

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	MITCHELL 20-25	Wellbore No.	00
Well Name	MITCHELL 20-25	Common Name	MITCHELL 20-25
Project	COLORADO-WELD-NAD83-UTM13	Site	MITCHELL 20-25
Vertical Section	294.75 (")	North reference	True
Azimuth			
Origin N/S	0.0 (usft)	Origin E/W	0.0 (usft)
Spud date	6/21/2009	UWI	0/1/N/68/W/25/0/SWSE/6/PM/S/1,245.00/E/0/1,3 20.00/0/0
Active datum	KB @5,109.00usft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: SURFACE & PRODUCTION

Survey Name	SURFACE & PRODUCTION	Company	BAKER HUGHES INCORPORATED
Started	6/21/2009	Ended	
Tool Name	MWD	Engineer	

2.1.1 Tie On Point

MD (usft)	Inc. (°)	Azi. (°)	TVD (usft)	N/S (usft)	E/W (usft)
0.00	0.00	0.00	0.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (usft)	Inc. (°)	Azi. (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. sec. (usft)	Dleg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	Tface (°)
6/21/2009	Tie On	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/21/2009	NORMAL	15.00	0.00	67.90	15.00	0.00	0.00	0.00	0.00	0.00	0.00	67.90
	NORMAL	123.00	0.60	67.90	123.00	0.21	0.52	-0.39	0.56	0.56	0.00	67.90
	NORMAL	218.00	0.40	79.10	217.99	0.46	1.31	-1.00	0.23	-0.21	11.79	159.48
	NORMAL	309.00	0.40	88.60	308.99	0.53	1.94	-1.54	0.07	0.00	10.44	94.75
	NORMAL	400.00	0.20	70.70	399.99	0.59	2.41	-1.94	0.24	-0.22	-19.67	-163.66
	NORMAL	492.00	0.20	212.70	491.99	0.51	2.47	-2.03	0.41	0.00	154.35	161.00
	NORMAL	584.00	0.40	198.70	583.99	0.07	2.28	-2.04	0.23	0.22	-15.22	-27.22
	NORMAL	676.00	0.90	215.20	675.98	-0.83	1.76	-1.95	0.57	0.54	17.93	28.90
	NORMAL	767.00	1.20	231.70	766.97	-2.00	0.60	-1.39	0.46	0.33	18.13	53.67
6/22/2009	NORMAL	859.00	1.50	233.80	858.94	-3.31	-1.12	-0.36	0.33	0.33	2.28	10.42
	NORMAL	952.00	1.40	232.40	951.91	-4.72	-3.01	0.75	0.11	-0.11	-1.51	-161.19
	NORMAL	1,059.00	1.10	228.90	1,058.89	-6.19	-4.82	1.78	0.29	-0.28	-3.27	-167.47
	NORMAL	1,143.00	1.10	201.50	1,142.87	-7.47	-5.72	2.06	0.62	0.00	-32.62	-103.70
	NORMAL	1,332.00	1.10	212.40	1,331.84	-10.69	-7.36	2.20	0.11	0.00	5.77	95.45
	NORMAL	1,521.00	0.60	195.10	1,520.82	-13.18	-8.59	2.28	0.29	-0.26	-9.15	-161.30
	NORMAL	1,710.00	0.40	207.10	1,709.81	-14.72	-9.14	2.14	0.12	-0.11	6.35	158.28
	NORMAL	1,899.00	0.30	272.10	1,898.81	-15.29	-9.94	2.62	0.20	-0.05	34.39	135.14

