

**5D Survey Report**

30-015-43619

Cimarex Energy

Field Name: *Cimarex Nad 83 NMEZ*
Site Name: *Bonnie 35 Federal Com #4H*
Well Name: *Bonnie 35 Federal Com #4H*
Survey: *Definitive survey*

30 June 2017

**NM OIL CONSERVATION
ARTESIA DISTRICT**

FEB 20 2018

RECEIVED

5D Survey Report


Weatherford®

Bonnie 35 Federal Com #4H

Field Name: Cimarex Nad 83 NMEZ	Map Units: US ft		Company Name: Cimarex Energy	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)			
	Comment:			
Site: Bonnie 35 Federal Com #4H	Units: US ft	North Reference: Grid	Convergence Angle: 0.04	
	Position:	Northing: 392820.04 US ft	Latitude: 32° 4' 47.72"	
		Easting: 563353.35 US ft	Longitude: -104° 15' 44.10"	
	Elevation above MSL: 3355.50 US ft			
Comment: Eddy Co, NM				
Slot: Bonnie 35 Federal Com #4H	Position (Relative to Site Centre)			
	+N/-S: 0.00 US ft	Northing: 392820.04 US ft	Latitude: 32°4'47.72"	
	+E/-W: 0.00 US ft	Easting: 563353.35 US ft	Longitude: -104°15'44.10"	
	Elevation above MSL: 3355.50 US ft			
Comment:				
Well: Bonnie 35 Federal Com #4H	Type: Main well		UWI:	
	File Number:	Comment:		
	Closure Distance: 4658.43 US ft	Closure Azimuth: 6.46°		
	Vertical Section: Position of Origin (Relative to Slot centre)			
+N/-S: -0.00 US ft		+E/-W: -0.00 US ft	Az: 0.57°	

Drill floor: Survey Name: Definitive Survey

Rig Height (Drill Floor): 23.00 US ft	Elevation above MSL: 3378.50 US ft	Inclination: 0.00°	Azimuth: 0.00°
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Survey Name: Definitive Survey

Date: 05/Jun/2017	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:
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Magnetic Model:

Model Name: bggm2017	Date: 25/Jun/2017	Field Strength: 47856.8 nT	Declination: 7.34°	Dip: 59.77°
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Tie Point:

MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00°	TVD: -0.00 US ft	North Offset: -0.00 US ft	East Offset: -0.00 US ft
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Survey Tool Ranges:

Name	Start MD(USFt)	End MD(USFt)	Source Survey
MWD	0.00	379.00	Extreme Svy_1
MWD	379.00	1836.00	Extreme Svy_2
MWD	1836.00	6694.00	Extreme Svy_3
MWD	6694.00	11116.00	Wf BHA_4

5D Survey Report

Survey Tool Ranges:			
Name	Start MD(USFt)	End MD(USFt)	Source Survey
MWD	11116.00	11991.00	WFT BHA_5

Casing Points: (Relative to Slot centre)(TVD relative to Drill Floor)								
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Name
454.00	1.72	250.88	453.88	-2.85	-8.69	392817.19	563344.66	13 3/8 In
1920.00	1.73	93.63	1919.01	2.95	25.67	392822.99	563379.02	9 5/8 In

