

30-015-44275

Schlumberger

Cimarex Parkway 17 State 6H Rev0 RM 14June17 Proposal Geodetic



Report (Non-Def Plan)

Report Date: June 14, 2017 - 10:35 AM
Client: Cimarex
Field: NM Eddy County (NAD 83)
Structure / Slot: Cimarex Parkway 17 State 6H / Cimarex Parkway 17 State 6H
Well: Cimarex Parkway 17 State 6H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Parkway 17 State 6H Rev0 RM 14June17
Survey Date: June 14, 2017
Tort / AHD / DDI / ERD Ratio: 107.689 / 4779.480 ft / 5.889 / 0.536
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 39' 22.18287", W 104° 6' 16.81354"
Location Grid N/E V/X: N 602518.460 ftUS, E 611710.910 ftUS
CRS Grid Convergence Angle: 0.1234 °
Grid Scale Factor: 0.99991476
Version / Patch: 2.10.302.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 90.000 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3393.100 ft above MSL
Seabed / Ground Elevation: 3369.100 ft above MSL
Magnetic Declination: 7.464 °
Total Gravity Field Strength: 998.5118mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48195.963 nT
Magnetic Dip Angle: 60.494 °
Declination Date: June 14, 2017
Magnetic Declination Model: HDGM 2017
North Reference: Grid North
Grid Convergence Used: 0.1234 °
Total Corr Mag North->Grid North: 7.3402 °
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 ° ' '')
SHL [920 FSL, 282' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
100.00	0.00	0.00	139.90	100.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
200.00	0.00	0.00	139.90	200.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
300.00	0.00	0.00	139.90	300.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
400.00	0.00	0.00	139.90	400.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
500.00	0.00	0.00	139.90	500.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
600.00	0.00	0.00	139.90	600.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
700.00	0.00	0.00	139.90	700.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
800.00	0.00	0.00	139.90	800.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
900.00	0.00	0.00	139.90	900.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
1000.00	0.00	0.00	139.90	1000.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
1100.00	0.00	0.00	139.90	1100.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
1200.00	0.00	0.00	139.90	1200.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
1300.00	0.00	0.00	139.90	1300.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
1400.00	0.00	0.00	139.90	1400.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
1500.00	0.00	0.00	139.90	1500.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
1600.00	0.00	0.00	139.90	1600.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
1700.00	0.00	0.00	139.90	1700.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
1800.00	0.00	0.00	139.90	1800.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
1900.00	0.00	0.00	139.90	1900.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
2000.00	0.00	0.00	139.90	2000.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
2100.00	0.00	0.00	139.90	2100.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
2200.00	0.00	0.00	139.90	2200.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
2300.00	0.00	0.00	139.90	2300.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
2400.00	0.00	0.00	139.90	2400.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
2500.00	0.00	0.00	139.90	2500.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
2600.00	0.00	0.00	139.90	2600.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81
2700.00	0.00	0.00	139.90	2700.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104	6 16 81

