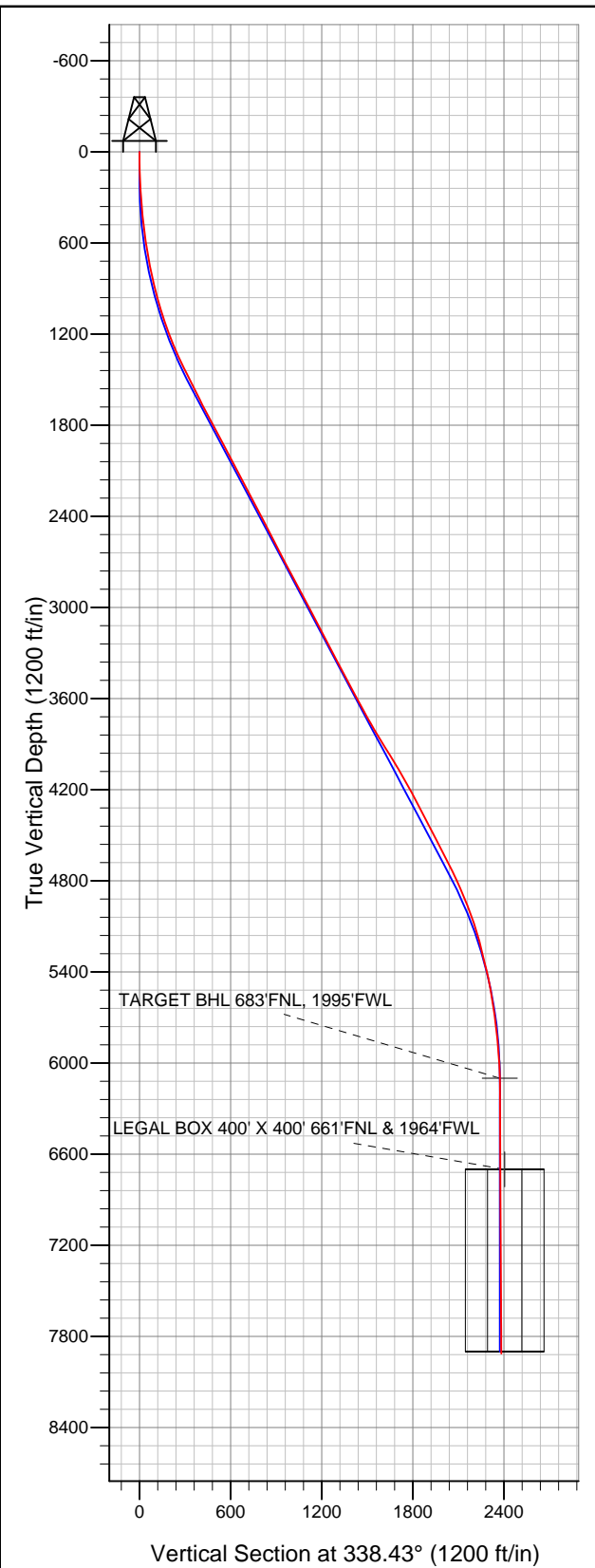




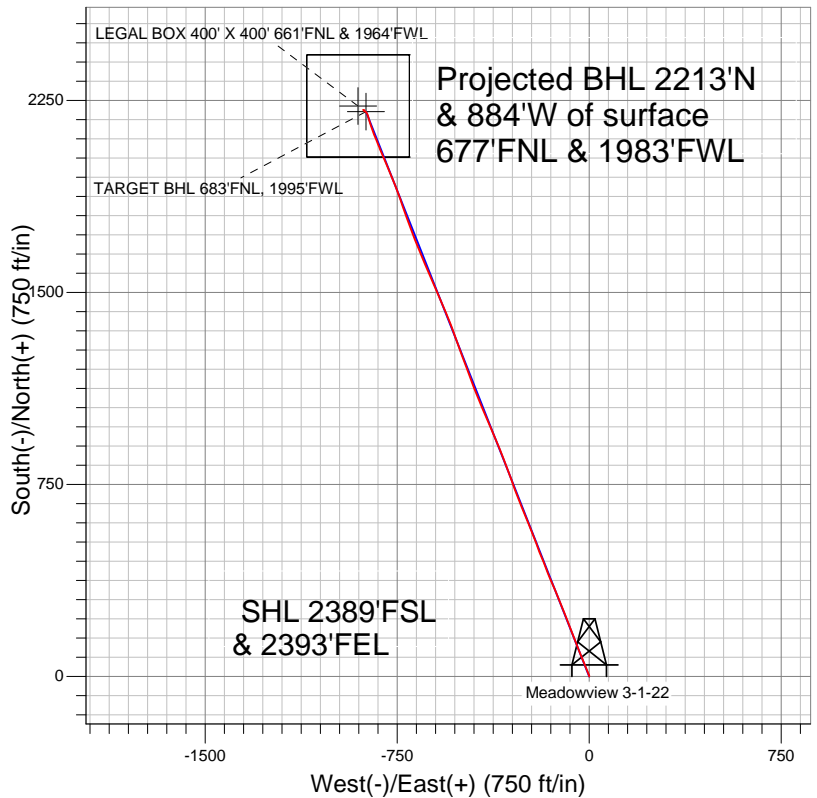
Well Name: Meadowview 3-1-22

Surface Location: T-Bone 5-3-22 Pad Sec.22-T5N-R66W
North American Datum 1983 US State Plane 1983Colorado Northern Zone
Ground Elevation: 4806.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1383708.12	3204802.95	40.384350	-104.764810	
Original Well EleWELL @ 4819.0ft (Original Well Elev)						



Mineral Resources Inc



LEGEND

- Meadowview 3-1-22, Wellbore #1, Plan #1 (5-16-11) VO
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
8446'MD & 7914'TVD @ 2383' VS
0.8 deg Inc 277.1 deg AZ

Project: SEC.22-T5N-R66W
Site: T-Bone 5-3-22 Pad Sec.22-T5N-R66W
Well: Meadowview 3-1-22
Plan: Wellbore #1



Mineral Resources Inc

SEC.22-T5N-R66W

T-Bone 5-3-22 Pad Sec.22-T5N-R66W

Meadowview 3-1-22

Wellbore #1

Survey: Survey #1

Standard Survey Report

19 September, 2011

Company:	Mineral Resources Inc	Local Co-ordinate Reference:	Well Meadowview 3-1-22
Project:	SEC.22-T5N-R66W	TVD Reference:	WELL @ 4819.0ft (Original Well Elev)
Site:	T-Bone 5-3-22 Pad Sec.22-T5N-R66W	MD Reference:	WELL @ 4819.0ft (Original Well Elev)
Well:	Meadowview 3-1-22	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.22-T5N-R66W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	T-Bone 5-3-22 Pad Sec.22-T5N-R66W		
Site Position:		Northing:	1,383,707.65 ft
From:	Lat/Long	Easting:	3,204,741.67 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40.384350
		Longitude:	-104.765030
		Grid Convergence:	0.47 °

Well	Meadowview 3-1-22		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	40.384350
		Longitude:	-104.764810
		Ground Level:	4,806.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/2/2011	8.87	67.04	53,127

Design	Wellbore #1			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth:
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	338.43

