.06	N 32 14 22.45	W 104 0 38.23
	5747.00	0.74	164.48	5722.78	-236.47	-240.35	-303.56	0.31	451022.66	599779.47	N 32 14 22.44	W 104 0 38.22
	5843.00	1.08	147.05	5818.77	-237.83	-241.71	-302.90	0.45	451021.31	599780.13	N 32 14 22.43	W 104 0 38.22
	5939.00	1.24	148.46	5914.75	-239.49	-243.36	-301.86	0.17	451019.66	599781.16	N 32 14 22.41	W 104 0 38.20
	6034.00	1.36	165.92	6009.72	-241.47	-245.33	-301.05	0.43	451017.69	599781.97	N 32 14 22.39	W 104 0 38.19
	6130.00	1.23	141.93	6105.70	-243.40	-247.24	-300.14	0.58	451015.78	599782.89	N 32 14 22.37	W 104 0 38.18
	6226.00	0.80	123.19	6201.68	-244.59	-248.42	-298.94	0.56	451014.60	599784.08	N 32 14 22.36	W 104 0 38.17
	6321.00	0.57	63.56	6296.68	-244.76	-248.57	-297.96	0.75	451014.45	599785.06	N 32 14 22.36	W 104 0 38.16
	6417.00	0.62	27.86	6392.67	-244.09	-247.90	-297.29	0.38	451015.12	599785.73	N 32 14 22.36	W 104 0 38.15
	6513.00	0.84	29.72	6488.66	-243.03	-246.83	-296.70	0.23	451016.19	599786.32	N 32 14 22.37	W 104 0 38.14
	6608.00	0.67	52.21	6583.66	-242.09	-245.88	-295.92	0.36	451017.14	599787.11	N 32 14 22.38	W 104 0 38.13
	6703.00	0.70	35.72	6678.65	-241.29	-245.07	-295.14	0.21	451017.95	599787.88	N 32 14 22.39	W 104 0 38.12
	6799.00	0.88	46.64	6774.64	-240.32	-244.09	-294.26	0.24	451018.93	599788.76	N 32 14 22.40	W 104 0 38.11
	6895.00	0.94	41.70	6870.63	-239.24	-243.00	-293.20	0.10	451020.02	599789.82	N 32 14 22.41	W 104 0 38.10
	6991.00	0.80	40.43	6966.62	-238.16	-241.90	-292.24	0.15	451021.12	599790.78	N 32 14 22.42	W 104 0 38.09
	7086.00	0.68	28.98	7061.61	-237.17	-240.90	-291.54	0.20	451022.12	599791.48	N 32 14 22.43	W 104 0 38.08
	7182.00	0.33	48.98	7157.61	-236.49	-240.22	-291.06	0.40	451022.80	599791.97	N 32 14 22.44	W 104 0 38.08
	7277.00	0.30										

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 ° ' ")
	7469.00	0.25	42.29	7444.60	-235.25	-238.97	-290.31	0.11	451024.05	599792.72	N 32 14 22.45	W 104 0 38.07
	7565.00	0.29	344.60	7540.60	-234.86	-238.58	-290.23	0.27	451024.44	599792.79	N 32 14 22.46	W 104 0 38.07
	7664.00	0.18	355.82	7639.60	-234.46	-238.18	-290.31	0.12	451024.84	599792.72	N 32 14 22.46	W 104 0 38.07
	7756.00	0.22	351.42	7731.60	-234.15	-237.86	-290.34	0.05	451025.16	599792.68	N 32 14 22.46	W 104 0 38.07
	7799.00	0.08	135.57	7774.60	-234.09	-237.80	-290.34	0.67	451025.22	599792.69	N 32 14 22.46	W 104 0 38.07
	7858.00	0.41	65.82	7833.60	-234.03	-237.75	-290.11	0.66	451025.27	599792.91	N 32 14 22.46	W 104 0 38.07
	7953.00	0.45	81.00	7928.60	-233.84	-237.55	-289.44	0.13	451025.47	599793.59	N 32 14 22.47	W 104 0 38.06
	8049.00	0.28	51.76	8024.59	-233.65	-237.35	-288.88	0.26	451025.67	599794.14	N 32 14 22.47	W 104 0 38.05
	8145.00	0.65	2.60	8120.59	-232.96	-236.66	-288.67	0.53	451026.36	599794.35	N 32 14 22.47	W 104 0 38.05
	8240.00	0.89	337.97	8215.58	-231.73	-235.43	-288.92	0.42	451027.59	599794.10	N 32 14 22.49	W 104 0 38.05
	8336.00	1.29	336.88	8311.57	-230.04	-233.75	-289.63	0.42	451029.27	599793.40	N 32 14 22.50	W 104 0 38.06