NM OIL CONSERVATION
ARTESIA DISTRICT
JUN 20 2017

RECEIVED

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TYD (ft)	VISC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S...)	Longitude (E/W...)
KOP - Build 12°/100' DLS	2800.00	0.00	139.90	2800.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	2900.00	0.00	139.90	2900.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	3000.00	0.00	139.90	3000.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	3100.00	0.00	139.90	3100.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	3200.00	0.00	139.90	3200.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	3300.00	0.00	139.90	3300.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	3400.00	0.00	139.90	3400.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	3500.00	0.00	139.90	3500.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	3600.00	0.00	139.90	3600.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	3700.00	0.00	139.90	3700.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	3800.00	0.00	139.90	3800.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	3900.00	0.00	139.90	3900.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	4000.00	0.00	139.90	4000.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	4100.00	0.00	139.90	4100.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	4200.00	0.00	139.90	4200.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	4300.00	0.00	139.90	4300.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	4400.00	0.00	139.90	4400.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	4500.00	0.00	139.90	4500.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	4600.00	0.00	139.90	4600.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
	4700.00	0.00	139.90	4700.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81	
4800.00	0.00	139.90	4800.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
4900.00	0.00	139.90	4900.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
5000.00	0.00	139.90	5000.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
5100.00	0.00	139.90	5100.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
5200.00	0.00	139.90	5200.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
5300.00	0.00	139.90	5300.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
5400.00	0.00	139.90	5400.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
5500.00	0.00	139.90	5500.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
5600.00	0.00	139.90	5600.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
5700.00	0.00	139.90	5700.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
5800.00	0.00	139.90	5800.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
5900.00	0.00	139.90	5900.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
6000.00	0.00	139.90	6000.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
6100.00	0.00	139.90	6100.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
6200.00	0.00	139.90	6200.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
6300.00	0.00	139.90	6300.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
6400.00	0.00	139.90	6400.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
6500.00	0.00	139.90	6500.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
6600.00	0.00	139.90	6600.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
6700.00	0.00	139.90	6700.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
6800.00	0.00	139.90	6800.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
6900.00	0.00	139.90	6900.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
7000.00	0.00	139.90	7000.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
7100.00	0.00	139.90	7100.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
7200.00	0.00	139.90	7200.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
7300.00	0.00	139.90	7300.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
7400.00	0.00	139.90	7400.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
7500.00	0.00	139.90	7500.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
7600.00	0.00	139.90	7600.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
7700.00	0.00	139.90	7700.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
7800.00	0.00	139.90	7800.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
7900.00	0.00	139.90	7900.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
8000.00	0.00	139.90	8000.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
8100.00	0.00	139.90	8100.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
8200.00	0.00	139.90	8200.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
8300.00	0.00	139.90	8300.00	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
8360.35	0.00	139.90	8360.35	0.00	0.00	0.00	0.00	602518.46	611710.91	N 32 39 22.18 W 104 6 16.81		
8400.00	4.76	139.90	8399.95	1.06	0.00	0.00	0.00	12.00	602517.20	611711.97	N 32 39 22.17 W 104 6 16.80	

