

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45877	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code 325385	⁵ Property Name ASTEROID 20-29 FED COM WCA	⁶ Well Number 2H
⁷ OGRID No. 372137	⁸ Operator Name CHISHOLM ENERGY OPERATING, LLC	⁹ Elevation 3367

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
B	20	23S	26E		120	NORTH	1360	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
P	29	23S	26E		330	SOUTH	897	EAST	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.

	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. <u>Jennifer Elrod</u> 02/06/2020 Signature Date JENNIFER ELROD Printed Name <u>JELROD@CHISHOLMENERGY.COM</u> 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
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RW 4-8-20

Intent ☐ As Drilled ☒

API # 30-015-45877		
Operator Name: CHISHOLM ENERGY OPERATING, LLC	Property Name: ASTEROID 20-29 FED COM WCA	Well Number 2H

Kick Off Point (KOP)

UL B	Section 20	Township 23S	Range 26E	Lot	Feet 134	From N/S NORTH	Feet 888	From E/W EAST	County EDDY
Latitude 32.296521					Longitude -104.309842				NAD 83

First Take Point (FTP)

UL A	Section 20	Township 23S	Range 26E	Lot	Feet 568	From N/S NORTH	Feet 898	From E/W EAST	County EDDY
Latitude 32.295329					Longitude -104.309859				NAD 83

Last Take Point (LTP)

UL P	Section 29	Township 23S	Range 26E	Lot	Feet 39	From N/S SOUTH	Feet 896	From E/W EAST	County EDDY
Latitude 32.268911					Longitude -104.309785				NAD 83

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 #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Schlumberger



Chisholm Asteroid 20-29 Fed Com WCA 2H MWD Surveys 0ft to 18519ft MD Survey Geodetic Report (Def Survey)

