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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
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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

DEC 20 2019

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

RECEIVED

District Office

☒ AMENDED REPORT
REV BHL

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	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 3364.0

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	23 S	26 E		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	22 S	26 E		100	NORTH	400	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.

NMSP EAST (FT) N = 493237.32 E = 544249.67 NMSP EAST (FT) N = 493250.51 E = 546900.94 NMSP EAST (FT) N = 487791.23 E = 544299.49 NMSP EAST (FT) N = 487809.24 E = 546960.93 NMSP EAST (FT) N = 482438.91 E = 544088.62 NMSP EAST (FT) N = 482452.03 E = 546765.30 NMSP EAST (FT) N = 482453.99 E = 549447.32 NMSP EAST (FT) N = 493254.59 E = 549551.52 NMSP EAST (FT) N = 493154.00 E = 549152.67 NMSP EAST (FT) N = 487843.92 E = 549609.44 NMSP EAST (FT) N = 482682.68 E = 547673.76	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. <i>Jennifer Elrod</i> 12/12/2019 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. SEPTEMBER 26, 2019 Date of Survey <i>MON F. JARAMILA</i> Signature and Seal of Professional Surveyor Certificate Number: F1110001-12797 SURVEY NO. 6283A
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Intent ☒ As Drilled ☐

API #
30-015-45835

Operator Name: CHISHOLM ENERGY OPERATING, LLC	Property Name: BODACIOUS 5-32 FED COM 3BS	Well Number 4H
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Kick Off Point (KOP)

UL P	Section 5	Township 23S	Range 26E	Lot	Feet 230	From N/S SOUTH	Feet 1780	From E/W EAST	County EDDY
Latitude 32.3269651					Longitude 104.3128199			NAD 83	

First Take Point (FTP)

UL P	Section 5	Township 23S	Range 26E	Lot	Feet 330	From N/S SOUTH	Feet 400	From E/W EAST	County EDDY
Latitude 32.3272418					Longitude 104.3083413			NAD 83	

Last Take Point (LTP)

UL A	Section 32	Township 22S	Range 26E	Lot	Feet 100	From N/S NORTH	Feet 400	From E/W EAST	County EDDY
Latitude 32.3557484					Longitude 104.3080239			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit?

☐ NO

Is this well an infill well?

