

Scientific Drilling

NOV 16 2009

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MARBOB ENERGY

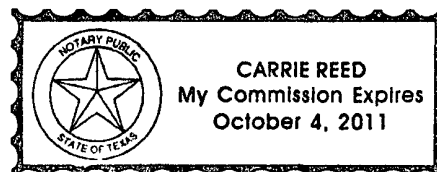
Field: Brushy Draw
Site: Eddy County, NM
Well: West Brushy Federal #1 (30-015-31675)
Wellpath: VH - Job #32K1009451
Survey: 10/28/09

This survey is correct to the best of my knowledge and is supported by actual field data.

.....*Lu Hartman*.....Company Representative

Notorized this date 11th of November, 2009.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: MARBOB ENERGY	Date: 10/30/2009	Time: 11:51:28	Page: 1
Field: Brushy Draw	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: West Brushy Federal #1	Section (VS) Reference:	Well (0.00N,0.00E,308.56Azi)	
Wellpath: VH - Job #32K1009451	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 10/28/09 KSRG 0'-5421'	Start Date: 10/28/2009	
Company: Scientific Drilling Internatio	Engineer: Madrid w/Halliburton	
Tool: Keeper;Keeper Gyro	Tied-to: From Surface	

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.16	203.16	100.00	-0.04	-0.13	-0.05	0.16	0.14	203.16
200.00	0.35	194.76	200.00	-0.20	-0.55	-0.19	0.19	0.58	198.77
300.00	0.28	197.86	300.00	-0.41	-1.08	-0.34	0.07	1.13	197.49
400.00	0.81	220.43	399.99	-0.47	-1.85	-0.87	0.56	2.05	205.27
500.00	0.99	224.06	499.98	-0.36	-3.01	-1.93	0.19	3.58	212.71
600.00	1.17	216.95	599.96	-0.31	-4.45	-3.15	0.22	5.45	215.29
700.00	1.92	223.68	699.93	-0.19	-6.47	-4.92	0.77	8.13	217.22
800.00	2.15	227.06	799.86	0.24	-8.96	-7.45	0.26	11.65	219.73
900.00	2.57	253.83	899.78	1.81	-10.87	-10.97	1.17	15.44	225.29
1000.00	3.01	244.39	999.66	4.25	-12.62	-15.50	0.63	19.99	230.83
1100.00	3.07	244.49	1099.52	6.56	-14.91	-20.28	0.06	25.17	233.67
1200.00	2.87	246.40	1199.39	8.90	-17.07	-24.99	0.22	30.26	235.67
1300.00	2.27	259.85	1299.29	11.38	-18.42	-29.23	0.85	34.55	237.79
1400.00	1.96	279.32	1399.22	14.18	-18.49	-32.87	0.78	37.72	240.64
1500.00	1.79	286.51	1499.17	17.12	-17.77	-36.06	0.29	40.20	243.76
1600.00	2.11	316.06	1599.11	20.39	-16.00	-38.83	1.04	42.00	247.60