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 ° ' ")
3rd Bone Spring Sand	8500.00	16.76	139.90	8498.02	13.06	-15.51	13.06	12.00	602502.95	611723.97	N 32 39 22.03 W 104 6 16.66	
	8549.94	22.75	139.90	8545.00	23.93	-28.42	23.93	12.00	602490.05	611734.84	N 32 39 21.90 W 104 6 16.53	
	8600.00	28.76	139.90	8590.06	37.93	-45.05	37.93	12.00	602473.42	611748.84	N 32 39 21.74 W 104 6 16.37	
Build 12'1100'	8700.00	40.76	139.90	8672.07	74.59	-88.58	74.59	12.00	602429.89	611785.49	N 32 39 21.30 W 104 6 15.94	
	8735.35	45.00	139.90	8697.97	90.08	-106.97	90.08	12.00	602411.50	611800.98	N 32 39 21.12 W 104 6 15.76	
	8800.00	49.30	131.08	8741.97	123.32	-140.61	123.32	12.00	602377.86	611834.22	N 32 39 20.79 W 104 6 15.37	
Landing Point	8900.00	57.05	119.61	8801.99	188.62	-186.42	188.62	12.00	602332.06	611889.51	N 32 39 20.33 W 104 6 14.61	
	9000.00	65.68	110.08	8849.95	268.18	-222.93	268.18	12.00	602295.55	611979.07	N 32 39 19.97 W 104 6 13.68	
	9100.00	74.82	101.81	8883.77	358.54	-248.54	358.54	12.00	602289.94	612069.41	N 32 39 19.72 W 104 6 12.63	
	9200.00	84.23	94.23	8901.95	455.74	-262.13	455.74	12.00	602256.35	612166.61	N 32 39 19.58 W 104 6 11.49	
	9257.76	88.73	90.00	8905.00	513.34	-264.25	513.34	12.00	602254.23	612224.20	N 32 39 19.56 W 104 6 10.82	
	9300.00	89.73	90.00	8905.20	555.58	-264.25	555.58	0.00	602254.23	612266.44	N 32 39 19.56 W 104 6 10.32	
	9400.00	89.73	90.00	8905.68	655.58	-264.25	655.58	0.00	602254.24	612366.43	N 32 39 19.55 W 104 6 9.15	
	9500.00	89.73	90.00	8906.16	755.58	-264.24	755.58	0.00	602254.24	612466.42	N 32 39 19.55 W 104 6 7.98	
	9600.00	89.73	90.00	8906.84	855.58	-264.24	855.58	0.00	602254.25	612566.41	N 32 39 19.55 W 104 6 6.81	
	9700.00	89.73	90.00	8907.11	955.58	-264.23	955.58	0.00	602254.25	612666.40	N 32 39 19.55 W 104 6 5.64	
	9800.00	89.73	90.00	8907.59	1055.58	-264.23	1055.58	0.00	602254.25	612766.39	N 32 39 19.55 W 104 6 4.47	
	9900.00	89.73	90.00	8908.07	1155.57	-264.22	1155.57	0.00	602254.26	612866.38	N 32 39 19.54 W 104 6 3.30	
	10000.00	89.73	90.00	8908.55	1255.57	-264.22	1255.57	0.00	602254.26	612966.37	N 32 39 19.54 W 104 6 2.13	
	10100.00	89.73	90.00	8909.03	1355.57	-264.22	1355.57	0.00	602254.27	613066.36	N 32 39 19.54 W 104 6 0.97	
	10200.00	89.73	90.00	8909.51	1455.57	-264.21	1455.57	0.00	602254.27	613166.35	N 32 39 19.54 W 104 5 59.80	
	10300.00	89.73	90.00	8909.99	1555.57	-264.21	1555.57	0.00	602254.28	613266.34	N 32 39 19.54 W 104 5 58.63	
	10400.00	89.73	90.00	8910.47	1655.57	-264.20	1655.57	0.00	602254.28	613366.33	N 32 39 19.53 W 104 5 57.46	
	10500.00	89.73	90.00	8910.95	1755.57	-264.20	1755.57	0.00	602254.28	613466.32	N 32 39 19.53 W 104 5 56.29	
	10600.00	89.73	90.00	8911.43	1855.57	-264.19	1855.57	0.00	602254.29	613566.31	N 32 39 19.53 W 104 5 55.12	
	10700.00	89.73	90.00	8911.91	1955.57	-264.19	1955.57	0.00	602254.29	613666.30	N 32 39 19.53 W 104 5 53.95	
	10800.00	89.73	90.00	8912.39	2055.56	-264.19	2055.56	0.00	602254.30	613766.30	N 32 39 19.52 W 104 5 52.78	
	10900.00	89.73	90.00	8912.86	2155.56	-264.18	2155.56	0.00	602254.30	613866.29	N 32 39 19.52 W 104 5 51.61	
	11000.00	89.73	90.00	8913.34	2255.56	-264.18	2255.56	0.00	602254.31	613966.28	N 32 39 19.52 W 104 5 50.44	