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	-0.00	0.00	-0.00	-0.00	392820.04	563353.35	0.00	
23.00	0.00	0.00	23.00	0.00	-0.00	-0.00	392820.04	563353.35	0.00	
201.00	1.20	248.98	200.99	-0.69	-0.67	-1.74	392819.37	563351.61	0.67	
268.00	1.68	258.78	267.97	-1.14	-1.11	-3.36	392818.93	563350.00	0.80	
360.00	1.90	248.16	359.92	-2.00	-1.94	-6.10	392818.10	563347.26	0.43	
379.00	1.60	251.18	378.91	-2.21	-2.14	-6.64	392817.90	563346.71	1.65	
454.00	1.72	250.88	453.88	-2.94	-2.85	-8.69	392817.19	563344.66	0.15	13 3/8 In
509.00	1.80	250.68	508.85	-3.51	-3.40	-10.28	392816.64	563343.07	0.15	
569.00	1.68	247.68	568.83	-4.17	-4.05	-11.99	392815.99	563341.37	0.25	
659.00	0.49	198.59	658.81	-5.05	-4.92	-13.33	392815.12	563340.02	1.57	
751.00	0.71	72.69	750.81	-5.25	-5.12	-12.91	392814.92	563340.44	1.17	
840.00	1.28	52.77	839.79	-4.47	-4.35	-11.59	392815.69	563341.76	0.74	
935.00	1.02	47.88	934.78	-3.25	-3.15	-10.12	392816.90	563343.23	0.29	
1029.00	1.59	57.66	1028.75	-1.97	-1.89	-8.40	392818.15	563344.95	0.65	
1124.00	1.80	59.58	1123.71	-0.49	-0.43	-6.00	392819.61	563347.35	0.23	
1218.00	2.30	61.98	1217.65	1.18	1.21	-3.06	392821.25	563350.29	0.54	
1312.00	3.50	74.78	1311.53	2.86	2.85	1.37	392822.89	563354.73	1.44	
1406.00	2.78	78.57	1405.39	4.12	4.05	6.38	392824.09	563359.73	0.80	
1501.00	2.30	92.17	1500.29	4.54	4.44	10.54	392824.48	563363.89	0.81	
1597.00	2.61	97.59	1596.21	4.22	4.07	14.63	392824.12	563367.98	0.40	
1692.00	1.99	97.37	1691.13	3.76	3.58	18.41	392823.62	563371.76	0.65	
1786.00	1.81	95.16	1785.08	3.45	3.23	21.51	392823.28	563374.86	0.21	
1836.00	1.81	93.58	1835.05	3.34	3.11	23.08	392823.15	563376.44	0.10	
1920.00	1.73	93.63	1919.01	3.21	2.95	25.67	392822.99	563379.02	0.10	9 5/8 In
1972.00	1.68	93.66	1970.99	3.12	2.85	27.22	392822.89	563380.57	0.10	
2067.00	1.81	89.70	2065.94	3.07	2.77	30.11	392822.81	563383.46	0.19	
2161.00	1.59	90.80	2159.90	3.09	2.76	32.89	392822.80	563386.25	0.24	
2255.00	1.81	95.16	2253.86	2.96	2.61	35.68	392822.65	563389.03	0.27	
2350.00	1.81	91.20	2348.81	2.83	2.44	38.67	392822.48	563392.02	0.13	
2444.00	1.81	97.89	2442.77	2.62	2.21	41.62	392822.25	563394.98	0.22	
2539.00	1.68	96.57	2537.72	2.29	1.84	44.49	392821.88	563397.85	0.14	
2634.00	1.68	96.26	2632.68	2.00	1.53	47.26	392821.57	563400.62	0.01	
2728.00	1.68	102.70	2726.64	1.58	1.08	49.98	392821.12	563403.33	0.20	
2823.00	1.59	96.88	2821.60	1.14	0.61	52.64	392820.66	563406.00	0.20	
2917.00	1.41	101.46	2915.57	0.78	0.23	55.07	392820.27	563408.42	0.23	
3011.00	1.50	99.97	3009.54	0.36	-0.21	57.42	392819.83	563410.77	0.10	