Report Date: December 11, 2019 - 11:37 AM
Client: Chisholm
Field: NM Eddy County (NAD 83)
Structure / Slot: Chisholm Asteroid 20-29 WCA 2H / New Slot
Well: Asteroid 20-29 Fed Com WCA 2H
Borehole: Asteroid 20-29 Fed Com WCA 2H
UWI / API#: Unknown / Unknown
Survey Name: Chisholm Asteroid 20-29 Fed Com WCA 2H MWD Surveys 0ft to 18519ft MD
Survey Date: November 14, 2019
Tort / AHD / DDI / ERD Ratio: 358.430 * / 10622.192 ft / 6.905 / 1.219
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 17' 47.80854", W 104° 18' 40.93207"
Location Grid N/E Y/X: N 471621.080 RUS, E 548123.860 RUS
CRS Grid Convergence Angle: 0.0117°
Grid Scale Factor: 0.99990914
Version / Patch: 2.10.787.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.840° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3417.700 ft above MSL
Seabed / Ground Elevation: 3386.700 ft above MSL
Magnetic Declination: 7.244°
Total Gravity Field Strength: 988.4604mgm (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47800.369 nT
Magnetic Dip Angle: 59.915°
Declination Date: November 14, 2019
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.0117°
Total Corr Mag North->Grid North: 7.2320°
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	471621.08	548123.86	N 32 17 47.61	W 104 18 40.93
First SLB MWD Survey	159.00	0.81	232.19	159.00	0.52	-0.52	-0.87	0.38	471620.54	548123.19	N 32 17 47.60	W 104 18 40.94
	191.00	0.58	228.30	191.00	0.73	-0.73	-0.92	0.16	471620.33	548122.94	N 32 17 47.60	W 104 18 40.94
	286.00	0.13	336.53	286.99	0.95	-0.95	-1.33	0.87	471620.11	548122.53	N 32 17 47.60	W 104 18 40.95
	382.00	0.29	265.27	381.99	0.87	-0.87	-1.81	0.29	471620.19	548122.25	N 32 17 47.60	W 104 18 40.95
	392.00	0.28	279.38	391.99	0.87	-0.87	-1.88	0.71	471620.19	548122.20	N 32 17 47.60	W 104 18 40.95
	529.00	0.83	279.05	528.99	0.85	-0.86	-2.97	0.40	471620.40	548120.89	N 32 17 47.60	W 104 18 40.97
	624.00	0.95	271.95	623.97	0.51	-0.52	-4.44	0.17	471620.54	548119.42	N 32 17 47.60	W 104 18 40.98
	711.00	0.99	268.70	710.96	0.50	-0.52	-5.91	0.08	471620.54	548117.95	N 32 17 47.60	W 104 18 41.00
	806.00	0.58	263.43	805.95	0.57	-0.59	-7.19	0.46	471620.47	548116.67	N 32 17 47.60	W 104 18 41.02
	900.00	1.78	100.14	899.94	0.88	-0.90	-8.21	2.47	471620.16	548117.65	N 32 17 47.60	W 104 18 41.00
	995.00	2.15	100.55	994.89	1.48	-1.48	-3.01	0.39	471619.58	548120.85	N 32 17 47.59	W 104 18 40.97
	1090.00	2.44	108.06	1089.81	2.37	-2.37	0.89	0.38	471618.69	548124.55	N 32 17 47.59	W 104 18 40.92
	1184.00	3.23	112.49	1183.69	3.95	-3.94	5.06	0.90	471617.12	548128.92	N 32 17 47.57	W 104 18 40.87
	1279.00	3.15	111.86	1278.55	5.96	-5.93	9.95	0.09	471615.13	548133.81	N 32 17 47.55	W 104 18 40.82
	1374.00	1.02	104.51	1373.48	7.15	-7.12	13.20	2.26	471613.94	548137.05	N 32 17 47.54	W 104 18 40.78
	1468.00	0.57	84.59	1467.47	7.32	-7.28	14.47	0.55	471613.78	548138.33	N 32 17 47.54	W 104 18 40.78
