

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
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

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 20 2019

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☒ AMENDED REPORT
REV BHL AND
CHANGE FROM WCA
TO 2BS

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45836	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 2BS	⁶ Well Number 5H
⁷ OGRID No. 372137	⁸ Operator Name CHISHOLM ENERGY OPERATING, LLC	⁹ Elevation 3364.4

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
P	5	23 S	26 E		230	SOUTH	1810	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 320.89	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 = 487843.92 E = 549609.44 NMSP EAST (FT) N = 482452.03 E = 546765.30 NMSP EAST (FT) N = 482453.99 E = 549447.32	400' BHL 100' FNL, 400' FEL LAT. = 32.3557484°N LONG. = 104.3080239°W NMSP EAST (FT) N = 493154.00 E = 549152.67 SEC 32 SEC 5 LANDING POINT 330' FSL, 400' FEL LAT. = 32.3272418°N LONG. = 104.3083413°W N = 482783.63 E = 549057.11 GRID AZ. TO LP N85°54'46"E HORIZ. DIST 1447.24 FT BODACIOUS 5-32 FED COM 2BS 5H ELEV. = 3364.4' LAT. = 32.3269650°N (NAD83) LONG. = 104.3129168°W NMSP EAST (FT) N = 482682.64 E = 547643.82	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> 12/12/19 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>William F. Jaramila</i> Signature and Seal of Professional Surveyor Certificate Number: FIDELITY PROFESSIONAL, PLS 12797 SURVEY NO. 6284A
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Intent ☒ As Drilled ☐

API #
30-015-45836

Operator Name: CHISHOLM ENERGY OPERATING, LLC	Property Name: BODACIOUS 5-32 FED COM 2BS	Well Number 5H
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Kick Off Point (KOP)

UL P	Section 5	Township 23S	Range 26E	Lot	Feet 230	From N/S SOUTH	Feet 1810	From E/W EAST	County EDDY
Latitude 32.3269650					Longitude 104.3129168				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?

☒ YES

Is this well an infill well?