1700.00	2.82	330.54	1699.02	24.50	-12.53	-41.32	0.94	43.18	253.13
1800.00	3.46	352.51	1798.87	28.95	-7.40	-42.92	1.35	43.56	260.22
1900.00	3.63	356.57	1898.68	33.24	-1.25	-43.50	0.30	43.52	268.36
2000.00	3.49	355.05	1998.49	37.46	4.94	-43.96	0.17	44.23	276.42
2100.00	3.36	352.13	2098.31	41.67	10.88	-44.62	0.22	45.93	283.70
2200.00	2.86	1.53	2198.16	45.30	16.28	-44.96	0.71	47.81	289.90
2300.00	2.76	8.34	2298.04	48.01	21.15	-44.54	0.35	49.31	295.40
2400.00	2.58	27.61	2397.94	49.65	25.53	-43.15	0.91	50.13	300.61
2500.00	2.42	46.90	2497.84	49.77	28.97	-40.56	0.85	49.84	305.53
2600.00	2.51	58.33	2597.75	48.73	31.56	-37.16	0.50	48.75	310.34
2700.00	2.18	69.95	2697.67	47.00	33.36	-33.51	0.58	47.28	314.87
2800.00	1.55	74.83	2797.61	45.20	34.37	-30.41	0.65	45.89	318.49
2900.00	0.94	75.32	2897.59	43.91	34.93	-28.32	0.61	44.96	320.97
3000.00	0.94	75.56	2997.58	42.93	35.34	-26.73	0.00	44.31	322.90
3100.00	0.77	69.63	3097.56	42.09	35.78	-25.30	0.19	43.82	324.73
3200.00	0.74	70.68	3197.56	41.40	36.23	-24.06	0.03	43.49	326.40
3300.00	0.71	70.67	3297.55	40.72	36.64	-22.87	0.03	43.20	328.03
3400.00	0.57	69.87	3397.54	40.14	37.02	-21.82	0.14	42.97	329.49
3500.00	0.33	84.49	3497.54	39.67	37.22	-21.07	0.26	42.77	330.49
3600.00	0.22	100.59	3597.54	39.29	37.21	-20.59	0.13	42.53	331.04
3700.00	0.10	135.19	3697.54	39.04	37.12	-20.34	0.15	42.32	331.28
3800.00	0.10	188.21	3797.54	38.91	36.97	-20.29	0.09	42.17	331.24
3900.00	0.13	205.54	3897.54	38.84	36.78	-20.35	0.05	42.03	331.04
4000.00	0.22	173.91	3997.54	38.68	36.48	-20.38	0.13	41.79	330.81
4100.00	0.20	181.93	4097.54	38.44	36.12	-20.37	0.04	41.47	330.58
4200.00	0.08	214.08	4197.54	38.33	35.89	-20.41	0.14	41.29	330.37
4300.00	0.37	216.35	4297.53	38.31	35.57	-20.64	0.29	41.12	329.87
4400.00	0.35	206.04	4397.53	38.23	35.04	-20.97	0.07	40.83	329.10
4500.00	0.39	208.34	4497.53	38.11	34.46	-21.26	0.04	40.49	328.33
4600.00	0.63	222.65	4597.53	38.09	33.76	-21.80	0.27	40.18	327.15
4700.00	0.67	231.74	4697.52	38.26	32.99	-22.63	0.11	40.01	325.55
4800.00	0.75	240.92	4797.51	38.64	32.31	-23.66	0.14	40.05	323.79



