

30-015-42476



Cimarex Exxon 25 State #4H PCG 19-June-14 Proposal Geodetic Report
100ft Interpolated
 (Non-Def Plan)



Report Date: June 19, 2014 - 11:20 AM
 Client: Cimarex
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Cimarex Exxon 25 State #4H / Cimarex Exxon 25 State #4H
 Well: Cimarex Exxon 25 State #4H
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Cimarex Exxon 25 State #4H PCG 19-June-14
 Survey Date: June 17, 2014
 Tort / AHD / DDI / ERD Ratio: 113.586 ° / 4773.705 ft / 5.935 / 0.623
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 37' 32.07395", W 104° 7' 20.99703"
 Location Grid N/E Y/X: N 591379.800 ftUS, E 606246.000 ftUS
 CRS Grid Convergence Angle: 0.1137 °
 Grid Scale Factor: 0.99991392
 Version / Patch: 2.7.1043.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 0.000 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: Ground Level
 TVD Reference Elevation: 3301.000 ft above
 Seabed / Ground Elevation: 3301.000 ft above
 Magnetic Declination: 7.665 °
 Total Gravity Field Strength: 998.5142mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48458.112 nT
 Magnetic Dip Angle: 60.382 °
 Declination Date: June 17, 2014
 Magnetic Declination Model: BGGM 2014
 North Reference: Grid North
 Grid Convergence Used: 0.1137 °
 Total Corr Mag North->Grid North: 7.5515 °
 Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Cimarex Exxon 25 State #4H SHL	0.00	0.00	300.00	0.00	0.00	0.00	0.00	N/A	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	100.00	0.00	300.00	100.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	200.00	0.00	300.00	200.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	300.00	0.00	300.00	300.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	400.00	0.00	300.00	400.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	500.00	0.00	300.00	500.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	600.00	0.00	300.00	600.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	700.00	0.00	300.00	700.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	800.00	0.00	300.00	800.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	900.00	0.00	300.00	900.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	1000.00	0.00	300.00	1000.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	1100.00	0.00	300.00	1100.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	1200.00	0.00	300.00	1200.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	1300.00	0.00	300.00	1300.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	1400.00	0.00	300.00	1400.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	1500.00	0.00	300.00	1500.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	1600.00	0.00	300.00	1600.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	1700.00	0.00	300.00	1700.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	1800.00	0.00	300.00	1800.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	1900.00	0.00	300.00	1900.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	2000.00	0.00	300.00	2000.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00

