

Scientific Drilling

MARBOB ENERGY

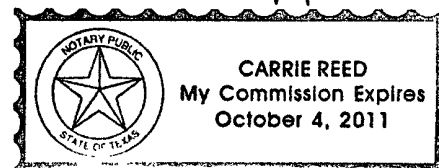
Field: Lusk
Site: Eddy County, NM
Well: Nervous Horz Com #2H
Wellpath: VH - Job #32K1209524
Survey: 12/01/09

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

.....*R. W. Hart*..... Company Representative

Notorized this date 31st of December, 2009.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International

Survey Report

Company: MARBOB ENERGY	Date: 12/08/2009	Time: 13:33:08	Page: 1
Field: Lusk	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Nervous Horz Com #2H	Section (VS) Reference:	Well (0.00N,0.00E,178.39Azi)	
Wellpath: VH - Job #32K1209524	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 12/01/09	Start Date: 12/01/2009
Company: Scientific Drilling Internatio	Engineer: Melendez w/Rotary
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	359.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.42	142.82	100.00	0.30	-0.29	0.22	0.42	0.37	142.82
200.00	0.25	206.99	200.00	0.79	-0.78	0.34	0.38	0.85	156.16
300.00	0.41	245.28	300.00	1.12	-1.12	-0.08	0.26	1.13	184.08
400.00	0.37	264.18	399.99	1.28	-1.30	-0.73	0.13	1.49	209.10
500.00	0.53	285.64	499.99	1.17	-1.21	-1.49	0.23	1.92	230.91
600.00	0.59	281.77	599.99	0.91	-0.98	-2.44	0.07	2.63	248.07
700.00	0.42	282.81	699.98	0.70	-0.80	-3.30	0.17	3.40	256.44
800.00	0.52	306.68	799.98	0.33	-0.44	-4.03	0.22	4.05	263.70
900.00	0.58	301.51	899.97	-0.23	0.09	-4.82	0.08	4.82	271.08
1000.00	0.47	303.49	999.97	-0.74	0.58	-5.59	0.11	5.62	275.94
1100.00	0.32	312.67	1099.97	-1.17	1.00	-6.14	0.16	6.22	279.23
1200.00	0.23	322.89	1199.97	-1.53	1.35	-6.47	0.10	6.61	281.76
1300.00	0.38	311.65	1299.96	-1.92	1.73	-6.84	0.16	7.05	284.18
1400.00	0.33	292.91	1399.96	-2.27	2.06	-7.35	0.13	7.63	285.66
1500.00	0.28	279.92	1499.96	-2.43	2.21	-7.86	0.09	8.16	285.74
1600.00	0.22	11.92	1599.96	-2.67	2.44	-8.06	0.36	8.42	286.87
1700.00	0.27	11.47	1699.96	-3.09	2.86	-7.97	0.05	8.47	289.76
1800.00	0.46	14.49	1799.96	-3.70	3.48	-7.82	0.19	8.56	294.00
1900.00	0.74	40.68	1899.95	-4.56	4.36	-7.30	0.39	8.50	300.85
2000.00	1.03	40.01	1999.94	-5.71	5.54	-6.30	0.29	8.39	311.31
2100.00	1.34	40.16	2099.92	-7.26	7.12	-4.97	0.31	8.68	325.08
2200.00	1.44	46.54	2199.89	-8.97	8.88	-3.30	0.18	9.47	339.58
2300.00	1.47	47.12	2299.86	-10.65	10.62	-1.45	0.03	10.71	352.21
2400.00	1.30	41.11	2399.83	-12.33	12.34	0.23	0.22	12.35	1.08
2500.00	1.09	26.00	2499.81	-14.01	14.05	1.40	0.38	14.12	5.67
2600.00	0.90	13.40	2599.79	-15.61	15.67	1.99	0.29	15.80	7.25
2700.00	0.98	336.00	2699.78	-17.16	17.22	1.83	0.61	17.31	6.06
2800.00	1.33	308.02	2799.76	-18.69	18.71	0.57	0.65	18.72	1.74
2900.00	1.51	302.86	2899.73	-20.18	20.14	-1.45	0.22	20.20	355.87
3000.00	1.35	302.52	2999.70	-21.58	21.49	-3.55	0.16	21.78	350.61
3100.00	1.17	295.63	3099.67	-22.71	22.57	-5.47	0.23	23.22	346.38
3200.00	1.24	295.91	3199.65	-23.68	23.48	-7.36	0.07	24.61	342.59
3300.00	1.21	300.68	3299.63	-24.74	24.49	-9.24	0.11	26.18	339.32
3400.00	1.19	303.53	3399.61	-25.90	25.60	-11.02	0.06	27.87	336.72
3500.00	1.47	306.65	3499.58	-27.30	26.94	-12.91	0.29	29.88	334.40
3600.00	1.37	311.65	3599.55	-28.91	28.50	-14.83	0.16	32.13	332.51
3700.00	1.34	310.33	3699.52	-30.51	30.05	-16.62	0.04	34.34	331.06
3800.00	1.47	311.92	3799.49	-32.17	31.67	-18.46	0.14	36.66	329.76
3900.00	1.53	318.82	3899.46	-34.09	33.53	-20.30	0.19	39.20	328.81
4000.00	1.31	320.22	3999.43	-36.01	35.41	-21.91	0.22	41.64	328.26
4100.00	1.34	319.29	4099.40	-37.82	37.18	-23.40	0.04	43.93	327.81
4200.00	1.24	324.46	4199.37	-39.63	38.94	-24.79	0.15	46.17	327.52
4300.00	1.18	325.31	4299.35	-41.39	40.67	-26.01	0.06	48.28	327.40
4400.00	0.92	320.58	4399.33	-42.88	42.14	-27.10	0.27	50.10	327.25
4500.00	0.99	325.02	4499.32	-44.24	43.47	-28.11	0.10	51.76	327.11
4600.00	0.89	325.63	4599.31	-45.61	44.82	-29.04	0.10	53.40	327.05
4700.00	1.04	321.37	4699.29	-46.99	46.17	-30.05	0.17	55.08	326.94
4800.00	0.96	322.94	4799.28	-48.40	47.54	-31.12	0.08	56.82	326.79