☐ YES

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

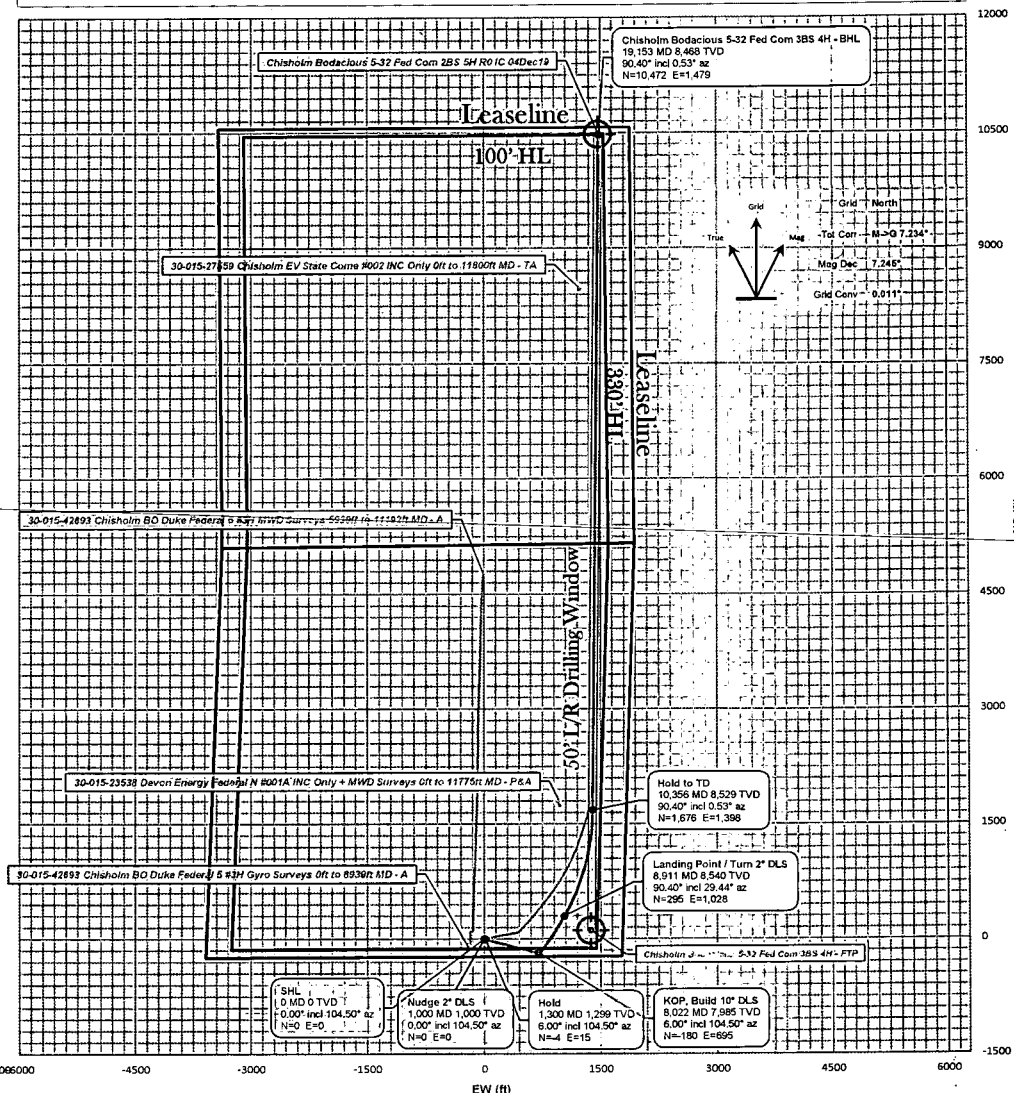
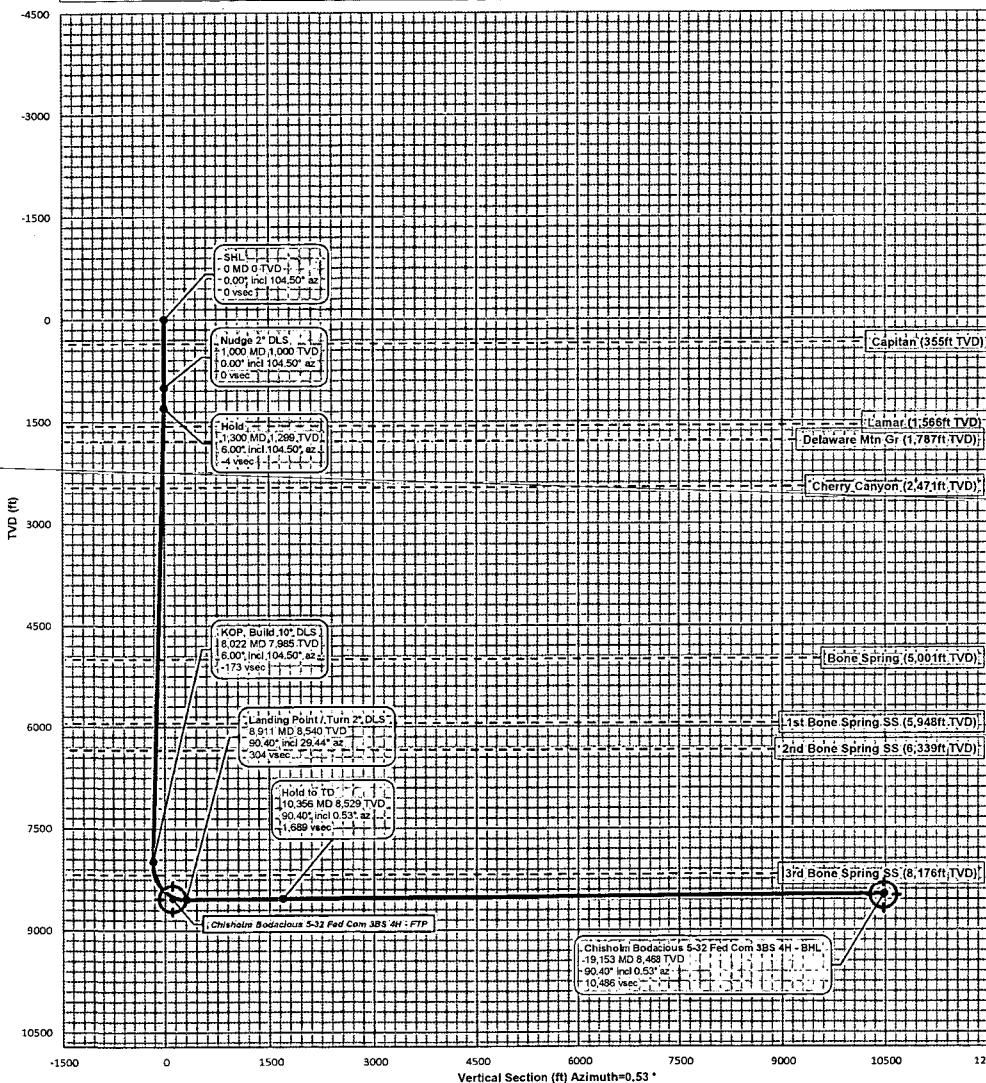
API #
30-015-45836

