

PICEANCE VLY NAD 83



02286458

Well Name: GM 544-27
 Surface Location: MV 29-27 Pad
 North American Datum 1983, US State Plane 1983 Colorado Central Zone
 Ground Elevation: 5659.0

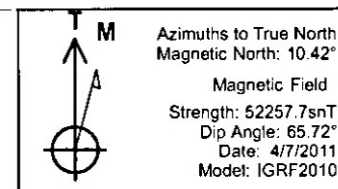
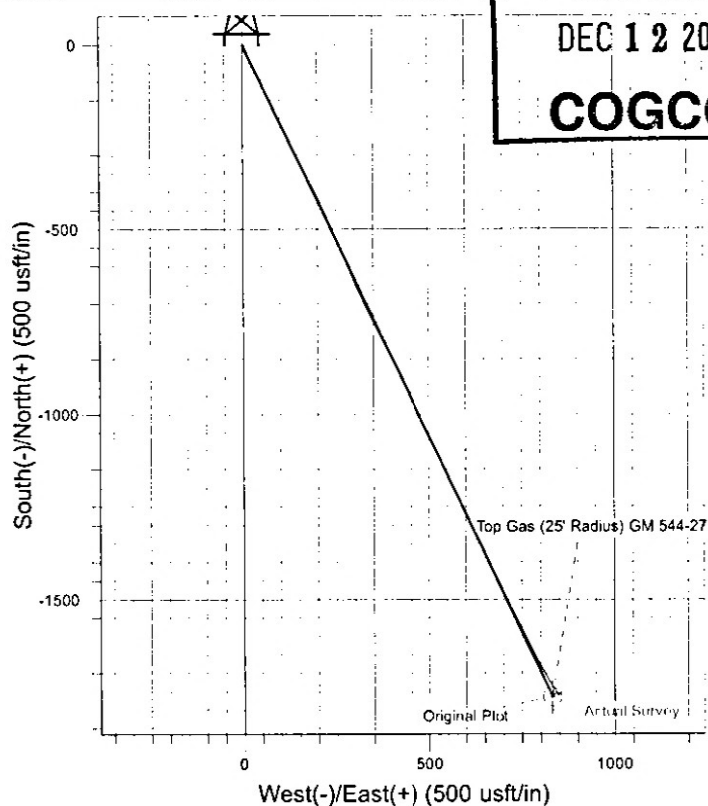
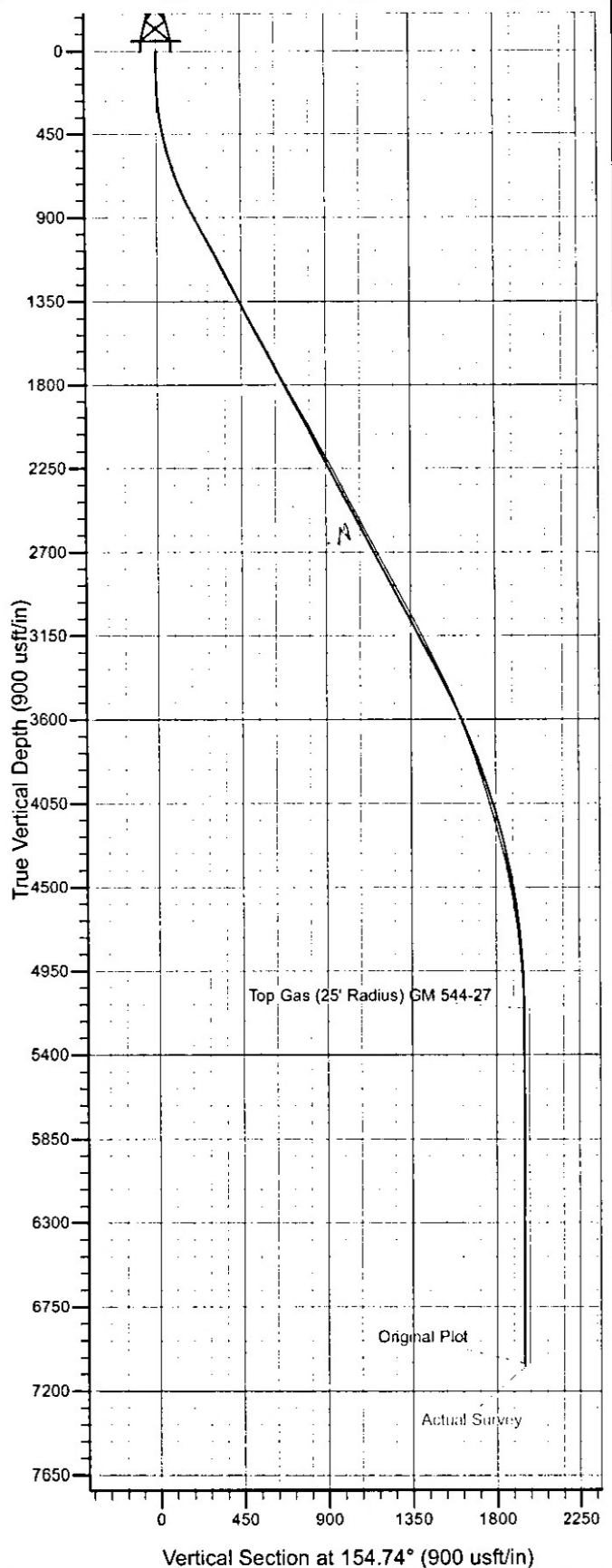
+N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1614929.32 2269194.80 39° 29' 35.367 N 108° 5' 23.687 W B11
 KELLY BUSHING @ 5683.0usft (H&P 271 (24'KB) JMS)