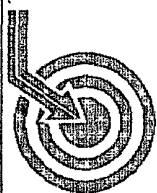


Scientific Drilling International Survey Report

Company: MARBOB ENERGY	Date: 12/08/2009	Time: 13:33:08	Page: 2
Field: Lusk	Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North		
Site: Eddy County, NM	Vertical (TVD) Reference: SITE 0.0		
Well: Nervous Horz Com #2H	Section (VS) Reference: Well (0.00N,0.00E,178.39Azi)		
Wellpath: VH - Job #32K1209524	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
4900.00	1.15	313.99	4899.26	-49.80	48.91	-32.35	0.25	58.64	326.52
5000.00	1.07	305.49	4999.24	-51.08	50.15	-33.83	0.18	60.49	326.00
5100.00	1.12	293.30	5099.22	-52.05	51.08	-35.49	0.24	62.19	325.21
5200.00	0.99	294.61	5199.21	-52.85	51.82	-37.17	0.13	63.77	324.35
5300.00	1.03	294.57	5299.19	-53.62	52.56	-38.77	0.04	65.31	323.58
5400.00	0.94	299.24	5399.18	-54.44	53.33	-40.31	0.12	66.85	322.92
5500.00	0.95	292.90	5499.16	-55.21	54.05	-41.78	0.10	68.32	322.30
5600.00	0.86	291.23	5599.15	-55.84	54.65	-43.25	0.09	69.69	321.64
5700.00	0.86	285.62	5699.14	-56.36	55.12	-44.67	0.08	70.95	320.98
5800.00	1.04	276.05	5799.13	-56.70	55.42	-46.30	0.24	72.21	320.13
5900.00	0.95	283.32	5899.11	-57.03	55.71	-48.00	0.15	73.54	319.25
6000.00	0.99	273.60	5999.10	-57.33	55.95	-49.67	0.17	74.82	318.40
6100.00	1.00	266.59	6099.08	-57.38	55.95	-51.41	0.12	75.98	317.43
6200.00	1.00	272.59	6199.07	-57.41	55.94	-53.15	0.10	77.16	316.47
6300.00	1.01	272.14	6299.05	-57.53	56.01	-54.90	0.01	78.43	315.57
6400.00	0.84	266.82	6399.04	-57.57	56.01	-56.51	0.19	79.57	314.74
6500.00	0.47	285.97	6499.03	-57.68	56.08	-57.64	0.42	80.42	314.21
6600.00	0.58	308.56	6599.03	-58.13	56.51	-58.43	0.23	81.28	314.04
6700.00	0.51	293.45	6699.02	-58.64	57.00	-59.24	0.16	82.21	313.90
6800.00	0.48	267.56	6799.02	-58.82	57.16	-60.06	0.22	82.91	313.58
6900.00	0.47	265.96	6899.02	-58.80	57.11	-60.89	0.02	83.48	313.17
7000.00	0.37	255.34	6999.01	-58.71	57.00	-61.61	0.13	83.93	312.77
7100.00	0.61	278.84	7099.01	-58.73	57.00	-62.45	0.31	84.55	312.39
7200.00	1.07	286.99	7199.00	-59.13	57.36	-63.87	0.47	85.84	311.92
7300.00	1.08	287.02	7298.98	-59.73	57.90	-65.66	0.01	87.55	311.41
7400.00	0.84	244.32	7398.97	-59.73	57.86	-67.22	0.73	88.70	310.72
7500.00	1.01	251.24	7498.95	-59.17	57.26	-68.72	0.20	89.45	309.80
7520.00	0.80	248.98	7518.95	-59.07	57.15	-69.02	1.06	89.61	309.63