	8432.00	1.13	311.85	8407.54	-228.40	-232.12	-290.76	0.57	451030.90	599792.27	N 32 14 22.52	W 104 0 38.07
	8528.00	0.75	302.12	8503.53	-227.42	-231.16	-291.99	0.43	451031.86	599791.03	N 32 14 22.53	W 104 0 38.09
	8623.00	0.78	297.89	8598.52	-226.77	-230.52	-293.09	0.07	451032.49	599789.93	N 32 14 22.54	W 104 0 38.10
	8719.00	0.68	283.34	8694.52	-226.32	-230.09	-294.22	0.22	451032.93	599788.80	N 32 14 22.54	W 104 0 38.11
	8814.00	0.25	264.32	8789.51	-226.20	-229.98	-294.98	0.47	451033.04	599788.05	N 32 14 22.54	W 104 0 38.12
	8910.00	0.82	161.02	8885.51	-226.87	-230.65	-294.96	0.95	451033.27	599788.06	N 32 14 22.53	W 104 0 38.12
	9005.00	2.37	136.87	8980.47	-228.97	-232.72	-293.40	1.74	451030.29	599789.63	N 32 14 22.51	W 104 0 38.10
	9101.00	2.67	143.18	9076.38	-232.24	-235.96	-290.70	0.43	451027.06	599792.32	N 32 14 22.48	W 104 0 38.07
	9193.00	2.26	145.24	9168.29	-235.48	-239.17	-288.38	0.46	451023.85	599794.64	N 32 14 22.45	W 104 0 38.05
	9369.00	1.84	151.75	9344.18	-240.86	-244.51	-285.07	0.27	451018.51	599797.96	N 32 14 22.40	W 104 0 38.01
	9464.00	4.94	348.25	9439.09	-238.19	-241.84	-285.18	7.08	451021.17	599797.84	N 32 14 22.42	W 104 0 38.01
	9560.00	18.35	353.39	9532.90	-219.01	-222.70	-287.77	14.00	451040.32	599795.25	N 32 14 22.61	W 104 0 38.04
	9655.00	29.31	349.72	9619.67	-181.09	-184.85	-293.66	11.64	451078.17	599789.36	N 32 14 22.99	W 104 0 38.11
	9751.00	38.48	353.01	9699.28	-128.11	-131.96	-301.51	9.74	451131.05	599781.52	N 32 14 23.51	W 104 0 38.20
	9846.00	50.89	351.03	9766.69	-61.99	-65.96	-310.89	13.14	451197.05	599772.14	N 32 14 24.16	W 104 0 38.30
	9941.00	59.13	352.70	9821.13	15.12	11.02	-321.83	8.79	451274.02	599781.19	N 32 14 24.93	W 104 0 38.43
Heel HL Cross	9972.00	61.23	353.05	9836.54	41.85	37.71	-325.17	6.86	451300.71	599757.86	N 32 14 25.19	W 104 0 38.46
	10037.00	65.65	353.75	9865.59	99.67	95.45	-331.84	6.86	451358.44	599751.19	N 32 14 25.76	W 104 0 38.54
	10132.00	70.99	359.22	9900.70	187.78	183.50	-337.17	7.76	451446.48	599745.86	N 32 14 26.63	W 104 0 38.60
	10228.00	80.32	359.01	9924.46	280.68	276.39	-338.61	9.72	451539.37	599744.42	N 32 14 27.55	W 104 0 38.61
	10323.00	87.28	359.79	9934.71	375.07	370.77	-339.59	7.37	451633.74	599743.43	N 32 14 28.49	W 104 0 38.62
	10419.00	87.66	358.03	9938.95	470.97	466.66	-341.42	1.87	451729.62	599741.61	N 32 14 29.44	W 104 0 38.64
	10515.00	88.73	357.11	9941.97	566.87	562.52	-345.49	1.47	451825.47	599737.54	N 32 14 30.38	W 104 0 38.68
	10580.00	89.04	356.37	9943.24	631.80	627.40	-349.18	1.23	451890.35	599733.85	N 32 14 31.03	W 104 0 38.72
	10676.00	89.11	353.39	9944.79	727.75	723.32	-352.18	3.83	451986.27	599730.85	N 32 14 31.98	W 104 0 38.76
	10771.00	89.35	353.39	9946.07	822.65	818.26	-349.42	3.41	452081.20	599733.61	N 32 14 32.92	W 104 0 38.72
	10867.00	90.21	353.39	9946.43	918.40	914.09	-343.72	0.93	452177.02	599739.31	N 32 14 33.86	W 104 0 38.65
	10962.00	90.14	353.39	9946.14	1013.12	1008.90	-337.73	0.19	452271.82	599745.30	N 32 14 34.80	W 104 0 38.58
