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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

NMOCD - REC'D 11/09/2020
COPY W/SURVEY
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
AS DRILLED PLAT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45835	² Pool Code 98056	³ Pool Name WC-015 G-04 S232628M; BONE SPRING
⁴ Property Code 325336	⁵ Property Name BODACIOUS 5-32 FED COM 3BS	⁶ Well Number 4H
⁷ OGRID No. 372137	⁸ Operator Name CHISHOLM ENERGY OPERATING, LLC	⁹ Elevation 3364

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
O	5	23S	26E		230	SOUTH	1780	EAST	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
A	32	22S	26E		100	NORTH	403	EAST	EDDY

¹² Dedicated Acres 320.889	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.

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.

Jennifer Elrod 07/23/2020
Signature Date

JENNIFER ELROD
Printed Name

JELROD@CHISHOLMENERGY.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.

Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number

Intent ☐ As Drilled ☒

API # 30-015-45835		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

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 # 30-015-45836		
Operator Name: CHISHOLM ENERGY OPERATING, LLC	Property Name: BODACIOUS 5-32 FEDERAL COM 2BS	Well Number 5H

KZ 06/29/2018

Chisholm Bodacious 5-32 Fed Com 3BS 4H MWD Surveys 0ft to 19129ft MD Survey Geodetic Report (Def Survey)

Report Date: February 05, 2020 - 01:52 PM
Client: Chisholm
Field: NM Eddy County (NAD 83)
Structure / Slot: Chisholm Bodacious 5-32 Fed Com 3BS 4H / Slot of Bodacious 5-32 Fed Com 3BS 4H
Well: Bodacious 5-32 Fed Com 3BS 4H
Borehole: Bodacious 5-32 Fed Com 3BS 4H
UWI / API#: Unknown / Unknown
Survey Name: Chisholm Bodacious 5-32 Fed Com 3BS 4H MWD Surveys 0ft to 19129ft MD
Survey Date: January 07, 2020
Tort / AHD / DDI / ERD Ratio: 345.987 ° / 11524.607 ft / 6.951 / 1.349
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 19' 37.07441", W 104° 18' 46.15153"
Location Grid N/E Y/X: N 482682.680 ftUS, E 547673.760 ftUS
CRS Grid Convergence Angle: 0.0110 °
Grid Scale Factor: 0.99990914
Version / Patch: 2.10.787.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 0.530 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3396.000 ft above MSL
Seabed / Ground Elevation: 3364.000 ft above MSL
Magnetic Declination: 7.220 °
Total Gravity Field Strength: 998.4667mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47802.671 nT
Magnetic Dip Angle: 59.943 °
Declination Date: January 11, 2020
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.0110 °
Total Corr Mag North->Grid North: 7.2089 °
Local Coord Referenced To: Well Head