Scientific
Drilling

Field: Lusk
Site: Eddy County, NM
Well: Nervous Horz Com #2H
Wellpath: VH - Job #32K1209524
Survey: 12/01/09

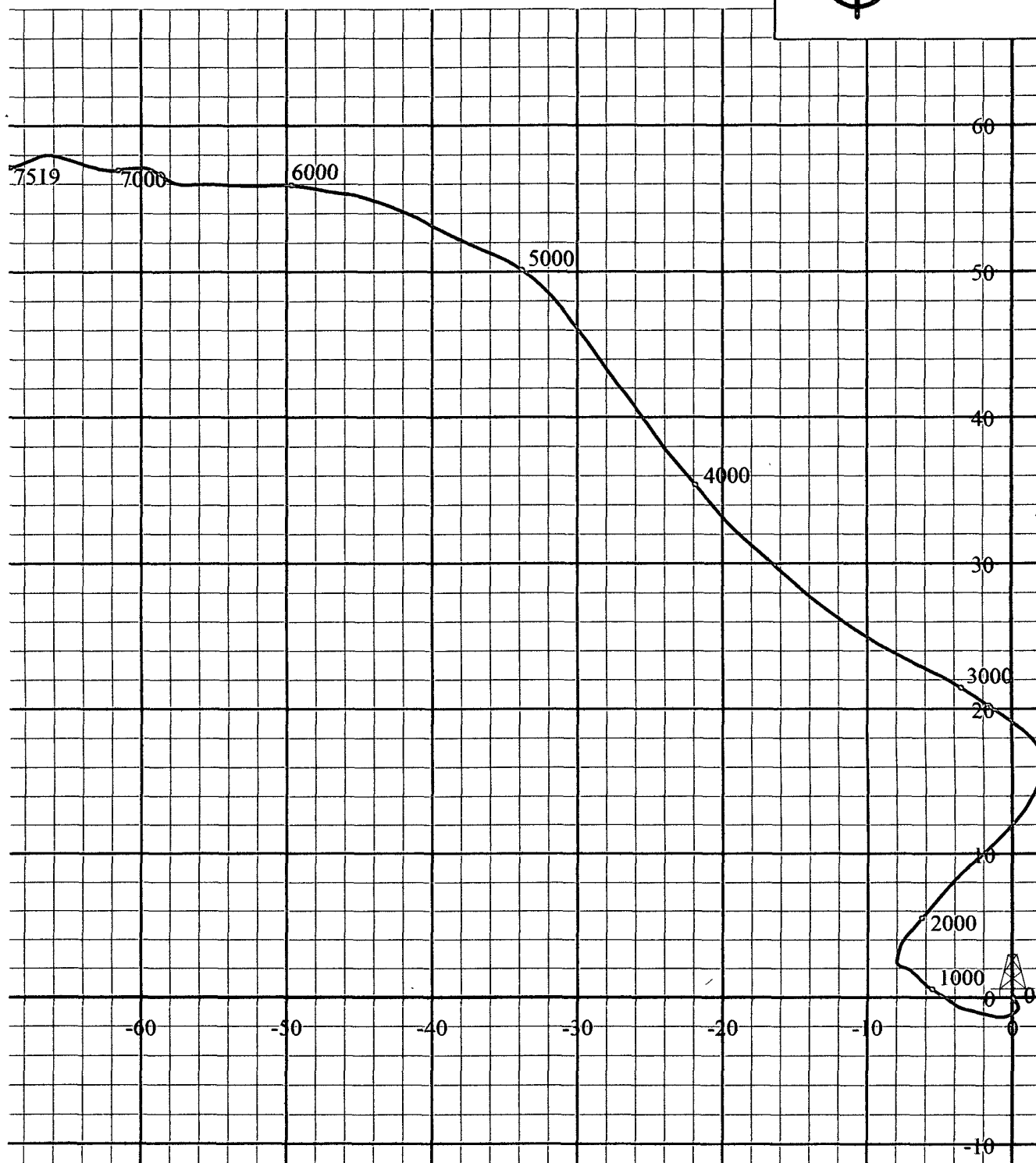
G/T/M



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

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 12/08/2009
Model: Wmm_95

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



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



An Operating Unit of Smith International, Inc.