☐ NO

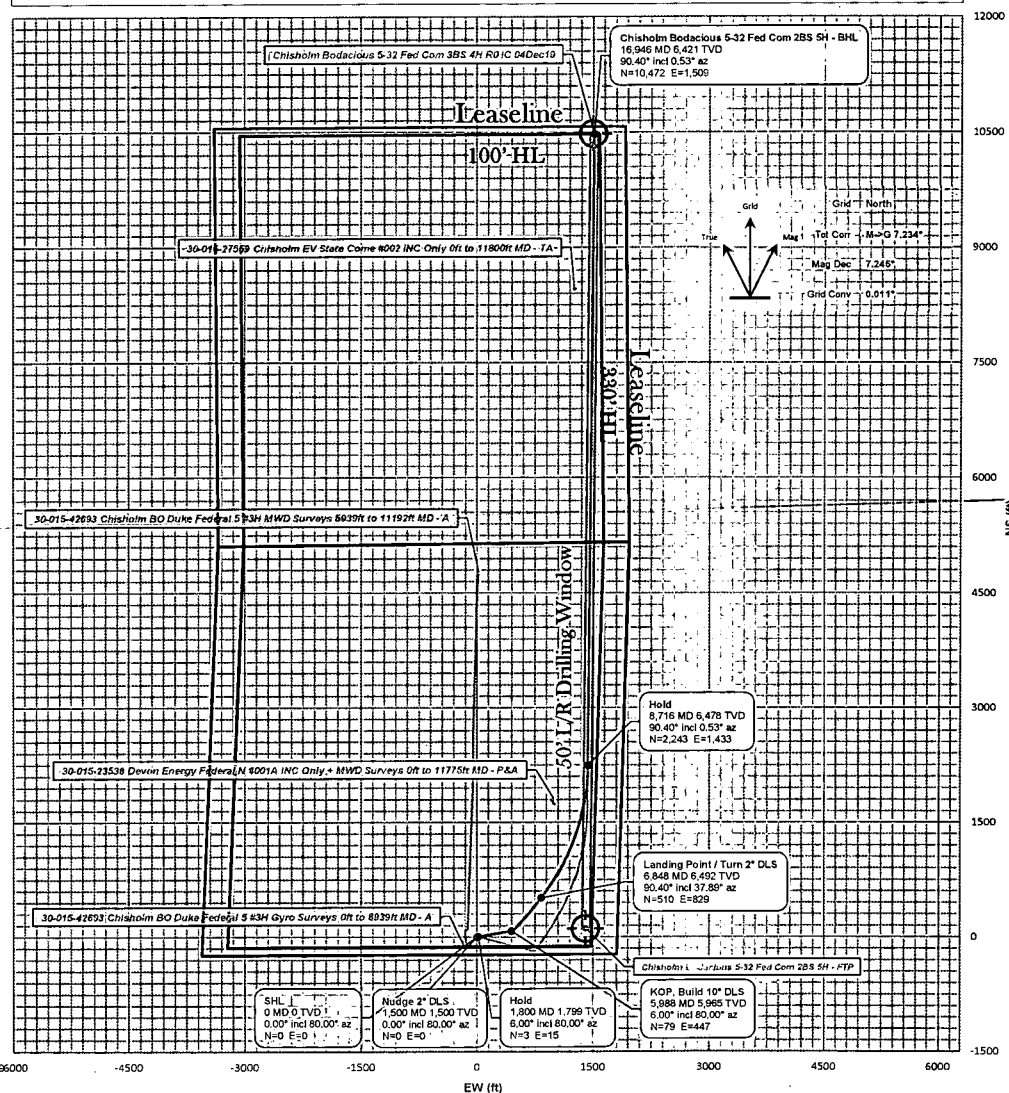
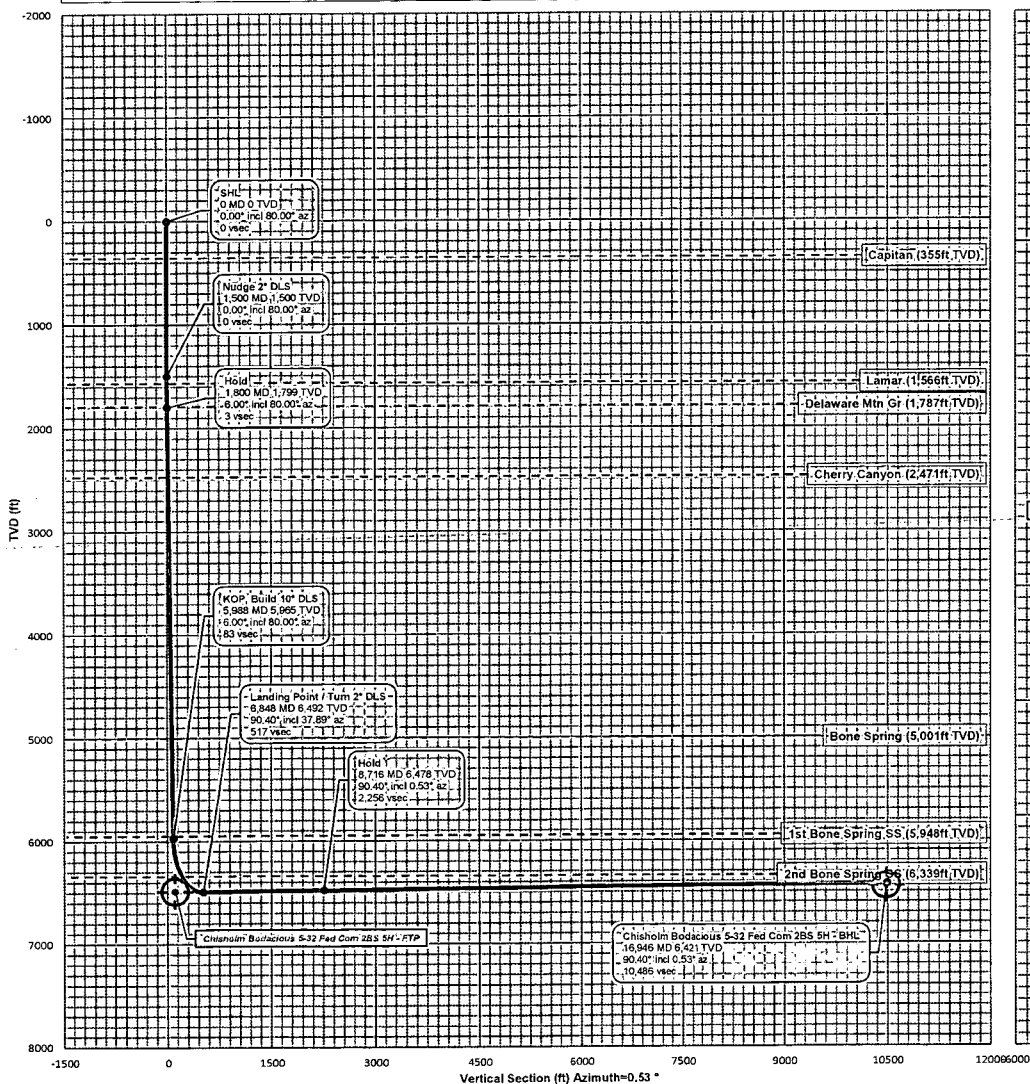
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number
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KZ 06/29/2018