Operator Name: CHISHOLM ENERGY OPERATING, LLC	Property Name: BODACIOUS 5-32 FEDERAL COM 2BS	Well Number 5H
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KZ 06/29/2018



BOREHOLE								WELL				FIELD				STRUCTURE			
Bodacious 5-32 Fed Com 3BS 4H								Bodacious 5-32 Fed Com 3BS 4H				NM Eddy County (NAD 83)				Chisholm Bodacious 5-32 Fed Com 3BS 4H			
Critical Point	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (deg/100ft)				GRAVITY & MAGNETICS PARAMETERS				SURFACE LOCATION			
SHL	0.00	0.00	104.50	0.00	0.00	0.00	0.00	0.00				Model HDGM 2019 GARM				NAD83 New Mexico State Plane, Eastern Zone, US Feet			
Nudge 2" DLS	1,000.00	0.00	104.50	1,000.00	0.00	0.00	0.00	0.00				Dip 59.953°				Date 15-Oct-19			
13.375 in Casing	1,146.80	2.94	104.50	1,146.74	-0.91	-0.94	3.94	2.00				Lat 32°19'37.07"N				Northing 482,682.68 ftUS			
Hold	1,300.00	8.00	104.50	1,298.45	-3.79	-3.93	15.19	2.00				Mag Dec 7.245°				Grid Conv 0.011°			
KOP, Build 10" DLS	8,022.28	6.00	104.50	7,984.96	-173.42	-176.88	856.48	0.00				FS 47,828.722nT				Gravity FS 998.467mgn (9.80665 Based)			
8.824999999999999 in Casing	8,248.80	24.94	42.14	8,203.17	-140.27	-147.12	738.45	10.00				Lon 104°18'46.15"W				Easting 547,673.76 ftUS			
Landing Point / Turn 2" DLS	8,610.82	90.40	29.44	8,536.52	304.04	294.54	1,028.31	10.00				Scale Fact 0.99990914							
Hold to TD	10,356.17	90.40	0.53	8,529.21	1,868.82	1,875.96	1,397.99	2.00											
Chisholm Bodacious 5-32 Fed Com 3BS 4H - BHL	19,153.09	90.40	0.53	8,467.80	10,485.53	10,472.29	1,478.05	0.00											
												MISCELLANEOUS							
												Stat				TVD Reference RKB (3396.000 ft above MSL)			
												Plan Chisholm Bodacious 5-32 Fed Com 3BS 4H R0 IC 04Dec19				Seabed / Ground Elevation 3364.000 ft above MSL			





dotic R
Dot Eho

[illegible]

Survey / DLS Computation:	Minimum Curvature / Least Squares
Vertical Section Archive:	0.330 "YCR @ North"
Vertical Section Origin:	0.000 R, 0.000 N
FVS Note File Date:	N/A
FVS Note File Name:	3386.000 R above MZ
Sectoid / Ground Elevation:	3386.000 R above MZ
Magnetite Declination:	" 745 "
Total Corv. Mag. & East Strangle:	9.745' (P) @ 3386.000 R above MZ
Giving Way:	4/15/28 722 ft
Total Mag. & West Strangle:	58.805'
Magnetite Dip Angle:	October 15, 2019
Dichotomies Data:	HICOM 2019
Magnetite Declination Model:	Q&S Map
North Reference:	0.011"
Corv. Convergence Used:	7.233"
Total Corv. Map North-Side:	

