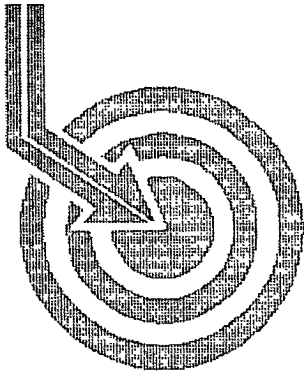




Scientific Drilling

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SUR: N-32-18s-32e, 500/S & 1650/W
BHL: O-32-18s-32e, 402/S & 3620/W
API # 30-025-38866

MARBOB ENERGY

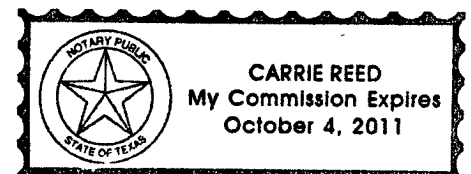
Field: Lusk Bone Springs
Site: Lea County, NM
Well: Lear State #2
Wellpath: VH - Job #32K0909342
Survey: 09/07/09

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

.....*Richard*..... Company Representative

Notorized this date 22nd of September, 2009.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: MARBOB ENERGY	Date: 09/08/2009	Time: 15:37:04	Page: 1
Field: Lusk Bone Springs	Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North		
Site: Lea County, NM	Vertical (TVD) Reference: SITE 0.0		
Well: Lear State #2	Section (VS) Reference: Well (0.00N,0.00E,93.47Azi)		
Wellpath: VH- Job #32K0909342	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 09/07/09	Start Date: 09/07/2009
Company: Scientific Drilling Internatio	Engineer: Madrid/Garza/Williams
Tool: Keeper, Keeper Gyro	Tied-to: From Surface

Site: Lea County, NM

Site Position:	Northing:	ft	Latitude:
From: Local Only	Easting:	ft	Longitude:
Position Uncertainty: 0.00 ft			North Reference: Grid
Ground Level: 0.00 ft			Grid Convergence: deg