3104.00	1.40	109.57	3102.51	-0.21	-0.81	59.69	392819.24	563413.04	0.28	
3199.00	1.41	107.59	3197.48	-0.93	-1.55	61.89	392818.49	563415.25	0.05	
3293.00	1.28	113.76	3291.46	-1.68	-2.32	63.96	392817.72	563417.31	0.21	
3387.00	1.28	109.66	3385.43	-2.44	-3.10	65.91	392816.94	563419.26	0.10	
3482.00	1.02	118.08	3480.41	-3.18	-3.85	67.65	392816.19	563421.01	0.33	
3577.00	1.19	111.60	3575.40	-3.92	-4.61	69.31	392815.43	563422.67	0.22	
3671.00	1.00	120.98	3669.38	-4.69	-5.39	70.93	392814.65	563424.28	0.28	
3765.00	1.10	115.96	3763.36	-5.49	-6.21	72.44	392813.83	563425.79	0.14	
3859.00	1.02	114.86	3857.35	-6.22	-6.96	74.01	392813.08	563427.36	0.09	
3953.00	0.80	117.77	3951.34	-6.86	-7.61	75.35	392812.43	563428.70	0.24	
4048.00	0.71	129.67	4046.33	-7.54	-8.30	76.39	392811.74	563429.74	0.19	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (%/100US ft)	
4143.00	0.49	162.28	4141.32	-8.30	-9.06	76.97	392810.98	563430.32	0.42	
4238.00	0.49	175.36	4236.32	-9.09	-9.85	77.12	392810.19	563430.48	0.12	
4332.00	0.49	181.58	4330.32	-9.89	-10.66	77.14	392809.38	563430.50	0.06	
4427.00	0.80	173.38	4425.31	-10.95	-11.72	77.21	392808.32	563430.56	0.34	
4521.00	0.80	201.36	4519.30	-12.22	-12.98	77.05	392807.06	563430.40	0.41	
4616.00	0.88	190.70	4614.29	-13.56	-14.32	76.67	392805.72	563430.02	0.18	
4711.00	1.10	206.17	4709.28	-15.10	-15.85	76.13	392804.19	563429.49	0.36	
4804.00	1.28	197.18	4802.26	-16.90	-17.65	75.43	392802.39	563428.79	0.28	
4899.00	1.28	197.09	4897.23	-18.93	-19.68	74.81	392800.36	563428.16	0.00	
4993.00	1.68	194.80	4991.20	-21.27	-22.01	74.15	392798.03	563427.50	0.43	
5088.00	1.59	191.89	5086.16	-23.91	-24.65	73.52	392795.39	563426.87	0.13	
5182.00	1.02	210.66	5180.14	-25.92	-26.64	72.82	392793.40	563426.18	0.75	
5276.00	2.12	197.66	5274.10	-28.30	-29.02	71.87	392791.02	563425.22	1.22	
5370.00	1.50	204.89	5368.05	-31.09	-31.79	70.82	392788.25	563424.18	0.70	
5464.00	1.50	208.59	5462.02	-33.29	-33.99	69.72	392786.05	563423.07	0.10	
5558.00	1.02	244.38	5556.00	-34.75	-35.43	68.37	392784.61	563421.73	0.96	
5652.00	0.90	301.48	5649.99	-34.74	-35.41	66.99	392784.63	563420.34	0.98	
5747.00	1.50	321.08	5744.97	-33.40	-34.05	65.57	392785.99	563418.93	0.76	
5841.00	1.41	318.98	5838.94	-31.58	-32.22	64.04	392787.82	563417.39	0.11	
5936.00	1.59	308.49	5933.91	-29.90	-30.52	62.24	392789.52	563415.60	0.34	
6031.00	2.10	291.98	6028.86	-28.45	-29.05	59.60	392790.99	563412.95	0.77	
6126.00	1.28	288.66	6123.81	-27.49	-28.06	56.98	392791.98	563410.33	0.87	
6221.00	1.10	325.28	6218.80	-26.41	-26.97	55.45	392793.07	563408.81	0.81	
6315.00	0.62	4.46	6312.79	-25.17	-25.72	54.98	392794.32	563408.33	0.78	