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1 General**1.1 Customer Information**

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	GM 544-27	Wellbore No.	
Well Name	GM 544-27	Common Name	GM 544-27
Project	GV 27-06S-096W	Site	MV 29-27 Pad
Vertical Section Azimuth		North Reference	True
Origin N/S		Origin E/W	
Spud Date	4/7/2011	UWI	GM 544-27
Active Datum	KB @5,683.0ft (above Mean Sea Level)		

2 Survey Name**2.1 Survey Name: Survey #1**

Survey Name	Survey #1	Company	
Started	4/7/2011	Ended	
Tool Name	MWD	Engineer	

2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
0.0	0.00	0.00	0.00	0.00	0.00

2.1.2 Survey Stations

5383

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
4/7/2011	Tie On	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/7/2011	NORMAL	77.0	0.35	126.04	77.00	-0.14	0.19	-0.14	0.45	0.45	0.00	126.04
	NORMAL	110.0	0.44	157.85	110.00	-0.32	0.32	-0.32	0.71	0.27	96.39	84.11
	NORMAL	141.0	1.06	176.04	141.00	-0.71	0.38	-0.71	2.12	2.00	58.68	30.27
	NORMAL	171.0	1.32	169.01	170.99	-1.33	0.47	-1.33	0.99	0.87	-23.43	327.14
	NORMAL	202.0	1.76	175.17	201.98	-2.15	0.58	-2.15	1.51	1.42	19.87	23.72
	NORMAL	232.0	2.99	169.54	231.95	-3.38	0.76	-3.38	4.17	4.10	-18.77	346.44
	NORMAL	262.0	3.96	169.37	261.90	-5.17	1.09	-5.17	3.23	3.23	-0.57	359.31
	NORMAL	293.0	4.93	158.55	292.80	-7.46	1.78	-7.46	4.12	3.13	-34.90	313.68
	NORMAL	324.0	6.42	156.88	323.65	-10.29	2.94	-10.29	4.84	4.81	-5.39	352.84
	NORMAL	354.0	7.74	157.68	353.42	-13.71	4.37	-13.71	4.41	4.40	2.67	4.67
	NORMAL	384.0	9.06	155.13	383.10	-17.72	6.13	-17.72	4.57	4.40	-8.50	342.98
	NORMAL	414.0	10.73	152.40	412.65	-22.34	8.42	-22.34	5.78	5.57	-9.10	342.96
	NORMAL	444.0	11.88	151.44	442.07	-27.52	11.19	-27.52	3.88	3.83	-3.20	350.24
	NORMAL	474.0	13.02	150.73	471.36	-33.18	14.32	-33.18	3.83	3.80	-2.37	352.01
	NORMAL	505.0	13.90	153.54	501.51	-39.56	17.68	-39.56	3.54	2.84	9.06	37.99
	NORMAL	535.0	14.87	157.41	530.57	-46.34	20.77	-46.34	4.55	3.23	12.90	46.63
	NORMAL	565.0	15.57	155.39	559.52	-53.56	23.92	-53.56	2.93	2.33	-6.73	321.88
	NORMAL	640.0	18.29	154.30	631.26	-73.32	33.22	-73.32	3.65	3.63	-1.45	352.82
	NORMAL	670.0	19.61	153.21	659.64	-82.05	37.53	-82.05	4.56	4.40	-3.63	344.47
	NORMAL	701.0	20.58	155.06	688.75	-91.64	42.17	-91.64	3.74	3.13	5.97	34.11