BOREHOLE				WELL				FIELD				STRUCTURE			
Bodacious 5-32 Fed Com 2BS 5H				Bodacious 5-32 Fed Com 2BS 5H				NM Eddy County (NAD 83)				Chisholm Bodacious 5-32 Fed Com 2BS 5H			
Critical Point	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (deg/100ft)				GRAVITY & MAGNETICS PARAMETERS			
SHL	0.00	0.00	80.00	0.00	0.00	0.00	0.00					SURFACE LOCATION			
13,375 in Casing	1,147.20	0.00	80.00	1,147.20	0.00	0.00	0.00					NAD83 New Mexico State Plane, Eastern Zone, US Feet			
Nudge 2" DLS	1,500.00	0.00	80.00	1,500.00	0.00	0.00	0.00					Model HDGM 2019 GARM Dip 59.953° Date 15-Oct-19 Lat 32°19'37.07"N Northing 482,682.64 ftUS Grid Conv 0.011*			
Hold	1,600.00	6.00	80.00	1,709.45	2.87	2.73	15.49					MagDec 7.245° FS 47,828.702nT Gravity FS 998.467mgm (9.80665 Based) Lon 104°18'46.50"W Easting 547,643.82 ftUS Scale Fact 0.99980914			
KOP, Build 10" DLS	5,988.08	6.00	80.00	5,964.59	82.87	78.74	446.58					MISCELLANEOUS			
Landing Point / Turn 2" DLS	8,847.59	90.40	37.89	6,491.78	517.37	508.72	828.38					TVD Reference RKB (3396.400 ft above MSL)			
9.824999999999999 in Casing	8,249.20	90.42	9.86	6,481.58	1,781.42	1,778.63	1,390.99					SLOT			
Hold	8,715.66	90.40	0.53	6,478.25	2,255.81	2,242.85	1,433.16					Plan Chisholm Bodacious 5-32 Fed Com 2BS 5H R0 IC 04Dec19 Seabed / Ground Elevation 3364.400 ft above MSL			
Chisholm Bodacious 5-32 Fed	16,945.89	90.40	0.53	6,430.79	10,435.44	10,472.33	1,508.99								



[illegible]

Component	MS (°)	Int (°)	Asc (°)	Dec (°)	TJD68 (M)	VJCL (°)	RA (°)	EW (°)	Hourly RA (h:m:s)	Ending RA (h:m:s)	Leftmost (°)	Longitude (°)	DLR (°/1000)	RR (°/1000)	TR (°/1000)	T (°)
SOL	0:00	0:00	0:00	0:00	0:38:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31				
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
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1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
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1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
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1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
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1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:00	0:00	0:00
1000000 DLS	0:00	0:00	0:00	0:00	1:00:00	0:00	0:00	0:00	483:00:00	547:04:02	33:33	154:31		0:0		

Survey Type:

SCN2A3 1 - D 95 % Confidence 2 795 steps

Survey Error Model

Survey Program:

Designation	Part	MD Part No (Rev)	MD To Part No	6000 Part No	Part Date	Quantity	Examine this Drawing	Assembly Date	Assembly Type	Remarks / Priority
	1	1.001	1.001/001	1/100.000	1/100				NAL_MMO_1.0 DEG	Reduction 1:10 Part Com 100%
		1.100.000	1.000.000	1/100.000	1/100				NAL_MMO_1.0 DEG	Reduction 1:10 Part Com 100%
		1.000.000	1.000.000	1/100.000	1/100				NAL_MMO_1.0 DEG	Reduction 1:10 Part Com 100%
	1	1.001.000	1.001.000	1/100.000	1/100				NAL_MMO_1.0 DEG	Reduction 1:10 Part Com 100%
		1.001.000	1.001.000	1/100.000	1/100				NAL_MMO_1.0 DEG	Reduction 1:10 Part Com 100%
	1	1.001.000	1.001.000	1/100.000	1/100				NAL_MMO_1.0 DEG	Reduction 1:10 Part Com 100%

Chisholm

Chisholm Bodacious 5-32 Fed Com 2BS 5H R0 IC 04Dec19 Proposal
Geodetic Report
Def Plan

Report Date: December 04, 2019 - 05:24 PM (UTC-0)
Client: Chisholm
Project: NAL City County (NAD 83)
Structure / Set: Chisholm Bodacious 5-32 Fed Com 2BS 5H
Well: Bodacious 5-32 Fed Com 2BS 5H
Borehole: Bodacious 5-32 Fed Com 2BS 5H
UWI / AP#F: Unknown / Unknown
Survey Name: Chisholm Bodacious 5-32 Fed Com 2BS 5H R0 IC 04Dec19
Survey Date: December 04, 2019
Tie / AHD / DDI / ERI Ratio: 128.113' / 111.029' / 8.8.55 / 1.714
Coordinate Reference System: NAD83 New Mexico State Plane, Easton Zone, US Feet
Location Lat / Long: 32°19'37.074077N, 104°18'46.500477W
Location Grid N/E 10X: N 4620802.640 N/E, E 547043.820 N/E
Grid Scale Factor: 0.99999994
Version / Patch: 2019.3.3.2