Survey Program	Date	9/19/2011		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
126.0	8,446.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
126.0	1.30	349.30	126.0	1.4	-0.3	1.4	1.03	1.03	0.00
218.0	2.60	339.90	217.9	4.4	-1.2	4.5	1.45	1.41	-10.22
310.0	4.50	336.30	309.8	9.7	-3.3	10.2	2.08	2.07	-3.91
401.0	5.90	336.50	400.4	17.2	-6.6	18.5	1.54	1.54	0.22
492.0	7.20	336.10	490.8	26.7	-10.8	28.8	1.43	1.43	-0.44
583.0	8.00	339.30	581.0	37.9	-15.4	40.9	0.99	0.88	3.52
672.0	8.70	337.20	669.0	49.9	-20.2	53.8	0.86	0.79	-2.36
764.0	10.40	339.30	759.8	64.0	-25.8	69.0	1.89	1.85	2.28
857.0	13.00	340.00	850.8	81.7	-32.3	87.9	2.80	2.80	0.75
949.0	15.10	339.20	940.1	102.6	-40.1	110.2	2.29	2.28	-0.87
1,042.0	17.40	337.80	1,029.3	126.9	-49.7	136.2	2.51	2.47	-1.51
1,135.0	19.30	337.80	1,117.6	154.0	-60.8	165.5	2.04	2.04	0.00