6410.00	0.80	317.39	6407.78	-24.17	-24.72	54.57	392795.32	563407.92	0.62	
6505.00	1.41	318.76	6502.76	-22.82	-23.35	53.35	392796.69	563406.70	0.64	
6599.00	1.19	321.18	6596.74	-21.20	-21.72	51.97	392798.32	563405.33	0.24	
6694.00	1.02	301.18	6691.72	-20.01	-20.51	50.63	392799.53	563403.99	0.44	Tie On Extreme
6735.00	1.02	313.18	6732.71	-19.58	-20.08	50.05	392799.97	563403.41	0.52	
6773.00	0.85	301.21	6770.71	-19.20	-19.70	49.57	392800.34	563402.92	0.68	
6835.00	3.07	86.42	6832.68	-18.85	-19.36	50.83	392800.68	563404.18	6.13	
6866.00	5.87	80.92	6863.59	-18.52	-19.05	53.23	392800.99	563406.58	9.13	
6898.00	8.43	71.22	6895.34	-17.47	-18.04	57.06	392802.00	563410.42	8.82	
6929.00	10.64	63.42	6925.91	-15.41	-16.03	61.77	392804.01	563415.13	8.24	
6960.00	13.09	61.86	6956.24	-12.42	-13.09	67.43	392806.95	563420.78	7.97	
6992.00	16.22	60.80	6987.20	-8.46	-9.20	74.53	392810.84	563427.88	9.82	
7024.00	18.73	60.35	7017.72	-3.65	-4.48	82.90	392815.56	563436.25	7.86	
7049.00	21.01	59.91	7041.23	0.65	-0.24	90.26	392819.80	563443.62	9.15	FTP 7049'MD
7055.00	21.56	59.82	7046.82	1.77	0.85	92.15	392820.89	563445.50	9.15	
7086.00	24.57	58.27	7075.34	8.12	7.10	102.56	392827.14	563455.91	9.90	
7117.00	27.47	56.44	7103.19	15.58	14.45	114.00	392834.49	563467.35	9.71	
7149.00	30.29	55.31	7131.21	24.38	23.12	126.79	392843.16	563480.14	8.98	
7181.00	33.79	54.72	7158.33	34.26	32.86	140.69	392852.90	563494.04	10.98	
7212.00	36.09	52.38	7183.74	44.95	43.41	154.96	392863.45	563508.32	8.59	
7244.00	37.61	48.18	7209.35	57.36	55.68	169.71	392875.72	563523.06	9.19	
7275.00	40.25	45.93	7233.47	70.78	68.95	183.96	392888.99	563537.31	9.66	
7307.00	43.33	45.63	7257.32	85.80	83.83	199.24	392903.87	563552.59	9.65	
7338.00	46.40	45.20	7279.29	101.31	99.18	214.81	392919.22	563568.16	9.95	
7369.00	49.42	43.81	7300.07	117.88	115.59	230.93	392935.63	563584.28	10.29	
7400.00	52.44	41.92	7319.61	135.68	133.23	247.29	392953.27	563600.64	10.83	
7432.00	55.57	40.66	7338.41	155.30	152.68	264.37	392972.72	563617.72	10.29	
7463.00	58.83	39.98	7355.20	175.34	172.55	281.22	392992.59	563634.58	10.68	
7494.00	62.21	38.58	7370.46	196.40	193.44	298.30	393013.48	563651.65	11.59	
7525.00	65.15	37.31	7384.20	218.48	215.35	315.38	393035.39	563668.73	10.17	
7557.00	68.28	35.71	7396.85	242.27	238.97	332.86	393059.01	563686.22	10.81	
7588.00	71.42	33.98	7407.53	266.32	262.86	349.48	393082.90	563702.84	11.40	
7620.00	74.05	32.01	7417.03	292.11	288.48	366.12	393108.52	563719.47	10.10	
7652.00	75.73	29.66	7425.37	318.79	315.01	381.95	393135.05	563735.30	8.82	