Camera axis	(N)	(E)	Asm	TV0	TV050	TV50C	NE	SW	North/South	East/West	Latitude	Longitude	CLS
	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(°)	(°)	(°)
Base	0.00	0.00	154.52	0.00	3.33800	0.00	0.00	0.00	402.98266	547.67014	32.23	104.31	
Top of C/L 1.5	1.00	1.00	154.52	0.00	3.33800	0.00	0.00	0.00	402.98266	547.67014	32.23	104.31	0.00
Lead 1.00m	2.00	2.00	154.52	0.29945	3.29655	0.78	2.51	15.18	402.98266	547.67014	32.23	104.31	0.00
Lead 2.00m	3.00	3.00	154.52	0.59890	3.25510	1.56	5.03	30.36	402.98266	547.67014	32.23	104.31	0.00
Lead 3.00m	4.00	4.00	154.52	0.89835	3.21365	2.34	7.55	45.54	402.98266	547.67014	32.23	104.31	0.00
Lead 4.00m	5.00	5.00	154.52	1.19780	3.17220	3.12	10.07	60.72	402.98266	547.67014	32.23	104.31	0.00
Lead 5.00m	6.00	6.00	154.52	1.49725	3.13075	3.90	12.59	75.90	402.98266	547.67014	32.23	104.31	0.00
Lead 6.00m	7.00	7.00	154.52	1.79670	3.08930	4.68	15.11	91.08	402.98266	547.67014	32.23	104.31	0.00
Lead 7.00m	8.00	8.00	154.52	2.09615	3.04785	5.46	17.63	106.26	402.98266	547.67014	32.23	104.31	0.00
Lead 8.00m	9.00	9.00	154.52	2.39560	3.00640	6.24	20.15	121.44	402.98266	547.67014	32.23	104.31	0.00
Lead 9.00m	10.00	10.00	154.52	2.69505	2.96495	7.02	22.67	136.62	402.98266	547.67014	32.23	104.31	0.00
Lead 10.00m	11.00	11.00	154.52	2.99450	2.92350	7.80	25.19	151.80	402.98266	547.67014	32.23	104.31	0.00
Lead 11.00m	12.00	12.00	154.52	3.29395	2.88205	8.58	27.71	166.98	402.98266	547.67014	32.23	104.31	0.00
Lead 12.00m	13.00	13.00	154.52	3.59340	2.84060	9.36	30.23	182.16	402.98266	547.67014	32.23	104.31	0.00
Lead 13.00m	14.00	14.00	154.52	3.89285	2.79915	10.14	32.75	197.34	402.98266	547.67014	32.23	104.31	0.00
Lead 14.00m	15.00	15.00	154.52	4.19230	2.75770	10.92	35.27	212.52	402.98266	547.67014	32.23	104.31	0.00
Lead 15.00m	16.00	16.00	154.52	4.49175	2.71625	11.70	37.79	227.70	402.98266	547.67014	32.23	104.31	0.00
Lead 16.00m	17.00	17.00	154.52	4.79120	2.67480	12.48	40.31	242.88	402.98266	547.67014	32.23	104.31	0.00
Lead 17.00m	18.00	18.00	154.52	5.09065	2.63335	13.26	42.83	258.06	402.98266	547.67014	32.23	104.31	0.00
Lead 18.00m	19.00	19.00	154.52	5.39010	2.59190	14.04	45.35	273.24	402.98266	547.67014	32.23	104.31	0.00
Lead 19.00m	20.00	20.00	154.52	5.68955	2.55045	14.82	47.87	288.42	402.98266	547.67014	32.23	104.31	0.00
Lead 20.00m	21.00	21.00	154.52	5.98900	2.50900	15.60	50.39	303.60	402.98266	547.67014	32.23	104.31	0.00
Lead 21.00m	22.00	22.00	154.52	6.28845	2.46755	16.38	52.91	318.78	402.98266	547.67014	32.23	104.31	0.00
Lead 22.00m	23.00	23.00	154.52	6.58790	2.42610	17.16	55.43	333.96	402.98266	547.67014	32.23	104.31	0.00
Lead 23.00m	24.00	24.00	154.52	6.88735	2.38465	17.94	57.95	349.14	402.98266	547.67014	32.23	104.31	0.00