Company:	Mineral Resources Inc	Local Co-ordinate Reference:	Well Meadowview 3-1-22
Project:	SEC.22-T5N-R66W	TVD Reference:	WELL @ 4819.0ft (Original Well Elev)
Site:	T-Bone 5-3-22 Pad Sec.22-T5N-R66W	MD Reference:	WELL @ 4819.0ft (Original Well Elev)
Well:	Meadowview 3-1-22	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,228.0	20.80	338.10	1,205.0	183.5	-72.7	197.4	1.62	1.61	0.32	
1,321.0	23.00	339.40	1,291.3	215.8	-85.3	232.1	2.42	2.37	1.40	
1,414.0	25.10	339.20	1,376.2	251.3	-98.7	270.0	2.26	2.26	-0.22	
1,507.0	26.40	338.50	1,459.9	289.0	-113.3	310.4	1.44	1.40	-0.75	
1,599.0	26.50	336.60	1,542.3	326.8	-128.9	351.3	0.93	0.11	-2.07	
1,692.0	26.50	336.60	1,625.5	364.9	-145.4	392.8	0.00	0.00	0.00	
1,785.0	28.20	337.80	1,708.1	404.3	-161.9	435.5	1.92	1.83	1.29	
1,878.0	28.10	338.50	1,790.1	445.0	-178.3	479.4	0.37	-0.11	0.75	
1,971.0	27.90	338.80	1,872.3	485.7	-194.2	523.1	0.26	-0.22	0.32	
2,065.0	28.00	339.40	1,955.3	526.9	-209.9	567.1	0.32	0.11	0.64	
2,158.0	27.80	338.40	2,037.5	567.5	-225.5	610.6	0.55	-0.22	-1.08	
2,251.0	27.50	338.10	2,119.9	607.5	-241.5	653.8	0.36	-0.32	-0.32	
2,344.0	28.40	336.90	2,202.0	647.8	-258.2	697.4	1.14	0.97	-1.29	
2,436.0	27.40	338.30	2,283.3	687.6	-274.6	740.4	1.30	-1.09	1.52	
2,529.0	27.00	340.60	2,366.0	727.4	-289.6	782.9	1.21	-0.43	2.47	
2,622.0	28.00	340.40	2,448.5	767.9	-303.9	825.8	1.08	1.08	-0.22	
2,715.0	27.80	338.60	2,530.7	808.6	-319.1	869.3	0.93	-0.22	-1.94	
2,810.0	27.00	339.20	2,615.1	849.4	-334.9	913.0	0.89	-0.84	0.63	
2,903.0	27.10	338.30	2,697.9	888.8	-350.2	955.3	0.45	0.11	-0.97	
2,996.0	28.40	336.60	2,780.2	928.8	-366.8	998.6	1.64	1.40	-1.83	
3,089.0	28.30	336.80	2,862.0	969.4	-384.3	1,042.8	0.15	-0.11	0.22	
3,182.0	26.90	336.50	2,944.5	1,008.9	-401.4	1,085.8	1.51	-1.51	-0.32	
3,274.0	28.40	337.30	3,025.9	1,048.2	-418.1	1,128.5	1.68	1.63	0.87	
3,368.0	27.90	338.00	3,108.8	1,089.2	-435.0	1,172.9	0.64	-0.53	0.74	
3,460.0	26.50	339.70	3,190.7	1,128.4	-450.1	1,214.9	1.74	-1.52	1.85	
3,553.0	28.00	339.50	3,273.3	1,168.3	-465.0	1,257.5	1.62	1.61	-0.22	
3,645.0	28.30	339.20	3,354.4	1,209.0	-480.3	1,300.9	0.36	0.33	-0.33	
3,738.0	28.00	339.10	3,436.4	1,250.0	-495.9	1,344.7	0.33	-0.32	-0.11	
3,831.0	28.40	340.70	3,518.4	1,291.2	-511.0	1,388.7	0.92	0.43	1.72	
3,924.0	28.20	340.50	3,600.3	1,332.8	-525.7	1,432.7	0.24	-0.22	-0.22	
4,017.0	28.20	337.80	3,682.3	1,373.9	-541.3	1,476.7	1.37	0.00	-2.90	
4,109.0	29.60	337.60	3,762.8	1,415.0	-558.2	1,521.1	1.53	1.52	-0.22	
4,202.0	30.90	337.10	3,843.1	1,458.2	-576.2	1,568.0	1.42	1.40	-0.54	
4,295.0	32.20	336.60	3,922.4	1,503.0	-595.3	1,616.6	1.43	1.40	-0.54	
4,388.0	32.20	336.40	4,001.1	1,548.4	-615.1	1,666.1	0.11	0.00	-0.22	
4,482.0	30.30	337.10	4,081.4	1,593.2	-634.4	1,714.9	2.06	-2.02	0.74	
4,574.0	28.50	336.70	4,161.6	1,634.8	-652.1	1,760.0	1.97	-1.96	-0.43	
4,667.0	28.90	338.50	4,243.2	1,676.1	-669.1	1,804.7	1.02	0.43	1.94	
4,759.0	27.30	338.50	4,324.3	1,716.4	-685.0	1,848.0	1.74	-1.74	0.00	
4,852.0	26.80	339.70	4,407.1	1,755.9	-700.1	1,890.3	0.80	-0.54	1.29	
4,945.0	27.60	340.10	4,489.9	1,795.8	-714.7	1,932.8	0.88	0.86	0.43	
5,038.0	28.10	341.60	4,572.1	1,836.8	-728.9	1,976.2	0.93	0.54	1.61	
5,131.0	26.30	340.10	4,654.8	1,877.0	-742.8	2,018.7	2.07	-1.94	-1.61	
5,224.0	26.20	338.80	4,738.2	1,915.5	-757.3	2,059.8	0.63	-0.11	-1.40	
5,316.0	23.80	337.70	4,821.6	1,951.6	-771.7	2,098.7	2.66	-2.61	-1.20	
5,409.0	23.40	336.80	4,906.8	1,986.0	-786.1	2,135.9	0.58	-0.43	-0.97	
5,502.0	21.00	337.00	4,992.9	2,018.3	-799.9	2,171.0	2.58	-2.58	0.22	
5,595.0	18.20	336.20	5,080.5	2,046.9	-812.2	2,202.2	3.02	-3.01	-0.86	
5,688.0	15.20	339.20	5,169.6	2,071.6	-822.4	2,228.9	3.36	-3.23	3.23	
5,781.0	14.20	338.50	5,259.5	2,093.6	-830.9	2,252.5	1.09	-1.08	-0.75	
5,874.0	14.00	338.40	5,349.7	2,114.7	-839.3	2,275.1	0.22	-0.22	-0.11	
5,967.0	12.00	338.30	5,440.3	2,134.1	-847.0	2,296.1	2.15	-2.15	-0.11	
6,060.0	9.70	341.50	5,531.7	2,150.6	-853.0	2,313.6	2.56	-2.47	3.44	
6,153.0	9.00	346.30	5,623.4	2,165.1	-857.2	2,328.6	1.13	-0.75	5.16	