	1564.00	1.06	149.22	1563.46	8.04	-8.00	15.40	1.00	471613.06	548139.26	N 32 17 47.53	W 104 18 40.75
	1658.00	0.55	51.43	1657.45	8.51	-8.47	16.20	1.34	471612.80	548140.06	N 32 17 47.52	W 104 18 40.74
	1754.00	0.73	43.30	1753.45	7.78	-7.73	16.98	0.21	471613.33	548140.84	N 32 17 47.53	W 104 18 40.73
	1849.00	0.73	38.79	1848.44	8.86	-8.81	17.78	0.09	471614.25	548141.61	N 32 17 47.54	W 104 18 40.73
	1885.00	0.68	39.91	1884.44	6.52	-6.47	18.03	0.22	471614.60	548141.88	N 32 17 47.54	W 104 18 40.72
	2031.00	0.88	72.76	2030.43	5.62	-5.58	19.39	0.26	471615.50	548143.25	N 32 17 47.55	W 104 18 40.71
	2125.00	2.52	87.01	2124.39	5.35	-5.29	21.99	1.99	471615.77	548145.85	N 32 17 47.56	W 104 18 40.68
	2220.00	2.80	83.43	2219.29	4.99	-4.92	26.38	0.34	471616.14	548150.24	N 32 17 47.56	W 104 18 40.62
	2315.00	2.49	83.23	2314.16	4.49	-4.41	30.73	0.33	471616.65	548154.59	N 32 17 47.56	W 104 18 40.57
	2410.00	3.89	85.25	2409.03	4.00	-3.90	38.00	1.48	471617.18	548159.85	N 32 17 47.57	W 104 18 40.51
	2505.00	3.59	81.60	2503.83	3.31	-3.20	42.15	0.40	471617.86	548168.01	N 32 17 47.58	W 104 18 40.44
	2599.00	5.19	95.82	2597.56	3.33	-3.20	49.29	2.05	471617.86	548173.15	N 32 17 47.58	W 104 18 40.38
	2693.00	5.37	95.86	2691.16	4.24	-4.08	57.90	0.19	471616.98	548181.75	N 32 17 47.57	W 104 18 40.26
	2788.00	7.27	93.29	2785.58	5.07	-4.88	68.32	2.02	471616.18	548192.17	N 32 17 47.56	W 104 18 40.14
	2883.00	7.15	89.31	2879.83	5.37	-5.15	80.23	0.54	471615.91	548204.09	N 32 17 47.56	W 104 18 40.00
	2977.00	6.74	85.45	2973.14	4.90	-4.64	91.58	0.86	471616.42	548215.43	N 32 17 47.56	W 104 18 39.87
	3071.00	5.88	80.70	3066.57	3.71	-3.43	101.83	1.07	471617.63	548225.68	N 32 17 47.57	W 104 18 39.75
	3166.00	5.64	77.99	3161.09	1.98	-1.87	111.20	0.38	471619.39	548235.05	N 32 17 47.59	W 104 18 39.64
	3261.00	5.37	79.07	3255.85	0.19	0.15	120.13	0.30	471621.21	548243.98	N 32 17 47.61	W 104 18 39.53
	3356.00	4.93	79.67	3350.28	-1.36	1.72	128.51	0.47	471622.76	548252.38	N 32 17 47.63	W 104 18 39.43
	3452.00	4.76	81.64	3445.92	-2.86	3.04	138.51	0.25	471624.10	548260.36	N 32 17 47.64	W 104 18 39.34
	3547.00	4.61	84.08	3540.80	-3.81	4.01	144.21	0.28	471625.07	548268.05	N 32 17 47.65	W 104 18 39.25
	3642.00	4.26	83.19	3635.32	-4.40	4.82	151.51	0.38	471625.88	548275.35	N 32 17 47.66	W 104 18 39.17
	3738.00	4.20	82.35	3729.08	-5.25	5.89	158.39	0.09	471626.75	548282.23	N 32 17 47.66	W 104 18 39.09
	3831.00	5.80	91.67	3823.70	-5.55	6.02	168.83	1.88	471627.08	548290.48	N 32 17 47.67	W 104 18 38.99
	3926.00	5.42	88.07	3918.25	-5.54	6.03	175.92	0.55	471627.09	548299.78	N 32 17 47.67	W 104 18 38.88
	4021.00	7.07	88.90	4012.68	-5.77	6.29	186.25	1.74	471627.35	548310.09	N 32 17 47.67	W 104 18 38.78
	4116.00	6.89	90.93	4108.97	-5.78	6.31	197.79	0.32	471627.37	548321.63	N 32 17 47.67	W 104 18 38.63