	11100.00	89.73	90.00	8913.82	2355.56	-264.17	2355.56	0.00	602254.31	614066.27	N 32 39 19.52 W 104 5 49.27	
	11200.00	89.73	90.00	8914.30	2455.56	-264.17	2455.56	0.00	602254.31	614166.26	N 32 39 19.52 W 104 5 48.10	
	11300.00	89.73	90.00	8914.78	2555.56	-264.16	2555.56	0.00	602254.32	614266.25	N 32 39 19.51 W 104 5 46.93	
	11400.00	89.73	90.00	8915.26	2655.56	-264.16	2655.56	0.00	602254.32	614366.24	N 32 39 19.51 W 104 5 45.76	
	11500.00	89.73	90.00	8915.74	2755.56	-264.16	2755.56	0.00	602254.33	614466.23	N 32 39 19.51 W 104 5 44.59	
	11600.00	89.73	90.00	8916.22	2855.56	-264.15	2855.56	0.00	602254.33	614566.22	N 32 39 19.51 W 104 5 43.42	
	11700.00	89.73	90.00	8916.70	2955.55	-264.15	2955.55	0.00	602254.34	614666.21	N 32 39 19.50 W 104 5 42.25	
	11800.00	89.73	90.00	8917.18	3055.55	-264.14	3055.55	0.00	602254.34	614766.20	N 32 39 19.50 W 104 5 41.08	
	11900.00	89.73	90.00	8917.66	3155.55	-264.14	3155.55	0.00	602254.34	614866.19	N 32 39 19.50 W 104 5 39.91	
	12000.00	89.73	90.00	8918.14	3255.55	-264.13	3255.55	0.00	602254.35	614966.18	N 32 39 19.50 W 104 5 38.74	
	12100.00	89.73	90.00	8918.61	3355.55	-264.13	3355.55	0.00	602254.35	615066.17	N 32 39 19.50 W 104 5 37.57	
	12200.00	89.73	90.00	8919.09	3455.55	-264.13	3455.55	0.00	602254.36	615166.16	N 32 39 19.49 W 104 5 36.40	
	12300.00	89.73	90.00	8919.57	3555.55	-264.12	3555.55	0.00	602254.36	615266.15	N 32 39 19.49 W 104 5 35.23	
	12400.00	89.73	90.00	8920.05	3655.55	-264.12	3655.55	0.00	602254.37	615366.14	N 32 39 19.49 W 104 5 34.06	
	12500.00	89.73	90.00	8920.53	3755.54	-264.11	3755.54	0.00	602254.37	615466.13	N 32 39 19.49 W 104 5 32.89	
	12600.00	89.73	90.00	8921.01	3855.54	-264.11	3855.54	0.00	602254.37	615566.12	N 32 39 19.49 W 104 5 31.72	
	12700.00	89.73	90.00	8921.49	3955.54	-264.10	3955.54	0.00	602254.38	615666.11	N 32 39 19.48 W 104 5 30.56	
	12800.00	89.73	90.00	8921.97	4055.54	-264.10	4055.54	0.00	602254.38	615766.10	N 32 39 19.48 W 104 5 29.39	
	12900.00	89.73	90.00	8922.45	4155.54	-264.10	4155.54	0.00	602254.39	615866.09	N 32 39 19.48 W 104 5 28.22	
	13000.00	89.73	90.00	8922.93	4255.54	-264.09	4255.54	0.00	602254.39	615966.08	N 32 39 19.48 W 104 5 27.05	
	13100.00	89.73	90.00	8923.41	4355.54	-264.09	4355.54	0.00	602254.40	616066.07	N 32 39 19.47 W 104 5 25.88	
	13200.00	89.73	90.00	8923.89	4455.54	-264.08	4455.54	0.00	602254.40	616166.06	N 32 39 19.47 W 104 5 24.71	
	13300.00	89.73	90.00	8924.36	4555.54	-264.08	4555.54	0.00	602254.40	616266.05	N 32 39 19.47 W 104 5 23.54	
	13400.00	89.73	90.00	8924.84	4655.53	-264.07	4655.53	0.00	602254.41	616366.04	N 32 39 19.47 W 104 5 22.37	

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 Parkway 17 State 6H - PBHL [660' FSL, 330' FEL]	13432.69	89.73	90.00	8925.00	4686.23	-264.07	4686.23	0.00	602254.41	616396.73	N 32.39 19.47 W 104.5 21.99	

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 (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	24.000	1/100.000	30.000	30.000		NAL_MMWD_PLUS_0.5_DEG- Depth Only	Original Borehole / Cimarex Parkway 17 State 6H Rev0 RM 14June17
	1	24.000	13432.695	1/100.000	30.000	30.000		NAL_MMWD_PLUS_0.5_DEG	Original Borehole / Cimarex Parkway 17 State 6H Rev0 RM

CIMAREX

[illegible]