DIRECTIONAL SURVEY REPORT

MARBOB ENERGY CORPORATION

NERVOUS HORZ STATE COM #2H

EDDY COUNTY, NEW MEXICO

PREPARED BY: FRANCISCO SINISTERRA

Pathfinder Energy Services, Inc.
6213 W. Interstate 20 • Midland, TX • 79706
(432) 681-6000

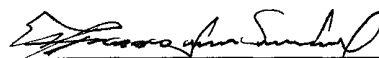
DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) DAVID ASHER
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 12/02/09 TO 12/15/09
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

MARBOB ENERGY CORPORATION
NERVOUS HORZ STATE COM #2H
EDDY COUNTY, NM
RIG: PATRIOT 6

9. SURVEY CERTIFIED FROM: 7567 TO 12516 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 4618.76 FEET ON A BEARING OF 178.25 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 12574 FEET,
ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



FRANCISCO SINISTERRA
MWD COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 12/02/2009
Date Completed: 12/16/2009

MARBOB ENERGY CORPORATION
NERVOUS HORZ COM #2H
EDDY COUNTY, NM
Rig: PATRIOT 6
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers: DAVID ASHER
DUSTIN EASLEY

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.42.37.0725 N LON: 103.48.56.1046 W
GRID Reference: NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 659250.7000 Y: 622506.2000
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.63° EAST TO GRID
Vertical Section Plane: 178.38
Survey Vert. Reference: 14.00' Kelly Bushing To Ground
Altitude: 3670.00' Ground To MSL

Measured Depth	12574.00	(feet)
Inclination	89.16	(deg)
Azimuth	176.87	(deg)
True Vertical Depth	8121.37	(feet)
Vertical Section	4618.75	(feet)
Survey X cord	659391.60	(feet)
Survey Y cord	617889.57	(feet)
Survey Lat	32.69760645 N	(deg)
Survey Lon	103.81519986 W	(deg)
Rectangular Corr. N/S	4616.61 S	(feet)
Rectangular Corr. E/W	140.92 E	(feet)
Closure Distance	4618.76	(feet)
Direction of Closure	178.25	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY CORPORATION

NERVOUS HORZ COM #2H

EDDY COUNTY, NM

Rig: PATRIOT 6

PathFinder Office Supervisor: FRANCISCO SINISTERRA

PathFinder Field Engineers: DAVID ASHER

DUSTIN EASLEY

Survey Horiz. Reference: WELLHEAD

Ref Coordinates: LAT: 32.42.37.0725 N LON: 103.48.56.1046 W

Reference: NAD27 new mexico east Transverse Mercator

Ref GRID Coord: X: 659250.7000 Y: 622506.2000

North Aligned To: GRID NORTH

Total Magnetic Correction: 7.63° EAST TO GRID

Vertical Section Plane: 178.38

Survey Vert. Reference: 14.00' Kelly Bushing To Ground

Altitude: 3670.00' Ground To MSL

Survey Calculations by RX4 using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
TIE INTO SCIENTIFIC GYRO SURVEY @ 7520'MD.										
7520.00	0.80	248.98	7518.95	0.00	-59.08	57.15 N	69.02 W	89.61@	309.63	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
7567.00	1.06	252.73	7565.94	47.00	-58.85	56.90 N	69.74 W	90.01@	309.21	0.57
7599.00	1.06	221.99	7597.94	32.00	-58.56	56.60 N	70.22 W	90.19@	308.87	1.76
7630.00	4.40	180.15	7628.90	31.00	-57.16	55.19 N	70.42 W	89.47@	308.09	11.87
7662.00	8.27	175.46	7660.70	32.00	-53.63	51.67 N	70.24 W	87.20@	306.34	12.19
7694.00	11.87	171.99	7692.20	32.00	-48.06	46.11 N	69.60 W	83.49@	303.53	11.40
7726.00	15.14	173.60	7723.31	32.00	-40.63	38.70 N	68.67 W	78.83@	299.40	10.28
7758.00	18.64	177.30	7753.93	32.00	-31.35	29.44 N	67.97 W	74.07@	293.42	11.44
7821.00	27.17	178.70	7811.91	63.00	-6.85	4.95 N	67.16 W	67.35@	274.22	13.57
7853.00	30.65	177.32	7839.92	32.00	8.62	10.50 S	66.62 W	67.44@	261.04	11.07
7885.00	33.85	177.41	7866.98	32.00	25.69	27.56 S	65.83 W	71.37@	247.29	10.00
7948.00	39.13	177.54	7917.61	63.00	63.13	64.97 S	64.18 W	91.33@	224.65	8.38
7980.00	42.56	177.53	7941.81	32.00	84.06	85.88 S	63.28 W	106.68@	216.39	10.72
8012.00	44.93	178.81	7964.93	32.00	106.18	107.99 S	62.58 W	124.82@	210.09	7.91
8044.00	47.48	179.27	7987.07	32.00	129.27	131.09 S	62.20 W	145.09@	205.38	8.04
8076.00	50.39	178.31	8008.09	32.00	153.40	155.20 S	61.68 W	167.01@	201.67	9.37
8107.00	53.82	177.58	8027.13	31.00	177.86	179.65 S	60.80 W	189.66@	198.70	11.22
8139.00	57.24	176.95	8045.24	32.00	204.23	205.99 S	59.54 W	214.43@	196.12	10.81
8171.00	60.32	177.02	8061.82	32.00	231.58	233.32 S	58.10 W	240.44@	193.98	9.63
8203.00	63.31	177.15	8076.94	32.00	259.78	261.49 S	56.67 W	267.56@	192.23	9.35
8234.00	67.53	177.03	8089.83	31.00	287.96	289.63 S	55.24 W	294.85@	190.80	13.62
8266.00	71.75	177.42	8100.96	32.00	317.94	319.59 S	53.79 W	324.09@	189.55	13.24
8298.00	76.24	177.19	8109.78	32.00	348.69	350.31 S	52.34 W	354.20@	188.50	14.05
8330.00	78.17	177.59	8116.87	32.00	379.89	381.48 S	50.92 W	384.86@	187.60	6.15