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 ° ' ")
SHL	0.00	0.00	104.50	0.00	0.00	0.00	0.00	N/A	482682.68	547673.76	N 32 19 37.07	W 104 18 46.15
First SLB MWD Survey	281.00	1.42	48.89	280.97	2.31	2.29	2.62	0.51	482684.97	547676.38	N 32 19 37.10	W 104 18 46.12
	391.00	1.86	53.40	390.93	4.30	4.25	5.08	0.42	482686.93	547678.84	N 32 19 37.12	W 104 18 46.09
	532.00	2.53	44.43	531.82	7.92	7.84	9.10	0.53	482690.52	547682.86	N 32 19 37.15	W 104 18 46.05
	627.00	3.87	83.43	626.68	9.83	9.70	13.75	2.61	482692.38	547687.51	N 32 19 37.17	W 104 18 45.99
	721.00	4.00	100.56	720.46	9.65	9.46	20.13	1.25	482692.14	547693.89	N 32 19 37.17	W 104 18 45.92
	805.00	3.82	112.78	804.27	8.08	7.84	25.59	1.01	482690.52	547699.34	N 32 19 37.15	W 104 18 45.85
	900.00	4.07	119.82	899.05	5.23	4.94	31.43	0.57	482687.62	547705.19	N 32 19 37.12	W 104 18 45.79
	994.00	4.73	122.54	992.77	1.55	1.20	37.59	0.74	482683.88	547711.35	N 32 19 37.09	W 104 18 45.71
	1088.00	5.70	127.92	1086.38	-3.34	-3.76	44.54	1.15	482678.92	547718.30	N 32 19 37.04	W 104 18 45.63
	1181.00	5.05	113.99	1178.97	-7.78	-8.26	51.92	1.56	482674.42	547725.68	N 32 19 36.99	W 104 18 45.55
	1276.00	4.24	104.07	1273.66	-10.27	-10.81	59.15	1.20	482671.87	547732.91	N 32 19 36.97	W 104 18 45.46
	1371.00	4.04	101.06	1368.41	-11.70	-12.31	65.84	0.31	482670.37	547739.60	N 32 19 36.95	W 104 18 45.38
	1466.00	3.86	99.34	1463.19	-12.80	-13.47	72.28	0.23	482669.21	547746.04	N 32 19 36.94	W 104 18 45.31
	1560.00	3.74	100.36	1556.98	-13.81	-14.53	78.42	0.15	482668.15	547752.17	N 32 19 36.93	W 104 18 45.24
	1655.00	3.45	101.14	1651.79	-14.86	-15.64	84.27	0.31	482667.04	547758.02	N 32 19 36.92	W 104 18 45.17
	1750.00	3.42	100.72	1746.62	-15.89	-16.72	89.86	0.04	482665.96	547763.61	N 32 19 36.91	W 104 18 45.10
	1844.00	3.33	100.14	1840.46	-16.84	-17.73	95.30	0.10	482664.96	547769.05	N 32 19 36.90	W 104 18 45.04
	1867.00	3.22	98.72	1863.42	-17.05	-17.94	96.60	0.59	482664.74	547770.35	N 32 19 36.90	W 104 18 45.03
	2006.00	3.46	99.49	2002.19	-18.26	-19.22	104.59	0.18	482663.46	547778.35	N 32 19 36.88	W 104 18 44.93
	2101.00	5.05	116.00	2096.93	-20.50	-21.53	111.18	2.10	482661.15	547784.93	N 32 19 36.86	W 104 18 44.86
	2196.00	5.50	124.61	2191.52	-24.85	-25.95	118.69	0.96	482656.73	547792.44	N 32 19 36.82	W 104 18 44.77
	2291.00	5.00	124.87	2286.13	-29.74	-30.90	125.83	0.53	482651.78	547799.58	N 32 19 36.77	W 104 18 44.69
	2385.00	6.92	113.81	2379.62	-34.29	-35.53	134.37	2.37	482647.15	547808.12	N 32 19 36.72	W 104 18 44.59
	2480.00	6.89	117.11	2473.93	-39.10	-40.44	144.68	0.42	482642.25	547818.43	N 32 19 36.67	W 104 18 44.47
	2575.00	6.32	121.04	2568.30	-44.30	-45.73	154.23	0.77	482636.95	547827.98	N 32 19 36.62	W 104 18 44.35
	2670.00	5.80	100.33	2662.78	-47.77	-49.29	163.44	2.35	482633.40	547837.18	N 32 19 36.59	W 104 18 44.25
	2765.00	5.26	97.99	2757.33	-49.16	-50.75	172.47	0.62	482631.93	547846.22	N 32 19 36.57	W 104 18 44.14
	2858.00	5.29	97.17	2849.94	-50.21	-51.88	180.95	0.09	482630.80	547854.69	N 32 19 36.56	W 104 18 44.04
	2953.00	5.22	95.40	2944.54	-51.08	-52.83	189.59	0.19	482629.85	547863.34	N 32 19 36.55	W 104 18 43.94
	3047.00	4.79	94.95	3038.18	-51.74	-53.58	197.76	0.46	482629.11	547871.50	N 32 19 36.54	W 104 18 43.85
	3142.00	5.79	107.51	3132.78	-53.45	-55.36	206.28	1.60	482627.33	547880.02	N 32 19 36.53	W 104 18 43.75
	3237.00	5.94	114.18	3227.28	-56.82	-58.82	215.34	0.73	482623.87	547889.08	N 32 19 36.49	W 104 18 43.64
	3331.00	5.64	109.29	3320.80	-60.26	-62.33	224.13	0.61	482620.35	547897.87	N 32 19 36.46	W 104 18 43.54
	3426.00	4.95	108.94	3415.40	-63.05	-65.21	232.42	0.73	482617.48	547906.16	N 32 19 36.43	W 104 18 43.44
	3521.00	5.19	102.54	3510.03	-65.24	-67.47	240.49	0.65	482615.22	547914.23	N 32 19 36.41	W 104 18 43.35
	3616.00	5.21	103.32	3604.64	-67.09	-69.40	248.88	0.08	482613.29	547922.62	N 32 19 36.39	W 104 18 43.25