Lead 24.00m	25.00	25.00	154.52	7.18680	2.34320	18.72	60.47	364.32	402.98266	547.67014	32.23	104.31	0.00
Lead 25.00m	26.00	26.00	154.52	7.48625	2.30175	19.50	62.99	379.50	402.98266	547.67014	32.23	104.31	0.00
Lead 26.00m	27.00	27.00	154.52	7.78570	2.26030	20.28	65.51	394.68	402.98266	547.67014	32.23	104.31	0.00
Lead 27.00m	28.00	28.00	154.52	8.08515	2.21885	21.06	68.03	409.86	402.98266	547.67014	32.23	104.31	0.00
Lead 28.00m	29.00	29.00	154.52	8.38460	2.17740	21.84	70.55	425.04	402.98266	547.67014	32.23	104.31	0.00
Lead 29.00m	30.00	30.00	154.52	8.68405	2.13595	22.62	73.07	440.22	402.98266	547.67014	32.23	104.31	0.00
Lead 30.00m	31.00	31.00	154.52	8.98350	2.09450	23.40	75.59	455.40	402.98266	547.67014	32.23	104.31	0.00
Lead 31.00m	32.00	32.00	154.52	9.28295	2.05305	24.18	78.11	470.58	402.98266	547.67014	32.23	104.31	0.00
Lead 32.00m	33.00	33.00	154.52	9.58240	2.01160	24.96	80.63	485.76	402.98266	547.67014	32.23	104.31	0.00
Lead 33.00m	34.00	34.00	154.52	9.88185	1.97015	25.74	83.15	500.94	402.98266	547.67014	32.23	104.31	0.00
Lead 34.00m	35.00	35.00	154.52	10.18130	1.92870	26.52	85.67	516.12	402.98266	547.67014	32.23	104.31	0.00
Lead 35.00m	36.00	36.00	154.52	10.48075	1.88725	27.30	88.19	531.30	402.98266	547.67014	32.23	104.31	0.00
Lead 36.00m	37.00	37.00	154.52	10.78020	1.84580	28.08	90.71	546.48	402.98266	547.67014	32.23	104.31	0.00
Lead 37.00m	38.00	38.00	154.52	11.07965	1.80435	28.86	93.23	561.66	402.98266	547.67014	32.23	104.31	0.00
Lead 38.00m	39.00	39.00	154.52	11.37910	1.76290	29.64	95.75	576.84	402.98266	547.67014	32.23	104.31	0.00
Lead 39.00m	40.00	40.00	154.52	11.67855	1.72145	30.42	98.27	592.02	402.98266	547.67014	32.23	104.31	0.00
Lead 40.00m	41.00	41.00	154.52	11.97800	1.68000	31.20	100.79	607.20	402.98266	547.67014	32.23	104.31	0.00
Lead 41.00m	42.00	42.00	154.52	12.27745	1.63855	31.98	103.31	622.38	402.98266	547.67014	32.23	104.31	0.00
Lead 42.00m	43.00	43.00	154.52	12.57690	1.59710	32.76	105.83	637.56	402.98266	547.67014	32.23	104.31	0.00
Lead 43.00m	44.00	44.00	154.52	12.87635	1.55565	33.54	108.35	652.74	402.98266	547.67014	32.23	104.31	0.00
Lead 44.00m	45.00	45.00	154.52	13.17580	1.51420	34.32	110.87	667.92	402.98266	547.67014	32.23	104.31	0.00
Lead 45.00m	46.00	46.00	154.52	13.47525	1.47275	35.10	113.39	683.10	402.98266	547.67014	32.23	104.31	0.00
Lead 46.00m	47.00	47.00	154.52	13.77470	1.43130	35.88	115.91	698.28	402.98266	547.67014	32.23	104.31	0.00
Lead 47.00m	48.00	48.00	154.52	14.07415	1.38985	36.66	118.43	713.46	402.98266	547.67014	32.23	104.31	0.00
Lead 48.00m	49.00	49.00	154.52	14.37360	1.34840	37.44	120.95	728.64	402.98266	547.67014	32.23	104.31	0.00
Lead 49.00m	50.00	50.00	154.52	14.67305	1.30695	38.22	123.47	743.82	402.98266	547.67014	32.23	104.31	0.00