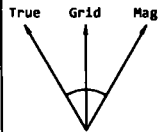
5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (%/100US ft)	
7683.00	77.02	27.51	7432.67	345.39	341.46	396.36	393161.50	563749.72	7.92	
7714.00	78.02	25.25	7439.37	372.64	368.58	409.81	393188.62	563763.16	7.81	
7746.00	79.23	23.13	7445.68	401.38	397.19	422.66	393217.23	563776.01	7.52	
7777.00	80.59	20.89	7451.11	429.78	425.49	434.10	393245.53	563787.45	8.36	
7809.00	82.00	19.16	7455.96	459.61	455.20	444.93	393275.24	563798.28	6.93	
7840.00	83.90	17.44	7459.76	488.91	484.41	454.59	393304.45	563807.94	8.24	
7872.00	84.89	15.83	7462.89	519.51	514.92	463.70	393334.96	563817.06	5.89	
7903.00	85.03	13.85	7465.61	549.44	544.77	471.61	393364.81	563824.96	6.38	
7935.00	84.82	12.19	7468.44	580.56	575.83	478.79	393395.87	563832.14	5.21	
7967.00	84.89	10.13	7471.31	611.89	607.09	484.96	393427.13	563838.31	6.42	
7999.00	86.78	7.98	7473.64	643.45	638.61	489.98	393458.65	563843.33	8.93	
8030.00	88.60	5.95	7474.89	674.23	669.35	493.74	393489.39	563847.09	8.79	
8062.00	88.95	3.24	7475.57	706.14	701.24	496.30	393521.28	563849.65	8.54	
8094.00	89.09	1.56	7476.12	738.12	733.20	497.64	393553.24	563850.99	5.27	
8188.00	91.26	1.56	7475.83	832.10	827.16	500.20	393647.20	563853.55	2.31	
8282.00	90.07	0.63	7474.74	926.09	921.14	501.99	393741.18	563855.35	1.61	
8377.00	91.05	0.41	7473.81	1021.08	1016.13	502.86	393836.17	563856.21	1.06	
8472.00	90.07	0.25	7472.88	1116.07	1111.12	503.40	393931.16	563856.76	1.05	
8565.00	90.98	359.95	7472.03	1209.06	1204.11	503.57	394024.16	563856.92	1.03	
8659.00	90.84	359.96	7470.54	1303.05	1298.10	503.49	394118.14	563856.85	0.15	
8754.00	91.96	359.62	7468.22	1398.01	1393.07	503.14	394213.11	563856.50	1.23	
8848.00	91.75	359.92	7465.17	1491.95	1487.02	502.77	394307.06	563856.12	0.39	
8943.00	91.05	0.43	7462.85	1586.92	1581.99	503.06	394402.03	563856.41	0.91	
9037.00	92.10	0.76	7460.27	1680.88	1675.95	504.03	394495.99	563857.39	1.17	
9131.00	91.89	0.15	7457.00	1774.82	1769.89	504.78	394589.93	563858.13	0.69	
9225.00	90.84	0.42	7454.76	1868.79	1863.86	505.25	394683.90	563858.60	1.15	
9320.00	89.58	1.11	7454.41	1963.79	1958.85	506.51	394778.89	563859.87	1.51	
9414.00	90.84	0.24	7454.07	2057.79	2052.84	507.62	394872.88	563860.97	1.63	
9509.00	90.63	0.27	7452.85	2152.78	2147.83	508.04	394967.87	563861.40	0.22	
9603.00	90.28	1.00	7452.10	2246.77	2241.82	509.09	395061.86	563862.44	0.86	
9698.00	92.17	1.14	7450.07	2341.74	2336.78	510.86	395156.82	563864.21	1.99	
9792.00	90.98	1.39	7447.49	2435.70	2430.72	512.93	395250.76	563866.29	1.29	
9886.00	90.14	1.99	7446.57	2529.68	2524.67	515.71	395344.71	563869.06	1.10	
9980.00	91.05	1.77	7445.59	2623.65	2618.61	518.79	395438.66	563872.14	1.00	
10075.00	90.14	1.39	7444.60	2718.63	2713.57	521.41	395533.61	563874.76	1.04	
10169.00	90.77	1.26	7443.86	2812.61	2807.54	523.58	395627.58	563876.94	0.68	
10263.00	89.23	1.29	7443.86	2906.60	2901.52	525.67	395721.56	563879.03	1.64	
10359.00	90.56	1.45	7444.03	3002.59	2997.49	527.97	395817.53	563881.32	1.40	
10453.00	90.63	1.78	7443.06	3096.57	3091.45	530.62	395911.49	563883.97	0.36	
10548.00	91.54	2.01	7441.26	3191.53	3186.38	533.76	396006.42	563887.11	0.99	
10643.00	90.98	1.78	7439.17	3286.48	3281.30	536.90	396101.34	563890.25	0.64	
10737.00	89.79	0.51	7438.54	3380.47	3375.28	538.78	396195.32	563892.13	1.85	
10832.00	88.88	359.91	7439.64	3475.46	3470.27	539.13	396290.31	563892.48	1.15	
10927.00	88.88	0.16	7441.50	3570.44	3565.25	539.18	396385.29	563892.54	0.26	
11022.00	92.17	359.61	7440.63	3665.41	3660.23	538.99	396480.27	563892.35	3.51	
11116.00	91.89	359.61	7437.30	3759.34	3754.17	538.35	396574.21	563891.71	0.30	
11211.00	90.70	359.64	7435.15	3854.30	3849.14	537.73	396669.18	563891.09	1.25	
11302.00	91.12	359.48	7433.71	3945.27	3940.13	537.03	396760.17	563890.39	0.49	
11397.00	92.87	358.87	7430.40	4040.19	4035.06	535.67	396855.10	563889.02	1.95	
11490.00	90.07	358.64	7428.01	4133.10	4127.99	533.65	396948.03	563887.00	3.02	
11584.00	89.58	358.40	7428.30	4227.04	4222.96	531.22	397042.00	563884.57	0.58	
11678.00	89.72	358.36	7428.87	4320.97	4315.92	528.56	397135.96	563881.92	0.15	
11773.00	89.02	358.82	7429.92	4415.90	4410.89	526.22	397230.93	563879.58	0.88	
11867.00	88.88	359.58	7431.64	4509.86	4504.86	524.91	397324.90	563878.27	0.82	
11930.00	90.14	359.64	7432.18	4572.85	4567.86	524.48	397387.90	563877.84	2.00	Last Wft Svy
11991.00	90.14	359.64	7432.03	4633.84	4628.85	524.10	397448.90	563877.45	0.00	PTB