	3711.00	4.51	106.26	3699.30	-69.06	-71.44	256.66	0.78	482611.25	547930.40	N 32 19 36.37	W 104 18 43.16
	3806.00	6.89	105.53	3793.82	-71.55	-74.01	265.74	2.51	482608.68	547939.48	N 32 19 36.34	W 104 18 43.05
	3900.00	7.61	101.22	3887.07	-74.16	-76.73	277.28	0.96	482605.96	547951.01	N 32 19 36.31	W 104 18 42.92
	3995.00	6.78	99.53	3981.32	-76.20	-78.88	288.98	0.90	482603.81	547962.71	N 32 19 36.29	W 104 18 42.78
	4090.00	6.06	99.90	4075.72	-77.90	-80.67	299.45	0.76	482602.02	547973.18	N 32 19 36.28	W 104 18 42.66
	4183.00	5.53	102.14	4168.25	-79.60	-82.46	308.67	0.62	482600.23	547982.40	N 32 19 36.26	W 104 18 42.55
	4278.00	6.80	99.50	4262.70	-81.40	-84.35	318.69	1.37	482598.34	547992.42	N 32 19 36.24	W 104 18 42.44
	4371.00	7.49	98.86	4354.97	-83.13	-86.19	330.11	0.75	482596.50	548003.84	N 32 19 36.22	W 104 18 42.30
	4466.00	7.00	98.50	4449.21	-84.83	-88.00	341.95	0.52	482594.69	548015.68	N 32 19 36.20	W 104 18 42.17
	4559.00	6.17	98.38	4541.60	-86.30	-89.57	352.50	0.89	482593.12	548026.23	N 32 19 36.19	W 104 18 42.04
	4654.00	5.81	95.33	4636.08	-87.40	-90.76	362.34	0.51	482591.93	548036.07	N 32 19 36.18	W 104 18 41.93
	4748.00	6.79	102.35	4729.51	-88.94	-92.39	372.51	1.32	482590.30	548046.23	N 32 19 36.16	W 104 18 41.81
	4843.00	8.07	100.22	4823.71	-91.21	-94.77	384.55	1.38	482587.92	548058.28	N 32 19 36.14	W 104 18 41.67
	4938.00	7.55	98.23	4917.83	-93.17	-96.85	397.29	0.62	482585.84	548071.02	N 32 19 36.12	W 104 18 41.52
	5032.00	6.88	96.00	5011.09	-94.53	-98.32	409.00	0.77	482584.37	548082.73	N 32 19 36.10	W 104 18 41.39
	5127.00	5.64	94.28	5105.52	-95.38	-99.26	419.32	1.32	482583.43	548093.04	N 32 19 36.09	W 104 18 41.27
	5221.00	4.82	90.27	5199.13	-95.66	-99.63	427.87	0.95	482583.06	548101.59	N 32 19 36.09	W 104 18 41.17
	5315.00	4.94	109.33	5292.79	-96.95	-100.99	435.64	1.72	482581.70	548109.36	N 32 19 36.07	W 104 18 41.07
	5410.00	5.75	107.64	5387.38	-99.67	-103.78	444.04	0.87	482578.91	548117.76	N 32 19 36.05	W 104 18 40.98
	5503.00	6.71	107.66	5479.83	-102.64	-106.84	453.66	1.03	482575.85	548127.37	N 32 19 36.02	W 104 18 40.86
	5599.00	5.60	109.17	5575.27	-105.79	-110.08	463.42	1.17	482572.61	548137.14	N 32 19 35.98	W 104 18 40.75
	5692.00	5.12	106.13	5667.87	-108.36	-112.72	471.70	0.60	482569.97	548145.41	N 32 19 35.96	W 104 18 40.65
	5787.00	4.04	99.23	5762.56	-110.00	-114.44	479.07	1.27	482568.25	548152.79	N 32 19 35.94	W 104 18 40.57
	5882.00	6.61	102.66	5857.15	-111.66	-116.17	487.71	2.72	482566.52	548161.43	N 32 19 35.92	W 104 18 40.47
	5976.00	7.09	104.51	5950.47	-114.20	-118.81	498.61	0.56	482563.88	548172.32	N 32 19 35.90	W 104 18 40.34
	6070.00	6.08	103.15	6043.85	-116.69	-121.40	509.07	1.09	482561.29	548182.78	N 32 19 35.87	W 104 18 40.22
	6165.00	5.22	101.02	6138.39	-118.57	-123.37	518.21	0.93	482559.32	548191.92	N 32 19 35.85	W 104 18 40.11
	6260.00	4.79	99.34	6233.03	-119.97	-124.84	526.37	0.48	482557.85	548200.08	N 32 19 35.84	W 104 18 40.02
	6355.00	3.62	86.56	6327.77	-120.37	-125.30	533.28	1.57	482557.39	548206.99	N 32 19 35.83	W 104 18 39.94
	6451.00	4.85	113.86	6423.52	-121.76	-126.76	540.01	2.42	482555.93	548213.72	N 32 19 35.82	W 104 18 39.86
	6546.00	6.11	115.60	6518.08	-125.50	-130.57	548.25	1.34	482552.12	548221.95	N 32 19 35.78	W 104 18 39.76
	6640.00	5.15	111.42	6611.63	-129.12	-134.28	556.68	1.11	482548.42	548230.39	N 32 19 35.74	W 104 18 39.66
	6735.00	5.59	112.14	6706.21	-132.34	-137.58	564.94	0.47	482545.12	548238.65	N 32 19 35.71	W 104 18 39.57
	6830.00	5.89	111.20	6800.74	-135.77	-141.08	573.77	0.33	482541.61	548247.48	N 32 19 35.68	W 104 18 39.47
	6924.00	3.92	102.24	6894.39	-138.12	-143.51	581.41	2.24	482539.19	548255.11	N 32 19 35.65	W 104 18 39.38
	7019.00	5.82	110.26	6989.04	-140.41	-145.86	589.10	2.12	482536.83	548262.81	N 32 19 35	