Lead 50.00m	51.00	51.00	154.52	14.97250	1.26550	39.00	125.99	759.00	402.98266	547.67014	32.23	104.31	0.00
Lead 51.00m	52.00	52.00	154.52	15.27195	1.22405	39.78	128.51	774.18	402.98266	547.67014	32.23	104.31	0.00
Lead 52.00m	53.00	53.00	154.52	15.57140	1.18260	40.56	131.03	789.36	402.98266	547.67014	32.23	104.31	0.00
Lead 53.00m	54.00	54.00	154.52	15.87085	1.14115	41.34	133.55	804.54	402.98266	547.67014	32.23	104.31	0.00
Lead 54.00m	55.00	55.00	154.52	16.17030	1.09970	42.12	136.07	819.72	402.98266	547.67014	32.23	104.31	0.00
Lead 55.00m	56.00	56.00	154.52	16.46975	1.05825	42.90	138.59	834.90	402.98266	547.67014	32.23	104.31	0.00
Lead 56.00m	57.00	57.00	154.52	16.76920	1.01680	43.68	141.11	850.08	402.98266	547.67014	32.23	104.31	0.00
Lead 57.00m	58.00	58.00	154.52	17.06865	0.97535	44.46	143.63	865.26	402.98266	547.67014	32.23	104.31	0.00
Lead 58.00m	59.00	59.00	154.52	17.36810	0.93390	45.24	146.15	880.44	402.98266	547.67014	32.23	104.31	0.00
Lead 59.00m	60.00	60.00	154.52	17.66755	0.89245	46.02	148.67	895.62	402.98266	547.67014	32.23	104.31	0.00
Lead 60.00m	61.00	61.00	154.52	17.96700	0.85100	46.80	151.19	910.80	402.98266	547.67014	32.23	104.31	0.00
Lead 61.00m	62.00	62.00	154.52	18.26645	0.80955	47.58	153.71	925.98	402.98266	547.67014	32.23	104.31	0.00
Lead 62.00m	63.00	63.00	154.52	18.56590	0.76810	48.36	156.23	941.16	402.98266	547.67014	32.23	104.31	0.00
Lead 63.00m	64.00	64.00	154.52	18.86535	0.72665	49.14	158.75	956.34	402.98266	547.67014	32.23	104.31	0.00
Lead 64.00m	65.00	65.00	154.52	19.16480	0.68520	49.92	161.27	971.52	402.98266	547.67014	32.23	104.31	0.00
Lead 65.00m	66.00	66.00	154.52	19.46425	0.64375	50.70	163.79	986.70	402.98266	547.67014	32.23	104.31	0.00
Lead 66.00m	67.00	67.00	154.52	19.76370	0.60230	51.48	166.31	1001.88	402.98266	547.67014	32.23	104.31	0.00
Lead 67.00m	68.00	68.00	154.52	20.06315	0.56085	52.26	168.83	1017.06	402.98266	547.67014	32.23	104.31	0.00
Lead 68.00m	69.00	69.00	154.52	20.36260	0.51940	53.04	171.35	1032.24	402.98266	547.67014	32.23	104.31	0.00
Lead 69.00m	70.00	70.00	154.52	20.66205	0.47795	53.82	173.87	1047.42	402.98266	547.67014	32.23	104.31	0.00
Lead 70.00m	71.00	71.00	154.52	20.96150	0.43650	54.60	176.39	1062.60	402.98266	547.67014	32.23	104.31	0.00
Lead 71.00m	72.00	72.00	154.52	21.26095	0.39505	55.38	178.91	1077.78	402.98266	547.67014	32.23	104.31	0.00
Lead 72.00m	73.00	73.00	154.52	21.56040	0.35360	56.16	181.43	1092.96	402.98266	547.67014	32.23	104.31	0.00
Lead 73.00m	74.00	74.00	154.52	21.85985	0.31215	56.94	183.95	1108.14	402.98266	547.67014	32.23	104.31	0.00
Lead 74.00m	75.00	75.00	154.52	22.15930	0.27070	57.72	186.47	1123.32	402.9826				