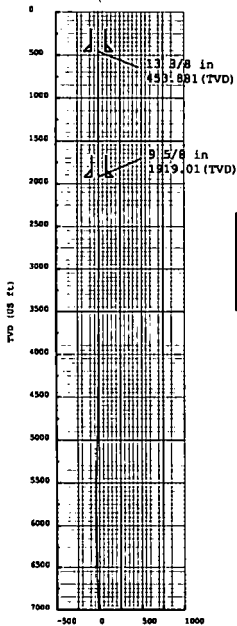
Bonnie 35 Federal Com #4H
Eddy County, NM

Weatherford

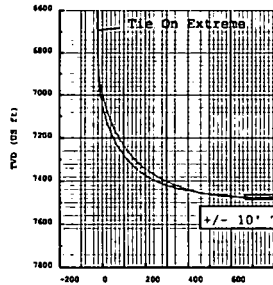


Grid Convergence: 0.04°
Mag Declination: 7.34°
Bearing:
True = Mag + 7.34°
Grid = True - 0.04°
Total Correction 7.30°

KB:3378.50
GL:3355.50



Drawing By: RWJ Date: 6/5/2017
Weatherford Drilling Services
10,000 Pilot Ave.
Midland, TX 79711
+1.432.561.8892 Main
+1.432.561.8895 Fax



Plan Data for Bonnie 35 Federal Com #4H

Plan Point Information:									
Dogleg Severity Unit: °/100.00ft									
MD	Inc	Az	TVD	+N/-S	+E/-W	VSec	DLS	Comments	
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(DLSU)		
6735.00	1.02	313.18	6732.70	-22.96	52.45	-22.44	0.52	Last Extreme SVY	
6800.00	1.02	313.18	6797.69	-22.17	51.60	-21.66	0.00	PTB	
7403.21	58.10	52.28	7302.93	153.59	269.33	156.27	9.66	Build/Turn	
8011.03	90.72	0.57	7475.00	660.47	496.69	665.38	9.66	LP 992' FSL, 1700' FEL	
11980.50	90.72	0.57	7425.00	4629.43	536.24	4634.54	0.00	PBHL 4H 330FNL, 1700' FEL	