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 ° ' ")
	7398.00	5.55	109.40	7366.47	-153.30	-159.04	620.72	0.50	482523.65	548294.42	N 32 19 35.50 W	104 18 38.92
	7493.00	5.37	117.89	7461.04	-156.82	-162.65	628.98	0.87	482520.05	548302.68	N 32 19 35.46 W	104 18 38.82
	7588.00	7.29	106.40	7555.46	-160.52	-166.43	638.69	2.41	482516.26	548312.39	N 32 19 35.43 W	104 18 38.71
	7683.00	4.96	79.14	7649.93	-161.35	-167.36	648.51	3.86	482515.34	548322.21	N 32 19 35.42 W	104 18 38.59
	7778.00	3.51	71.46	7744.67	-159.59	-165.66	655.30	1.64	482517.03	548329.00	N 32 19 35.43 W	104 18 38.52
	7867.00	3.80	79.96	7833.49	-158.16	-164.28	660.79	0.69	482518.41	548334.49	N 32 19 35.45 W	104 18 38.45
	7920.00	3.76	70.86	7886.37	-157.25	-163.40	664.16	1.13	482519.29	548337.86	N 32 19 35.46 W	104 18 38.41
	7951.00	4.31	68.13	7917.30	-156.47	-162.64	666.20	1.88	482520.06	548339.90	N 32 19 35.46 W	104 18 38.39
	7983.00	4.77	63.01	7949.20	-155.40	-161.59	668.50	1.91	482521.11	548342.20	N 32 19 35.47 W	104 18 38.36
	8014.00	6.80	45.56	7980.04	-153.50	-159.72	670.96	8.59	482522.98	548344.66	N 32 19 35.49 W	104 18 38.33
	8046.00	8.63	39.28	8011.75	-150.29	-156.53	673.84	6.29	482526.16	548347.53	N 32 19 35.52 W	104 18 38.30
	8078.00	11.13	31.80	8043.27	-145.78	-152.05	676.99	8.77	482530.65	548350.68	N 32 19 35.57 W	104 18 38.26
	8109.00	13.87	30.36	8073.54	-140.00	-146.30	680.44	8.90	482536.40	548354.14	N 32 19 35.63 W	104 18 38.22
	8140.00	16.87	29.98	8103.42	-132.85	-139.19	684.57	9.68	482543.50	548358.26	N 32 19 35.70 W	104 18 38.17
HL Crossing	8167.13	19.45	30.47	8129.20	-125.51	-131.89	688.82	9.52	482550.80	548362.52	N 32 19 35.77 W	104 18 38.12
	8172.00	19.91	30.54	8133.79	-124.09	-130.48	689.66	9.52	482552.22	548363.35	N 32 19 35.78 W	104 18 38.11
	8202.00	23.00	31.14	8161.70	-114.62	-121.06	695.29	10.33	482561.63	548368.98	N 32 19 35.88 W	104 18 38.05
	8234.00	25.72	32.98	8190.85	-103.38	-109.88	702.30	8.82	482572.81	548375.99	N 32 19 35.99 W	104 18 37.97
	8265.00	29.02	33.49	8218.38	-91.39	-97.96	710.11	10.67	482584.73	548383.81	N 32 19 36.10 W	104 18 37.88
	8296.00	32.14	32.53	8245.06	-78.08	-84.74	718.70	10.19	482597.95	548392.39	N 32 19 36.23 W	104 18 37.78
	8328.00	35.60	30.19	8271.63	-62.77	-69.50	727.96	11.55	482613.18	548401.65	N 32 19 36.39 W	104 18 37.67
	8359.00	38.93	28.12	8296.30	-46.29	-53.11	737.09	11.48	482629.58	548410.78	N 32 19 36.55 W	104 18 37.56
	8391.00	41.00	26.40	8320.82	-27.93	-34.84	746.50	7.33	482647.85	548420.19	N 32 19 36.73 W	104 18 37.45
	8423.00	44.03	26.04	8344.41	-8.44	-15.44	756.05	9.50	482667.24	548429.74	N 32 19 36.92 W	104 18 37.34
	8454.00	46.62	25.99	8366.20	11.45	4.37	765.72	8.36	482687.05	548439.41	N 32 19 37.12 W	104 18 37.23