Answer Type:

End Note

ECW3AD 3 - 0 96 % Confidence 2.75/5 signs

Description	Part	MS From (B)	MS To (C)	EOG From (D)	End Date (E)	Category (F)	Quantity (G)	Survey Type (H)	Remarks (I)
	1	1.000	1.000.050	1.000.000	17.800			NAL_MWD_1_S_070	Bidchedule 5 32 Fed Opn 385
		1.000.000	0.002.280	1.000.000	12.230			NAL_MWD_1_0 DCG	Bidchedule 5 32 Fed Opn 358
		0.002.280	0.010.020	1.000.000	9.750			NAL_MWD_1_0 DCG	Bidchedule 5 32 Fed Opn 358
	1	0.010.020	0.010.280	1.000.000	9.900			NAL_MWD_1_0 DCG	Bidchedule 5 32 Fed Opn 385

References

Comments	Altitude (ft)	Incl (°)	Azimuth (°)	TYD (°)	TYOSR (°)	VSEC (°)	AHD (°)	HS (°)	EW (°)	DataMO (°)	DataTYD (°)	DLS (°)	HSR (°)	TR (°)	GTF (°)	MTF (°)	TF (°)	Northing Index	Eastings Index	Latitude Index	Longitude Index	Latitude (°)	Longitude (°)	Closure (ft)	Closure Angle (°)	Drifted Angle (°)	Tonssay Index	ERO Ratio		
SuL	0.00	0.00	104.50	0.00	-3.39600	0.00	0.00	0.00	0.00																					
104	355.00	0.00	104.50	0.00	-3.014	0.00	0.00	0.00	0.00																					
2nd Bore DLS	1,000.00	0.00	104.50	1,000.00	-2.39600	0.00	0.00	0.00	355.00	355.00	0.00	0.00	HS	104.50	104.50	104.50	104.50	482,682.268	541,673.716	1937.014440974	846.1512079	32.33	-104.31	0.00	0.00	0.00	0.00	0.00		
13.37m in Casting	2,140.00	0.00	104.50	2,140.00	-2.39600	0.00	0.00	0.00	355.00	355.00	0.00	0.00	HS	104.50	104.50	104.50	104.50	482,682.268	541,673.716	1937.014440974	846.1512079	32.33	-104.31	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	6.00	104.50	1,299.45	-1.83000	-1.035	0.00	0.00	0.00	35.00	15.19	153.20	152.72	0.00	HS	104.50	104.50	104.50	482,676.75	541,668.058	1937.0359475	845.6744770	32.33	-104.31	0.00	0.00	0.00	0.00	0.00	0.00	
1,568.02	6.00	104.50	1,567.02	-1.83000	-1.035	0.00	0.00	0.00	35.00	15.19	153.20	152.72	0.00	HS	104.50	104.50	104.50	482,676.75	541,668.058	1937.0359475	845.6744770	32.33	-104.31	0.00	0.00	0.00	0.00	0.00	0.00	
1,568.02	6.00	104.50	1,567.02	-1.83000	-1.035	0.00	0.00	0.00	35.00	15.19	153.20	152.72	0.00	HS	104.50	104.50	104.50	482,676.75	541,668.058	1937.0359475	845.6744770	32.33	-104.31	0.00	0.00	0.00	0.00	0.00	0.00	
1,568.02	6.00	104.50	1,567.02	-1.83000	-1.035	0.00	0.00	0.00	35.00	15.19	153.20	152.72	0.00	HS	104.50	104.50	104.50	482,676.75	541,668.058	1937.0359475	845.6744770	32.33	-104.31	0.00	0.00	0.00	0.00	0.00	0.00	
1,568.02	6.00	104.50	1,567.02	-1.83000	-1.035	0.00	0.00	0.00	35.00	15.19	153.20	152.72	0.00	HS	104.50	104.50	104.50	482,676.75	541,668.058	1937.0359475	845.6744770	32.33	-104.31	0.00	0.00	0.00	0.00	0.00	0.00	
1,568.02	6.00	104.50	1,567.02	-1.83000	-1.035	0.00	0.00	0.00	35.00	15.19	153.20	152.72	0.00	HS	104.50	104.50	104.50	482,676.75	541,668.058	1937.0359475	845.6744770	32.33	-104.31	0.00	0.00	0.00	0.00	0.00	0.00	
1,568.02	6.00	104.50	1,567.02	-1.83000	-1.035	0.00	0.00	0.00	35.00	15.19	153.20	152.72	0.00	HS	104.50	104.50	104.50	482,676.75	541,668.058	1937.0359475	845.6744770	32.33	-104.31	0.00	0.00	0.00	0.00	0.00	0.00	
1,568.02	6.00	104.50	1,567.02	-1.83000	-1.035	0.00	0.00	0.00	35.00	15.19	153.20	152.72	0.00	HS	104.50	104.50	104.50	482,676.75	541,668.058	1937.0359475	845.6744770	32.33	-104.31	0.00	0.00	0.00	0.00	0.00	0.00	
1,568.02	6.00	104.50	1,567.02	-1.83000	-1.035	0.0																								

Survey Error Model: ISW SA0 3 - D 95 % Confidence 2.7955 sigma

Survey Program:									
Description	Part	MD Price (\$)	MD To (\$)	EDU Freq (Hz)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	1,000,000	1/100,000	17.500		NAL_MWD_1.0_DEG		Bodacious 5-32 Fed Com 3BS
	1	1,000,000	8,022,280	1/103,000	12.250		NAL_MWD_1.0_DEG		Bodacious 5-32 Fed Com 3BS
	1	8,022,280	8,910,820	1/103,000	8.750		NAL_MWD_1.0_DEG		Bodacious 5-32 Fed Com 3BS
	1	8,910,820	19,153,090	1/100,000	8.500		NAL_MWD_1.0_DEG		Bodacious 5-32 Fed Com 3BS

Comments	MD (%)	Ref (%)	Age (%)	TVS (%)	TVSS (%)	YSC (%)	MS (%)	EW (%)	Working (%)	Working (%)	Leads (%)	Leads (%)	CL (%)	MS (%)	LB (%)
Survey Error Message Survey Problem	SCHEMATIC - D. 90 % Compliance 2 TVSS Agave														
Description	Pat	MD (%)	MD (%)	MD (%)	MD (%)	MD (%)	MD (%)	MD (%)	MD (%)	MD (%)	MD (%)	MD (%)	MD (%)	MD (%)	MD (%)
1	0.000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000
1	1.000 000	0.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000
1	0.000 000	0.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000
1	0.000 000	0.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000	1.000 000