	4210.00	7.11	90.82	4200.27	-5.55	6.14	209.24	0.23	471627.20	548333.08	N 32 17 47.67	W 104 18 38.49
	4305.00	6.49	92.99	4294.81	-5.18	5.77	220.48	0.71	471626.83	548344.32	N 32 17 47.67	W 104 18 38.38
	4400.00	5.83	93.71	4389.06	-4.54	5.18	230.66	0.70	471626.24	548354.50	N 32 17 47.66	W 104 18 38.24
	4496.00	5.36	95.44	4484.80	-3.77	4.44	239.99	0.52	471625.50	548363.83	N 32 17 47.65	W 104 18 38.14
	4589.00	4.94	95.75	4577.22	-2.93	3.63	248.30	0.45	471624.69	548372.13	N 32 17 47.64	W 104 18 38.04
	4684.00	6.59	89.73	4671.74	-2.52	3.24	257.82	1.85	471624.30	548381.68	N 32 17 47.64	W 104 18 37.93
	4779.00	6.34	89.15	4768.14	-2.80	3.35	268.52	0.27	471624.41	548392.35	N 32 17 47.64	W 104 18 37.80
	4874.00	6.15	87.88	4860.57	-2.83	3.81	278.85	0.25	471624.67	548402.68	N 32 17 47.64	W 104 18 37.68
	4968.00	5.75	88.70	4954.07	-3.10	3.90	288.58	0.44	471624.96	548412.42	N 32 17 47.65	W 104 18 37.57
	5062.00	5.83	91.77	5047.59	-3.03	3.86	298.06	0.34	471624.92	548421.90	N 32 17 47.65	W 104 18 37.46
	5157.00	5.54	91.44	5142.12	-2.74	3.80	307.47	0.31	471624.86	548431.30	N 32 17 47.64	W 104 18 37.35
	5253.00	4.55	99.78	5237.75	-1.95	2.84	315.86	1.28	471623.90	548439.69	N 32 17 47.64	W 104 18 37.25
	5347.00	5.30	98.05	5331.40	-0.89	1.60	323.83	0.81	471622.86	548447.86	N 32 17 47.62	W 104 18 37.16
	5440.00	4.78	96.95	5424.04	0.40	0.53	331.91	0.59	471621.59	548455.74	N 32 17 47.61	W 104 18 37.07
	5535.00	7.32	80.53	5518.51	-0.09	1.05	341.80	3.22	471622.11	548465.63	N 32 17 47.62	W 104 18 36.95
	5630.00	7.58	77.61	5612.71	-2.40	3.39	353.89	0.48	471624.45	548477.71	N 32 17 47.64	W 104 18 36.81
	5725.00	7.16	79.02	5706.93	-4.84	5.86	365.82	0.48	471626.92	548489.64	N 32 17 47.67	W 104 18 36.67
	5820.00	6.19	81.37	5801.28	-6.70	7.75	378.69	1.08	471628.81	548500.52	N 32 17 47.68	W 104 18 36.54
	5915.00	5.63	80.53	5895.78	-8.21	9.29	386.35	0.80	471630.35	548510.18	N 32 17 47.70	W 104 18 36.43
	6010.00	5.07	81.05	5990.36	-8.61	10.71	395.10	0.59	471631.77	548518.92	N 32 17 47.71	W 104 18 36.33
	6104.00	4.33	81.27	6084.04	-10.77	11.89	402.71	0.79	471632.95	548526.53	N 32 17 47.73	W 104 18 36.24
	6199.00	4.01	79.15	6178.79	-11.92	13.06	409.52	0.37	471634.12	548533.34	N 32 17 47.74	W 104 18 36.16
	6294.00	3.49	80.62	6273.59	-13.00	14.16	415.83	0.56	471635.22	548539.45	N 32 17 47.75	W 104 18 36.09
	6389.00	4.41	82.34	6368.36	-13.94	15.12	422.10	0.98	471636.18	548545.92	N 32 17 47.76	W 104 18 36.01
	6484.00	6.49	94.09	6462.93	-14.02	15.22	431.08	2.47	471636.28	548554.90	N 32 17 47.76	W 104 18 35.91
	6579.00	5.32	94.46	6557.43	-13.27	14.50	440.83	1.23	471635.56	548564.65	N 32 17 47.75	W 104 18 35.80
	6673.00	4.19	99.43	6651.10	-12.34	13.60	448.56	1.28	471634.65	548572.38	N 32 17 47.74	W 104 18 35.71
	6767.00	3.47	102.59	6744.89	-11.14	12.41	454.72	0.80	471633.47	548578.54	N 32 17 47.73	W 104 18 35.