	8486.00	49.55	25.27	8387.58	33.02	25.84	776.01	9.31	482708.52	548449.70	N 32 19 37.33 W	104 18 37.11
	8518.00	51.80	25.20	8407.85	55.50	48.23	786.57	7.03	482730.90	548460.25	N 32 19 37.55 W	104 18 36.98
	8549.00	54.41	25.42	8426.46	78.01	70.64	797.17	8.44	482753.31	548470.85	N 32 19 37.77 W	104 18 36.86
	8581.00	56.50	25.18	8444.61	101.94	94.47	808.43	6.56	482777.14	548482.11	N 32 19 38.01 W	104 18 36.73
	8612.00	59.57	25.82	8461.02	125.78	118.20	819.75	10.06	482800.87	548493.44	N 32 19 38.24 W	104 18 36.60
	8644.00	62.38	26.41	8476.54	151.01	143.32	832.07	8.93	482825.99	548505.75	N 32 19 38.49 W	104 18 36.45
	8676.00	65.80	26.25	8490.52	176.92	169.12	844.83	10.70	482851.78	548518.51	N 32 19 38.75 W	104 18 36.31
	8708.00	69.43	26.70	8502.71	203.52	195.60	858.02	11.42	482878.26	548531.70	N 32 19 39.01 W	104 18 36.15
	8739.00	72.94	27.44	8512.70	229.77	221.72	871.38	11.55	482904.38	548545.06	N 32 19 39.27 W	104 18 36.00
	8771.00	76.07	28.36	8521.25	257.15	248.97	885.81	10.17	482931.62	548559.48	N 32 19 39.54 W	104 18 35.83
	8803.00	80.02	28.89	8527.88	284.76	276.44	900.80	12.45	482959.10	548574.48	N 32 19 39.81 W	104 18 35.65
	8834.00	83.31	29.03	8532.37	311.73	303.27	915.65	10.62	482985.93	548589.33	N 32 19 40.07 W	104 18 35.48
	8865.00	86.07	29.74	8535.24	338.76	330.17	930.80	9.19	483012.82	548604.47	N 32 19 40.34 W	104 18 35.30
	8897.00	87.59	29.97	8537.01	366.62	357.88	946.70	4.80	483040.52	548620.37	N 32 19 40.61 W	104 18 35.12
	8929.00	87.87	30.02	8538.28	394.46	385.57	962.69	0.89	483068.21	548636.36	N 32 19 40.89 W	104 18 34.93
	8960.00	88.21	29.93	8539.34	421.44	412.41	978.16	1.13	483095.05	548651.83	N 32 19 41.15 W	104 18 34.75
	8992.00	88.71	29.78	8540.20	449.33	440.15	994.09	1.63	483122.79	548667.76	N 32 19 41.43 W	104 18 34.57
	9023.00	90.00	29.16	8540.55	476.45	467.14	1009.34	4.62	483149.77	548683.00	N 32 19 41.69 W	104 18 34.39
	9052.00	89.94	28.44	8540.56	501.99	492.55	1023.31	2.49	483175.18	548696.97	N 32 19 41.95 W	104 18 34.22
	9146.00	90.09	27.58	8540.54	585.39	575.54	1067.45	0.93	483258.17	548741.11	N 32 19 42.77 W	104 18 33.71
	9241.00	90.49	26.83	8540.06	670.28	660.03	1110.88	0.89	483342.65	548784.54	N 32 19 43.60 W	104 18 33.20
	9336.00	91.00	26.75	8538.82	755.46	744.82	1153.70	0.54	483427.43	548827.35	N 32 19 44.44 W	104 18 32.70
	9429.00	90.17	26.02	8537.87	839.15	828.13	1195.03	1.19	483510.73	548868.67	N 32 19 45.27 W	104 18 32.22
	9524.00	91.35	25.54	8536.61	925.06	913.67	1236.34	1.34	483596.26	548909.98	N 32 19 46.11 W	104 18 31.74
	9617.00	90.83	25.80	8534.84	1009.24	997.47	1276.62	0.63	483680.06	548950.26	N 32 19 46.94 W	104 18 31.27
	9712.00	90.75	24.15	8533.53	1095.71	1083.58	1316.72	1.74	483766.16	548990.36	N 32 19 47.79 W	104 18 30.80