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY CORPORATION
NERVOUS HORZ COM #2H
EDDY COUNTY, NM
RIG: PATRIOT 6

Page 02/03

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
8361.00	79.67	178.17	8122.82	31.00	410.31	411.88 S	49.80 W	414.88@	186.89	5.17
8392.00	80.90	178.87	8128.05	31.00	440.86	442.43 S	49.01 W	445.13@	186.32	4.55
8424.00	82.92	178.77	8132.56	32.00	472.54	474.10 S	48.35 W	476.56@	185.82	6.32
8456.00	84.24	178.53	8136.14	32.00	504.34	505.89 S	47.60 W	508.12@	185.38	4.19
8488.00	84.77	178.01	8139.20	32.00	536.19	537.73 S	46.64 W	539.75@	184.96	2.32
8519.00	85.91	178.34	8141.72	31.00	567.09	568.61 S	45.66 W	570.44@	184.59	3.83
8552.00	88.02	178.93	8143.47	33.00	600.04	601.55 S	44.87 W	603.22@	184.27	6.64
8583.00	89.69	179.26	8144.09	31.00	631.03	632.54 S	44.38 W	634.10@	184.01	5.49
8615.00	90.66	179.60	8143.99	32.00	663.03	664.54 S	44.07 W	666.00@	183.79	3.21
8710.00	91.19	179.53	8142.45	95.00	757.99	759.52 S	43.35 W	760.76@	183.27	0.56
8806.00	88.02	178.96	8143.12	96.00	853.97	855.50 S	42.08 W	856.53@	182.82	3.35
8901.00	86.09	178.58	8148.00	95.00	948.83	950.35 S	40.04 W	951.19@	182.41	2.07
8996.00	89.87	181.81	8151.35	95.00	1043.70	1045.26 S	40.37 W	1046.04@	182.21	5.23
9092.00	93.03	181.38	8148.92	96.00	1139.50	1141.18 S	43.04 W	1141.99@	182.16	3.32
9187.00	94.09	181.20	8143.02	95.00	1234.20	1235.97 S	45.18 W	1236.79@	182.09	1.13
9283.00	89.34	178.56	8140.15	96.00	1330.09	1331.89 S	44.97 W	1332.65@	181.93	5.66
9314.00	88.20	178.17	8140.81	31.00	1361.08	1362.87 S	44.09 W	1363.58@	181.85	3.89
9377.00	88.99	177.90	8142.35	63.00	1424.06	1425.81 S	41.93 W	1426.43@	181.68	1.33
9473.00	89.34	177.90	8143.75	96.00	1520.04	1521.74 S	38.41 W	1522.22@	181.45	0.36
9565.00	86.97	176.65	8146.72	92.00	1611.97	1613.58 S	34.04 W	1613.94@	181.21	2.91
9660.00	89.87	176.62	8149.33	95.00	1706.88	1708.37 S	28.47 W	1708.60@	180.95	3.05
9692.00	91.54	176.72	8148.94	32.00	1738.86	1740.31 S	26.61 W	1740.51@	180.88	5.23
9724.00	91.80	177.08	8148.01	32.00	1770.84	1772.25 S	24.88 W	1772.42@	180.80	1.39
9756.00	90.22	176.74	8147.44	32.00	1802.82	1804.20 S	23.15 W	1804.34@	180.74	5.05
9851.00	90.84	176.75	8146.57	95.00	1897.78	1899.04 S	17.76 W	1899.12@	180.54	0.65
9947.00	92.33	176.47	8143.91	96.00	1993.69	1994.83 S	12.09 W	1994.87@	180.35	1.58
10042.00	91.19	176.05	8140.99	95.00	2088.58	2089.58 S	5.89 W	2089.59@	180.16	1.28
10137.00	89.08	176.22	8140.77	95.00	2183.50	2184.36 S	0.51 E	2184.36@	179.99	2.23

