



Comet Ridge

COMET RIDGE RESOURCES, LLC

FREMONT COUNTY, CO

WOOLY BUGGER 34-20

WOOLY BUGGER 34-20

WOOLY BUGGER 34-20

Survey: Survey #1

Standard Survey Report

08 November, 2010



Weatherford®

Company:	COMET RIDGE RESOURCES, LLC	Local Co-ordinate Reference:	Well WOOLY BUGGER 34-20
Project:	FREMONT COUNTY, CO	TVD Reference:	WELL @ 5256.00ft (CAPSTAR 314)
Site:	WOOLY BUGGER 34-20	MD Reference:	WELL @ 5256.00ft (CAPSTAR 314)
Well:	WOOLY BUGGER 34-20	North Reference:	True
Wellbore:	WOOLY BUGGER 34-20	Survey Calculation Method:	Minimum Curvature
Design:	WOOLY BUGGER 34-20	Database:	EDM 2003.21 Single User Db

Project	FREMONT COUNTY, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		WOOLY BUGGER 34-20			
Site Position: From:	Lat/Long	Northing:	1,198,085.12 ft	Latitude:	38° 22' 35.904 N
		Easting:	3,105,289.30 ft	Longitude:	105° 7' 57.857 W
	Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:

Well	WOOLY BUGGER 34-20					
Well Position	+N/-S	0.00 ft	Northing:	1,198,085.12 ft	Latitude:	38° 22' 35.904 N
	+E/-W	0.00 ft	Easting:	3,105,289.30 ft	Longitude:	105° 7' 57.857 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,245.00 ft

Wellbore	WOOLY BUGGER 34-20				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	6/29/2010	8.98	65.38	52,076

Design	WOOLY BUGGER 34-20				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	343.90	

Survey Program	Date	7/19/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
737.00	3,831.00	Survey #1 (WOOLY BUGGER 34-20)	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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
737.00	1.06	147.86	736.96	-5.77	3.63	-6.55	0.14	0.14	0.00	
830.00	0.19	203.86	829.95	-6.64	4.02	-7.50	1.04	-0.94	60.22	
924.00	0.19	196.86	923.95	-6.93	3.91	-7.75	0.02	0.00	-7.45	
1,017.00	0.38	169.11	1,016.95	-7.38	3.93	-8.18	0.25	0.20	-29.84	
1,112.00	0.69	159.36	1,111.95	-8.23	4.19	-9.07	0.34	0.33	-10.26	
1,207.00	1.20	146.22	1,206.93	-9.59	4.94	-10.59	0.58	0.54	-13.83	
1,302.00	0.06	79.23	1,301.93	-10.41	5.55	-11.54	1.24	-1.20	-70.52	
1,397.00	0.25	157.86	1,396.93	-10.59	5.67	-11.75	0.26	0.20	82.77	
1,492.00	0.50	135.23	1,491.92	-11.08	6.04	-12.32	0.30	0.26	-23.82	
1,587.00	0.44	126.52	1,586.92	-11.59	6.63	-12.97	0.10	-0.06	-9.17	
1,682.00	2.06	325.23	1,681.90	-10.40	5.95	-11.64	2.61	1.71	-169.78	
1,778.00	5.56	327.23	1,777.68	-5.07	2.44	-5.55	3.65	3.65	2.08	

Company:	COMET RIDGE RESOURCES, LLC	Local Co-ordinate Reference:	Well WOOLY BUGGER 34-20
Project:	FREMONT COUNTY, CO	TVD Reference:	WELL @ 5256.00ft (CAPSTAR 314)
Site:	WOOLY BUGGER 34-20	MD Reference:	WELL @ 5256.00ft (CAPSTAR 314)
Well:	WOOLY BUGGER 34-20	North Reference:	True
Wellbore:	WOOLY BUGGER 34-20	Survey Calculation Method:	Minimum Curvature
Design:	WOOLY BUGGER 34-20	Database:	EDM 2003.21 Single User Db

