

**CHISHOLM
ENERGY**

**NM OIL CONSERVATION
ARTESIA DISTRICT**

MAR 08 2019

RECEIVED

Chisholm Energy

Eddy Co, NM

Dark Canyon SWD

Dark Canyon SWD #1

SWD #1

30.015-45033

SWD-1781

Design: SWD #1

Standard Survey Report

19 February, 2019

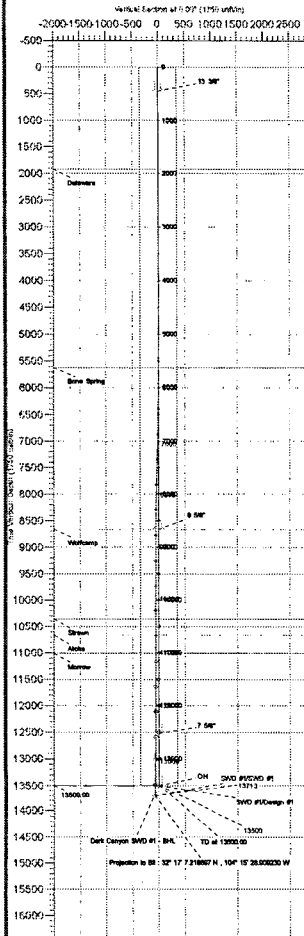
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3/21/19



Chisholm Energy
Eddy Co, NM
Dark Canyon SWD #1
SWD #1
Plan: Design #1 (Dark Canyon SWD #1/SWD #1)
GE43252-KB-23.5 @ 3276.50usR

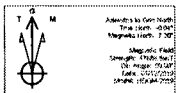
gyro/data



FORMATION TOPS ALONG WELLBORE		
TVD	MD	Formation
1300.00	1300.00	Chimney
5000.00	5000.00	Chimney
8000.00	8000.00	Chimney
10000.00	10000.00	Chimney
11000.00	11000.00	Chimney
12000.00	12000.00	Chimney
13000.00	13000.00	Chimney
14000.00	14000.00	Chimney
15000.00	15000.00	Chimney
16000.00	16000.00	Chimney

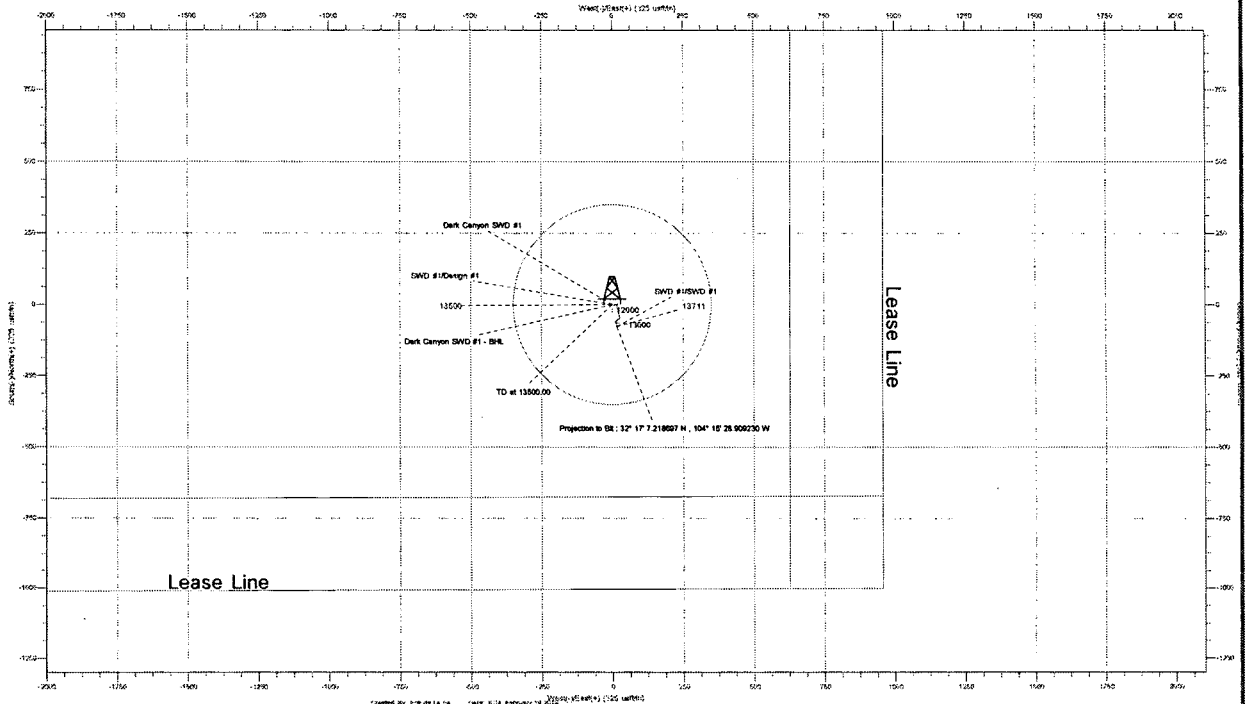
PROJECT DETAILS: Eddy Co, NM		
Operator	Chisholm Energy	
Location	Dark Canyon SWD #1	
Well Name	Dark Canyon SWD #1	
Well Type	SWD #1	
Well Status	Active	
Well Depth	13000.00	
Well Diameter	13.38"	
Well Completion	Open	
Well Production	Open	
Well Injection	Open	
Well Monitoring	Open	
Well Maintenance	Open	
Well Repair	Open	
Well Decommission	Open	