	11058.00	89.97	353.39	9946.05	1108.85	1104.71	-331.70	0.27	452367.62	599751.33	N 32 14 35.75	W 104 0 38.50
	11154.00	92.92	2.65	9943.63	1204.60	1200.53	-326.55	3.20	452463.44	599756.47	N 32 14 36.70	W 104 0 38.44
	11249.00	90.34	359.68	9940.93	1299.49	1295.46	-324.62	4.14	452568.35	599758.40	N 32 14 37.64	W 104 0 38.41
	11345.00	90.24	358.74	9940.44	1395.48	1391.44	-325.95	0.98	452654.33	599757.08	N 32 14 38.59	W 104 0 38.43
	11440.00	90.00	359.19	9940.24	1490.48	1486.43	-327.66	0.54	452749.31	599755.36	N 32 14 39.53	W 104 0 38.44
	11536.00	90.31	358.84	9939.98	1586.48	1582.41	-329.31	0.49	452845.29	599753.71	N 32 14 40.48	W 104 0 38.46
	11632.00	90.41	358.85	9939.38	1682.48	1678.39	-331.25	0.10	452941.26	599751.78	N 32 14 41.43	W 104 0 38.48
	11728.00	90.14	358.78	9938.46	1773.47	1769.35	-335.20	0.15	453037.20	599749.83	N 32 14 42.32	W 104 0 38.52
	11824.00	90.48	358.86	9937.43	2064.46	2060.31	-339.13	0.18	453132.20	599747.83	N 32 14 43.32	W 104 0 38.52
	11920.00	89.52	359.72	9937.43	2255.46	2251.29	-341.50	0.67	453223.14	599743.90	N 32 14 45.21	W 104 0 38.56
	12016.00	89.79	358.92	9938.58	2446.45	2442.27	-343.76	0.44	453314.10	599741.53	N 32 14 47.10	W 104 0 38.58
	12112.00	90.17	359.50	9938.61	2642.45	2638.26	-345.09	0.72	453405.07	599739.26	N 32 14 48.99	W 104 0 38.60
	12208.00	89.48	359.43	9938.91	2838.45	2834.26	-346.39	0.73	453496.04	599737.94	N 32 14 49.94	W 104 0 38.61
	12304.00	90.31	0.01	9939.08	3034.44	3030.25	-346.44	1.05	453587.03	599736.58	N 32 14 50.88	W 104 0 38.62
	12400.00	90.17	359.30	9938.28	3230.44	3226.25	-346.44	0.38	453678.01	599735.43	N 32 14 51.83	W 104 0 38.62
	12496.00	89.45	359.26	9938.60	3426.44	3422.25	-347.59	0.76	453769.00	599734.24	N 32 14 52.77	W 104 0 38.64
	12592.00	89.28	359.16	9939.66	3622.44	3618.25	-348.79	0.38	453860.00	599733.05	N 32 14 53.72	W 104 0 38.62
	12688.00	89.59	359.10	9941.54	3818.44	3814.25	-350.11	0.21	453951.00	599731.86	N 32 14 54.66	W 104 0 38.64
	12784.00	89.66	359.35	9942.17	4014.44	4010.25	-351.31	0.17	454042.00	599730.67	N 32 14 55.61	W 104 0 38.65
	12880.00	90.07	359.25	9942.40	4210.44	4206.25	-352.51	0.27	454133.00	599729.48	N 32 14 56.56	W 104 0 38.67
	12976.00	90.21	359.70	9942.16	4406.44	4402.25	-353.71	0.44	454224.00	599728.29	N 32 14 57.51	W 104 0 38.70
	13072.00	89.83	359.68	9942.13	4602.44	4598.25	-354.91	0.49	454315.00	599727.10	N 32 14 58.46	W 104 0 38.72
	13168.00	90.76	359.79	9941.63	4798.44	4794.25	-356.11	0.40	454406.00	599725.91	N 32 15 0.33	W 104 0 38.70
	13264.00	89.79	359.58	9940.72	4994.44	4990.25	-357.31	0.98	454497.00	599724.72	N 32 15 1.27	W 104 0 38.71
	13360.00	90.14	359.26	9939.80	5190.44	5186.25	-358.51	0.52	454588.00	599723.53	N 32 15 2.22	W 104 0 38.71
	13456.00	91.24	359.19	9938.14	5386.44	5382.25	-359.71	0.53	454679.00	599722.34	N 32 15 3.17	W 104 0 38.71
	13552.00	90.07	359.54	9937.04	5582.44	5578.25	-360.91	0.51	454770.00	599721.15	N 32 15 4.12	W 104 0 38.71
	13648.00	90.07	0.60	9936.93	5778.44	5774.25	-362.11	1.27	454861.00	599720.00	N 32 15 5.07	W 104 0 38.71
