



Comet Ridge

## **COMET RIDGE RESOURCES, LLC**

**FREMONT COUNTY, CO**

**GREENBACK 33-29**

**GREENBACK 33-29**

**GREENBACK 33-29**

**Survey: Survey ST #1**

## **Standard Survey Report**

**27 April, 2011**



**Weatherford®**

<b>Company:</b>	COMET RIDGE RESOURCES, LLC	<b>Local Co-ordinate Reference:</b>	Well GREENBACK 33-29
<b>Project:</b>	FREMONT COUNTY, CO	<b>TVD Reference:</b>	WELL @ 5367.50ft (Original Well Elev)
<b>Site:</b>	GREENBACK 33-29	<b>MD Reference:</b>	WELL @ 5367.50ft (Original Well Elev)
<b>Well:</b>	GREENBACK 33-29	<b>North Reference:</b>	True
<b>Wellbore:</b>	GREENBACK 33-29	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	GREENBACK 33-29	<b>Database:</b>	EDM 2003.21 Single User Db

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

Site		GREENBACK 33-29			
Site Position:		Northing:	1,193,408.82 ft	Latitude:	38° 21' 49.691 N
From:	Lat/Long	Easting:	3,105,001.41 ft	Longitude:	105° 8' 1.709 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.23 °

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

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

<b>Design</b>	GREENBACK 33-29				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	308.59	

<b>Survey Program</b>	<b>Date</b> 4/27/2011				
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
697.00	2,338.00	Survey #1 (GREENBACK 33-29)	MWD	MWD - Standard	
2,394.00	4,048.00	Survey ST #1 (GREENBACK 33-29)	MWD	MWD - Standard	

<b>Survey</b>									
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>
<b>TIE ON POINT</b>									
2,338.00	19.81	306.13	2,326.08	53.93	-76.16	93.17	0.00	0.00	0.00
2,394.00	18.56	304.38	2,378.97	64.56	-91.18	111.54	2.46	-2.23	-3.13
2,459.00	17.31	294.63	2,440.83	74.44	-108.51	131.24	5.00	-1.92	-15.00
2,523.00	20.56	287.38	2,501.36	81.76	-127.90	150.97	6.26	5.08	-11.33
2,586.00	24.75	283.26	2,559.49	88.10	-151.30	173.21	7.11	6.65	-6.54
2,649.00	29.00	283.88	2,615.68	94.79	-178.98	199.02	6.76	6.75	0.98
2,711.00	32.75	290.51	2,668.90	104.28	-209.30	228.63	8.16	6.05	10.69
2,774.00	35.06	295.26	2,721.19	117.97	-241.63	262.45	5.58	3.67	7.54
2,838.00	36.00	303.63	2,773.31	136.24	-273.94	299.10	7.74	1.47	13.08
2,900.00	37.81	308.26	2,822.89	158.11	-304.04	336.27	5.35	2.92	7.47
2,964.00	41.81	309.26	2,872.04	183.77	-335.97	377.23	6.33	6.25	1.56