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY CORPORATION
NERVOUS HORZ COM #2H
EDDY COUNTY, NM
RIG: PATRIOT 6

Page 03/03

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
10233.00	89.60	175.63	8141.88	96.00	2279.41	2280.11 S	7.33 E	2280.12@	179.82	0.82
10328.00	89.25	175.66	8142.83	95.00	2374.29	2374.83 S	14.55 E	2374.88@	179.65	0.37
10423.00	91.98	176.72	8141.81	95.00	2469.21	2469.61 S	20.86 E	2469.69@	179.52	3.08
10518.00	90.57	175.47	8139.69	95.00	2564.11	2564.36 S	27.33 E	2564.50@	179.39	1.98
10614.00	91.71	176.38	8137.78	96.00	2660.00	2660.09 S	34.15 E	2660.31@	179.26	1.52
10646.00	91.71	176.24	8136.83	32.00	2691.96	2692.01 S	36.20 E	2692.26@	179.23	0.44
10709.00	88.46	176.09	8136.74	63.00	2754.91	2754.86 S	40.42 E	2755.16@	179.16	5.16
10804.00	90.31	176.86	8137.76	95.00	2849.84	2849.67 S	46.26 E	2850.05@	179.07	2.11
10900.00	90.57	177.07	8137.02	96.00	2945.81	2945.54 S	51.34 E	2945.98@	179.00	0.35
10963.00	92.15	177.34	8135.52	63.00	3008.78	3008.44 S	54.41 E	3008.93@	178.96	2.54
10995.00	89.96	176.04	8134.93	32.00	3040.75	3040.38 S	56.26 E	3040.90@	178.94	7.96
11091.00	91.45	175.05	8133.75	96.00	3136.63	3136.08 S	63.72 E	3136.73@	178.84	1.86
11185.00	92.24	176.61	8130.73	94.00	3230.48	3229.78 S	70.55 E	3230.55@	178.75	1.86
11281.00	88.90	178.10	8129.77	96.00	3326.44	3325.65 S	74.98 E	3326.50@	178.71	3.81
11376.00	91.98	177.98	8129.04	95.00	3421.43	3420.58 S	78.22 E	3421.48@	178.69	3.24
11471.00	93.65	178.78	8124.38	95.00	3516.31	3515.43 S	80.91 E	3516.36@	178.68	1.95
11567.00	89.60	178.49	8121.66	96.00	3612.25	3611.34 S	83.19 E	3612.30@	178.68	4.23
11662.00	89.52	177.75	8122.38	95.00	3707.25	3706.29 S	86.31 E	3707.29@	178.67	0.78
11757.00	90.31	176.87	8122.53	95.00	3802.23	3801.18 S	90.77 E	3802.26@	178.63	1.25
11853.00	89.87	176.54	8122.37	96.00	3898.19	3897.02 S	96.29 E	3898.21@	178.58	0.57
11948.00	90.13	176.19	8122.37	95.00	3993.13	3991.83 S	102.31 E	3993.14@	178.53	0.46
12043.00	90.57	176.77	8121.79	95.00	4088.07	4086.65 S	108.14 E	4088.08@	178.48	0.77
12139.00	89.87	176.03	8121.43	96.00	4184.01	4182.46 S	114.17 E	4184.02@	178.44	1.06
12234.00	89.96	176.02	8121.57	95.00	4278.93	4277.23 S	120.75 E	4278.93@	178.38	0.10
12329.00	91.10	176.71	8120.69	95.00	4373.87	4372.03 S	126.78 E	4373.87@	178.34	1.40
12424.00	89.96	176.48	8119.81	95.00	4468.82	4466.86 S	132.42 E	4468.82@	178.30	1.22
12516.00	89.16	176.87	8120.52	92.00	4560.77	4558.70 S	137.75 E	4560.78@	178.27	0.97
STRAIGHT LINE PROJECTION TO BIT DEPTH @ 12574'MD.										
12574.00	89.16	176.87	8121.37	58.00	4618.75	4616.61 S	140.92 E	4618.76@	178.25	0.00

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	MARBOB ENERGY CORP.		
LEASE / WELL No.:	NERVOUS HORZ COM	#2H	
WELL LOCATION:	MALJAMAR, NM		
COUNTY / STATE / COUNTRY:	LEA	NM	USA
RIG:	PATRIOT 6		
API WELL No:	30-015-37143		
JOB No:	101009356 WT-WT		
P.O. / AFE No.			
DIRECTIONAL COMPANY:	PATHFINDER ENERGY SERVICES		

