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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 30-015-44976	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 3H
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	⁹ Elevation 3016'

¹⁰ Surface Location

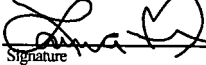
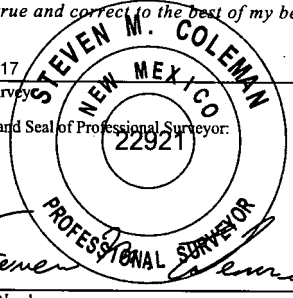
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	5	24 SOUTH	29 EAST, N.M.P.M.		295'	SOUTH	1592'	WEST	EDDY

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
C	32	23 SOUTH	29 EAST, N.M.P.M.		176'	NORTH	2439'	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= 600,838 Y= 461,206 LAT. 32.267551° N LONG. 104.007093° W NAD 27 X= 642,022 Y= 461,265 LAT. 32.267673° N LONG. 104.007584° W NAD83/86 MID POINT X= 600,671 Y= 456,274 LAT. 32.253994° N LONG. 104.007682° W NAD 27 X= 641,855 Y= 456,333 LAT. 32.254116° N LONG. 104.008172° W NAD83/86 FINAL FIRST TAKE POINT X= 600,873 Y= 451,349 LAT. 32.240454° N LONG. 104.007079° W NAD 27 X= 642,056 Y= 451,408 LAT. 32.240577° N LONG. 104.007569° W NAD83/86 KICK OFF POINT X= 600,859 Y= 451,013 LAT. 32.239531° N LONG. 104.007126° W NAD 27 X= 642,043 Y= 451,072 LAT. 32.239654° N LONG. 104.007616° W NAD83/86	ACTUAL BOTTOM HOLE LOCATION X= 600,827 Y= 461,362 LAT. 32.267978° N LONG. 104.007127° W NAD 27 X= 642,011 Y= 461,421 LAT. 32.268101° N LONG. 104.007619° 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 3H WELL X= 600,108 Y= 451,263 LAT. 32.240224° N LONG. 104.009551° W NAD 27 X= 641,292 Y= 451,322 LAT. 32.240347° N LONG. 104.010042° W NAD83/86 ELEV. +3016' NAVD 88	Final Last Take Point @ 20,144' MD 331.49' FNL, 2,447.41' FWL 196.95' FEL Lease And Closest to Lease Sec. 32 Mid Point @ 15,197.43' MD T23S-R29E T24S-R29E Sec. 5 Final First Take Point @ 10,236' MD 385.25' FSL, 2,356.45' FWL 291.56' FEL Lease Kick Off Point @ 9,558' MD 49.36' FSL, 2,340.89' FWL 306.92' FEL Lease	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 10/14/2019 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. 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 3H MWD to 20300ft Survey Geodetic Report (Def Survey)



Report Date: April 08, 2019 - 04:26 PM
 Client: Chevron
 Field: NM Eddy County (NAD 27)
 Structure / Slot: Chevron CB SE 5 32 FED COM 3 Pad / 3H
 Well: CB SE 5 32 FED COM 3 3H
 Borehole: CB SE 5 32 FED COM 3 3H
 UWI / API#: Unknown / Unknown
 Survey Name: Chevron CB SE 5 32 FED COM 3 3H MWD to 20300ft
 Survey Date: April 08, 2019
 Tort / AHD / DDI / ERD Ratio: 297.727' / 11249.074 ft / 6.828' / 1.114
 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 14' 24.80716", W 104° 0' 34.38909"
 Location Grid N/E Y/X: N 451263.000 NUS, E 600108.000 NUS
 CRS Grid Convergence Angle: 0.1727°