Company:	Mineral Resources Inc	Local Co-ordinate Reference:	Well Meadowview 3-1-22
Project:	SEC.22-T5N-R66W	TVD Reference:	WELL @ 4819.0ft (Original Well Elev)
Site:	T-Bone 5-3-22 Pad Sec.22-T5N-R66W	MD Reference:	WELL @ 4819.0ft (Original Well Elev)
Well:	Meadowview 3-1-22	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
6,247.0	7.50	342.20	5,716.5	2,178.0	-860.9	2,342.0	1.71	-1.60	-4.36	
6,339.0	5.80	340.00	5,807.8	2,188.1	-864.3	2,352.6	1.87	-1.85	-2.39	
6,432.0	5.00	337.50	5,900.4	2,196.3	-867.4	2,361.4	0.90	-0.86	-2.69	
6,525.0	3.70	325.10	5,993.2	2,202.5	-870.7	2,368.4	1.72	-1.40	-13.33	
6,618.0	1.50	306.60	6,086.1	2,205.7	-873.4	2,372.3	2.50	-2.37	-19.89	
6,631.9	1.33	306.10	6,100.0	2,205.9	-873.7	2,372.6	1.21	-1.20	-3.60	
TARGET BHL 683'FNL, 1995'FWL										
6,710.0	0.40	295.50	6,178.0	2,206.5	-874.7	2,373.6	1.21	-1.19	-13.58	
6,803.0	0.30	242.00	6,271.0	2,206.6	-875.2	2,373.8	0.35	-0.11	-57.53	
6,896.0	0.30	310.20	6,364.0	2,206.6	-875.6	2,374.0	0.36	0.00	73.33	
6,995.0	0.20	311.00	6,463.0	2,206.9	-875.9	2,374.3	0.10	-0.10	0.81	
7,088.0	0.50	312.90	6,556.0	2,207.3	-876.3	2,374.9	0.32	0.32	2.04	
7,181.0	0.50	315.20	6,649.0	2,207.8	-876.9	2,375.6	0.02	0.00	2.47	
7,232.2	0.50	316.31	6,700.3	2,208.2	-877.2	2,376.0	0.02	0.00	2.17	
LEGAL BOX 400' X 400' 661'FNL & 1964'FWL										
7,273.0	0.50	317.20	6,741.0	2,208.4	-877.5	2,376.3	0.02	0.00	2.17	
7,366.0	0.40	284.80	6,834.0	2,208.8	-878.0	2,376.9	0.29	-0.11	-34.84	
7,459.0	0.40	281.20	6,927.0	2,208.9	-878.7	2,377.3	0.03	0.00	-3.87	
7,552.0	0.20	273.40	7,020.0	2,209.0	-879.2	2,377.5	0.22	-0.22	-8.39	
7,645.0	0.30	344.30	7,113.0	2,209.3	-879.4	2,377.8	0.32	0.11	76.24	
7,738.0	0.40	344.80	7,206.0	2,209.8	-879.5	2,378.4	0.11	0.11	0.54	
7,830.0	0.30	2.40	7,298.0	2,210.4	-879.6	2,378.9	0.16	-0.11	19.13	
7,924.0	0.40	346.00	7,392.0	2,210.9	-879.7	2,379.5	0.15	0.11	-17.45	
8,016.0	0.30	340.70	7,484.0	2,211.5	-879.8	2,380.0	0.11	-0.11	-5.76	
8,110.0	0.40	338.00	7,578.0	2,212.0	-880.0	2,380.6	0.11	0.11	-2.87	
8,203.0	0.70	273.50	7,671.0	2,212.3	-880.7	2,381.2	0.69	0.32	-69.35	
8,295.0	0.70	280.30	7,763.0	2,212.5	-881.8	2,381.7	0.09	0.00	7.39	
8,398.0	0.80	277.10	7,866.0	2,212.7	-883.2	2,382.4	0.11	0.10	-3.11	
8,446.0	0.80	277.10	7,914.0	2,212.7	-883.8	2,382.7	0.00	0.00	0.00	

Checked By: _____ Approved By: _____ Date: _____