Plan Data for Bonnie 35 Federal Com #4H

Target Set Information:									
Name: Bonnie 35 Federal Com #4H									
Position offsets from Slot centre									
Name	TVD	TVD 55	+N/-S	+E/-W	Northing	Easting	(USft)	(USft)	(USft)
LP Tgt	7475.00	-4696.50	598.88	496.00	393418.92	563849.35			
PBHL 4H 330FNL, 1700' FEL	7425.00	-4646.50	4629.43	536.24	397449.47	563889.59			
Vertical Box	0.00	3378.50	0.00	0.00	392820.04	563353.35			

Plan Data for Bonnie 35 Federal Com #4H

Field: Cimarex Mad 83 NMEZ
Map Unit: USFt Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / New Mexico East (ftUS)

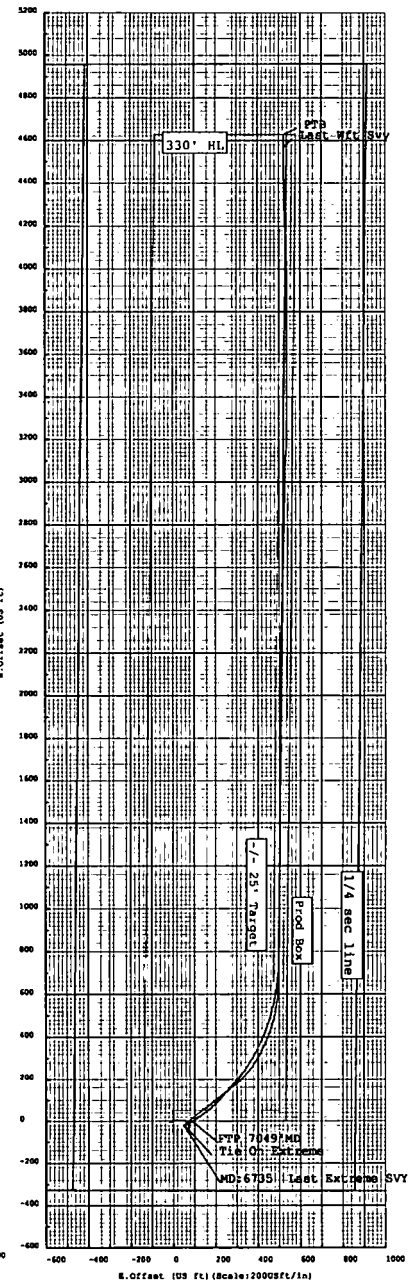
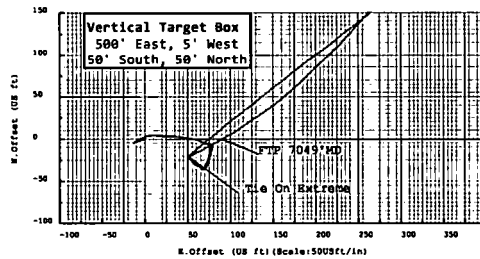
Site: Bonnie 35 Federal Com #4H
Unit: USFt TVD Reference:
Company Name: Cimarex Energy
Position: Northing: 392820.04USft Latitude: 32.079922°
Easting: 563353.35USft Longitude: -104.262250°
North Reference: Grid Grid Convergence: 0.04°
Elevation Above VRD: 3355.50USft
Comment: Eddy Co, NM

Slot: Bonnie 35 Federal Com #4H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 392820.04USft Latitude: 32.079922°
+E/-W: 0.00USft Easting: 563353.35USft Longitude: -104.262250°
Elevation Above VRD: 3355.50USft

Well: Bonnie 35 Federal Com #4H
Type: Main-Well
File Number:

Plan Folder: P1 Plan: P2:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: -0.00USft Azimuth: 0.57°
+E/-W: -0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2017 47856(N) 7.34° 59.77° 2017-06-25

Bonnie 35 Federal Com #4H
Bonnie 35 Federal Com #4H



VS (US ft) (Bearing: 0.57° Scale: 2000ft/in)