SECTION DETAILS									
Sec	MD	MDP	Ad	TVD	+W-S	+E-W	Dr	T-Dr	Target
1	1300.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1300.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



CASINO DETAILS			
TVD	MD	Name	Size
450.00	450.00	13.38"	13.37
5500.00	5500.00	8.88"	8.82
12515.00	12515.00	7.04"	7.02
13000.00	13000.00	OH	8.13

WELLBORE TARGET DETAILS					
Name	TVD	+W-S	+E-W	Northing	Easting
Dark Canyon SWD #1 - SR	13000.00	0.00	0.00	467824.15	564591.10
		Shape: Circle (Radius: 300.00)			



Company:	Chisholm Energy	Local Co-ordinate Reference:	Well Dark Canyon SWD #1
Project:	Eddy Co, NM	TVD Reference:	GE=3252+KB=23.5 @ 3275.50usft
Site:	Dark Canyon SWD	MD Reference:	GE=3252+KB=23.5 @ 3275.50usft
Well:	Dark Canyon SWD #1	North Reference:	Grid
Wellbore:	SWD #1	Survey Calculation Method:	Minimum Curvature
Design:	SWD #1	Database:	Gyrodata NWDB

Project	Eddy Co, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Dark Canyon SWD		
Site Position:		Northing:	467,624.10 usft
From:	Map	Easting:	564,591.10 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	32° 17' 7.980952 N
		Longitude:	104° 15' 29.104910 W
		Grid Convergence:	0.04 °

Well	Dark Canyon SWD #1		
Well Position	+N/-S	0.00 usft	Northing: 467,624.10 usft
	+E/-W	0.00 usft	Easting: 564,591.10 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 17' 7.980952 N
		Longitude:	104° 15' 29.104910 W
		Ground Level:	3,252.00 usft

Wellbore	SWD #1		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM-2019	01/12/19	7.34
			Dip Angle (°)
			60.00
			Field Strength (nT)
			47,886.51

Design	SWD #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			0.00

Survey Program	Date 02/19/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
177.00	13,713.00	Survey #1 (SWD #1)	MWD+HRGM+AX
			Description
			OWSG MWD + HRGM + Axial Correction

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.00	0.67	163.46	177.00	-0.99	0.29	-0.99	0.38	0.38	0.00
205.00	0.73	163.33	204.99	-1.32	0.39	-1.32	0.21	0.21	-0.46
400.00	1.05	67.40	399.98	-1.82	2.40	-1.82	0.69	0.16	-49.19
530.00	1.40	137.71	529.95	-2.54	4.57	-2.54	1.11	0.27	54.08
617.00	1.17	58.99	616.94	-2.87	6.04	-2.87	1.88	-0.26	-90.48
777.00	1.93	68.43	776.88	-1.04	9.95	-1.04	0.50	0.47	5.90
873.00	2.34	69.44	872.81	0.25	13.29	0.25	0.43	0.43	1.05
968.00	2.12	69.11	967.74	1.55	16.74	1.55	0.23	-0.23	-0.35
1,064.00	0.26	141.19	1,063.72	2.02	18.54	2.02	2.14	-1.94	75.08