	9805.00	90.80	22.97	8532.28	1181.29	1168.61	1353.89	1.27	483851.39	549027.53	N 32 19 48.64 W	104 18 30.37
	9900.00	90.06	19.89	8531.56	1270.02	1257.23	1388.60	3.33	483939.80	549062.23	N 32 19 49.51 W	104 18 29.97
	9994.00	90.37	14.62	8531.21	1360.02	1346.97	1416.47	5.62	484029.53	549090.10	N 32 19 50.40 W	104 18 29.64
	10089.00	89.60	8.53	8531.23	1453.21	1439.99	1435.52	6.46	484122.54	549109.15	N 32 19 51.32 W	104 18 29.42
	10183.00	91.26	4.62	8530.53	1546.66	1533.35	1446.28	4.52	484215.89	549119.91	N 32 19 52.24 W	104 18 29.29
	10278.00	88.39	359.33	8530.82	1641.59	1628.25	1449.56	6.33	484310.78	549123.18	N 32 19 53.18 W	104 18 29.25
	10373.00	88.91	356.32	8533.06	1736.45	1723.14	1445.95	3.21	484405.66	549119.58	N 32 19 54.12 W	104 18 29.30
	10467.00	89.54	355.72	8534.33	1830.15	1816.91	1439.43	0.93	484499.42	549113.05	N 32 19 55.05 W	104 18 29.37
	10561.00	90.52	355.16	8534.28	1923.77	1910.61	1431.95	1.20	484593.11	549105.58	N 32 19 55.98 W	104 18 29.46
	10656.00	91.37	355.68	8532.71	2018.38	2005.29	1424.37	1.05	484687.79	549098.00	N 32 19 56.91 W	104 18 29.55
	10749.00	90.09	356.16	8531.53	2111.07	2098.05	1417.75	1.47	484780.53	549091.38	N 32 19 57.83 W	104 18 29.62
	10845.00	91.20	356.58	8530.45	2206.81	2193.85	1411.68	1.24	484876.32	549085.30	N 32 19 58.78 W	104 18 29.69
	10938.00	88.71	357.20	8530.52	2299.62	2286.70	1406.63	2.76	484969.17	549080.26	N 32 19 59.70 W	104 18 29.75
	11033.00	90.89	357.29	8530.85	2394.45	2381.59	1402.06	2.30	485064.04	549075.69	N 32 20 0.64 W	104 18 29.81
	11128.00	91.18	356.80	8529.14	2489.26	2476.44	1397.17	0.60	485158.89	549070.80	N 32 20 1.58 W	104 18 29.86
	11221.00	89.40	357.35	8528.67	2582.09	2569.32	1392.42	2.00	485251.76	549066.05	N 32 20 2.49 W	104 18 29.92
	11316.00	89.14	357.14	8529.88	2676.92	2664.20	1387.86	0.35	485346.63	549061.49	N 32 20 3.43 W	104 18 29.97
	11411.00	89.94	357.51	8530.64	2771.77	2759.09	1383.42	0.93	485441.52	549057.05	N 32 20 4.37 W	104 18 30.02
	11506.00	89.83	359.01	8530.83	2866.69	2854.05	1380.54	1.58	485536.46	549054.17	N 32 20 5.31 W	104 18 30.06
	11601.00	88.82	1.87	8531.95	2961.68	2949.02	1381.27	3.19	485631.43	549054.90	N 32 20 6.25 W	104 18 30.05
	11697.00	86.88	2.54	8535.55	3057.56	3044.88	1384.96	2.14	485727.28	549058.59	N 32 20 7.20 W	104 18 30.00
	11714.00	87.09	1.94	8536.44	3074.53	3061.84	1385.62	3.73	485744.24	549059.25	N 32 20 7.37 W	104 18 30.00
	11809.00	87.76	4.79	8540.71	3169.31	3156.57	1391.19	3.08	485838.96	549064.82	N 32 20 8.31 W	104 18 29.93
	11904.00	90.11	6.11	8542.48	3263.93	3251.12	1400.21	2.84	485933.50	549073.84	N 32 20 9.24 W	104 18 29.82
	11998.00	92.47	6.81	8540.36	3357.40	3344.49	1410.79	2.62	486026.86	549084.41	N 32 20 10.17 W	104 18 29.70
	12093.00	92.92	3.80	8535.90	3451.95	3438.97	1419.56	3.20	486121.33			