Comments	MD (N)	Incl (°)	Azim Grid (°)	TVD (N)	VSEC (N)	NS (N)	EW (N)	DLS (°/100ft)	Northing (NUS)	Easting (NUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7241.00	1.51	148.60	7218.56	-3.54	4.85	469.47	0.42	471625.91	548593.29	N 32 17 47.66 W 104 18 35.48	
	7335.00	1.74	168.98	7312.52	-1.08	2.39	470.39	0.68	471623.45	548594.21	N 32 17 47.63 W 104 18 35.45	
	7429.00	1.48	203.81	7406.49	1.43	-0.12	470.17	1.08	471620.94	548593.99	N 32 17 47.61 W 104 18 35.45	
	7524.00	0.96	249.41	7501.47	2.83	-1.52	468.93	1.12	471619.54	548592.75	N 32 17 47.59 W 104 18 35.47	
	7619.00	0.85	190.93	7598.46	3.80	-2.49	468.05	0.94	471618.57	548591.87	N 32 17 47.58 W 104 18 35.48	
	7713.00	1.85	141.88	7690.43	5.68	-4.37	468.88	1.54	471616.89	548592.88	N 32 17 47.56 W 104 18 35.47	
	7808.00	2.28	158.25	7785.37	8.03	-7.32	470.50	0.75	471613.74	548594.32	N 32 17 47.54 W 104 18 35.45	
	7903.00	0.56	185.78	7880.34	10.84	-9.52	471.15	1.88	471611.54	548594.96	N 32 17 47.51 W 104 18 35.44	
	7998.00	0.85	167.52	7975.34	11.82	-10.51	471.22	0.22	471610.55	548595.03	N 32 17 47.50 W 104 18 35.44	
	8016.00	0.63	169.93	7993.34	12.02	-10.71	471.28	0.19	471610.38	548595.07	N 32 17 47.50 W 104 18 35.44	
	8040.00	0.88	165.59	8017.33	12.33	-11.01	471.32	1.07	471610.05	548595.14	N 32 17 47.50 W 104 18 35.44	
	8071.00	1.57	163.70	8048.33	12.97	-11.65	471.50	2.23	471609.41	548595.32	N 32 17 47.49 W 104 18 35.44	
	8103.00	5.34	158.82	8080.28	14.78	-13.46	472.16	11.81	471607.60	548595.96	N 32 17 47.47 W 104 18 35.43	
	8135.00	9.17	159.44	8112.00	18.58	-17.24	473.80	11.97	471603.82	548597.41	N 32 17 47.44 W 104 18 35.41	
	8166.00	13.60	166.64	8142.39	24.43	-23.10	475.31	14.98	471597.96	548599.13	N 32 17 47.38 W 104 18 35.39	
	8198.00	16.33	172.81	8173.30	32.58	-31.23	476.78	9.79	471589.84	548600.57	N 32 17 47.30 W 104 18 35.38	
	8230.00	19.38	178.83	8203.78	42.32	-40.99	477.83	10.35	471580.07	548601.45	N 32 17 47.20 W 104 18 35.37	
	8262.00	23.80	180.12	8233.50	54.09	-52.75	477.91	14.32	471568.31	548601.73	N 32 17 47.09 W 104 18 35.36	
	8293.00	27.16	184.10	8261.49	67.40	-66.07	477.39	12.18	471554.99	548601.21	N 32 17 46.95 W 104 18 35.37	
	8325.00	28.05	185.50	8289.84	82.18	-80.85	476.15	3.44	471540.22	548599.96	N 32 17 46.81 W 104 18 35.39	
	8356.00	30.16	183.71	8316.93	97.20	-95.87	474.95	7.36	471525.19	548598.78	N 32 17 46.68 W 104 18 35.40	
	8387.00	34.31	181.83	8343.15	113.71	-112.39	474.18	13.77	471508.68	548597.98	N 32 17 46.50 W 104 18 35.41	
	8419.00	37.38	180.66	8369.08	132.44	-131.12	473.78	9.83	471489.95	548597.58	N 32 17 46.31 W 104 18 35.41	
	8450.00	39.54	180.72	8393.35	151.72	-150.40	473.53	8.97	471470.88	548597.35	N 32 17 46.12 W 104 18 35.42	
	8482.00	43.09	181.08	8417.39	172.84	-171.52	473.20	11.12	471449.58	548597.01	N 32 17 45.91 W 104 18 35.42	
	8514.00	45.48	181.89	8440.29	195.17	-193.85	472.85	7.59	471427.23	548596.47	N 32 17 45.69 W 104 18 35.43	
HL Crossing	8535.50	46.37	181.85	8455.25	210.61	-209.29	472.18	4.16	471411.79	548595.99	N 32 17 45.54 W 104 18 35.43	
	8548.00	48.80	181.93	8482.48	218.23	-216.91	471.92	4.16	471404.17	548595.74	N 32 17 45.48 W 104 18 35.43	
	8577.00	48.80	182.09	8483.29	241.18	-239.88	471.12	8.46	471381.22	548594.93	N 32 17 45.23 W 104 18 35.44	
	8609.00	50.79	182.06	8503.94	265.60	-264.28	470.23	8.22	471356.80	548594.05	N 32 17 44.99 W 104 18 35.45	
	8641.00	52.08	181.56	8523.89	290.60	-289.29	469.44	4.21	471331.79	548593.26	N 32 17 44.75 W 104 18 35.46	
	8673.00	53.78	182.03	8543.18	318.12	-314.81	468.64	5.44	471308.28	548592.46	N 32 17 44.49 W 104 18 35.47	
	8704.00	55.88	181.66	8561.08	341.41	-340.11	467.83	6.21	471280.98	548591.65	N 32 17 44.24 W 104 18 35.48	
	8736.00	57.14	181.00	8578.78	368.08	-366.78	467.21	4.88	471254.34	548591.03	N 32 17 43.98 W 104 18 35.49	
	8768.00	57.95	180.82	8595.96	395.08	-393.75	466.78	2.58	471227.34	548590.80	N 32 17 43.71 W 104 18 35.50	
	8800.00	58.88	179.68	8612.72	422.31	-421.01	466.87	4.20	471200.09	548590.48	N 32 17 43.44 W 104 18 35.50	
	8831.00	61.26	178.87	8628.19	449.17	-447.87	467.05	8.18	471173.23	548590.87	N 32 17 43.18 W 104 18 35.49	
	8863.00	65.19	178.21	8642.60	477.73	-476.43	467.83	12.35	471144.68	548591.85	N 32 17 42.89 W 104 18 35.48	