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<b>Site:</b>	GREENBACK 33-29	<b>MD Reference:</b>	WELL @ 5367.50ft (Original Well Elev)
<b>Well:</b>	GREENBACK 33-29	<b>North Reference:</b>	True
<b>Wellbore:</b>	GREENBACK 33-29	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	GREENBACK 33-29	<b>Database:</b>	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)
3,027.00	44.69	312.88	2,917.93	212.14	-368.48	420.34	6.03	4.57	5.75
3,091.00	48.00	315.76	2,962.11	244.51	-401.57	466.39	6.11	5.17	4.50
3,154.00	52.00	315.26	3,002.60	278.92	-435.39	514.29	6.38	6.35	-0.79
3,218.00	56.31	312.01	3,040.08	314.68	-472.95	565.95	7.89	6.73	-5.08
3,284.00	56.88	310.51	3,076.41	351.01	-514.37	620.98	2.08	0.86	-2.27
<b>TOP TGT GREENBACK 33-29</b>									
3,315.02	56.95	310.08	3,093.34	367.82	-534.19	646.96	1.18	0.24	-1.38
3,411.00	57.19	308.76	3,145.52	418.97	-596.42	727.51	1.18	0.25	-1.38
3,474.00	57.38	308.81	3,179.57	452.17	-637.74	780.52	0.31	0.30	0.08
3,538.00	57.69	307.26	3,213.93	485.44	-680.27	834.51	2.10	0.48	-2.42
3,602.00	57.75	306.63	3,248.11	517.96	-723.51	888.60	0.84	0.09	-0.98
3,665.00	59.06	305.01	3,281.11	549.36	-767.03	942.19	3.02	2.08	-2.57
3,729.00	59.50	304.76	3,313.81	580.83	-812.16	997.09	0.77	0.69	-0.39
3,792.00	59.06	304.88	3,345.99	611.75	-856.62	1,051.14	0.72	-0.70	0.19
3,855.00	59.00	305.51	3,378.41	642.89	-900.76	1,105.06	0.86	-0.10	1.00
3,919.00	58.56	306.63	3,411.58	675.11	-945.00	1,159.74	1.65	-0.69	1.75
<b>LAST SVY</b>									
3,983.00	58.66	306.32	3,444.92	707.59	-988.93	1,214.33	0.44	0.16	-0.48
<b>PROJ SVY - PBHL GREENBACK 33-29</b>									
4,048.00	58.66	306.32	3,478.73	740.47	-1,033.67	1,269.81	0.00	0.00	0.00

**Survey Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,338.00	2,326.08	53.93	-76.16	TIE ON POINT
3,983.00	3,444.92	707.59	-988.93	LAST SVY
4,048.00	3,478.73	740.47	-1,033.67	PROJ SVY

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



Project: FREMONT COUNTY, CO  
 Site: GREENBACK 33-29  
 Well: GREENBACK 33-29  
 Wellbore: GREENBACK 33-29  
 Design: GREENBACK 33-29  
 Lat: 38° 21' 49.691 N  
 Long: 105° 8' 1.709 W  
 KB: WELL @ 5367.50ft (Original Well Elev)  
 GR: 5356.50



**Weatherford**

#### SECTION DETAILS

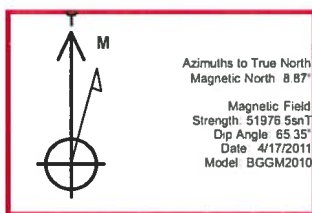
No plan data is available

#### WELL DETAILS: GREENBACK 33-29

+N/-S	+E/-W	Ground Level:	5356.50	Latitude	Longitude	Slot
0.00	0.00	1193408.82	3105001.41	38° 21' 49.691 N	105° 8' 1.709 W	