WELL SITE INFORMATION

TOTAL MAGNETIC CORRECTION (TMC):			
On Wall Plat:	LWD Calculated:	7.63	Agreed Upon: 7.63
X = 659250.700000	Feet	Y = 622506.200000	Feet
SITE LATITUDE: 32° 42' 37.0725" N	SITE LONGITUDE: 103° 48' 56.1046" W		
GRID SYSTEM: TRUE ☐ UTM ☐ LAMBERT ☒	ZONE: NEW MEXICO EAST		
PROPOSED DRIFT DIRECTION:	178.38		
KELLY BUSHING ELEVATION:	18.5		
ALTITUDE: 3666	Feet	WATER DEPTH:	Feet

TIE-IN SURVEY

MEASURED DEPTH:	7520		
DRIFT ANGLE:	0.8		
DRIFT DIRECTION:	248.98		
TRUE VERTICAL DEPTH:	7518.95		
VERTICAL SECTION:	-59.08		
RECTANGULAR COORDINATE (N / S) :	57.15		
RECTANGULAR COORDINATE (E / W) :	-69.02		
CLOSURE DISTANCE / DIRECTION:	89.61	309.63	
SURVEY CALCULATION METHOD:	AA ☐	MC ☒	RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):	SCIENTIFIC DRILLING		
COPY OF TIE-IN SURVEY REPORT	☒ YES ☐ NO		

WELL PLAN

KICKOFF DEPTH:	7672	TOTAL DEPTH:	12567
KICKOFF ANGLE:	0	MAX ANGLE:	90

PES Engineers: DAVID ASHER
DUSTIN EASLEY

**Signature of both field engineers required if applicable

Directional Driller: TOM ALLEN

DATE: 1-Dec-2009



Scientific Drilling

Gyroscopic Survey Report for MARBOB

Well Location	LEA COUNTY, NEW MEXICO
Well Name	NERVOUS HORZ ST COM NO.2-H
Rig Name	PATRIOT DRILLING RIG NO.6
Survey Date	12/1/2009
Latitude	32.71 deg
North Reference	Grid North
Grid Correction	-0.28 deg
Depth Reference	RIG FLOOR
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 178.39Azim (deg)
Definitive Survey	SURVEY
Operator	VICTOR MELENDEZ JR

Comments



Well Name: NERVOUS HORZ ST COM NO.2-H

Survey: SURVEY

Survey Date: 12/1/2009

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.42	142.82	100.00	0.30	-0.29	0.22	0.42	0.37	142.82
200.00	0.25	206.99	200.00	0.80	-0.79	0.34	0.39	0.86	156.31
300.00	0.41	245.28	300.00	1.13	-1.13	-0.08	0.26	1.14	183.97
400.00	0.37	264.18	399.99	1.29	-1.31	-0.73	0.13	1.50	208.91
500.00	0.53	285.64	499.99	1.18	-1.22	-1.50	0.23	1.93	230.80
600.00	0.59	281.77	599.99	0.92	-0.99	-2.45	0.07	2.64	247.99
700.00	0.42	282.81	699.98	0.71	-0.80	-3.31	0.18	3.41	256.35
800.00	0.52	306.68	799.98	0.34	-0.45	-4.03	0.22	4.06	263.58
900.00	0.58	301.51	899.97	-0.22	0.08	-4.83	0.08	4.83	270.99
1000.00	0.47	303.49	999.97	-0.73	0.58	-5.61	0.11	5.64	275.87
1100.00	0.32	312.67	1099.97	-1.17	0.99	-6.16	0.16	6.24	279.17
1200.00	0.23	322.89	1199.97	-1.53	1.35	-6.49	0.10	6.62	281.73
1300.00	0.38	311.65	1299.96	-1.92	1.73	-6.85	0.15	7.07	284.15
1400.00	0.33	292.91	1399.96	-2.26	2.06	-7.36	0.12	7.65	285.61
1500.00	0.28	279.92	1499.96	-2.43	2.21	-7.87	0.08	8.17	285.70
1600.00	0.22	11.92	1599.96	-2.67	2.44	-8.07	0.36	8.43	286.84
1700.00	0.27	11.47	1699.96	-3.09	2.87	-7.98	0.05	8.48	289.76
1800.00	0.46	14.49	1799.96	-3.71	3.49	-7.83	0.18	8.57	294.00
1900.00	0.74	40.68	1899.95	-4.57	4.36	-7.31	0.39	8.51	300.81
2000.00	1.03	40.01	1999.94	-5.71	5.54	-6.32	0.29	8.40	311.24
2100.00	1.34	40.16	2099.92	-7.25	7.11	-4.99	0.31	8.69	324.96
2200.00	1.44	46.54	2199.89	-8.96	8.87	-3.32	0.19	9.47	339.46
2300.00	1.47	47.12	2299.86	-10.65	10.61	-1.47	0.03	10.71	352.12
2400.00	1.30	41.11	2399.83	-12.33	12.34	0.22	0.23	12.34	1.00
2500.00	1.09	26.00	2499.81	-14.00	14.04	1.38	0.37	14.11	5.60
2600.00	0.90	13.40	2599.79	-15.60	15.67	1.98	0.29	15.79	7.19
2700.00	0.98	336.00	2699.78	-17.16	17.21	1.81	0.61	17.31	6.01
2800.00	1.33	308.02	2799.76	-18.69	18.71	0.55	0.66	18.72	1.67
2900.00	1.51	302.86	2899.73	-20.18	20.14	-1.48	0.22	20.20	355.81
3000.00	1.35	302.52	2999.70	-21.58	21.49	-3.57	0.16	21.79	350.56
3100.00	1.17	295.63	3099.67	-22.71	22.56	-5.48	0.24	23.22	346.35
3200.00	1.24	295.91	3199.65	-23.67	23.47	-7.37	0.07	24.60	342.58
3300.00	1.21	300.68	3299.63	-24.73	24.48	-9.24	0.10	26.17	339.31
3400.00	1.19	303.53	3399.61	-25.90	25.60	-11.02	0.06	27.87	336.71
3500.00	1.47	306.65	3499.58	-27.29	26.93	-12.91	0.29	29.87	334.39
3600.00	1.37	311.65	3599.55	-28.90	28.49	-14.83	0.16	32.12	332.50
3700.00	1.34	310.33	3699.52	-30.50	30.05	-16.62	0.04	34.34	331.05
3800.00	1.47	311.92	3799.49	-32.17	31.66	-18.47	0.13	36.65	329.75