NM OIL CONSERVATION
ARTESIA DISTRICT
JUL 01 2014
RECEIVED

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	2100.00	0.00	300.00	2100.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	2200.00	0.00	300.00	2200.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	2300.00	0.00	300.00	2300.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	2400.00	0.00	300.00	2400.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
Cptn	2500.00	0.00	300.00	2500.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	2600.00	0.00	300.00	2600.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	2655.00	0.00	300.00	2655.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	2700.00	0.00	300.00	2700.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	2800.00	0.00	300.00	2800.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	2900.00	0.00	300.00	2900.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	3000.00	0.00	300.00	3000.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	3100.00	0.00	300.00	3100.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	3200.00	0.00	300.00	3200.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	3300.00	0.00	300.00	3300.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	3400.00	0.00	300.00	3400.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	3500.00	0.00	300.00	3500.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	3600.00	0.00	300.00	3600.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	3700.00	0.00	300.00	3700.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	3800.00	0.00	300.00	3800.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	3900.00	0.00	300.00	3900.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	4000.00	0.00	300.00	4000.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	4100.00	0.00	300.00	4100.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
BSGL	4200.00	0.00	300.00	4200.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	4280.00	0.00	300.00	4280.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
Tansil	4290.00	0.00	300.00	4290.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	4300.00	0.00	300.00	4300.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	4400.00	0.00	300.00	4400.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	4500.00	0.00	300.00	4500.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	4600.00	0.00	300.00	4600.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	4700.00	0.00	300.00	4700.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	4800.00	0.00	300.00	4800.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	4900.00	0.00	300.00	4900.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	5000.00	0.00	300.00	5000.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	5100.00	0.00	300.00	5100.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	5200.00	0.00	300.00	5200.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	5300.00	0.00	300.00	5300.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	5400.00	0.00	300.00	5400.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	5500.00	0.00	300.00	5500.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	5600.00	0.00	300.00	5600.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	5700.00	0.00	300.00	5700.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	5800.00	0.00	300.00	5800.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	5900.00	0.00	300.00	5900.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	6000.00	0.00	300.00	6000.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	6100.00	0.00	300.00	6100.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	6200.00	0.00	300.00	6200.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	6300.00	0.00	300.00	6300.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	6400.00	0.00	300.00	6400.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	6500.00	0.00	300.00	6500.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	6600.00	0.00	300.00	6600.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
FBSG	6680.00	0.00	300.00	6680.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