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 ° ' ")
	15215.00	90.17	0.18	8491.44	6572.25	6559.21	1439.76	1.38	489241.28	549113.39	N 32 20 41.97	W 104 18 29.35
	15310.00	90.34	359.29	8491.01	6667.24	6654.21	1439.32	0.95	489336.27	549112.95	N 32 20 42.91	W 104 18 29.36
	15405.00	90.34	0.40	8490.45	6762.23	6749.20	1439.07	1.17	489431.26	549112.69	N 32 20 43.85	W 104 18 29.36
	15500.00	90.45	0.50	8489.79	6857.23	6844.20	1439.81	0.16	489526.24	549113.44	N 32 20 44.79	W 104 18 29.35
	15595.00	90.50	359.80	8489.01	6952.22	6939.20	1440.06	0.74	489621.23	549113.69	N 32 20 45.73	W 104 18 29.35
	15689.00	90.28	0.08	8488.37	7046.21	7033.19	1439.96	0.38	489715.22	549113.59	N 32 20 46.66	W 104 18 29.35
	15783.00	90.22	358.43	8487.96	7140.18	7127.18	1438.74	1.76	489809.20	549112.37	N 32 20 47.59	W 104 18 29.37
	15878.00	89.72	358.77	8488.01	7235.13	7222.15	1436.42	0.64	489904.16	549110.04	N 32 20 48.53	W 104 18 29.39
	15974.00	90.17	1.35	8488.10	7331.12	7318.14	1436.52	2.73	490000.14	549110.15	N 32 20 49.48	W 104 18 29.39
	16068.00	90.84	1.74	8487.27	7425.10	7412.11	1439.05	0.82	490094.10	549112.68	N 32 20 50.41	W 104 18 29.36
	16163.00	91.01	1.15	8485.74	7520.07	7507.06	1441.45	0.65	490189.04	549115.07	N 32 20 51.35	W 104 18 29.33
	16258.00	90.22	359.04	8484.72	7615.06	7602.05	1441.61	2.37	490284.02	549115.23	N 32 20 52.29	W 104 18 29.33
	16353.00	90.34	1.94	8484.25	7710.05	7697.04	1442.42	3.06	490379.00	549116.04	N 32 20 53.23	W 104 18 29.32
	16448.00	90.28	0.60	8483.74	7805.04	7792.01	1444.52	1.41	490473.97	549118.15	N 32 20 54.17	W 104 18 29.30
	16542.00	90.22	359.97	8483.33	7899.04	7886.01	1444.99	0.67	490567.95	549118.62	N 32 20 55.10	W 104 18 29.29
	16638.00	90.00	1.33	8483.14	7995.03	7982.00	1446.08	1.44	490663.94	549119.71	N 32 20 56.05	W 104 18 29.28
	16733.00	90.22	1.01	8482.96	8090.03	8076.98	1448.02	0.41	490758.91	549121.65	N 32 20 56.99	W 104 18 29.25
	16828.00	90.11	0.71	8482.69	8185.02	8171.97	1449.45	0.34	490853.89	549123.07	N 32 20 57.93	W 104 18 29.24
	16922.00	90.34	358.36	8482.32	8279.00	8265.96	1448.68	2.51	490947.87	549122.31	N 32 20 58.86	W 104 18 29.25
	17017.00	90.11	0.91	8481.95	8373.98	8360.95	1448.08	2.70	491042.85	549121.70	N 32 20 59.80	W 104 18 29.25
	17112.00	91.29	1.76	8480.79	8468.96	8455.91	1450.29	1.53	491137.80	549123.92	N 32 21 0.74	W 104 18 29.23
	17207.00	90.28	1.12	8479.48	8563.94	8550.87	1452.68	1.26	491232.75	549126.30	N 32 21 1.68	W 104 18 29.20
	17301.00	90.22	2.20	8479.07	8657.92	8644.83	1455.40	1.15	491326.70	549129.03	N 32 21 2.61	W 104 18 29.17
	17396.00	91.12	2.56	8477.96	8752.86	8739.74	1459.35	1.02	491421.61	549132.97	N 32 21 3.55	W 104 18 29.12
	17491.00	90.28	2.41	8476.80	8847.80	8834.64	1463.46	0.90	491516.50	549137.09	N 32 21 4.49	W 104 18 29.07
	17586.00	90.28	0.05	8476.34	8942.78	8929.61	1465.50	2.48	491611.46	549139.13	N 32 21 5.43	W 104 18 29.05
	17681.00	89.78	1.80	8476.29	9037.78	9024.59	1467.04	1.92	491706.44	549140.66	N 32 21 6.37	W 104 18 29.03
	17775.00	90.22	1.90	8476.29	9131.75	9118.55	1470.07	0.48	491800.38	549143.70	N 32 21 7.30	W 104 18 28.99
	17871.00	91.51	0.60	8474.84	9227.73	9214.51	1472.17	1.91	491896.33	549145.79	N 32 21 8.25	W 104 18 28.97
	17966.00	90.34	1.56	8473.31	9322.71	9309.48	1473.96	1.59	491991.29	549147.58	N 32 21 9.19	W 104 18 28.95
	18060.00	91.18	356.30	8472.06	9416.63	9403.42	1472.20	5.67	492085.22	549145.83	N 32 21 10.12	W 104 18 28.97
	18154.00	90.22	358.96	8470.91	9510.50	9497.32	1468.32	3.01	492179.12	549141.94	N 32 21 11.05	W 104 18 29.01
	18249.00	91.01	1.35	8469.89	9605.48	9592.31	1468.57	2.65	492274.10	549142.20	N 32 21 11.99	W 104 18 29.01
	18344.00	90.17	1.13	8468.91	9700.47	9687.28	1470.63	0.91	492369.06	549144.25	N 32 21 12.93	W 104 18 28.99
	18438.00	90.39	356.17	8468.45	9794.39	9781.22	1468.41	5.28	492462.99	549142.04	N 32 21 13.86	W 104 18 29.01
	18533.00	89.94	1.78	8468.18	9889.31	9876.17	1466.72	5.92	492557.93	549140.34	N 32 21 14.80	W 104 18 29.03
	18628.00	91.40	0.97	8467.07	9984.29	9971.13	1469.00	1.76	492652.88	549142.62	N 32 21 15.74	W 104 18 29.00
	18723.00	90.28	1.37	8465.67	10079.27	10066.10	1470.93	1.25	492747.84	549144.56	N 32 21 16.67	W 104 18 28.98
	18818.00	90.28	359.57	8465.21	10174.27	10161.09	1471.71	1.89	492842.83	549145.34	N 32 21 17.61	W 104 18 28.97
	18913.00	90.11	1.81	8464.89	10269.26	10256.08	1472.86	2.36	492937.80	549146.48	N 32 21 18.55	W 104 18 28.96
	19007.00	90.06	1.03	8464.75	10363.25	10350.05	1475.19	0.83	493031.77	549148.81	N 32 21 19.48	W 104 18 28.93
Final Survey	19101.00	89.78	359.96	8464.88	10457.25	10444.04	1476.00	1.18	493125.75	549149.62	N 32 21 20.41	W 104 18 28.92
Projection To Bit	19129.00	89.78	359.96	8464.99	10485.25	10472.04	1475.98	0.00	493153.75	549149.60	N 32 21 20.69	W 104 18 28.92