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2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
4/7/2011	NORMAL	731.0	21.98	154.21	716.70	-101.47	46.84	-101.47	4.78	4.67	-2.83	347.18
	NORMAL	761.0	22.69	154.30	744.45	-111.74	51.79	-111.74	2.37	2.37	0.30	2.80
	NORMAL	792.0	23.57	153.47	772.96	-122.68	57.15	-122.68	3.03	2.84	-2.68	339.29
	NORMAL	822.0	24.53	153.95	800.36	-133.64	62.57	-133.64	3.27	3.20	1.60	11.74
	NORMAL	853.0	25.59	155.62	828.44	-145.52	68.16	-145.52	4.11	3.42	5.39	34.47
	NORMAL	883.0	26.92	155.21	855.34	-157.59	73.68	-157.59	4.47	4.43	-1.37	352.05
	NORMAL	914.0	28.58	156.76	882.78	-170.77	79.55	-170.77	5.84	5.35	5.00	24.19
	NORMAL	944.0	29.68	155.77	908.98	-184.14	85.43	-184.14	4.00	3.67	-3.30	335.91
4/8/2011	NORMAL	974.0	29.41	156.40	935.08	-197.66	91.42	-197.66	1.37	-0.90	2.10	131.27
	NORMAL	990.0	29.34	155.89	949.02	-204.84	94.60	-204.84	1.62	-0.44	-3.19	254.15
	NORMAL	1,064.0	28.87	153.59	1,013.68	-237.39	109.95	-237.39	1.64	-0.64	-3.11	246.21
	NORMAL	1,158.0	28.28	152.48	1,096.23	-277.46	130.33	-277.46	0.84	-0.63	-1.18	221.50
	NORMAL	1,252.0	28.21	154.41	1,179.04	-317.25	150.22	-317.25	0.97	-0.07	2.05	95.23
	NORMAL	1,346.0	26.98	154.15	1,262.35	-356.48	169.11	-356.48	1.31	-1.31	-0.28	185.48
	NORMAL	1,441.0	27.37	154.23	1,346.86	-395.54	188.00	-395.54	0.41	0.41	0.08	5.39
	NORMAL	1,535.0	28.26	154.33	1,430.00	-435.05	207.04	-435.05	0.95	0.95	0.11	3.05
4/9/2011	NORMAL	1,630.0	28.41	156.41	1,513.62	-476.03	225.82	-476.03	1.05	0.16	2.19	82.28
	NORMAL	1,724.0	29.08	155.76	1,596.03	-517.36	244.15	-517.36	0.79	0.71	-0.69	334.70
	NORMAL	1,818.0	27.42	155.16	1,678.83	-557.83	262.62	-557.83	1.79	-1.77	-0.64	189.44
	NORMAL	1,913.0	27.49	156.74	1,763.14	-597.83	280.47	-597.83	0.77	0.07	1.66	85.21
	NORMAL	2,007.0	29.37	156.76	1,845.80	-638.94	298.14	-638.94	2.00	2.00	0.02	0.30
	NORMAL	2,102.0	29.85	154.78	1,928.39	-681.74	317.40	-681.74	1.15	0.51	-2.08	295.27
	NORMAL	2,196.0	29.07	154.73	2,010.24	-723.55	337.12	-723.55	0.83	-0.83	-0.05	181.78
	NORMAL	2,289.0	29.90	152.98	2,091.19	-764.63	357.30	-764.63	1.29	0.89	-1.88	313.17
	NORMAL	2,383.0	29.02	152.80	2,173.04	-805.79	378.36	-805.79	0.94	-0.94	-0.19	185.67
	NORMAL	2,478.0	28.00	152.41	2,256.52	-846.05	399.22	-846.05	1.09	-1.07	-0.41	190.17
	NORMAL	2,572.0	27.87	155.18	2,339.57	-885.55	418.67	-885.55	1.39	-0.14	2.95	96.94
	NORMAL	2,666.0	27.79	155.70	2,422.69	-925.46	436.91	-925.46	0.27	-0.09	0.55	108.47
	NORMAL	2,761.0	27.61	154.91	2,506.81	-965.58	455.35	-965.58	0.43	-0.19	-0.83	243.54