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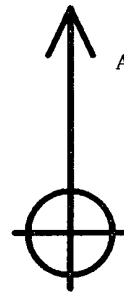
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	0.94	245.81	4897.50	39.26	31.66	-24.98	0.20	40.33	321.72
5000.00	0.86	232.54	4997.49	39.82	30.86	-26.32	0.22	40.56	319.54
5100.00	0.99	244.95	5097.48	40.39	30.04	-27.70	0.24	40.86	317.32
5200.00	1.12	234.57	5197.46	41.04	29.11	-29.28	0.23	41.29	314.83
5300.00	1.50	239.54	5297.43	41.78	27.88	-31.21	0.40	41.85	311.78
5400.00	1.20	257.78	5397.41	42.91	26.99	-33.36	0.52	42.91	308.98
5421.00	1.24	267.77	5418.40	43.22	26.94	-33.80	1.03	43.22	308.56



Scientific
Drilling

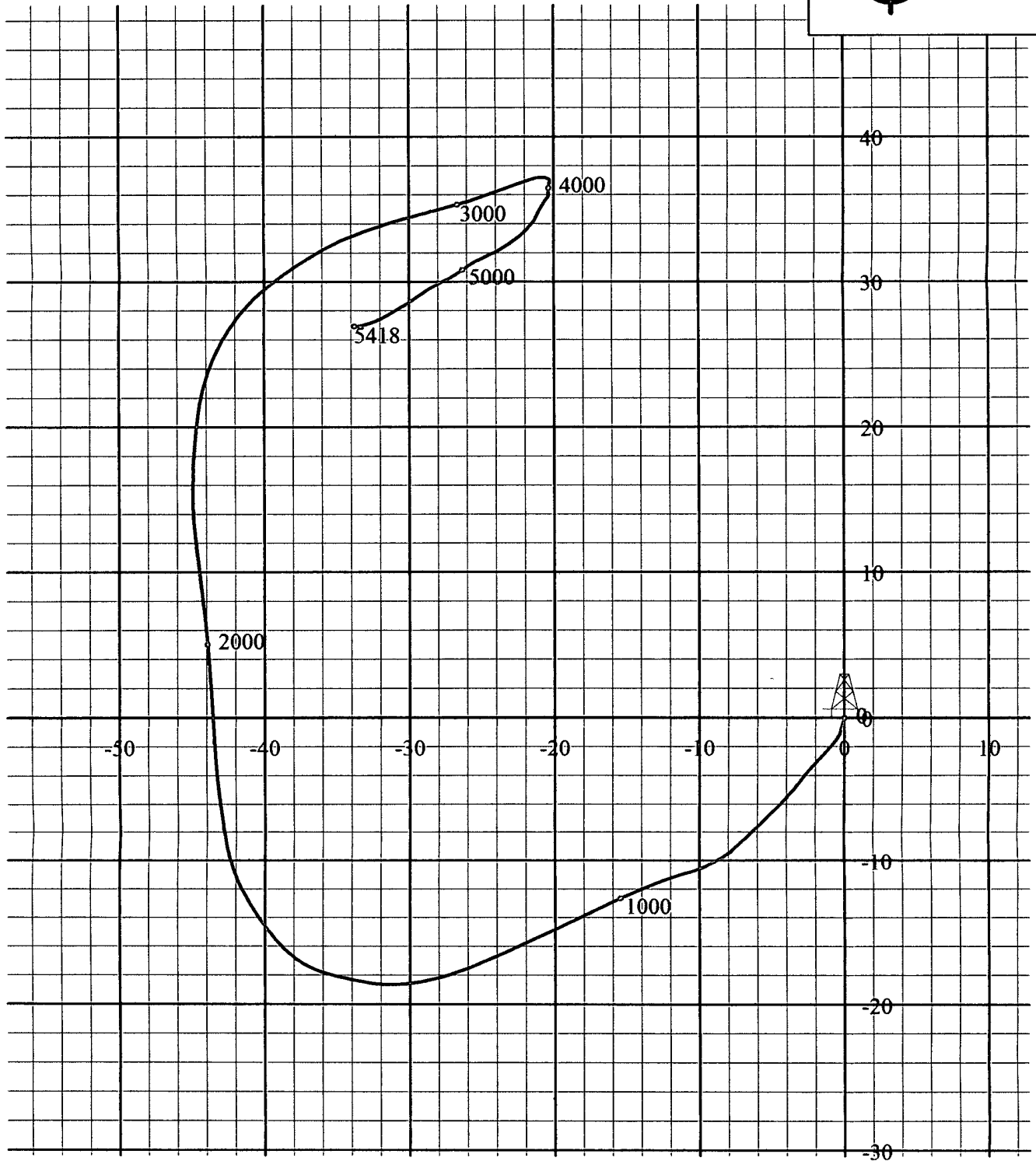
Field: Brushy Draw
Site: Eddy County, NM
Well: West Brushy Federal #1
Wellpath: VH - Job #32K1009451
Survey: 10/28/09

G/T/M



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 10/30/2009
Model: igrf2000



South(-)/North(+) [10ft/in]

West(-)/East(+) [10ft/in]