 Grid Scale Factor: 0.99992057
 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: 3044.000 ft above MSL
 Seabed / Ground Elevation: 3016.000 ft above MSL
 Magnetic Declination: 7.036°
 Total Gravity Field Strength: 998.4637 mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47921.779 nT
 Magnetic Dip Angle: 59.985°
 Declination Date: April 08, 2019
 Magnetic Declination Model: HDGM 2019
 North Reference: Grid North
 Grid Convergence Used: 0.1727°
 Total Corr Mag North->Grid North: 5.8634°
 Local Coord Referenced To: Well Head

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 21 2019

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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	451263.00	600108.00	N 32 14 24.81	W 104 0 34.39
Adjusted KB	28.00	0.00	0.00	28.00	0.00	0.00	0.00	0.00	451263.00	600108.00	N 32 14 24.81	W 104 0 34.39
First 3rd Party Survey	237.00	1.67	145.46	236.97	-2.53	-2.51	1.73	0.80	451260.49	600109.73	N 32 14 24.78	W 104 0 34.37
	327.00	0.62	49.83	326.96	-3.31	-3.28	2.84	2.04	451259.73	600110.84	N 32 14 24.77	W 104 0 34.36
Last 3rd Party Survey	387.00	2.73	212.43	386.94	-4.30	-4.27	2.32	5.54	451258.73	600110.32	N 32 14 24.76	W 104 0 34.36
First SLB MWD Survey	478.00	1.59	161.07	477.88	-7.32	-7.30	1.57	2.35	451255.70	600109.57	N 32 14 24.73	W 104 0 34.37
	540.00	2.75	129.68	539.84	-9.10	-9.06	3.00	2.61	451253.94	600111.00	N 32 14 24.72	W 104 0 34.35
	599.00	4.45	121.68	598.72	-11.24	-11.17	6.03	3.00	451251.84	600114.03	N 32 14 24.70	W 104 0 34.32
	691.00	5.02	118.76	690.40	-15.14	-14.98	12.60	0.67	451248.03	600120.60	N 32 14 24.66	W 104 0 34.24
	786.00	5.40	107.14	785.01	-18.55	-18.29	20.51	1.18	451244.71	600128.51	N 32 14 24.63	W 104 0 34.15
	876.00	6.68	93.88	874.52	-20.27	-19.90	29.58	2.09	451243.11	600137.78	N 32 14 24.61	W 104 0 34.04
	967.00	7.57	89.23	964.81	-20.69	-20.17	41.06	1.16	451242.83	600149.06	N 32 14 24.61	W 104 0 33.91
	1062.00	8.30	89.48	1058.90	-20.72	-20.03	54.17	0.77	451242.97	600162.17	N 32 14 24.58	W 104 0 33.76
	1158.00	9.48	94.44	1153.75	-21.45	-20.58	68.98	1.46	451242.43	600176.98	N 32 14 24.60	W 104 0 33.59
	1253.00	10.70	102.53	1247.28	-24.18	-23.10	85.39	1.97	451239.91	600193.39	N 32 14 24.58	W 104 0 33.40
	1349.00	10.88	106.45	1341.59	-28.90	-27.59	102.78	0.79	451235.41	600210.78	N 32 14 24.53	W 104 0 33.19
	1445.00	10.53	106.19	1435.92	-34.13	-32.61	119.90	0.37	451230.40	600227.89	N 32 14 24.48	W 104 0 32.99
	1540.00	10.40	105.17	1529.34	-39.01	-37.27	136.51	0.24	451225.73	600244.50	N 32 14 24.43	W 104 0 32.80
	1636.00	10.07	104.15	1623.81	-43.54	-41.59	153.01	0.39	451221.41	600261.00	N 32 14 24.39	W 104 0 32.61
	1731.00	11.60	105.08	1717.11	-48.27	-46.11	170.29	1.62	451216.90	600278.27	N 32 14 24.35	W 104 0 32.41