MD	Incl	Azim	TVD	VS	N/S	E/W	DLS	ClsD	ClsA
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
0.00	0.00	359.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.81	239.14	100.00	-0.58	-0.36	-0.61	0.81	0.71	239.14
200.00	0.58	224.70	199.99	-1.50	-1.08	-1.57	0.29	1.91	235.35
300.00	0.91	221.24	299.98	-2.32	-2.04	-2.45	0.33	3.19	230.18
400.00	1.29	221.95	399.96	-3.51	-3.48	-3.72	0.38	5.09	226.98
500.00	1.76	223.85	499.93	-5.20	-5.42	-5.54	0.47	7.75	225.63
600.00	2.06	225.69	599.87	-7.41	-7.78	-7.89	0.31	11.08	225.39
700.00	2.04	225.00	699.81	-9.79	-10.30	-10.44	0.03	14.66	225.38
800.00	1.67	224.88	799.75	-11.94	-12.59	-12.72	0.37	17.90	225.30
900.00	1.56	228.34	899.71	-13.86	-14.53	-14.77	0.15	20.71	225.47
1000.00	1.44	231.10	999.68	-15.75	-16.22	-16.76	0.14	23.33	225.94
1100.00	1.24	233.63	1099.65	-17.51	-17.65	-18.61	0.21	25.65	226.52
1200.00	0.92	228.02	1199.63	-18.90	-18.83	-20.08	0.34	27.53	226.84
1300.00	0.65	209.11	1299.63	-19.71	-19.86	-20.95	0.37	28.87	226.53
1400.00	0.52	212.46	1399.62	-20.18	-20.74	-21.47	0.13	29.85	225.99
1500.00	0.51	213.33	1499.62	-20.62	-21.49	-21.96	0.01	30.73	225.61
1600.00	0.20	147.69	1599.61	-20.74	-22.01	-22.11	0.46	31.20	225.13
1700.00	0.05	228.63	1699.61	-20.67	-22.19	-22.05	0.20	31.28	224.82
1800.00	0.13	124.99	1799.61	-20.60	-22.28	-21.99	0.15	31.31	224.62
1900.00	0.07	233.18	1899.61	-20.55	-22.39	-21.95	0.17	31.35	224.43
2000.00	0.06	89.55	1999.61	-20.55	-22.42	-21.94	0.12	31.37	224.38
2100.00	0.26	66.61	2099.61	-20.29	-22.33	-21.68	0.21	31.13	224.15
2200.00	0.52	54.77	2199.61	-19.73	-21.98	-21.10	0.27	30.47	223.83
2300.00	0.72	63.06	2299.61	-18.84	-21.43	-20.17	0.22	29.43	223.26
2400.00	0.90	69.36	2399.60	-17.58	-20.87	-18.88	0.20	28.14	222.13
2500.00	1.19	76.02	2499.58	-15.87	-20.34	-17.14	0.31	26.60	220.11
2600.00	1.17	75.33	2599.56	-13.91	-19.84	-15.14	0.02	24.95	217.35
2700.00	1.00	59.08	2699.54	-12.22	-19.13	-13.40	0.35	23.36	215.02
2800.00	1.02	34.12	2799.52	-11.05	-17.94	-12.16	0.44	21.67	214.12
2900.00	1.03	23.24	2899.51	-10.29	-16.38	-11.30	0.19	19.90	214.60
3000.00	0.98	14.90	2999.49	-9.82	-14.73	-10.73	0.15	18.22	216.07
3100.00	0.88	17.56	3099.48	-9.46	-13.17	-10.28	0.11	16.70	217.96
3200.00	0.72	16.82	3199.47	-9.13	-11.84	-9.86	0.16	15.41	219.80
3300.00	0.44	11.41	3299.47	-8.93	-10.86	-9.60	0.28	14.50	221.49
3400.00	0.42	9.96	3399.46	-8.84	-10.12	-9.47	0.02	13.86	223.08
3500.00	0.38	11.65	3499.46	-8.75	-9.43	-9.33	0.04	13.27	224.69
3600.00	0.34	328.58	3599.46	-8.87	-8.86	-9.42	0.27	12.93	226.77
3700.00	0.32	330.42	3699.46	-9.19	-8.36	-9.71	0.02	12.82	229.28
3800.00	0.35	336.59	3799.45	-9.48	-7.84	-9.97	0.05	12.69	231.84
3900.00	0.36	327.72	3899.45	-9.80	-7.29	-10.26	0.06	12.59	234.61
4000.00	0.39	325.90	3999.45	-10.19	-6.74	-10.62	0.03	12.58	237.59
4100.00	0.43	317.37	4099.45	-10.67	-6.19	-11.07	0.07	12.68	240.79