Survey / DLS Completion: Minimum Curvature / Lubinski
Vertical Section Azimuth: 0.530 (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: R/S
TVD Reference Elevation: 3594.400 ft above MSL
Sealant / Gravel Elevation: 3594.400 ft above MSL
Magnetic Declination: 7.240°
Total Gravity Field Strength: 968.400mg (8.0065 Gauss)
Gravity Model: GGM
Total Magnetic Field Strength: 47829.70241
Magnetic Dip Angle: 50.853°
Declination Date: October 15, 2019
Magnetic Declination Model: IGCN 2019
North Reference: Grid North
Grid Convergence Used: 0.1066°
True Coning Northward: 7.2336°
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Asht (°)	TVD (ft)	TVDSB (ft)	VSEC (ft)	AHD (ft)	HS (ft)	SW (ft)	DeltaMD (ft)	DeltaTVD (ft)	DLS (ft/100ft)	BR (ft/100ft)	TR (ft/100ft)	GTF (°)	MTF (°)	TP (°)	Norming (ft/ft)	Easting (ft/ft)	Latitude (°)	Longitude (°)	Latitude (°)	Longitude (°)	Closure (ft)	Closure Azimuth (°)	Directional Difficulty Index	Tenacity (°)	ERI Ratio
S/L	0.00	0.00	80.00	0.00	-3.358.40	0.00	0.00	0.00	0.00	355.43	355.40	0.00	0.00	0.00	HS	80.00	80M	482.682.04	547.643.82	1937.0740697N	846.500474W	32.33	-104.31	0.00	0.00	0.00	0.00	0.00
Cardan	335.40	0.00	80.00	355.40	-3.041.00	0.00	0.00	0.00	0.00	791.80	791.80	0.00	0.00	0.00	HS	80.00	80M	482.682.04	547.643.82	1937.0740697N	846.500474W	32.33	-104.31	0.00	0.00	0.00	0.00	0.00
13.375 in Casing	1,147.20	0.00	80.00	1,147.20	-2.249.20	0.00	0.00	0.00	0.00	352.80	352.80	0.00	0.00	0.00	HS	80.00	80M	482.682.04	547.643.82	1937.0740697N	846.500474W	32.33	-104.31	0.00	0.00	0.00	0.00	0.00
Nubos 2" DLS	1,500.00	0.00	80.00	1,500.00	-1.856.40	0.00	0.00	0.00	0.00	64.41	64.40	2.00	2.00	0.00	HS	80.00	80M	482.682.77	547.644.58	1937.0753907N	846.4915417W	32.33	-104.31	0.77	80.00	0.01	1.33	0.00
Lamar	1,566.41	1.33	80.00	1,566.40	-1.850.00	0.14	0.77	0.13	0.76	12.12	12.09	2.00	2.00	0.00	HS	80.00	80M	482.685.15	547.658.05	1937.0986767N	846.3345917W	32.33	-104.31	14.45	80.00	1.82	5.16	0.01
Delaware Mts Cr	1,787.88	5.78	80.00	1,787.40	-1.609.00	2.64	14.45	2.51	14.23	15.46	15.46	2.00	2.00	0.00	HS	80.00	80M	482.685.36	547.659.27	1937.1010067N	846.3203507W	32.33	-104.31	15.69	80.00	1.97	6.00	0.01
H/D	1,800.00	6.00	80.00	1,799.45	-1.596.95	2.87	15.59	2.73	15.46	85.01	85.01	0.00	0.00	0.00	HS	80.00	80M	482.697.03	547.728.82	1937.2222247N	846.4097867W	32.33	-104.31	86.32	80.00	2.71	6.00	0.03
Cherry Canyon	2,475.65	6.00	80.00	2,471.40	-953.00	15.77	86.32	14.69	85.01	2,543.94	2,530.00	0.00	0.00	0.00	HS	80.00	80M	482.743.80	547.990.67	1937.8768187N	842.4078477W	32.33	-104.31	352.23	80.00	3.33	6.00	0.07
Bone Springs	5,019.59	6.00	80.00	5,001.40	1,605.00	64.37	352.23	61.16	345.08	952.22	947.00	0.00	0.00	0.00	HS	80.00	80M	482.761.08	548.088.68	1937.8404457N	841.3154787W	32.33	-104.31	451.77	80.00	3.43	6.00	0.06
1st Bone Springs SS	5,071.80	6.00	80.00	5,048.40	2,552.00	82.58	431.77	78.45	444.80	427.20	374.81	10.00	9.87	-8.88	42.24L	41.65	41.65M	482.761.36	548.090.30	1937.8523567N	841.2959507W	32.33	-104.31	451.47	80.00	3.44	6.00	0.06
HDP Buile 10" DLS	5,988.08	6.00	80.00	5,964.59	2,568.19	82.87	453.47	78.74	446.58	427.20	374.81	10.00	9.87	-8.88	42.24L	41.65	41.65M	482.761.36	548.090.30	1937.8523567N	841.2959507W	32.33	-104.31	451.47	80.00	3.44	6.00	0.06
2nd Bone Springs SS	6,415.28	47.30	41.65	6,339.40	2,943.00	211.22	638.04	205.87	579.08	427.20	374.81	10.00	9.87	-8.88	42.24L	41.65	41.65M	482.761.36	548.090.30	1937.8523567N	841.2959507W	32.33	-104.31	451.47	80.00	3.44	6.00	0.06
Landing Point / Turn 2" DLS	6,847.59	90.40	37.29	6,491.78	3,695.38	517.37	1,031.78	209.72	829.26	427.20	374.81	10.00	9.87	-8.88	42.24L	41.65	41.65M	482.761.36	548.090.30	1937.8523567N	841.2959507W	32.33	-104.31	451.47	80.00	3.44	6.00	0.06
9.624999999999999 in Casing	8,240.20	90.42	9.86	8,481.58	3,063.18	1,791.42	2,423.34	1,778.63	1,390.99	1,401.61	-10.19	2.00	-2.00	90.07L	0.53	0.53	HS	484.625.08	549.078.84	1936.2600007N	838.7938207W	32.33	-104.31	2,261.47	22.58	5.70	129.31	0.45
Held	8,715.68	90.40	0.53	8,478.25	3,081.85	2,255.81	2,890.79	2,242.65	1,433.16	488.46	-3.33	2.00	0.00	-2.00	HS	0.53	HS	493.154.00	549.152.67	2120.6942007N	828.8861407W	32.36	-104.31	10,580.49	8.20	6.57	129.31	1.73
Chisholm Bodacious 5-32 Fed C	16,945.89	90.40	0.53	8,420.79	3,024.39	10,465.84	11,129.83	10,472.33	1,508.99	8,230.24	-57.48	0.00	0.00	0.00	HS	0.53	HS	493.154.00	549.152.67	2120.6942007N	828.8861407W	32.36	-104.31	10,580.49	8.20	6.57	129.31	1.73