	1827.00	11.74	105.22	1811.13	-53.58	-51.18	189.03	0.15	451211.82	600297.02	N 32 14 24.30	W 104 0 32.19
	1922.00	11.79	103.99	1904.13	-58.71	-56.06	207.77	0.27	451206.94	600315.76	N 32 14 24.25	W 104 0 31.97
	2018.00	11.58	102.70	1998.14	-63.44	-60.55	226.69	0.35	451202.45	600334.67	N 32 14 24.20	W 104 0 31.75
	2114.00	12.28	107.39	2092.07	-68.85	-65.72	245.83	1.25	451197.28	600353.81	N 32 14 24.15	W 104 0 31.53
	2209.00	12.85	111.09	2184.80	-75.92	-72.54	265.33	1.04	451190.46	600373.31	N 32 14 24.08	W 104 0 31.30
	2305.00	12.72	111.73	2278.42	-83.92	-80.30	285.11	0.20	451182.71	600393.09	N 32 14 24.00	W 104 0 31.07
	2400.00	12.26	110.74	2371.17	-91.61	-87.74	304.26	0.53	451175.26	600412.23	N 32 14 23.93	W 104 0 30.85
	2496.00	12.27	110.66	2464.98	-99.06	-94.95	323.34	0.02	451168.06	600431.31	N 32 14 23.86	W 104 0 30.63
	2592.00	11.95	114.20	2558.84	-106.97	-102.62	341.95	0.84	451160.38	600449.92	N 32 14 23.77	W 104 0 30.41
	2687.00	11.22	112.54	2651.91	-114.77	-110.20	359.45	0.84	451152.81	600467.42	N 32 14 23.71	W 104 0 30.21
	2783.00	10.68	107.50	2746.16	-121.24	-116.45	376.56	1.14	451146.56	600484.53	N 32 14 23.64	W 104 0 30.01
	2879.00	10.12	101.73	2840.58	-125.85	-120.84	393.31	1.23	451142.17	600501.27	N 32 14 23.60	W 104 0 29.81
	2974.00	10.67	105.73	2934.03	-130.14	-124.93	409.94	0.95	451138.09	600517.91	N 32 14 23.56	W 104 0 29.62
	3069.00	11.03	108.84	3027.33	-135.67	-130.24	427.01	0.72	451132.77	600534.98	N 32 14 23.51	W 104 0 29.42
	3165.00	11.13	107.58	3121.54	-141.66	-136.01	444.54	0.27	451127.00	600552.50	N 32 14 23.38	W 104 0 29.22
	3261.00	11.05	106.38	3215.75	-147.28	-141.40	462.19	0.25	451121.61	600570.16	N 32 14 23.30	W 104 0 29.01
	3356.00	10.98	105.40	3309.00	-152.47	-146.37	479.65	0.21	451116.64	600587.61	N 32 14 23.24	W 104 0 28.81
	3452.00	10.91	104.90	3403.25	-157.46	-151.14	497.25	0.12	451111.88	600605.20	N 32 14 23.20	W 104 0 28.61
	3547.00	10.37	104.51	3496.62	-162.13	-155.59	514.21	0.57	451107.42	600622.17	N 32 14 23.25	W 104 0 28.41
	3643.00	10.69	108.04	3591.00	-167.26	-160.51	531.04	0.75	451102.50	600639.00	N 32 14 23.20	W 104 0 28.21
	3738.00	10.72	109.58	3684.35	-173.17	-166.20	547.74	0.30	451096.81	600655.70	N 32 14 23.15	W 104 0 28.02
	3834.00	10.03	108.52	3778.78	-179.02	-171.85	564.08	0.75	451091.17	600672.04	N 32 14 23.09	W 104 0 27.83
	3929.00	9.61	107.45	3872.39	-184.22	-176.85	579.49	0.48	451086.16	600687.45	N 32 14 23.04	W 104 0 27.65
	4025.00	10.60	108.13	3966.90	-189.58	-182.00	595.53	1.04	451081.01	600703.48	N 32 14 22.99	W 104 0 27.46
	4121.00	11.01	109.19	4061.19	-195.55	-187.77	612.58	0.47	451075.25	600720.53	N 32 14 22.93	W 104 0 27.26
