



Comet Ridge

COMET RIDGE RESOURCES, LLC

FREMONT COUNTY, CO

GREENBACK 33-29

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Survey: Survey #1

Standard Survey Report

21 April, 2011



Weatherford®

Company:	COMET RIDGE RESOURCES, LLC	Local Co-ordinate Reference:	Well GREENBACK 33-29
Project:	FREMONT COUNTY, CO	TVD Reference:	WELL @ 5367.50ft (Original Well Elev)
Site:	GREENBACK 33-29	MD Reference:	WELL @ 5367.50ft (Original Well Elev)
Well:	GREENBACK 33-29	North Reference:	True
Wellbore:	GREENBACK 33-29	Survey Calculation Method:	Minimum Curvature
Design:	GREENBACK 33-29	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		GREENBACK 33-29			
Site Position: From:	Lat/Long	Northing:	1,193,408.82 ft	Latitude:	38° 21' 49.691 N
		Easting:	3,105,001.41 ft	Longitude:	105° 8' 1.709 W
	Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:

Well	GREENBACK 33-29					
Well Position	+N/-S	0.00 ft	Northing:	1,193,408.82 ft	Latitude:	38° 21' 49.691 N
	+E/-W	0.00 ft	Easting:	3,105,001.41 ft	Longitude:	105° 8' 1.709 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,356.50 ft

Wellbore	GREENBACK 33-29				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	4/17/2011	8.87	65.35	51,977

Design	GREENBACK 33-29				
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	308.59	

Survey Program	Date 4/21/2011				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
697.00	4,015.00	Survey #1 (GREENBACK 33-29)	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	
697.00	1.74	264.74	696.89	-0.97	-10.54	7.63	0.25	0.25	0.00	
789.00	0.88	156.13	788.88	-1.74	-11.64	8.01	2.38	-0.93	-118.05	
881.00	1.33	146.58	880.86	-3.28	-10.77	6.37	0.53	0.49	-10.38	
976.00	1.50	145.63	975.83	-5.23	-9.46	4.13	0.18	0.18	-1.00	
1,069.00	1.44	142.01	1,068.80	-7.15	-8.05	1.83	0.12	-0.06	-3.89	
1,168.00	1.56	132.88	1,167.77	-9.05	-6.30	-0.72	0.27	0.12	-9.22	
1,263.00	0.44	116.76	1,262.75	-10.10	-5.03	-2.37	1.20	-1.18	-16.97	
1,358.00	0.69	102.63	1,357.75	-10.38	-4.14	-3.24	0.30	0.26	-14.87	
1,452.00	1.00	101.38	1,451.74	-10.67	-2.79	-4.48	0.33	0.33	-1.33	
1,548.00	1.31	120.13	1,547.72	-11.39	-1.02	-6.31	0.51	0.32	19.53	
1,643.00	0.38	270.01	1,642.71	-11.93	-0.39	-7.14	1.74	-0.98	157.77	
1,738.00	0.63	255.38	1,737.71	-12.06	-1.21	-6.58	0.29	0.26	-15.40	

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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)
1,829.00	2.50	300.88	1,828.67	-11.17	-3.40	-4.31	2.32	2.05	50.00
1,893.00	4.38	311.38	1,892.55	-8.84	-6.43	-0.49	3.09	2.94	16.41
1,960.00	6.63	311.26	1,959.24	-4.60	-11.26	5.93	3.36	3.36	-0.18
2,022.00	9.13	306.54	2,020.65	0.69	-17.90	14.43	4.16	4.03	-7.61
2,085.00	11.19	310.01	2,082.66	7.60	-26.60	25.53	3.41	3.27	5.51
2,148.00	13.13	315.38	2,144.24	16.63	-36.31	38.75	3.56	3.08	8.52
2,212.00	15.69	317.76	2,206.23	28.21	-47.24	54.52	4.10	4.00	3.72
2,275.00	18.13	312.01	2,266.50	41.08	-60.25	72.72	4.69	3.87	-9.13
2,338.00	19.81	306.13	2,326.08	53.93	-76.16	93.17	4.04	2.67	-9.33
2,402.00	21.88	302.76	2,385.89	66.78	-94.95	115.87	3.74	3.23	-5.27
2,465.00	23.81	303.13	2,443.95	80.09	-115.47	140.21	3.07	3.06	0.59
2,528.00	25.75	304.88	2,501.15	94.86	-137.35	166.53	3.29	3.08	2.78
2,591.00	27.75	306.38	2,557.40	111.39	-160.39	194.84	3.35	3.17	2.38
2,655.00	29.81	309.26	2,613.50	130.30	-184.70	225.64	3.88	3.22	4.50
2,716.00	31.63	310.76	2,665.93	150.34	-208.56	256.79	3.24	2.98	2.46
2,780.00	34.38	311.63	2,719.60	173.31	-234.78	291.61	4.36	4.30	1.36
2,843.00	36.13	313.13	2,771.05	197.82	-261.64	327.89	3.10	2.78	2.38
2,906.00	38.44	313.76	2,821.17	224.07	-289.34	365.92	3.72	3.67	1.00
2,973.00	41.25	314.01	2,872.60	253.82	-320.27	408.66	4.20	4.19	0.37
3,036.00	44.31	314.38	2,918.84	283.65	-350.95	451.24	4.87	4.86	0.59
3,099.00	46.94	315.13	2,962.89	315.36	-382.92	496.00	4.26	4.17	1.19
3,162.00	49.19	312.13	3,005.00	347.67	-416.84	542.67	5.03	3.57	-4.76
3,226.00	51.50	309.88	3,045.84	379.98	-454.03	591.90	4.51	3.61	-3.52
3,289.00	54.00	308.13	3,083.97	411.53	-493.00	642.04	4.54	3.97	-2.78
TOP TGT GREENBACK 33-29									
3,297.90	54.38	308.04	3,089.18	415.98	-498.69	649.25	4.37	4.29	-1.00
3,353.00	56.75	307.51	3,120.34	443.82	-534.60	694.69	4.37	4.30	-0.96
3,416.00	59.81	307.51	3,153.46	476.44	-577.11	748.26	4.86	4.86	0.00
3,480.00	59.94	307.51	3,185.58	510.15	-621.02	803.61	0.20	0.20	0.00
3,543.00	59.94	307.38	3,217.13	543.30	-664.31	858.13	0.18	0.00	-0.21
3,607.00	59.94	306.88	3,249.19	576.74	-708.47	913.50	0.68	0.00	-0.78
3,670.00	60.32	306.59	3,280.57	609.41	-752.25	968.10	0.72	0.60	-0.46
3,734.00	60.06	306.38	3,312.38	642.43	-796.90	1,023.60	0.50	-0.41	-0.33
3,798.00	58.44	306.26	3,345.11	675.01	-841.22	1,078.55	2.54	-2.53	-0.19
3,861.00	58.44	306.26	3,378.08	706.76	-884.50	1,132.19	0.00	0.00	0.00
LAST SVY									
3,924.00	58.63	306.26	3,410.96	738.54	-927.83	1,185.88	0.30	0.30	0.00
PROJ SVY - PBHL GREENBACK 33-29									
4,015.00	58.63	306.26	3,458.33	784.50	-990.48	1,263.52	0.00	0.00	0.00

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
3,924.00	3,410.96	738.54	-927.83	LAST SVY	
4,015.00	3,458.33	784.50	-990.48	PROJ SVY	

Checked By: _____	Approved By: _____	Date: _____
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