Company:	Chisholm Energy	Local Co-ordinate Reference:	Well Dark Canyon SWD #1
Project:	Eddy Co, NM	TVD Reference:	GE=3252+KB=23.5 @ 3275.50usft
Site:	Dark Canyon SWD	MD Reference:	GE=3252+KB=23.5 @ 3275.50usft
Well:	Dark Canyon SWD #1	North Reference:	Grid
Wellbore:	SWD #1	Survey Calculation Method:	Minimum Curvature
Design:	SWD #1	Database:	Gyrodata NWDB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,159.00	0.23	185.62	1,158.72	1.66	18.66	1.66	0.20	-0.03	46.77
1,254.00	0.22	177.03	1,253.72	1.29	18.65	1.29	0.04	-0.01	-9.04
1,350.00	0.22	189.08	1,349.72	0.92	18.63	0.92	0.05	0.00	12.55
1,445.00	0.24	175.59	1,444.71	0.54	18.61	0.54	0.06	0.02	-14.20
1,540.00	0.20	193.04	1,539.71	0.18	18.59	0.18	0.08	-0.04	18.37
1,636.00	0.11	214.00	1,635.71	-0.06	18.50	-0.06	0.11	-0.09	21.83
1,730.00	0.13	270.30	1,729.71	-0.13	18.35	-0.13	0.12	0.02	59.89
1,826.00	0.12	242.64	1,825.71	-0.18	18.15	-0.18	0.06	-0.01	-28.81
1,921.00	0.06	197.31	1,920.71	-0.27	18.04	-0.27	0.09	-0.06	-47.72
2,016.00	0.10	178.94	2,015.71	-0.40	18.03	-0.40	0.05	0.04	-19.34
2,111.00	0.10	147.44	2,110.71	-0.55	18.08	-0.55	0.06	0.00	-33.16
2,207.00	0.08	164.89	2,206.71	-0.69	18.14	-0.69	0.04	-0.02	18.18
2,302.00	0.08	180.10	2,301.71	-0.82	18.16	-0.82	0.02	0.00	16.01
2,398.00	0.07	217.28	2,397.71	-0.93	18.12	-0.93	0.05	-0.01	38.73
2,493.00	0.08	267.06	2,492.71	-0.98	18.02	-0.98	0.07	0.01	52.40
2,588.00	0.43	263.21	2,587.71	-1.03	17.60	-1.03	0.37	0.37	-4.05
2,683.00	0.10	311.20	2,682.71	-1.02	17.18	-1.02	0.39	-0.35	50.52
2,778.00	0.12	296.60	2,777.71	-0.92	17.03	-0.92	0.04	0.02	-15.37
2,873.00	0.08	309.04	2,872.71	-0.83	16.89	-0.83	0.05	-0.04	13.09
2,968.00	0.08	246.56	2,967.71	-0.81	16.78	-0.81	0.09	0.00	-65.77
3,062.00	0.08	247.88	3,061.71	-0.87	16.66	-0.87	0.00	0.00	1.40
3,158.00	0.05	272.19	3,157.71	-0.89	16.55	-0.89	0.04	-0.03	25.32
3,253.00	0.08	252.47	3,252.71	-0.91	16.45	-0.91	0.04	0.03	-20.76
3,348.00	0.01	24.22	3,347.71	-0.92	16.39	-0.92	0.09	-0.07	138.68
3,444.00	0.03	140.52	3,443.71	-0.93	16.41	-0.93	0.04	0.02	121.15
3,539.00	0.12	173.09	3,538.71	-1.05	16.44	-1.05	0.10	0.09	34.28
3,634.00	0.03	187.48	3,633.71	-1.17	16.45	-1.17	0.10	-0.09	15.15
3,730.00	0.08	111.89	3,729.71	-1.22	16.50	-1.22	0.08	0.05	-78.74
3,825.00	0.10	166.76	3,824.71	-1.33	16.59	-1.33	0.09	0.02	57.76
3,920.00	0.07	171.35	3,919.71	-1.47	16.61	-1.47	0.03	-0.03	4.83
4,015.00	0.03	252.83	4,014.71	-1.53	16.60	-1.53	0.08	-0.04	85.77
4,111.00	0.04	6.95	4,110.71	-1.50	16.58	-1.50	0.06	0.01	118.87
4,206.00	0.03	216.71	4,205.71	-1.49	16.57	-1.49	0.07	-0.01	-158.15
4,301.00	0.07	297.75	4,300.71	-1.48	16.50	-1.48	0.08	0.04	85.31
4,396.00	0.07	315.58	4,395.71	-1.42	16.41	-1.42	0.02	0.00	18.77
4,492.00	0.02	203.87	4,491.71	-1.39	16.36	-1.39	0.08	-0.05	-116.36
4,587.00	0.03	313.30	4,586.71	-1.39	16.34	-1.39	0.04	0.01	115.19
4,682.00	0.08	300.84	4,681.71	-1.34	16.26	-1.34	0.05	0.05	-13.12
4,777.00	0.08	317.14	4,776.71	-1.25	16.16	-1.25	0.02	0.00	17.16
4,871.00	0.09	337.04	4,870.71	-1.14	16.09	-1.14	0.03	0.01	21.17
4,966.00	0.03	290.39	4,965.71	-1.06	16.03	-1.06	0.08	-0.06	-49.11
5,061.00	0.07	336.88	5,060.71	-1.00	15.99	-1.00	0.06	0.04	48.94
5,157.00	0.02	30.75	5,156.71	-0.93	15.97	-0.93	0.06	-0.05	56.11
5,254.00	0.08	4.29	5,253.71	-0.85	15.99	-0.85	0.06	0.06	-27.28