	4216.00	10.80	108.66	4154.48	-201.60	-193.60	629.58	0.24	451069.42	600737.53	N 32 14 22.87	W 104 0 27.07
	4308.00	9.58	109.81	4343.45	-213.18	-204.77	661.65	0.64	451058.25	600769.60	N 32 14 22.76	W 104 0 26.69
	4403.00	9.17	108.10	4437.18	-216.40	-209.80	676.29	0.52	451053.22	600784.23	N 32 14 22.71	W 104 0 26.52
	4599.00	8.71	108.64	4532.01	-223.28	-214.50	690.44	0.49	451048.52	600798.39	N 32 14 22.66	W 104 0 26.36
	4695.00	8.36	108.47	4626.95	-227.98	-219.03	703.95	0.37	451043.99	600811.89	N 32 14 22.62	W 104 0 26.20
	4790.00	8.41	108.26	4720.93	-232.51	-223.40	717.10	0.06	451039.62	600825.04	N 32 14 22.58	W 104 0 26.05
	4886.00	7.29	105.94	4816.03	-236.55	-227.27	729.62	1.21	451035.75	600837.56	N 32 14 22.54	W 104 0 25.90
	4981.00	5.68	104.26	4910.42	-239.49	-230.08	739.98	1.71	451032.94	600847.92	N 32 14 22.51	W 104 0 25.78
	5077.00	5.23	103.33	5005.99	-241.78	-232.26	748.84	0.48	451030.76	600856.78	N 32 14 22.49	W 104 0 25.68
	5172.00	3.49	104.36	5100.71	-243.59	-233.98	755.85	1.83	451029.04	600863.79	N 32 14 22.47	W 104 0 25.60
	5268.00	1.87	102.49	5196.60	-244.71	-235.04	760.21	1.69	451027.98	600868.15	N 32 14 22.46	W 104 0 25.55
	5363.00	0.95	106.76	5291.57	-245.30	-235.60	762.48	0.97	451027.42	600870.42	N 32 14 22.45	W 104 0 25.52
	5459.00	0.81	115.22	5387.56	-245.83	-236.12	763.86	0.20	451026.90	600871.79	N 32 14 22.44	W 104 0 25.50
	5554.00	1.18	113.02	5482.54	-246.52	-236.79	765.36	0.39	451026.23	600873.30	N 32 14 22.44	W 104 0 25.49
	5650.00	1.19	112.78	5578.52	-247.32	-237.56	767.19	0.01	451025.46	600875.13	N 32 14 22.43	W 104 0 25.47
	5745.00	1.31	114.34	5673.50	-248.17	-238.39	769.09	0.13	451024.63	600877.03	N 32 14 22.43	W 104 0 25.44
	5841.00	1.32	116.76	5769.47	-249.15	-239.34	771.08	0.06	451023.68	600879.02	N 32 14 22.42	W 104 0 25.42
	5936.00	0.69	109.62	5864.46	-249.85	-240.03	772.59	0.67	451022.99	600880.53	N 32 14 22.41	W 104 0 25.40
	6032.00	0.55	95.10	5960.45	-250.10	-240.26	773.60	0.22	451022.76	600881.54	N 32 14 22.41	W 104 0 25.39
	6128.00	0.67	103.31	6056.45	-250.28	-240.43	774.60	0.15	451022.59	600882.54	N 32 14 22.40	W 104 0 25.38
	6223.00	0.51	48.45	6151.44	-250.14	-240.28	775.46	0.59	451022.74	600883.40	N 32 14 22.41	W 104 0 25.37
	6319.00	0.58	47.02	6247.44	-249.53	-239.66	776.14	0.07	451023.36	600884.07	N 32 14 22.41	W 104 0 25.36
	6414.00	0.28	67.38	6342.44	-249.12	-239.25	776.70	0.35	451023.77	600884.64	N 32 14 22.42	W 104 0 25.35
	6510.00	0.35	49.77	6438.44	-248.85	-238.97	777.14	0.12	451024.05	600885.08	N 32 14 22.42	W 104 0 25.35
	6605.00	0.38	98.26	6533.43	-248.71	-238.83	777.68	0.32	451024.19	600885.61	N 32 14 22.42	W 104 0 25.34
	6701.00	0.23	191.25	6629.43	-248.95	-239.06	777.95	0.47	451023.96	600885.89	N 32 14 22.42	W 104