Survey Type: Def Plan

Survey Error Model: ISCW5AD 3 - 10 95 % Confidence 2.7955 sigma

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EDU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	1,500.000	1/100.000	17.500			NAL_MWD_1.0_DEG	Bodacious 5-32 Fed Com 2BS 1
	1	1,500.000	5,988.080	1/100.000	12.250			NAL_MWD_1.0_DEG	Bodacious 5-32 Fed Com 2BS 1
	1	5,988.080	8,847.590	1/100.000	8.750			NAL_MWD_1.0_DEG	Bodacious 5-32 Fed Com 2BS 1
	1	8,847.590	16,945.890	1/100.000	8.500			NAL_MWD_1.0_DEG	Bodacious 5-32 Fed Com 2BS 1

Survey Type:		Def Plan:							
Survey Error Message		RCW503 3 - D 5% Compliance 2 7000 wpm							
Survey Program:									
Description	Part	NO Pm (%)	NO Tr (%)	ECR Freq (Hz)	Idle Rate (%)	Clamp Channel (Hz)	Recorded Hz Inclusion (Hz)	Survey Type	Iteration / Survey
	1	0.000	1.200 000	1100.000	17.500			HAL JAWD, 1.0 DEG	Iteration 533 Fwd Chn 2001
	1	1.500 000	0.888 000	1100.000	12.350			HAL JAWD, 1.0 DEG	Iteration 533 Fwd Chn 2001
	1	2.888 000	0.847 000	1100.000	6.750			HAL JAWD, 1.0 DEG	Iteration 533 Fwd Chn 2001

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PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Chisholm Energy Operating LLC
LEASE NO.:	NMNM97120
WELL NAME & NO.:	Bodacious 5-32 Fed Com 2BS 5H
SURFACE HOLE FOOTAGE:	230' FSL & 1810' FEL
BOTTOM HOLE FOOTAGE:	100' FNL & 400' FEL
LOCATION:	Section 5, T 23S, R 26E, NMPM
COUNTY:	Eddy County, New Mexico

H2S	☒ Yes	☐ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☒ Medium	☐ High
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☒ Conventional	☐ Multibowl	☐ Both
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit

All other previous Conditions of Approval still apply.

A. CASING

1. The **13-3/8"** surface casing shall be set at approximately **400'** (a minimum of 25' into the Rustler Anhydrite and above the salt) and cemented to surface.
 - a. **If cement does not circulate to surface**, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of **6 hours** after pumping cement, ideally between 8-10 hours after.
 - b. WOC time for a primary cement job will be a minimum of **8 hours** or **500 psi** compressive strength, whichever is greater. This is to include the lead cement.
 - c. If cement falls back, remedial cementing will be done prior to drilling out the shoe.
 - d. WOC time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.
2. The **9-5/8"** intermediate casing shall be set at approximately **1850'** and cemented to surface.
 - a. **If cement does not circulate to surface**, see A.1.a, c & d.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

3. The 5-1/2" production casing shall be cemented with at least **200' tie-back** into the previous casing. Operator shall provide method of verification.
 - a. If cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

B. PRESSURE CONTROL

1. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M) psi**.
2. Required safety valves, with appropriate wrenches and subs for the drill string being utilized, will be in the open position and accessible on the rig floor.

C. SPECIAL REQUIREMENTS

1. Submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
 - a. The well sign on location shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

DR 12/19/2019