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Project:	Eddy Co, NM	TVD Reference:	GE=3252+KB=23.5 @ 3275.50usft
Site:	Dark Canyon SWD	MD Reference:	GE=3252+KB=23.5 @ 3275.50usft
Well:	Dark Canyon SWD #1	North Reference:	Grid
Wellbore:	SWD #1	Survey Calculation Method:	Minimum Curvature
Design:	SWD #1	Database:	Gyrodata NWDB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,349.00	0.06	16.44	5,348.71	-0.73	16.01	-0.73	0.03	-0.02	12.79
5,442.00	0.06	44.98	5,441.71	-0.65	16.05	-0.65	0.03	0.00	30.69
5,537.00	0.04	38.65	5,536.71	-0.59	16.11	-0.59	0.02	-0.02	-6.66
5,633.00	0.06	193.47	5,632.71	-0.61	16.12	-0.61	0.10	0.02	161.27
5,728.00	0.02	149.99	5,727.71	-0.68	16.12	-0.68	0.05	-0.04	-45.77
5,824.00	0.13	209.45	5,823.71	-0.79	16.07	-0.79	0.13	0.11	61.94
5,918.00	0.17	189.85	5,917.71	-1.02	15.99	-1.02	0.07	0.04	-20.85
6,014.00	0.14	165.40	6,013.71	-1.27	16.00	-1.27	0.07	-0.03	-25.47
6,109.00	0.13	158.27	6,108.71	-1.48	16.07	-1.48	0.02	-0.01	-7.51
6,204.00	0.14	189.91	6,203.71	-1.70	16.09	-1.70	0.08	0.01	33.31
6,299.00	0.14	244.28	6,298.71	-1.86	15.96	-1.86	0.13	0.00	57.23
6,394.00	0.06	215.16	6,393.71	-1.95	15.83	-1.95	0.10	-0.08	-30.65
6,490.00	0.42	141.87	6,489.71	-2.27	16.02	-2.27	0.42	0.37	-76.34
6,585.00	0.68	160.77	6,584.70	-3.08	16.42	-3.08	0.33	0.27	19.89
6,680.00	1.47	164.41	6,679.68	-4.78	16.93	-4.78	0.83	0.83	3.83
6,776.00	1.87	169.74	6,775.64	-7.51	17.54	-7.51	0.45	0.42	5.55
6,871.00	2.12	163.59	6,870.59	-10.72	18.32	-10.72	0.35	0.26	-6.47
6,967.00	2.62	166.10	6,966.50	-14.56	19.34	-14.56	0.53	0.52	2.61
7,062.00	2.42	167.36	7,061.41	-18.62	20.30	-18.62	0.22	-0.21	1.33
7,157.00	1.87	170.02	7,156.34	-22.10	21.01	-22.10	0.59	-0.58	2.80
7,252.00	1.68	168.76	7,251.30	-25.00	21.55	-25.00	0.20	-0.20	-1.33
7,348.00	1.36	162.24	7,347.26	-27.46	22.17	-27.46	0.38	-0.33	-6.79
7,443.00	1.84	174.68	7,442.23	-30.05	22.66	-30.05	0.62	0.51	13.09
7,539.00	1.97	166.74	7,538.18	-33.19	23.18	-33.19	0.31	0.14	8.27
7,634.00	1.94	165.76	7,633.12	-36.34	23.95	-36.34	0.05	-0.03	-1.03
7,729.00	2.75	164.59	7,728.04	-40.10	24.95	-40.10	0.85	0.85	-1.23
7,824.00	2.34	159.86	7,822.95	-44.12	26.23	-44.12	0.48	-0.43	-4.98
7,920.00	1.30	159.89	7,918.90	-46.98	27.27	-46.98	1.08	-1.08	0.03
8,013.00	0.74	214.92	8,011.88	-48.46	27.29	-48.46	1.15	-0.60	59.17
8,106.00	0.60	236.49	8,104.88	-49.22	26.54	-49.22	0.31	-0.15	23.19
8,202.00	0.91	241.71	8,200.87	-49.86	25.45	-49.86	0.33	0.32	5.44
8,297.00	1.33	244.62	8,295.85	-50.69	23.79	-50.69	0.45	0.44	3.06
8,393.00	1.61	244.03	8,391.82	-51.76	21.57	-51.76	0.29	0.29	-0.61
8,488.00	1.82	240.79	8,486.78	-53.08	19.06	-53.08	0.24	0.22	-3.41
8,583.00	1.75	225.65	8,581.73	-54.83	16.70	-54.83	0.50	-0.07	-15.94
8,634.00	1.95	213.66	8,632.70	-56.10	15.67	-56.10	0.85	0.39	-23.51
8,778.00	0.13	185.02	8,776.67	-58.30	14.29	-58.30	1.28	-1.26	-19.89
8,873.00	0.14	40.57	8,871.67	-58.32	14.36	-58.32	0.27	0.01	-152.05
8,967.00	0.11	318.06	8,965.67	-58.16	14.37	-58.16	0.18	-0.03	-87.78
9,063.00	0.14	301.54	9,061.67	-58.03	14.21	-58.03	0.05	0.03	-17.21
9,158.00	0.14	232.76	9,156.67	-58.04	14.02	-58.04	0.17	0.00	-72.40
9,253.00	0.12	179.79	9,251.67	-58.21	13.93	-58.21	0.12	-0.02	-55.76
9,349.00	0.10	113.11	9,347.67	-58.35	14.01	-58.35	0.13	-0.02	-69.46