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 ° ' '')
	7658.00	0.86	293.79	7586.20	-260.05	-250.34	763.19	0.30	451012.68	600871.12	N 32 14 22.31	W 104 0 25.51
	7753.00	0.61	290.32	7681.19	-259.56	-249.87	762.05	0.29	451013.15	600869.98	N 32 14 22.31	W 104 0 25.53
	7849.00	0.68	255.72	7777.18	-259.51	-249.84	761.01	0.41	451013.18	600868.95	N 32 14 22.31	W 104 0 25.54
	7945.00	0.63	251.11	7873.18	-259.81	-250.15	759.96	0.08	451012.87	600867.90	N 32 14 22.31	W 104 0 25.55
	8040.00	0.30	206.24	7968.17	-260.19	-250.54	759.36	0.49	451012.48	600867.30	N 32 14 22.31	W 104 0 25.56
	8136.00	0.39	247.02	8064.17	-260.54	-250.89	758.95	0.27	451012.13	600866.88	N 32 14 22.30	W 104 0 25.56
	8231.00	0.13	268.54	8159.17	-260.66	-251.02	758.54	0.29	451012.00	600866.44	N 32 14 22.30	W 104 0 25.57
	8327.00	0.23	21.41	8255.17	-260.49	-250.48	758.72	0.09	451012.18	600866.84	N 32 14 22.31	W 104 0 25.56
	8423.00	0.28	37.97	8351.17	-260.13	-250.17	758.91	0.14	451012.85	600866.84	N 32 14 22.31	W 104 0 25.56
	8518.00	0.16	20.12	8446.17	-259.82	-250.10	758.86	0.28	451012.92	600866.80	N 32 14 22.31	W 104 0 25.56
	8614.00	0.13	240.64	8542.17	-259.75	-250.03	758.69	0.22	451012.99	600866.61	N 32 14 22.31	W 104 0 25.57
	8709.00	0.18	323.93	8637.17	-259.68	-250.03	758.69	0.37	451013.00	600866.63	N 32 14 22.31	W 104 0 25.56
	8805.00	0.18	136.65	8733.17	-259.67	-250.02	758.69	0.33	451012.86	600866.58	N 32 14 22.31	W 104 0 25.57
	8901.00	0.18	257.14	8829.17	-259.81	-250.16	758.65	0.40	451012.51	600866.15	N 32 14 22.31	W 104 0 25.57
	8996.00	0.51	222.35	8924.17	-260.15	-250.51	758.22	0.57	451011.95	600865.13	N 32 14 22.30	W 104 0 25.58
	9092.00	0.93	251.55	9020.16	-260.70	-251.07	757.19	0.11	451011.52	600863.60	N 32 14 22.30	W 104 0 25.60
	9187.00	0.98	257.13	9115.15	-261.10	-251.50	755.67	0.16	451011.19	600862.13	N 32 14 22.29	W 104 0 25.62
	9283.00	0.83	257.34	9211.14	-261.42	-251.83	754.19	0.30	451010.82	600861.13	N 32 14 22.29	W 104 0 25.63
	9359.00	0.78	241.72	9287.13	-261.77	-252.20	753.19	0.41	451010.50	600859.44	N 32 14 22.29	W 104 0 25.65
	9479.00	0.93	273.49	9407.11	-262.08	-252.52	751.50	4.00	451013.78	600858.29	N 32 14 22.32	W 104 0 25.66
	9575.00	3.89	353.32	9503.03	-258.78	-249.24	750.35	8.69	451026.97	600857.76	N 32 14 22.45	W 104 0 25.67
	9670.00	12.12	359.14	9597.03	-245.58	-236.05	749.82	4.67	451050.77	600857.61	N 32 14 22.68	W 104 0 25.67
	9766.00	16.60	359.99	9690.01	-221.78	-212.24	749.67	13.23	451088.12	600857.87	N 32 14 23.05	W 104 0 25.66
	9862.00	29.30	0.64	9778.23	-184.43	-174.89	749.93	9.23	451141.35	600859.06	N 32 14 23.58	W 104 0 25.65
	9958.00	38.14	1.79	9858.00	-131.22	-121.66	751.12	8.42	451204.94	600861.80	N 32 14 24.21	W 104 0 25.61