	8893.00	67.53	178.73	8654.82	505.20	-503.90	468.57	7.98	471117.21	548592.38	N 32 17 42.62 W 104 18 35.47	
	8925.00	70.34	178.80	8668.12	535.06	-533.75	469.21	8.78	471087.38	548593.03	N 32 17 42.33 W 104 18 35.47	
	8957.00	73.70	179.19	8678.00	565.49	-564.18	469.74	10.58	471058.94	548593.56	N 32 17 42.03 W 104 18 35.46	
	8988.00	74.75	179.79	8684.43	595.32	-594.01	470.01	3.87	471027.11	548593.82	N 32 17 41.73 W 104 18 35.48	
	9020.00	77.18	181.00	8692.19	626.38	-625.05	469.78	8.43	470996.07	548593.81	N 32 17 41.42 W 104 18 35.48	
	9052.00	81.17	182.88	8698.20	657.76	-656.45	468.73	13.74	470964.87	548592.54	N 32 17 41.11 W 104 18 35.47	
	9084.00	84.00	183.43	8702.33	689.43	-688.13	468.98	9.01	470932.99	548590.80	N 32 17 40.80 W 104 18 35.49	
	9115.00	88.32	183.42	8704.40	720.30	-719.00	465.13	13.94	470902.13	548588.95	N 32 17 40.49 W 104 18 35.52	
	9147.00	92.24	182.11	8704.25	752.25	-750.96	463.59	12.92	470870.17	548587.40	N 32 17 40.18 W 104 18 35.53	
	9177.00	93.25	181.71	8702.81	782.19	-780.90	462.59	3.82	470840.23	548586.41	N 32 17 39.88 W 104 18 35.54	
	9209.00	93.38	181.60	8700.97	814.12	-812.84	461.67	0.49	470808.30	548585.48	N 32 17 39.58 W 104 18 35.56	
	9242.00	92.19	181.80	8699.37	847.07	-845.78	460.89	3.80	470775.35	548584.51	N 32 17 39.24 W 104 18 35.57	
	9271.00	91.63	181.55	8698.40	876.04	-874.78	459.84	2.11	470748.39	548583.66	N 32 17 38.95 W 104 18 35.58	
	9304.00	91.35	179.99	8696.76	939.00	-937.73	458.99	2.51	470683.42	548582.81	N 32 17 38.33 W 104 18 35.59	
	9336.00	91.91	179.74	8695.85	970.99	-969.71	459.07	1.92	470651.44	548582.89	N 32 17 38.01 W 104 18 35.59	
	9367.00	92.35	179.38	8694.70	1001.97	-1000.69	459.31	1.83	470620.46	548583.13	N 32 17 37.71 W 104 18 35.58	
	9429.00	92.64	179.68	8693.31	1033.94	-1032.66	459.52	1.75	470588.50	548583.34	N 32 17 37.39 W 104 18 35.58	
	9461.00	90.67	180.41	8692.38	1065.92	-1064.64	459.44	8.39	470558.51	548583.26	N 32 17 37.07 W 104 18 35.58	
	9529.00	89.14	182.57	8692.50	1133.89	-1132.62	457.68	3.89	470488.55	548581.49	N 32 17 36.40 W 104 18 35.60	
	9624.00	90.17	184.66	8693.07	1228.67	-1227.42	451.89	2.45	470393.76	548575.51	N 32 17 35.48 W 104 18 35.67	
	9719.00	91.26	183.01	8691.88	1323.43	-1322.19	445.33	2.08	470298.99	548569.15	N 32 17 34.52 W 104 18 35.75	
	9813.00	91.29	181.87	8689.79	1417.31	-1416.08	441.33	1.21	470205.11	548565.15	N 32 17 33.60 W 104 18 35.79	
	9908.00	90.97	179.83	8687.92	1512.27	-1511.05	439.92	2.17	470110.15	548563.74	N 32 17 32.68 W 104 18 35.81	
	10003.00	91.32	178.71	8686.02	1607.21	-1605.98	442.79	3.30	470015.23	548566.61	N 32 17 31.72 W 104 18 35.78	
	10098.00	90.69	179.07	8684.35	1702.13	-1700.89	446.29	2.57	469920.33	548570.11	N 32 17 30.78 W 104 18 35.74	
	10193.00	90.32	177.83	8683.51	1797.09	-1795.84	449.02	1.56	469825.38	548572.84	N 32 17 29.84 W 104 18 35.71	
	10288.00	89.91	177.90	8683.32	1892.03	-1890.77	452.73	0.52	469730.47	548576.55	N 32 17 28.90 W 104 18 35.68	
	10382.00	88.68	179.98	8684.48	1986.00	-1984.74	454.47	2.57	469636.50	548578.28	N 32 17 27.97 W 104 18 35.64	
	10477.00	89.23	180.87	8686.21	2080.98	-2079.72	453.78	1.10	469541.53	548577.58	N 32 17 27.03 W 104 18 35.65	
	10572.00	88.42	180.82	8688.16	2175.95	-2174.69	452.53	0.89	469446.57	548576.35	N 32 17 26.09 W 104 18 35.67	
	10667.00	88.65	179.34	8690.59	2270.91	-2269.66	452.56	1.37	469351.61	548576.38	N 32 17 25.15 W 104 18 35.67	
	10761.00	88.83	182.61	8692.88	2364.86	-2363.61	450.86	3.48	469257.67	548574.78	N 32 17 24.22 W 104 18 35.68	
	10856.00	89.60	181.55	8693.98	2459.78	-2458.54	447.51	1.38	469162.75	548571.33	N 32 17 23.28 W 104 18 35.72	
	10950.00	89.43	180.81	8694.75	2553.75	-2552.51	445.74	1.02	469068.78	548569.58	N 32 17 22.35 W 104 18 35.75	
	11045.00	89.83	181.19	8695.37	2648.73	-2647.50	444.26	0.73	468973.81	548568.08	N 32 17 21.41 W 104 18 35.76	
	11139.00	89.57	180.31	8695.88	2742.72	-2741.49	443.04	0.97	468879.82	548566.88	N 32 17 20.48 W 104 18 35.78	
	11233.00	90.03	182.03	8696.19	2836.69	-2835.47	441.12	1.89	468785.88	548564.94	N 32 17 19.55 W 104 18 35.80	
	11327.00	90.40	178.41	8695.84	2930.67	-2929.45	440.78	3.87	468691.88	548564.58	N 32 17 18.62 W 104 18 35.80	
	11421.00	89.68	175.87	8695.77	3024.55	-3023.31	445.61	3.01	468598.03	54856		