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Site:	Dark Canyon SWD	MD Reference:	GE=3252+KB=23.5 @ 3275.50usft
Well:	Dark Canyon SWD #1	North Reference:	Grid
Wellbore:	SWD #1	Survey Calculation Method:	Minimum Curvature
Design:	SWD #1	Database:	Gyrodata NWDB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,444.00	0.20	16.62	9,442.67	-58.22	14.13	-58.22	0.25	0.11	-101.57
9,539.00	0.24	234.37	9,537.67	-58.18	14.02	-58.18	0.44	0.04	-149.74
9,634.00	0.11	65.86	9,632.67	-58.26	13.94	-58.26	0.37	-0.14	-177.38
9,730.00	0.13	323.94	9,728.67	-58.13	13.96	-58.13	0.19	0.02	-106.17
9,825.00	0.14	42.54	9,823.67	-57.96	13.97	-57.96	0.18	0.01	82.74
9,921.00	0.22	172.56	9,919.67	-58.05	14.08	-58.05	0.34	0.08	135.44
10,016.00	0.22	216.27	10,014.67	-58.38	13.99	-58.38	0.17	0.00	46.01
10,112.00	0.11	288.56	10,110.67	-58.50	13.79	-58.50	0.22	-0.11	75.30
10,207.00	0.16	210.06	10,205.67	-58.59	13.64	-58.59	0.18	0.05	-82.63
10,302.00	0.08	92.42	10,300.67	-58.70	13.64	-58.70	0.22	-0.08	-123.83
10,397.00	0.10	288.64	10,395.67	-58.68	13.63	-58.68	0.19	0.02	-172.40
10,492.00	0.10	278.09	10,490.67	-58.64	13.47	-58.64	0.02	0.00	-11.11
10,588.00	0.18	199.83	10,586.67	-58.77	13.33	-58.77	0.20	0.08	-81.52
10,683.00	0.18	161.66	10,681.67	-59.05	13.33	-59.05	0.12	0.00	-40.18
10,778.00	0.24	232.46	10,776.67	-59.32	13.22	-59.32	0.26	0.06	74.53
10,874.00	0.08	29.81	10,872.67	-59.38	13.09	-59.38	0.33	-0.17	163.91
10,969.00	0.10	345.92	10,967.67	-59.24	13.11	-59.24	0.07	0.02	-46.20
11,064.00	0.11	155.41	11,062.67	-59.25	13.12	-59.25	0.22	0.01	178.41
11,160.00	0.10	110.57	11,158.67	-59.36	13.24	-59.36	0.08	-0.01	-46.71
11,255.00	0.10	47.35	11,253.67	-59.33	13.38	-59.33	0.11	0.00	-66.55
11,349.00	0.16	263.22	11,347.67	-59.29	13.31	-59.29	0.26	0.06	-153.33
11,445.00	0.07	77.57	11,443.67	-59.30	13.23	-59.30	0.24	-0.09	181.61
11,540.00	0.19	208.98	11,538.67	-59.42	13.21	-59.42	0.25	0.13	138.33
11,635.00	0.17	338.27	11,633.67	-59.43	13.09	-59.43	0.34	-0.02	136.09
11,731.00	0.12	340.98	11,729.67	-59.20	13.00	-59.20	0.05	-0.05	2.82
11,826.00	0.13	115.88	11,824.67	-59.15	13.06	-59.15	0.24	0.01	142.00
11,921.00	0.21	282.41	11,919.67	-59.16	12.99	-59.16	0.36	0.08	175.29
12,016.00	0.20	296.43	12,014.67	-59.05	12.67	-59.05	0.05	-0.01	14.76
12,112.00	0.22	198.08	12,110.67	-59.15	12.47	-59.15	0.33	0.02	-102.45
12,207.00	0.32	222.75	12,205.67	-59.52	12.23	-59.52	0.16	0.11	25.97
12,303.00	0.16	254.16	12,301.66	-59.75	11.92	-59.75	0.21	-0.17	32.72
12,398.00	0.12	21.68	12,396.66	-59.70	11.83	-59.70	0.27	-0.04	134.23
12,494.00	0.11	8.50	12,492.66	-59.51	11.88	-59.51	0.03	-0.01	-13.73
12,589.00	0.19	185.82	12,587.66	-59.58	11.88	-59.58	0.32	0.08	186.65
12,650.00	0.30	217.32	12,648.66	-59.81	11.77	-59.81	0.28	0.18	51.64
12,728.00	0.38	163.71	12,726.66	-60.22	11.72	-60.22	0.40	0.10	-68.73
12,823.00	0.83	161.76	12,821.66	-61.17	12.02	-61.17	0.47	0.47	-2.05
12,918.00	0.82	169.50	12,916.65	-62.50	12.36	-62.50	0.12	-0.01	8.15
13,013.00	1.13	160.50	13,011.63	-64.05	12.80	-64.05	0.36	0.33	-9.47
13,109.00	1.14	156.79	13,107.61	-65.82	13.49	-65.82	0.08	0.01	-3.86
13,204.00	0.98	157.86	13,202.60	-67.44	14.17	-67.44	0.17	-0.17	1.13
13,299.00	0.99	154.00	13,297.58	-68.93	14.83	-68.93	0.07	0.01	-4.06
13,395.00	1.12	160.24	13,393.57	-70.56	15.51	-70.56	0.18	0.14	6.50