Heel HL Cross	10053.00	46.09	3.05	9928.41	-67.67	-58.07	753.86	5.30	451276.68	600866.79	N 32 14 24.92	W 104 0 25.55
	10149.00	51.00	4.84	9991.95	4.01	13.68	758.85	11.84	451294.02	600868.21	N 32 14 25.09	W 104 0 25.54
	10171.00	53.59	4.54	10005.40	21.34	31.03	760.27	11.84	451356.64	600872.61	N 32 14 25.70	W 104 0 25.48
	10244.00	62.21	3.67	10044.16	82.90	92.65	764.67	10.39	451443.86	600877.96	N 32 14 26.57	W 104 0 25.42
	10340.00	72.18	3.28	10081.32	171.05	180.87	770.02	14.93	451536.86	600881.80	N 32 14 27.49	W 104 0 25.37
	10435.00	86.25	1.49	10099.05	264.00	273.88	773.86	5.63	451632.78	600881.54	N 32 14 28.44	W 104 0 25.40
	10531.00	90.55	358.21	10101.73	359.92	369.81	773.61	0.41	451728.71	600874.21	N 32 14 30.33	W 104 0 25.45
	10627.00	90.52	357.82	10100.84	455.89	465.74	770.28	1.45	451874.53	600871.52	N 32 14 30.84	W 104 0 25.48
	10722.00	90.24	357.34	10100.21	550.85	560.66	766.27	4.12	451969.10	600862.82	N 32 14 31.77	W 104 0 25.58
	10773.00	90.41	356.62	10099.92	601.81	611.58	763.58	4.32	452156.20	600825.56	N 32 14 33.62	W 104 0 25.00
	10868.00	91.51	352.86	10098.33	696.48	706.15	754.88	1.12	452248.82	600800.35	N 32 14 34.54	W 104 0 25.29
	11059.00	90.93	344.62	10094.25	884.06	893.27	717.62	0.18	452341.50	600775.37	N 32 14 35.46	W 104 0 25.58
	11155.00	89.90	344.92	10093.56	976.99	985.90	692.40	0.60	452433.34	600751.12	N 32 14 36.37	W 104 0 25.86
	11251.00	90.07	344.92	10093.58	1070.00	1078.59	667.43	2.41	452526.73	600728.94	N 32 14 37.29	W 104 0 27.11
	11346.00	90.03	345.49	10093.50	1162.15	1170.44	643.17	0.86	452619.72	600709.53	N 32 14 38.22	W 104 0 27.34
	11537.00	90.10	348.61	10093.39	1349.06	1356.83	601.58	0.64	452713.90	600690.97	N 32 14 39.15	W 104 0 27.55
	11633.00	89.73	349.10	10093.53	1443.47	1451.02	583.02	1.44	452808.36	600673.93	N 32 14 40.08	W 104 0 27.75
	11729.00	90.07	350.44	10093.70	1538.15	1545.49	565.97	2.54	452903.32	600659.91	N 32 14 41.02	W 104 0 27.91
	11825.00	90.79	352.77	10092.98	1633.29	1640.45	551.96	2.91	452997.78	600650.17	N 32 14 41.96	W 104 0 28.02
	11920.00	91.41	355.46	10091.16	1727.88	1734.93	542.22	3.03	453093.52	600643.36	N 32 14 42.91	W 104 0 28.09
	12016.00	88.66	356.40	10091.10	1823.70	1830.67	535.41	4.33	453188.43	600640.80	N 32 14 43.85	W 104 0 28.12
	12111.00	88.56	0.51	10093.40	1918.64	1925.59	532.85	2.25	453379.28	600646.72	N 32 14 45.73	W 104 0 28.04
	12302.00	92.03	3.04	10092.42	2109.42	2116.45	538.76	1.70	453475.15	600650.58	N 32 14 46.68	W 104 0 27.99
	12398.00	91.21	1.58	10089.71	2205.24	2212.33	542.63	1.14	453570.11	600652.68	N 32 14 47.62	W 104 0 27.97
	12493.00	90.38	0.95	10088.39	2300.17	2307.30	544.72	0.35	453666.08	600654.38	N 32 14 48.57	W 104 0 27.94
	12589.00	90.65	1.08	10087.52	2396.12	2403.28	546.42	0.15	453761.05	600656.21	N 32 14 49.51	W 104 0 27.92