Yates	6700.00	0.00	300.00	6700.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	6800.00	0.00	300.00	6800.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	6900.00	0.00	300.00	6900.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	7000.00	0.00	300.00	7000.00	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
KOP-Build 12"/100ft	7095.70	0.00	300.00	7095.70	0.00	0.00	0.00	0.00	591379.80	606246.00	N 32 37 32.07	W 104 7 21.00
	7100.00	0.52	300.00	7100.00	0.01	0.01	-0.02	12.00	591379.81	606245.98	N 32 37 32.07	W 104 7 21.00
	7200.00	12.52	300.00	7199.17	5.67	5.67	-9.83	12.00	591385.47	606236.17	N 32 37 32.13	W 104 7 21.11
	7300.00	24.52	300.00	7293.82	21.52	21.52	-37.28	12.00	591401.32	606208.72	N 32 37 32.29	W 104 7 21.43
SBSG Queen	7387.90	35.07	300.00	7370.00	43.33	43.33	-75.05	12.00	591423.13	606170.96	N 32 37 32.50	W 104 7 21.87
Build and Turn 12"/100ft	7400.00	36.52	300.00	7379.81	46.87	46.87	-81.18	12.00	591426.66	606164.83	N 32 37 32.54	W 104 7 21.95
	7470.68	45.00	300.00	7433.30	69.92	69.92	-121.10	12.00	591449.71	606124.91	N 32 37 32.77	W 104 7 22.41
	7500.00	46.53	304.43	7453.76	81.12	81.12	-138.86	12.00	591460.91	606107.15	N 32 37 32.88	W 104 7 22.62
	7600.00	52.85	317.84	7518.60	131.36	131.36	-195.75	12.00	591511.14	606050.27	N 32 37 33.38	W 104 7 23.28
	7700.00	60.43	328.99	7573.67	198.41	198.41	-245.08	12.00	591578.19	606000.94	N 32 37 34.04	W 104 7 23.86
Landing Point	7800.00	68.81	338.52	7616.58	279.36	279.36	-284.70	12.00	591659.14	605961.32	N 32 37 34.84	W 104 7 24.32
	7900.00	77.66	346.98	7645.44	370.67	370.67	-312.88	12.00	591750.43	605933.15	N 32 37 35.75	W 104 7 24.65
	8000.00	86.76	354.89	7659.00	468.33	468.33	-328.38	12.00	591848.09	605917.64	N 32 37 36.71	W 104 7 24.83
	8035.36	90.00	357.63	7660.00	503.60	503.60	-330.69	12.00	591883.35	605915.34	N 32 37 37.06	W 104 7 24.85
	8100.00	90.01	357.63	7659.99	568.18	568.18	-333.36	0.02	591947.93	605912.67	N 32 37 37.70	W 104 7 24.88
	8200.00	90.03	357.63	7659.95	668.10	668.10	-337.50	0.02	592047.84	605908.53	N 32 37 38.69	W 104 7 24.93
	8300.00	90.05	357.63	7659.88	768.01	768.01	-341.63	0.02	592147.74	605904.40	N 32 37 39.68	W 104 7 24.97
	8400.00	90.07	357.63	7659.77	867.93	867.93	-345.77	0.02	592247.65	605900.26	N 32 37 40.67	W 104 7 25.02
	8500.00	90.09	357.63	7659.62	967.84	967.84	-349.90	0.02	592347.55	605896.13	N 32 37 41.66	W 104 7 25.07
	8600.00	90.11	357.63	7659.44	1067.75	1067.75	-354.04	0.02	592447.46	605892.00	N 32 37 42.65	W 104 7 25.11
	8700.00	90.13	357.63	7659.22	1167.67	1167.67	-358.17	0.02	592547.37	605887.86	N 32 37 43.63	W 104 7 25.16
	8800.00	90.15	357.63	7658.97	1267.58	1267.58	-362.30	0.02	592647.27	605883.73	N 32 37 44.62	W 104 7 25.20
	8900.00	90.17	357.63	7658.69	1367.50	1367.50	-366.44	0.02	592747.18	605879.60	N 32 37 45.61	W 104 7 25.25
	9000.00	90.19	357.63	7658.37	1467.41	1467.41	-370.57	0.02	592847.08	605875.46	N 32 37 46.60	W 104 7 25.30
	9100.00	90.21	357.63	7658.01	1567.32	1567.32	-374.70	0.02	592946.99	605871.33	N 32 37 47.59	W 104 7 25.34
	9200.00	90.23	357.63	7657.62	1667.24	1667.24	-378.84	0.02	593046.89	605867.20	N 32 37 48.58	W 104 7 25.39
	9300.00	90.25	357.63	7657.19	1767.15	1767.15	-382.97	0.02	593146.80	605863.06	N 32 37 49.57	W 104 7 25.43
	9400.00	90.27	357.63	7656.73	1867.07	1867.07	-387.10	0.02	593246.70	605858.93	N 32 37 50.56	W 104 7 25.48
	9500.00	90.29	357.63	7656.23	1966.98	1966.98	-391.23	0.02	593346.61	605854.80	N 32 37 51.54	W 104 7 25.53
	9600.00	90.31	357.63	7655.70	2066.89	2066.89	-395.37	0.02	593446.51	605850.67	N 32 37 52.53	W 104 7 25.57
	9700.00	90.33	357.63	7655.13	2166.80	2166.80	-399.50	0.02	593546.41	605846.54	N 32 37 53.52	W 104 7 25.62
	9800.00	90.36	357.63	7654.53	2266.72	2266.72	-403.63	0.02	593646.32	605842.40	N 32 37 54.51	W 104 7 25.66
	9900.00	90.38	357.63	7653.89	2366.63	2366.63	-407.76	0.02	593746.22	605838.27	N 32 37 55.50	W 104 7 25.71
	10000.00	90.40	357.63	7653.22	2466.54	2466.54	-411.89	0.02	593846.13	605834.14	N 32 37 56.49	W 104 7 25.76
	10100.00	90.42	357.63	7652.51	2566.45	2566.45	-416.03	0.02	593946.03	605830.01	N 32 37 57.48	W 104 7 25.80
	10200.00	90.44	357.63	7651.77	2666.37	2666.37	-420.16	0.02	594045.93	605825.88	N 32 37 58.46	W 104 7 25.85
	10300.00	90.46	357.63	7650.99	2766.28	2766.28	-424.29	0.02	594145.83	605821.75	N 32 37 59.45	W 104 7 25.89
	10400.00	90.48	357.63	7650.18	2866.19	2866.19	-428.42	0.02	594245.74	605817.62	N 32 38 0.44	W 104 7 25.94