Company:	Chisholm Energy	Local Co-ordinate Reference:	Well Dark Canyon SWD #1
Project:	Eddy Co, NM	TVD Reference:	GE=3252+KB=23.5 @ 3275.50usft
Site:	Dark Canyon SWD	MD Reference:	GE=3252+KB=23.5 @ 3275.50usft
Well:	Dark Canyon SWD #1	North Reference:	Grid
Wellbore:	SWD #1	Survey Calculation Method:	Minimum Curvature
Design:	SWD #1	Database:	Gyrodata NWDB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
13,490.00	1.21	163.18	13,488.55	-72.39	16.12	-72.39	0.11	0.09	3.09
13,499.90	1.21	164.16	13,498.45	-72.59	16.18	-72.59	0.21	-0.04	9.92
Dark Canyon SWD #1 - BHL									
13,586.00	1.19	172.88	13,584.53	-74.35	16.54	-74.35	0.21	-0.02	10.13
13,666.00	1.22	173.41	13,664.51	-76.02	16.74	-76.02	0.04	0.04	0.66
13,713.00	1.22	173.41	13,711.50	-77.02	16.85	-77.02	0.00	0.00	0.00
Projection to Bit : 32° 17' 7.218697 N , 104° 15' 28.909230 W									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
13,713.00	13,711.50	-77.02	16.85	Projection to Bit : 32° 17' 7.218697 N , 104° 15' 28.909230 W

Checked By: _____ Approved By: _____ Date: _____