	NORMAL	2,855.0	28.05	156.05	2,589.93	-1,005.51	473.56	-1,005.51	0.73	0.47	1.21	50.92
	NORMAL	2,949.0	28.66	154.51	2,672.66	-1,046.05	492.24	-1,046.05	1.01	0.65	-1.64	309.15
	NORMAL	3,044.0	27.96	154.02	2,756.29	-1,086.64	511.80	-1,086.64	0.78	-0.74	-0.52	198.15
	NORMAL	3,138.0	28.67	154.47	2,839.05	-1,126.79	531.17	-1,126.79	0.79	0.76	0.48	16.93
	NORMAL	3,233.0	27.96	154.12	2,922.68	-1,167.40	550.71	-1,167.40	0.77	-0.75	-0.37	193.01
	NORMAL	3,327.0	28.39	154.98	3,005.54	-1,207.47	569.78	-1,207.47	0.63	0.46	0.91	43.74
	NORMAL	3,421.0	27.92	154.97	3,088.42	-1,247.66	588.54	-1,247.66	0.50	-0.50	-0.01	180.57
	NORMAL	3,516.0	26.91	155.18	3,172.75	-1,287.33	606.98	-1,287.33	1.07	-1.06	0.22	174.62
	NORMAL	3,610.0	26.18	154.80	3,256.84	-1,325.40	624.74	-1,325.40	0.80	-0.78	-0.40	192.93
	NORMAL	3,704.0	25.51	153.90	3,341.44	-1,362.34	642.47	-1,362.34	0.83	-0.71	-0.96	209.95
	NORMAL	3,799.0	24.49	153.55	3,427.54	-1,398.34	660.24	-1,398.34	1.08	-1.07	-0.37	188.09
4/10/2011	NORMAL	3,893.0	22.60	154.38	3,513.71	-1,432.07	676.73	-1,432.07	2.04	-2.01	0.88	170.43
	NORMAL	3,988.0	21.98	154.12	3,601.61	-1,464.53	692.38	-1,464.53	0.66	-0.65	-0.27	188.92
	NORMAL	4,082.0	19.75	154.03	3,689.44	-1,494.64	707.02	-1,494.64	2.37	-2.37	-0.10	180.78
	NORMAL	4,177.0	18.73	153.86	3,779.13	-1,522.76	720.77	-1,522.76	1.08	-1.07	-0.18	183.06
	NORMAL	4,271.0	17.76	153.51	3,868.40	-1,549.14	733.81	-1,549.14	1.04	-1.03	-0.37	186.28
	NORMAL	4,365.0	17.23	153.15	3,958.05	-1,574.39	746.50	-1,574.39	0.58	-0.56	-0.38	191.37
	NORMAL	4,459.0	15.99	152.96	4,048.13	-1,598.35	758.67	-1,598.35	1.32	-1.32	-0.20	182.42
	NORMAL	4,554.0	15.56	153.68	4,139.55	-1,621.42	770.27	-1,621.42	0.50	-0.45	0.76	155.87
	NORMAL	4,648.0	14.67	153.05	4,230.30	-1,643.33	781.25	-1,643.33	0.96	-0.95	-0.67	190.15
	NORMAL	4,742.0	13.72	153.42	4,321.43	-1,663.91	791.64	-1,663.91	1.02	-1.01	0.39	174.72
	NORMAL	4,837.0	11.70	150.96	4,414.10	-1,682.41	801.35	-1,682.41	2.20	-2.13	-2.59	193.80
	NORMAL	4,931.0	10.80	150.38	4,506.29	-1,698.40	810.33	-1,698.40	0.96	-0.96	-0.62	186.88
	NORMAL	5,025.0	8.88	149.38	4,598.90	-1,712.30	818.38	-1,712.30	2.05	-2.04	-1.06	184.59
	NORMAL	5,120.0	8.35	151.05	4,692.83	-1,724.65	825.45	-1,724.65	0.62	-0.56	1.76	155.56
	NORMAL	5,214.0	6.42	140.94	4,786.05	-1,734.70	832.07	-1,734.70	2.47	-2.05	-10.76	209.01
	NORMAL	5,309.0	5.46	140.63	4,880.54	-1,742.32	838.29	-1,742.32	1.01	-1.01	-0.33	181.76
	NORMAL	5,403.0	4.19	155.62	4,974.21	-1,748.91	842.54	-1,748.91	1.89	-1.35	15.95	142.51