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	10500.00	90.50	357.63	7649.33	2966.10	2966.10	-432.55	0.02	594345.64	605813.49	N 32 38 1.43	W 104 7 25.99
	10600.00	90.52	357.63	7648.45	3066.01	3066.01	-436.68	0.02	594445.54	605809.36	N 32 38 2.42	W 104 7 26.03
	10700.00	90.54	357.63	7647.53	3165.92	3165.92	-440.81	0.02	594545.44	605805.23	N 32 38 3.41	W 104 7 26.08
	10800.00	90.56	357.63	7646.58	3265.83	3265.83	-444.94	0.02	594645.34	605801.10	N 32 38 4.40	W 104 7 26.12
	10900.00	90.58	357.63	7645.59	3365.74	3365.74	-449.07	0.02	594745.25	605796.97	N 32 38 5.39	W 104 7 26.17
	11000.00	90.60	357.63	7644.57	3465.65	3465.65	-453.20	0.02	594845.15	605792.84	N 32 38 6.37	W 104 7 26.22
	11100.00	90.62	357.63	7643.51	3565.56	3565.56	-457.33	0.02	594945.05	605788.71	N 32 38 7.36	W 104 7 26.26
	11200.00	90.64	357.63	7642.41	3665.47	3665.47	-461.46	0.02	595044.95	605784.58	N 32 38 8.35	W 104 7 26.31
	11300.00	90.66	357.63	7641.29	3765.38	3765.38	-465.58	0.02	595144.85	605780.46	N 32 38 9.34	W 104 7 26.35
	11400.00	90.68	357.63	7640.12	3865.29	3865.29	-469.71	0.02	595244.74	605776.33	N 32 38 10.33	W 104 7 26.40
	11500.00	90.70	357.63	7638.92	3965.19	3965.19	-473.84	0.02	595344.64	605772.20	N 32 38 11.32	W 104 7 26.45
	11600.00	90.72	357.63	7637.69	4065.10	4065.10	-477.97	0.02	595444.54	605768.07	N 32 38 12.31	W 104 7 26.49
	11700.00	90.74	357.63	7636.42	4165.01	4165.01	-482.10	0.02	595544.44	605763.94	N 32 38 13.29	W 104 7 26.54
	11800.00	90.76	357.63	7635.11	4264.91	4264.91	-486.23	0.02	595644.34	605759.82	N 32 38 14.28	W 104 7 26.58
	11900.00	90.78	357.63	7633.77	4364.82	4364.82	-490.35	0.02	595744.23	605755.69	N 32 38 15.27	W 104 7 26.63
	12000.00	90.80	357.63	7632.40	4464.72	4464.72	-494.48	0.02	595844.13	605751.56	N 32 38 16.26	W 104 7 26.68
	12100.00	90.82	357.63	7630.99	4564.63	4564.63	-498.61	0.02	595944.03	605747.44	N 32 38 17.25	W 104 7 26.72
Cimarex Exxon 25 State #4H PBHL	12168.74	90.83	357.63	7630.00	4633.31	4633.31	-501.44	0.02	596012.70	605744.60	N 32 38 17.93	W 104 7 26.75