Def

[illegible]

Country		City	Lat	Long	Alt	Pop	Area	Dist	Time	Code	Notes
Canada	Ontario	Toronto	43.65	-79.38	493	2,930,000	596	1,300	EST	01	
	Quebec	Quebec City	46.81	-71.22	102	516,000	1,250	1,300	EST	02	
	Alberta	Calgary	50.98	-114.07	1,045	1,232,000	2,130	1,300	MST	03	
	British Columbia	Vancouver	49.28	-123.12	14	610,000	2,470	1,300	PST	04	
	Manitoba	Winnipeg	49.89	-97.14	201	349,000	1,490	1,300	CST	05	
	Saskatchewan	Saskatoon	52.13	-106.67	324	258,000	1,650	1,300	CST	06	
	Ontario	London	42.98	-81.25	107	355,000	1,050	1,300	EST	07	
	Ontario	Mississauga	43.58	-79.64	75	729,000	610	1,300	EST	08	
	Ontario	Markham	43.82	-79.25	47	322,000	650	1,300	EST	09	
	Ontario	Brampton	43.72	-80.05	67	219,000	630	1,300	EST	10	
USA	California	Los Angeles	34.05	-118.24	29	3,900,000	1,300	1,300	PST	11	
	Florida	Miami	25.76	-80.19	13	1,300,000	1,400	1,300	EST	12	
	Texas	Houston	29.76	-95.37	30	2,300,000	1,600	1,300	CST	13	
	New York	New York City	40.71	-74.01	10	18,000,000	780	1,300	EST	14	
	Illinois	Chicago	41.88	-87.63	18	2,700,000	1,400	1,300	CST	15	
	Arizona	Phoenix	33.45	-112.07	10	1,600,000	1,300	1,300	MST	16	
	Georgia	Atlanta	33.75	-84.39	30	4,500,000	1,400	1,300	EST	17	
	Washington	Seattle	47.61	-122.33	10	600,000	2,400	1,300	PST	18	
	Colorado	Denver	39.74	-104.99	17	700,000	1,700	1,300	MST	19	
	Idaho	Boise	43.62	-116.2	10	200,000	1,600	1,300	MST	20	
Mexico	Mexico City	Mexico City	19.43	-99.13	2,240	20,000,000	1,400	1,300	CST	21	
	Guadalajara	Guadalajara	20.68	-103.42	1,500	1,400,000	1,600	1,300	CST	22	
	Puerto Vallarta	Puerto Vallarta	19.14	-105.41	1,000	300,000	1,600	1,300	CST	23	
	San Juan de los Rios	San Juan de los Rios	19.14	-105.41	1,000	300,000	1,600	1,300	CST	24	
	San Juan de los Rios	San Juan de los Rios	19.14	-105.41	1,000	300,000	1,600	1,300	CST	25	
	San Juan de los Rios	San Juan de los Rios	19.14	-105.41	1,000	300,000	1,600	1,300	CST	26	
	San Juan de los Rios	San Juan de los Rios	19.14	-105.41	1,000	300,000	1,600	1,300	CST	27	
	San Juan de los Rios	San Juan de los Rios	19.14	-105.41	1,000	300,000	1,600	1,300	CST	28	
	San Juan de los Rios	San Juan de los Rios	19.14	-105.41	1,000	300,000	1,600	1,300	CST	29	
	San Juan de los Rios	San Juan de los Rios	19.14	-105.41	1,000	300,000	1,600	1,300	CST	30	

Comments	MD (ft)	Incl (°)	Azimuth (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	AHD (ft)	NS (ft)	EW (ft)	DeltaMD (ft)	DeltaTVD (ft)	CLS (°/100ft)	BR (°/100ft)	TR (°/100ft)	GTF (°)	MTF (°)	TF (°)	Heading (RUS)	Easting (EUS)	Latitude (° N)	Longitude (° W)	Latitude (°)	Longitude (°)	Closure (ft)	Closure Azimuth (°)	Directional Stability Index	Tortuosity (°)	END Rate
	1	1,000.000	8,022.280	1/100.000	12.350					NAL_MWD_1.0_DEG	Bodacious 5-32 Fed Cam 3BS+																	
	1	8,022.280	8,910.820	1/100.000	8.750					NAL_MWD_1.0_DEG	Bodacious 5-32 Fed Cam 3BS+																	
	1	8,910.820	19,153.090	1/100.000	8.500					NAL_MWD_1.0_DEG	Bodacious 5-32 Fed Cam 3BS+																	