Borehole:	Well:	Field:	Structure:
Asteroid 20-29 Fed Com WCA 2H	Asteroid 20-29 Fed Com WCA 2H	NM Eddy County (NAD 83)	Chisholm Asteroid 20-29 WCA 2H
Gravity & Magnetic Parameters Model: HDGM 2019 Dip: 59.815° Date: 14-Nov-2019 MagDec: 7.244° FS: 47806.38nT Gravity FS: 998.45mgm (9.80665 Based)			
Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet Lat: N 32 17 47.51 Moring: 471621.06mEUS Grid Conv: 0.0117° Lon: W 104 18 40.83 Easting: 648123.86mEUS Scale Fact: 0.99999914			
Miscellaneous Slot: New Slot TVD Ref: RGR(3417.70 above MSL) Plan: Chisholm Asteroid 20-29 Fed Com WCA 2H MWD Surveys 9ft to 18519ft MD			

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DL3
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
First SLB MWD Survey	159.00	0.61	232.19	159.00	0.52	-0.52	-0.67	0.38
HL Crossing	8535.50	48.37	181.85	8455.25	210.61	-209.29	472.18	4.18
Final Survey	18428.00	89.97	181.82	8695.31	10027.84	-10026.51	492.85	3.31
Projection To B2	18519.00	89.97	181.82	8695.36	10118.80	-10117.47	490.31	0.00