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)
1,876.00	8.88	335.48	1,874.89	5.80	-3.27	6.48	3.54	3.39	8.42
1,971.00	11.25	336.23	1,968.42	20.96	-10.05	22.92	2.50	2.49	0.79
2,066.00	14.08	340.64	2,061.10	40.34	-17.61	43.65	3.15	2.98	4.64
2,161.00	17.06	340.86	2,152.60	64.42	-26.01	69.11	3.14	3.14	0.23
2,257.00	20.19	341.11	2,243.57	93.40	-36.00	99.72	3.26	3.26	0.26
2,352.00	22.94	340.98	2,331.91	126.42	-47.34	134.59	2.90	2.89	-0.14
2,448.00	25.69	338.36	2,419.39	163.46	-61.11	174.00	3.08	2.86	-2.73
2,542.00	28.81	336.86	2,502.94	203.24	-77.53	216.77	3.40	3.32	-1.60
2,641.00	32.81	339.36	2,587.96	250.29	-96.37	267.20	4.24	4.04	2.53
WOOLY BUGGER 34-20 T-1									
2,713.65	34.01	341.10	2,648.60	287.94	-109.89	307.12	2.11	1.65	2.39
2,736.00	34.38	341.61	2,667.09	299.84	-113.91	319.66	2.11	1.67	2.29
2,831.00	38.00	340.48	2,743.75	352.87	-132.15	375.68	3.87	3.81	-1.19
2,927.00	40.88	343.66	2,817.89	410.89	-150.87	436.61	3.66	3.00	3.31
3,022.00	44.81	343.23	2,887.53	472.80	-169.28	501.20	4.15	4.14	-0.45
3,117.00	47.75	343.61	2,953.18	538.59	-188.86	569.84	3.11	3.09	0.40
3,212.00	50.13	345.61	3,015.58	607.65	-207.85	641.46	2.97	2.51	2.11
3,307.00	52.50	345.11	3,074.95	679.39	-226.59	715.59	2.53	2.49	-0.53
3,403.00	53.38	344.48	3,132.81	753.32	-246.69	792.18	1.06	0.92	-0.66
3,498.00	53.81	345.73	3,189.19	827.21	-266.34	868.62	1.15	0.45	1.32
3,593.00	53.81	347.48	3,245.29	901.79	-284.10	945.20	1.49	0.00	1.84
3,688.00	52.75	346.23	3,302.09	975.94	-301.41	1,021.25	1.54	-1.12	-1.32
LAST SVY - WOOLY BUGGER 34-20 T-2									
3,748.00	52.44	345.11	3,338.54	1,022.12	-313.21	1,068.89	1.57	-0.52	-1.87
PROJ SVY - PBHL WOOLY BUGGER 34-20									
3,831.00	52.44	345.11	3,389.13	1,085.70	-330.11	1,134.67	0.00	0.00	0.00

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude		Longitude
WOOLY BUGGER 34	0.00	0.00	2,651.21	292.76	-84.50	1,198,377.54	3,105,203.62	38° 22' 38.798 N		105° 7' 58.918 W
- survey misses target center by 25.98ft at 2713.81ft MD (2648.74 TVD, 288.02 N, -109.92 E)										
- Point										
WOOLY BUGGER 34	52.02	163.90	3,350.14	1,047.76	-302.42	1,199,131.65	3,104,982.65	38° 22' 46.261 N		105° 8' 1.655 W
- survey misses target center by 30.14ft at 3748.00ft MD (3338.54 TVD, 1022.12 N, -313.21 E)										
- Circle (radius 75.00)										
PBHL WOOLY BUGG	0.00	0.00	3,399.90	1,109.00	-320.10	1,199,192.82	3,104,964.72	38° 22' 46.866 N		105° 8' 1.877 W
- survey misses target center by 27.55ft at 3831.00ft MD (3389.13 TVD, 1085.70 N, -330.11 E)										
- Point										

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
3,748.00	3,338.54	1,022.12	-313.21	LAST SVY	
3,831.00	3,389.13	1,085.70	-330.11	PROJ SVY	

Company:	COMET RIDGE RESOURCES, LLC	Local Co-ordinate Reference:	Well WOOLY BUGGER 34-20
Project:	FREMONT COUNTY, CO	TVD Reference:	WELL @ 5256.00ft (CAPSTAR 314)
Site:	WOOLY BUGGER 34-20	MD Reference:	WELL @ 5256.00ft (CAPSTAR 314)
Well:	WOOLY BUGGER 34-20	North Reference:	True
Wellbore:	WOOLY BUGGER 34-20	Survey Calculation Method:	Minimum Curvature
Design:	WOOLY BUGGER 34-20	Database:	EDM 2003.21 Single User Db

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------