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 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	32.000	1/98.425	17.500	13.375	NAL_MWD_1.0_DEG-Depth Only	Bodacious 5-32 Fed Com 3BS 4H / Chisholm Bodacious 5-32 Fed Com 3BS 4H MWD Surveys 0ft to Bodacious 5-32 Fed Com 3BS 4H
	1	32.000	32.000	Act Stns	17.500	13.375	NAL_MWD_1.0_DEG-Depth Only	/ Chisholm Bodacious 5-32 Fed Com 3BS 4H MWD Surveys 0ft to Bodacious 5-32 Fed Com 3BS 4H
	1	32.000	450.000	Act Stns	17.500	13.375	NAL_MWD_1.0_DEG	/ Chisholm Bodacious 5-32 Fed Bodacious 5-32 Fed Com 3BS 4H
	1	450.000	1925.000	Act Stns	12.250	9.625	NAL_MWD_1.0_DEG	/ Chisholm Bodacious 5-32 Fed Bodacious 5-32 Fed Com 3BS 4H
	1	1925.000	7922.000	Act Stns	8.750	0.000	NAL_MWD_1.0_DEG	/ Chisholm Bodacious 5-32 Fed Bodacious 5-32 Fed Com 3BS 4H
	1	7922.000	19129.000	Act Stns	8.500	0.000	NAL_MWD_1.0_DEG	/ Chisholm Bodacious 5-32 Fed Bodacious 5-32 Fed Com 3BS 4H