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2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
4/10/2011	NORMAL	5,498.0	3.31	142.22	5,069.00	-1,754.24	845.65	-1,754.24	1.30	-0.93	-14.11	218.33
	NORMAL	5,592.0	0.81	133.46	5,162.94	-1,756.84	847.80	-1,756.84	2.67	-2.66	-9.32	182.82
	NORMAL	5,686.0	0.62	247.40	5,256.93	-1,757.49	847.81	-1,757.49	1.28	-0.20	121.21	151.91
4/11/2011	NORMAL	5,781.0	0.97	235.95	5,351.92	-1,758.14	846.67	-1,758.14	0.40	0.37	-12.05	329.79
	NORMAL	5,875.0	0.53	106.48	5,445.92	-1,758.71	846.43	-1,758.71	1.46	-0.47	-137.73	197.38
	NORMAL	5,970.0	0.60	120.30	5,540.91	-1,759.08	847.28	-1,759.08	0.16	0.07	14.55	69.84
	NORMAL	6,064.0	0.81	124.90	5,634.91	-1,759.71	848.25	-1,759.71	0.23	0.22	4.89	17.39
	NORMAL	6,158.0	1.14	48.30	5,728.90	-1,759.47	849.49	-1,759.47	1.31	0.35	-81.49	243.80
	NORMAL	6,253.0	0.84	40.84	5,823.88	-1,758.31	850.65	-1,758.31	0.34	-0.32	-7.85	199.55
	NORMAL	6,347.0	0.82	1.79	5,917.87	-1,757.12	851.12	-1,757.12	0.59	-0.02	-41.54	248.53
	NORMAL	6,441.0	0.82	333.48	6,011.86	-1,755.85	850.84	-1,755.85	0.43	0.00	-30.12	255.85
	NORMAL	6,536.0	0.91	307.41	6,106.85	-1,754.78	849.94	-1,754.78	0.42	0.09	-27.44	269.63
	NORMAL	6,630.0	0.75	285.83	6,200.84	-1,754.16	848.76	-1,754.16	0.37	-0.17	-22.96	232.38
	NORMAL	6,725.0	0.90	265.21	6,295.83	-1,754.05	847.42	-1,754.05	0.35	0.16	-21.71	286.25
	NORMAL	6,819.0	0.83	262.13	6,389.82	-1,754.21	846.01	-1,754.21	0.09	-0.07	-3.28	212.06
	NORMAL	6,913.0	1.11	260.45	6,483.81	-1,754.45	844.43	-1,754.45	0.30	0.30	-1.79	353.36
	NORMAL	7,008.0	0.97	264.69	6,578.79	-1,754.68	842.72	-1,754.68	0.17	-0.15	4.46	153.31
	NORMAL	7,102.0	1.23	247.81	6,672.78	-1,755.13	841.00	-1,755.13	0.44	0.28	-17.96	300.10
4/12/2011	NORMAL	7,196.0	1.98	237.45	6,766.74	-1,756.39	838.70	-1,756.39	0.85	0.80	-11.02	333.62
	NORMAL	7,290.0	1.93	227.16	6,860.69	-1,758.34	836.17	-1,758.34	0.38	-0.05	-10.95	256.77
	NORMAL	7,385.0	2.03	225.01	6,955.63	-1,760.61	833.80	-1,760.61	0.13	0.11	-2.26	322.32
	NORMAL	7,500.0	2.03	225.01	7,070.56	-1,763.49	830.92	-1,763.49	0.00	0.00	0.00	0.00