Scientific Drilling International Survey Report

Company: MARBOB ENERGY	Date: 09/08/2009	Time: 15:37:04	Page: 2
Field: Lusk Bone Springs	Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North		
Site: Lea County, NM	Vertical (TVD) Reference: SITE 0.0		
Well: Lear State #2	Section (VS) Reference: Well (0.00N,0.00E,93.47Azi)		
Wellpath: VH - Job #32K0909342	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4200.00	0.46	309.91	4199.45	-11.27	-5.65	-11.63	0.07	12.93	244.08
4300.00	0.52	303.71	4299.44	-11.98	-5.14	-12.31	0.08	13.35	247.33
4400.00	0.58	306.45	4399.44	-12.80	-4.59	-13.10	0.07	13.88	250.69
4500.00	0.98	312.15	4499.43	-13.89	-3.72	-14.14	0.41	14.62	255.27
4600.00	0.55	293.24	4599.42	-15.01	-2.95	-15.22	0.49	15.50	259.02
4700.00	0.56	296.75	4699.41	-15.91	-2.54	-16.09	0.04	16.29	261.02
4800.00	0.69	299.79	4799.41	-16.90	-2.02	-17.05	0.13	17.17	263.23
4900.00	0.68	298.33	4899.40	-17.98	-1.44	-18.10	0.02	18.15	265.44
5000.00	0.77	300.86	4999.39	-19.11	-0.82	-19.20	0.10	19.21	267.56
5100.00	0.74	301.97	5099.38	-20.27	-0.13	-20.32	0.03	20.32	269.63
5200.00	0.81	298.71	5199.37	-21.48	0.55	-21.49	0.08	21.49	271.47
5300.00	0.86	301.70	5299.36	-22.78	1.28	-22.75	0.07	22.78	273.23
5400.00	0.87	302.22	5399.35	-24.11	2.08	-24.03	0.01	24.12	274.96
5500.00	0.94	298.00	5499.34	-25.52	2.87	-25.39	0.10	25.56	276.46
5600.00	0.97	295.92	5599.33	-27.05	3.63	-26.88	0.05	27.12	277.69
5700.00	1.00	296.18	5699.31	-28.64	4.38	-28.42	0.03	28.76	278.77
5800.00	0.97	293.04	5799.30	-30.24	5.10	-29.99	0.06	30.42	279.65
5900.00	1.00	293.10	5899.28	-31.86	5.77	-31.57	0.03	32.09	280.36
6000.00	1.04	289.76	5999.27	-33.55	6.42	-33.22	0.07	33.84	280.94
6100.00	1.05	287.48	6099.25	-35.31	7.00	-34.95	0.04	35.65	281.33
6200.00	1.03	287.86	6199.23	-37.07	7.56	-36.68	0.02	37.45	281.64
6300.00	1.04	287.28	6299.22	-38.82	8.10	-38.40	0.01	39.25	281.91
6400.00	1.06	283.42	6399.20	-40.62	8.58	-40.17	0.07	41.08	282.06
6500.00	1.06	286.38	6499.18	-42.43	9.06	-41.96	0.05	42.92	282.19
6600.00	1.13	285.41	6599.16	-44.29	9.58	-43.79	0.07	44.83	282.34
6700.00	1.12	286.51	6699.15	-46.21	10.12	-45.68	0.02	46.79	282.49
6800.00	1.12	286.45	6799.13	-48.12	10.68	-47.56	0.00	48.74	282.65
6900.00	1.14	284.37	6899.11	-50.04	11.20	-49.46	0.05	50.71	282.76
7000.00	1.30	297.74	6999.08	-52.06	11.98	-51.43	0.33	52.80	283.11
7100.00	1.35	303.54	7099.06	-54.11	13.15	-53.41	0.14	55.01	283.84
7200.00	1.22	307.14	7199.03	-56.01	14.45	-55.24	0.15	57.10	284.66
7300.00	1.27	308.29	7299.01	-57.81	15.78	-56.96	0.06	59.10	285.48
7400.00	1.22	305.24	7398.99	-59.63	17.08	-58.70	0.08	61.13	286.22
7500.00	1.33	303.70	7498.96	-61.53	18.34	-60.53	0.12	63.25	286.85
7600.00	1.60	294.58	7598.93	-63.84	19.56	-62.77	0.36	65.75	287.31
7700.00	1.82	292.22	7698.88	-66.64	20.74	-65.51	0.23	68.71	287.57
7800.00	1.91	287.24	7798.83	-69.77	21.84	-68.57	0.19	71.96	287.66
7900.00	1.87	287.20	7898.78	-72.97	22.81	-71.72	0.04	75.26	287.65
8000.00	1.97	286.59	7998.72	-76.23	23.79	-74.93	0.10	78.61	287.61
8100.00	2.07	286.04	8098.66	-79.67	24.78	-78.31	0.10	82.14	287.56
8200.00	1.91	289.50	8198.60	-83.03	25.83	-81.62	0.20	85.61	287.56
8300.00	1.97	287.41	8298.54	-86.30	26.90	-84.83	0.09	88.99	287.60
8400.00	1.79	291.28	8398.49	-89.46	27.98	-87.92	0.22	92.27	287.66
8500.00	1.99	289.65	8498.43	-92.61	29.13	-91.01	0.21	95.56	287.75
8600.00	2.02	292.05	8598.37	-95.95	30.38	-94.28	0.09	99.06	287.86
8700.00	2.09	291.64	8698.31	-99.35	31.71	-97.61	0.07	102.63	288.00
8730.00	2.16	294.37	8728.29	-100.40	32.15	-98.63	0.41	103.74	288.05



**Scientific
Drilling**

Field: Lusk Bone Springs
Site: Lea County, NM
Well: Lear State #2
Wellpath: VH - Job #32K0909342
Survey: 09/07/09



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

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 09/08/2009
Model: igrf2000