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	12168.745	1/100.000	30.000	30.000	SLB_UNKNOWN	Original Borehole / Cimarex Exxon 25 State #4H PCG 19-June-14

Drilling 12-1/4" hole
below 13 3/8" Casing

Fill Line

Flowline

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ARTESIA DISTRICT

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2000# (2M)
BOP

SRR & A

Annular Preventer

Pipe Rams

Blind Rams

2" Minimum Kill Line

Kill Line

1 Kill Line Valve
(Minimum)

Drilling Spool

2" Minimum Choke Line

Choke Line

1 Choke Line Valve
(Minimum)

13-5/8" 3000 psi x 13 3/8 SOW Slip-on Casing Head

Exhibit E-1 – 2000# BOP
Exxon State 4
Cimarex Energy Co. of Colorado
25-19S-28E
SHL 330 FSL & 180 FEL
BHL 330 FNL & 660 FEL
Eddy County, NM

Drilling 8-3/4" hole
below 9 5/8" Casing

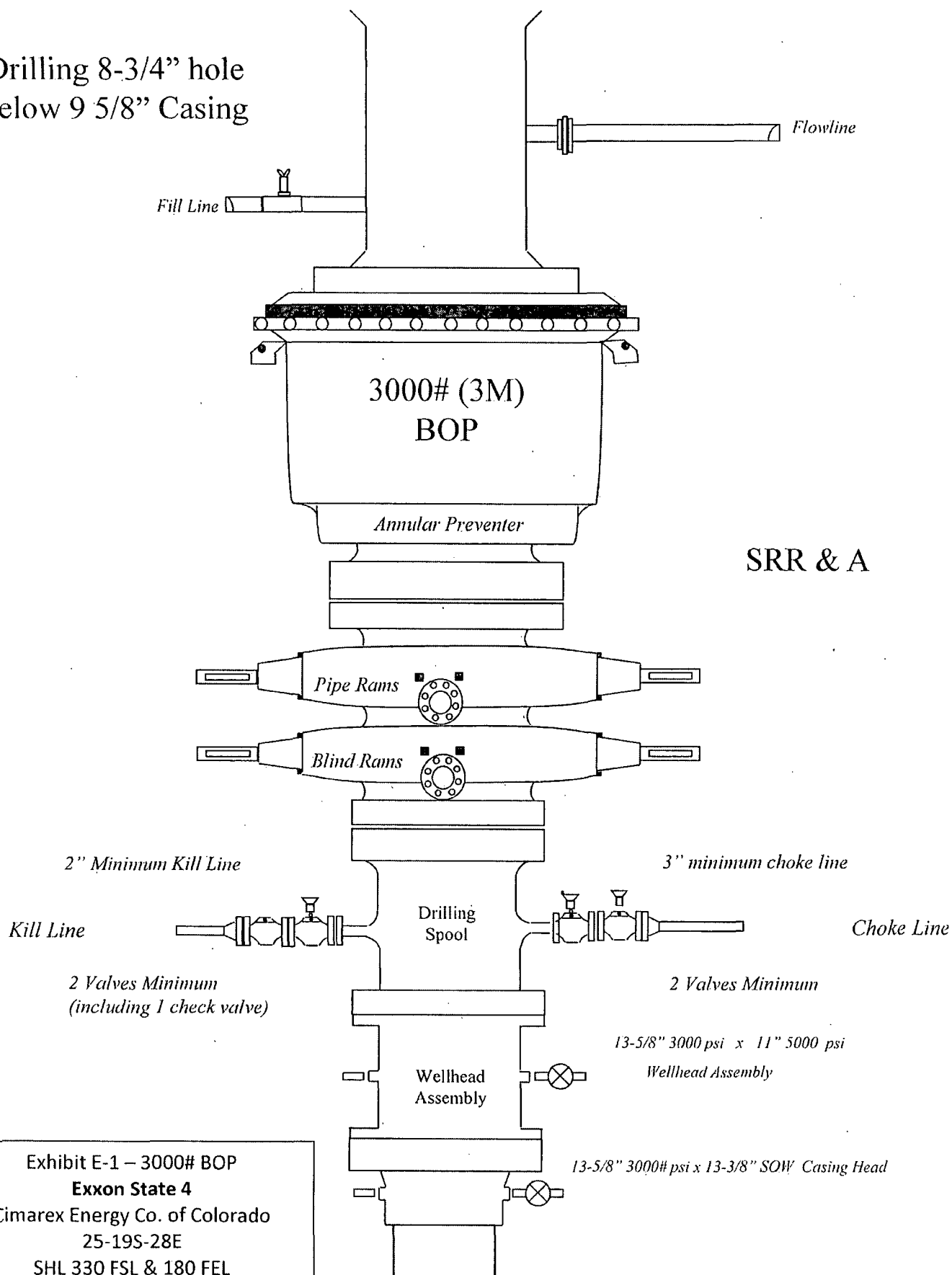
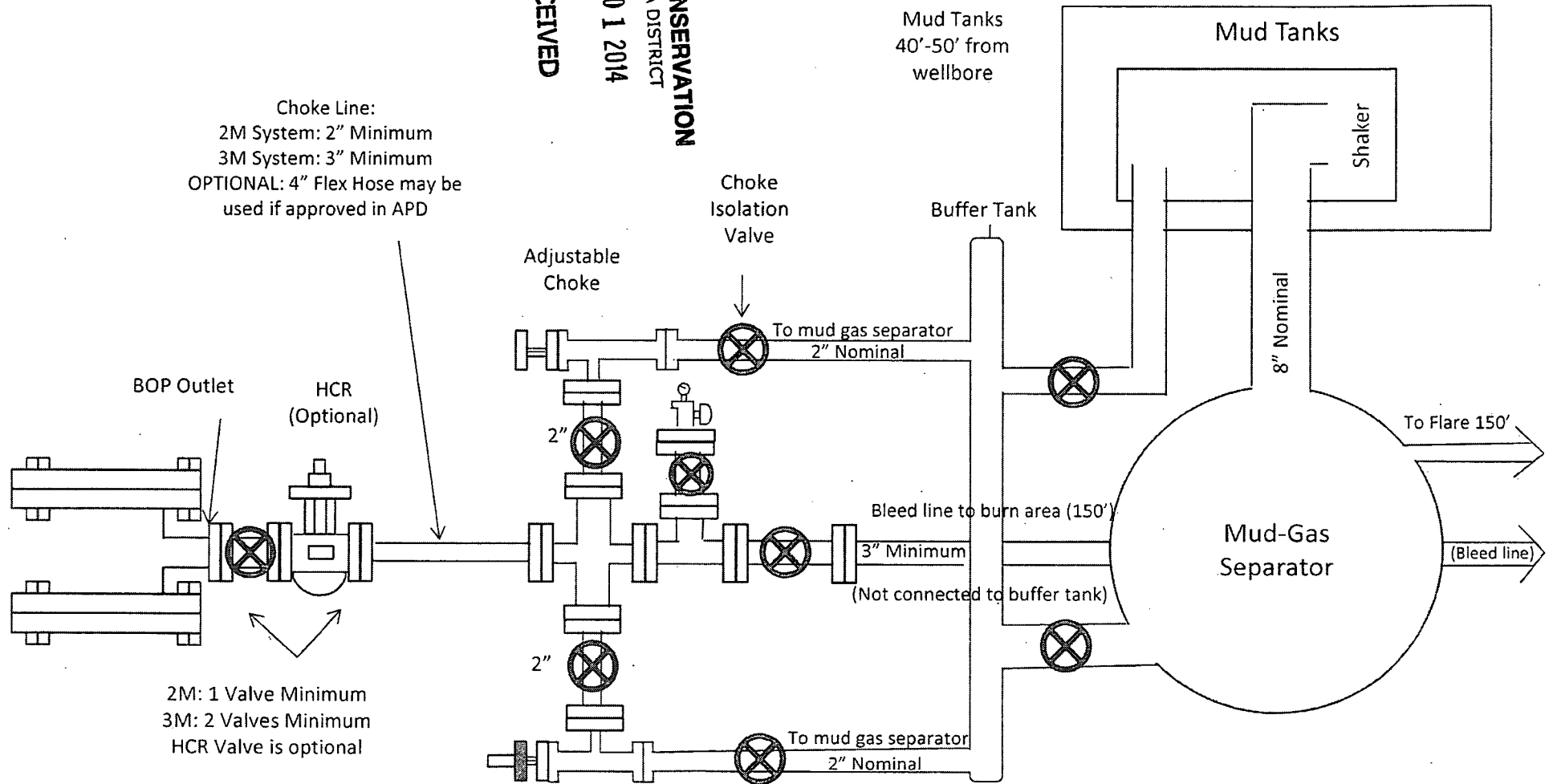


Exhibit E-1 – 3000# BOP
Exxon State 4
Cimarex Energy Co. of Colorado
25-19S-28E
SHL 330 FSL & 180 FEL
BHL 330 FNL & 660 FEL
Eddy County, NM

NM OIL CONSERVATION
ARTESIA DISTRICT

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Drilling Operations Choke Manifold 2M/3M Service

Exhibit E-1 – Choke Manifold Diagram
Exxon State 4
Cimarex Energy Co. of Colorado
25-19S-28E
SHL 330 FSL & 180 FEL
BHL 330 FNL & 660 FEL
Eddy County, NM