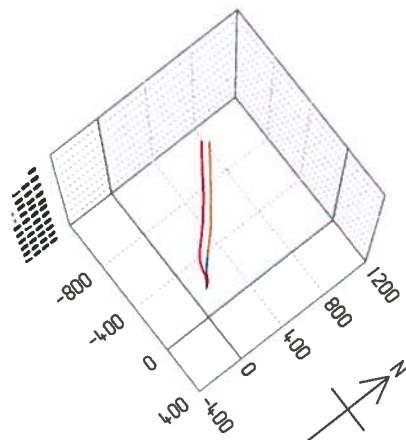
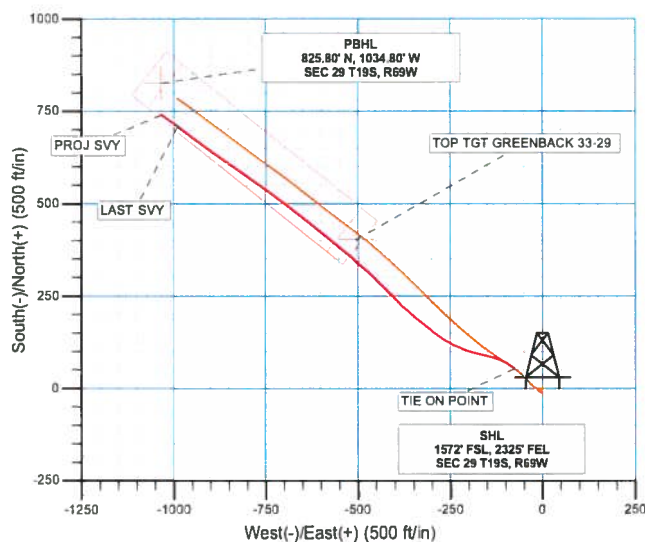
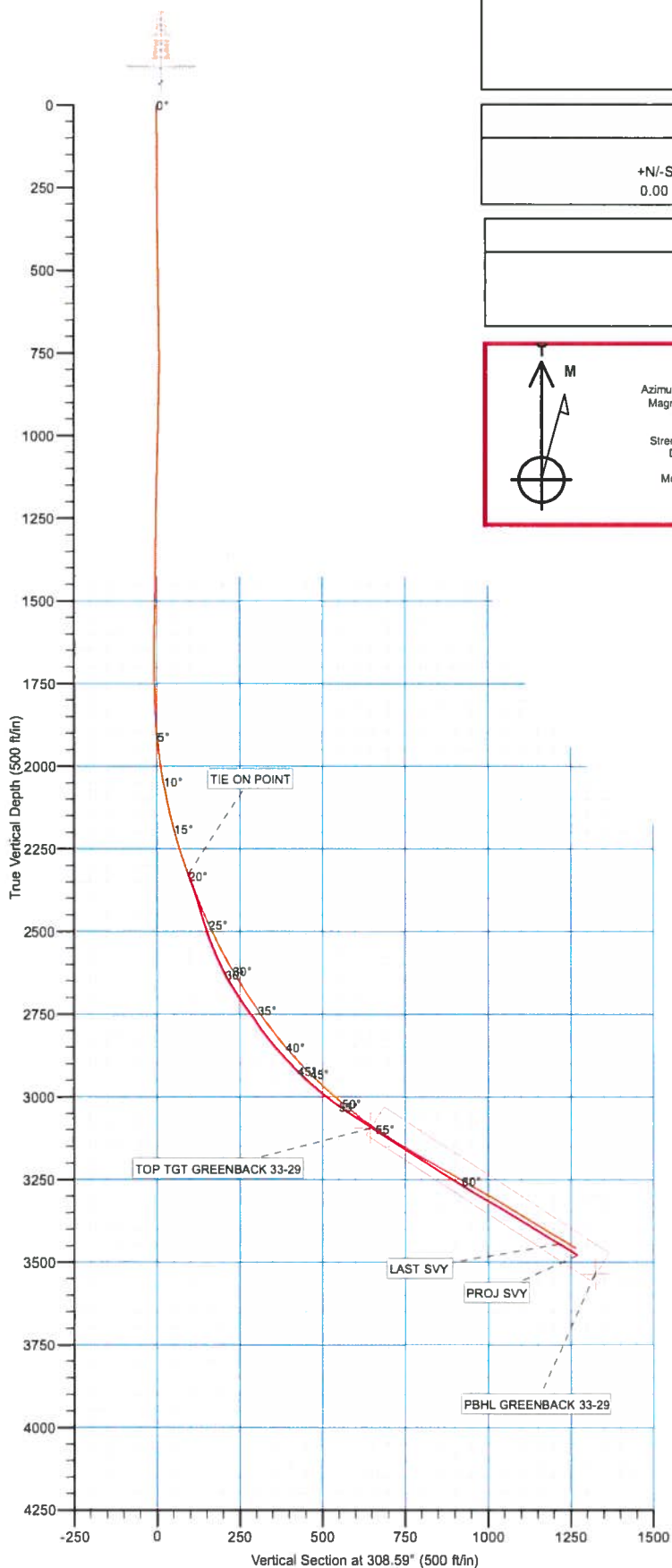
#### WELLBORE TARGET DETAILS (LAT/LONG)

TVD	+N/-S	+E/-W	Latitude	Longitude	Shape	No wellbore target data is available



#### CASING DETAILS

No casing data is available



Survey: Survey ST #1 (GREENBACK 33-29/GREENBACK 33-29)

Created By: TRACY WILLIAMS Date: 9:33, April 27 2011