	12684.00	90.52	1.13	10086.56	2491.07	2498.26	548.26	0.27	453857.03	600657.95	N 32 14 50.46	W 104 0 27.89
	12780.00	90.38	0.94	10085.80	2587.02	2594.24	549.99	0.15	454047.97	600661.61	N 32 14 52.35	W 104 0 27.84
	12971.00	90.31	1.26	10084.65	2777.92	2785.20	553.66	1.53	454142.92	600663.88	N 32 14 53.29	W 104 0 27.82
	13066.00	91.75	1.48	10082.94	2872.84	2880.15	555.93	1.90	454238.87	600666.04	N 32 14 54.24	W 104 0 27.79
	13162.00	89.97	1.09	10081.50	2968.76	2976.11	558.08	1.66	454334.83	600668.02	N 32 14 55.19	W 104 0 27.76
	13258.00	91.55	1.28	10080.23	3064.70	3072.08	560.07	1.22	454429.79	600669.23	N 32 14 56.13	W 104 0 27.74
	13353.00	91.17	0.18	10077.97	3159.64	3167.05	561.28	1.13	454525.75	600670.44	N 32 14 57.08	W 104 0 27.73
	13449.00	91.27	1.26	10075.93	3255.58	3263.02	562.48	1.24	454620.72	600671.96	N 32 14 58.02	W 104 0 27.70
	13544.00	90.31	0.58	10074.62	3350.53	3357.99	564.01	1.06	454716.70	600673.29	N 32 14 58.97	W 104 0 27.69
	13640.00	90.45	1.01	10073.98	3446.50	3453.98	565.34	0.47	454811.67	600675.40	N 32 14 59.91	W 104 0 27.66
	13735.00	89.59	1.53	10073.95	3541.44	3548.96	567.44	2.62	454907.61	600677.84	N 32 15 0.86	W 104 0 27.63
	13831.00	91.20	1.38	10072.53	3637.35	3644.91	569.88	0.52	455003.52	600680.25	N 32 15 1.81	W 104 0 27.59
	13927.00	91.62	1.50	10069.42	3733.23	3740.83	572.29	0.72	455194.41	600685.19	N 32 15 3.70	W 104 0 27.53
	14118.00	90.24	1.47	10066.32	3924.06	3931.73	577.24	2.02	455289.39	600686.22	N 32 15 4.64	W 104 0 27.51
	14213.00	91.13	359.77	10065.18	4019.02	4026.72	578.27	1.08	455384.34	600686.21	N 32 15 5.58	W 104 0 27.51
	14308.00	92.06	0.21	10062.54	4113.98	4121.68	578.25	0.71	455480.29	600686.22	N 32 15 6.52	W 104 0 27.51
	14404.00	91.51	359.81	10059.55	4209.92	4217.63	578.27	0.64	455576.25	600685.61	N 32 15 7.47	W 104 0 27.51
	14500.00	91.00	359.46	10057.45	4305.89	4313.60	577.66	0.15	455671.22	600684.68	N 32 15 8.41	W 104 0 27.52
	14595.00	91.14	359.42	10055.67	4400.88	4408.58	576.73	0.13	455767.19	600683.62	N 32 15 9.36	W 104 0 27.53
	14691.00	91.20	359.11	10053.71	4496.86	4504.56	575.67	0.27	455863.16	600682.30	N 32 15 10.31	W 104 0 27.54
	14787.00	91.03	359.11	10051.84	4592.84	4600.53	574.34	0.20	455958.12	600680.90	N 32 15 11.25	W 104 0 27.55
	14882.00	91.20	359.20	10050.00	4688.82	4695.50	572.94	1.22	456054.08	600678.99	N 32 15 12.20	W 104 0 27.57
	14978.00	90.24	358.53	10048.79	4783.81	4791.47	571.04	0.66	456244.94	600672.41	N 32 15 13.09	W 104 0 27.64
	15169.00	91.00	357.52	10046.72	4974.75	4982.35	569.45	1.70	456339.79	600667.38	N 32 15 14.03	W 104 0 27.70
	15264.00	89.83	356.41	10046.03	5069.87	5077.21	567.43	0.70	456435.43	600661.80	N 32 15 15.98	W 104 0 27.76
	15360.00	90.27	356.									