## 2.1.2 Survey Stations (Continued)

Date	Type	MD (usft)	Inc. (°)	Azi. (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. sec. (usft)	Dleg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	Tface (°)
6/22/2009	NORMAL	2,088.00	0.50	297.40	2,087.80	-14.89	-11.17	3.90	0.14	0.11	13.39	54.57
	NORMAL	2,277.00	0.50	292.50	2,276.79	-14.20	-12.66	5.55	0.02	0.00	-2.59	-92.45
	NORMAL	2,466.00	0.40	295.00	2,465.79	-13.60	-14.02	7.04	0.05	-0.05	1.32	170.14
	NORMAL	2,655.00	0.70	321.00	2,654.78	-12.43	-15.34	8.73	0.20	0.16	13.76	53.25
	NORMAL	2,844.00	1.10	313.60	2,843.76	-10.28	-17.38	11.48	0.22	0.21	-3.92	-19.92
6/23/2009	NORMAL	3,033.00	1.00	344.60	3,032.73	-7.44	-19.14	14.26	0.30	-0.05	16.40	115.24
	NORMAL	3,222.00	0.80	333.30	3,221.70	-4.67	-20.17	16.36	0.14	-0.11	-5.98	-143.97
	NORMAL	3,411.00	0.80	291.80	3,410.69	-3.00	-21.99	18.71	0.30	0.00	-21.98	-110.75
	NORMAL	3,600.00	1.00	292.50	3,599.66	-1.88	-24.73	21.67	0.11	0.11	0.37	3.50
	NORMAL	3,789.00	0.90	304.10	3,788.64	-0.42	-27.49	24.79	0.11	-0.05	6.14	123.19
	NORMAL	3,978.00	0.40	352.30	3,977.63	1.07	-28.80	26.61	0.37	-0.26	25.50	154.79
	NORMAL	4,168.00	0.40	336.80	4,167.62	2.34	-29.15	27.45	0.06	0.00	-8.16	-97.75
	NORMAL	4,357.00	0.60	63.70	4,356.62	3.38	-28.53	27.32	0.37	0.11	45.98	121.53
	NORMAL	4,546.00	0.90	80.50	4,545.60	4.06	-26.18	25.47	0.20	0.16	8.89	44.84
	NORMAL	4,735.00	1.20	79.10	4,734.57	4.68	-22.77	22.64	0.16	0.16	-0.74	-5.59
	NORMAL	4,924.00	1.10	82.60	4,923.53	5.29	-19.03	19.49	0.06	-0.05	1.85	146.66
	NORMAL	5,113.00	0.40	74.60	5,112.51	5.70	-16.59	17.45	0.37	-0.37	-4.23	-175.48
	NORMAL	5,301.00	0.20	85.80	5,300.51	5.90	-15.63	16.66	0.11	-0.11	5.96	169.21
	NORMAL	5,491.00	0.10	280.90	5,490.51	5.95	-15.46	16.54	0.16	-0.05	-86.79	-174.88
	NORMAL	5,680.00	0.20	332.60	5,679.51	6.28	-15.78	16.96	0.08	0.05	27.35	81.32
	NORMAL	5,869.00	0.20	333.70	5,868.51	6.87	-16.08	17.47	0.00	0.00	0.58	90.55
	NORMAL	6,058.00	0.30	310.10	6,057.51	7.48	-16.60	18.21	0.07	0.05	-12.49	-58.05
	NORMAL	6,247.00	0.50	315.40	6,246.50	8.39	-17.56	19.46	0.11	0.11	2.80	13.14
	NORMAL	6,435.00	0.40	318.90	6,434.50	9.47	-18.56	20.82	0.06	-0.05	1.86	166.38
	NORMAL	6,625.00	0.30	58.00	6,624.49	10.23	-18.58	21.15	0.28	-0.05	52.16	146.49
	NORMAL	6,813.00	0.30	43.60	6,812.49	10.85	-17.82	20.73	0.04	0.00	-7.66	-97.20
	NORMAL	7,003.00	0.20	11.60	7,002.49	11.53	-17.41	20.64	0.09	-0.05	-16.84	-140.80
	NORMAL	7,192.00	0.50	56.80	7,191.49	12.31	-16.66	20.28	0.20	0.16	23.92	66.76
NORMAL	7,381.00	1.30	140.30	7,380.47	11.11	-14.60	17.91	0.71	0.42	44.18	105.28	
6/24/2009	NORMAL	7,570.00	1.90	132.60	7,569.39	7.34	-10.92	12.99	0.34	0.32	-4.07	-23.59
	NORMAL	7,759.00	0.70	132.20	7,758.34	4.44	-7.76	8.91	0.63	-0.63	-0.21	-179.77
	NORMAL	7,949.00	0.30	268.60	7,948.34	3.65	-7.40	8.24	0.49	-0.21	71.79	167.29
	NORMAL	8,032.00	0.30	280.60	8,031.33	3.68	-7.83	8.65	0.08	0.00	14.46	96.00
	NORMAL	8,085.00	0.30	280.60	8,084.33	3.73	-8.10	8.92	0.00	0.00	0.00	0.00