	13744.00	89.04	359.15	9937.67	5974.44	5970.25	-363.31	1.10	454952.00	599718.81	N 32 15 6.02	W 104 0 38.71
	13840.00	90.14	0.16	9938.35	6170.44	6166.25	-364.51	1.87	455043.00	599717.62	N 32 15 6.97	W 104 0 38.71
	13936.00	90.24	358.22	9937.72	6366.44	6362.25	-365.71	1.56	455134.00	599716.43	N 32 15 7.92	W 104 0 38.71
	14032.00	91.31	358.88	9936.42	6562.44	6558.25	-366.91	1.02	455225.00	599715.24	N 32 15 8.87	W 104 0 38.71
	14128.00	90.89	358.96	9934.60	6758.44	6754.25	-368.11	1.31	455316.00	599714.05	N 32 15 9.82	W 104 0 38.71
	14224.00	89.00	359.77	9934.78	6954.44	6950.25	-369.31	0.45	455407.00	599712.86	N 32 15 10.77	W 104 0 38.71
	14320.00	89.52	359.57	9936.02	7150.44	7146.25	-370.51	1.08	455498.00	599711.67	N 32 15 11.72	W 104 0 38.71
	14416.00	89.04	0.75	9938.42	7346.44	7342.25	-371.71	0.58	455589.00	599710.48	N 32 15 12.67	W 104 0 38.71
	14512.00	91.69	359.31	9937.20	7542.44	7538.25	-372.91	0.67	455680.00	599709.29	N 32 15 13.62	W 104 0 38.71
	14608.00	90.58	358.53	9935.30								

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 ° ' '')
	18510.00	90.31	358.09	9952.91	8559.45	8554.74	-423.88	0.44	459817.05	599659.16	N 32 15 49.47	W 104 0 39.32
	18701.00	89.69	357.81	9952.91	8750.40	8745.62	-430.71	0.36	460007.91	599652.33	N 32 15 51.36	W 104 0 39.39
	18892.00	90.03	358.14	9953.38	8941.35	8936.50	-437.46	0.25	460198.77	599645.58	N 32 15 53.25	W 104 0 39.46
	19083.00	89.97	357.94	9953.38	9132.30	9127.39	-443.99	0.11	460389.65	599639.05	N 32 15 55.14	W 104 0 39.53
	19179.00	90.41	358.06	9953.06	9228.28	9223.33	-447.34	0.48	460485.58	599635.70	N 32 15 56.09	W 104 0 39.57
	19275.00	90.34	358.26	9952.43	9324.26	9319.28	-450.42	0.22	460581.52	599632.61	N 32 15 57.04	W 104 0 39.60
	19370.00	89.76	358.20	9952.35	9419.24	9414.23	-453.36	0.61	460676.47	599629.68	N 32 15 57.98	W 104 0 39.63
	19561.00	90.45	0.98	9952.00	9610.22	9605.21	-454.72	1.50	460867.43	599628.31	N 32 15 59.87	W 104 0 39.64
	19753.00	90.14	0.65	9951.01	9802.15	9797.18	-451.99	0.24	461059.39	599631.05	N 32 16 1.77	W 104 0 39.60
Toe HL Cross	19905.00	90.11	1.05	9950.68	9954.09	9949.17	-449.74	0.26	461211.36	599633.30	N 32 16 3.27	W 104 0 39.57
Last SLB MWD Survey	19944.00	90.10	1.15	9950.61	9993.07	9988.16	-448.99	0.26	461250.35	599634.04	N 32 16 3.66	W 104 0 39.56
Projection to Bit	20049.00	90.10	1.15	9950.43	10098.01	10093.14	-446.88	0.00	461355.32	599636.15	N 32 16 4.70	W 104 0 39.53

Survey Type: Def Survey

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

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	28.000	1/98.425	30.000	30.000	A001Ma_MWD-Depth Only	CB SE 5 32 FED COM 3 2H /
	1	28.000	28.000	Act Stns	30.000	30.000	A001Ma_MWD-Depth Only	Chevron CB SE 5 32 FED COM 3
	1	28.000	405.000	Act Stns	30.000	30.000	A001Ma_MWD	CB SE 5 32 FED COM 3 2H /
	1	405.000	20049.000	Act Stns	30.000	30.000	B001Ma_MWD+HDGM	Chevron CB SE 5 32 FED COM 3
								CB SE 5 32 FED COM 3 2H /
								Chevron CB SE 5 32 FED COM 3

...CB SE 5 32 FED COM 3 2H\CB SE 5 32 FED COM 3 2H\Chevron CB SE 5 32 FED COM 3 2H MWD to 20049ft