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft/s)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	18895.00	90.03	9.09	10059.75	8693.57	8701.91	598.93	1.83	459964.20	600706.88	N 32 15 50.90	W 104 0 27.11
	18991.00	89.35	8.24	10060.26	8788.28	8796.81	613.39	1.13	460059.09	600721.34	N 32 15 51.84	W 104 0 26.94
	19086.00	89.42	8.41	10061.28	8862.09	8890.80	627.15	0.19	460153.08	600735.09	N 32 15 52.77	W 104 0 26.77
	19182.00	89.72	7.77	10062.00	8976.95	8985.84	640.66	0.74	460248.11	600748.60	N 32 15 53.71	W 104 0 26.61
	19278.00	91.10	7.85	10061.32	9071.88	9080.95	653.70	1.44	460343.21	600761.65	N 32 15 54.65	W 104 0 26.46
	19373.00	88.52	6.06	10061.63	9166.02	9175.24	665.20	3.31	460437.49	600773.15	N 32 15 55.58	W 104 0 26.32
	19469.00	88.69	4.86	10063.97	9261.43	9270.77	674.33	1.26	460533.02	600782.28	N 32 15 56.52	W 104 0 26.21
	19564.00	90.24	3.79	10064.86	9356.05	9451.69	681.50	1.98	460627.73	600789.44	N 32 15 57.46	W 104 0 26.12
	19660.00	89.83	4.58	10064.80	9451.69	9461.23	688.50	0.93	460723.46	600796.45	N 32 15 58.41	W 104 0 26.04
	19851.00	89.97	8.19	10065.13	9641.19	9651.02	709.74	1.89	460913.23	600817.68	N 32 16 0.29	W 104 0 25.78
	19947.00	90.14	6.29	10065.04	9736.26	9746.25	721.84	1.99	461008.45	600829.78	N 32 16 1.23	W 104 0 25.64
	19992.00	89.97	4.67	10065.00	9780.99	9791.04	726.14	3.62	461053.24	600834.08	N 32 16 1.67	W 104 0 25.59
	20042.00	90.48	2.12	10064.80	9830.86	9840.95	729.10	5.20	461103.15	600837.04	N 32 16 2.17	W 104 0 25.55
	20090.00	91.20	0.84	10064.10	9878.82	9888.93	730.34	3.06	461151.12	600838.28	N 32 16 2.64	W 104 0 25.54
	20138.00	92.20	358.86	10062.67	9926.79	9936.90	730.21	4.62	461199.09	600838.15	N 32 16 3.11	W 104 0 25.54
Toe HL Cross	20150.00	91.85	358.32	10062.25	9938.78	9948.89	729.92	5.36	461211.08	600837.86	N 32 16 3.23	W 104 0 25.54
	20233.00	89.41	354.60	10061.34	10021.66	10031.71	724.79	1.16	461293.89	600832.73	N 32 16 4.05	W 104 0 25.60
Last SLB MWD Survey	20259.00	89.45	354.90	10061.60	10047.58	10057.60	722.41	0.00	461319.78	600830.36	N 32 16 4.31	W 104 0 25.62
Projection to Bit	20300.00	89.45	354.90	10061.99	10088.45	10098.43	718.77	0.00	461360.61	600826.71	N 32 16 4.71	W 104 0 25.66

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	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 3H / Chevron CB SE 5 32 FED COM 3
	1	28.000	28.000	Act Stns	30.000	30.000	A001Ma_MWD-Depth Only	CB SE 5 32 FED COM 3 3H / Chevron CB SE 5 32 FED COM 3
	1	28.000	387.000	Act Stns	30.000	30.000	A001Ma_MWD	CB SE 5 32 FED COM 3 3H / Chevron CB SE 5 32 FED COM 3
	1	387.000	20300.000	Act Stns	30.000	30.000	B001Ma_MWD+HDGM	CB SE 5 32 FED COM 3 3H / Chevron CB SE 5 32 FED COM 3

...CB SE 5 32 FED COM 3 3H/CB SE 5 32 FED COM 3 3H/Chevron CB SE 5 32 FED COM 3 3H MWD to 20300ft