Well Name:		NERVOUS HORZ ST COM NO.2-H							
Survey:		SURVEY							
Survey Date:		12/1/2009							
MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
3900.00	1.53	318.82	3899.46	-34.08	33.52	-20.30	0.19	39.19	328.80
4000.00	1.31	320.22	3999.43	-36.01	35.40	-21.91	0.22	41.64	328.25
4100.00	1.34	319.29	4099.40	-37.81	37.17	-23.40	0.04	43.93	327.80
4200.00	1.24	324.46	4199.37	-39.62	38.94	-24.80	0.15	46.17	327.51
4300.00	1.18	325.31	4299.35	-41.39	40.67	-26.01	0.07	48.28	327.40
4400.00	0.92	320.58	4399.33	-42.88	42.14	-27.11	0.27	50.10	327.24
4500.00	0.99	325.02	4499.32	-44.24	43.46	-28.11	0.10	51.76	327.10
4600.00	0.89	325.63	4599.31	-45.61	44.81	-29.05	0.10	53.40	327.05
4700.00	1.04	321.37	4699.29	-46.99	46.16	-30.05	0.17	55.08	326.94
4800.00	0.96	322.94	4799.28	-48.40	47.54	-31.12	0.08	56.82	326.79
4900.00	1.15	313.99	4899.26	-49.80	48.91	-32.35	0.25	58.64	326.52
5000.00	1.07	305.49	4999.24	-51.08	50.15	-33.83	0.18	60.49	325.99
5100.00	1.12	293.30	5099.22	-52.05	51.07	-35.49	0.24	62.19	325.21
5200.00	0.99	294.61	5199.21	-52.84	51.82	-37.17	0.13	63.77	324.35
5300.00	1.03	294.57	5299.19	-53.62	52.55	-38.77	0.04	65.31	323.58
5400.00	0.94	299.24	5399.18	-54.44	53.33	-40.30	0.12	66.84	322.92
5500.00	0.95	292.90	5499.16	-55.20	54.05	-41.79	0.11	68.32	322.29
5600.00	0.86	291.23	5599.15	-55.84	54.65	-43.25	0.09	69.69	321.64
5700.00	0.86	285.62	5699.14	-56.36	55.12	-44.68	0.08	70.95	320.97
5800.00	1.04	276.05	5799.13	-56.70	55.42	-46.31	0.24	72.22	320.12
5900.00	0.95	283.32	5899.11	-57.03	55.71	-48.01	0.16	73.54	319.24
6000.00	0.99	273.60	5999.10	-57.32	55.95	-49.68	0.17	74.83	318.39
6100.00	1.00	266.59	6099.08	-57.38	55.95	-51.42	0.12	75.99	317.42
6200.00	1.00	272.59	6199.07	-57.41	55.94	-53.16	0.10	77.17	316.46
6300.00	1.01	272.14	6299.05	-57.53	56.01	-54.91	0.02	78.44	315.57
6400.00	0.84	266.82	6399.04	-57.57	56.01	-56.53	0.19	79.57	314.73
6500.00	0.47	285.97	6499.03	-57.67	56.08	-57.66	0.43	80.43	314.20
6600.00	0.58	308.56	6599.03	-58.12	56.50	-58.44	0.23	81.29	314.03
6700.00	0.51	293.45	6699.02	-58.63	56.99	-59.24	0.16	82.20	313.89
6800.00	0.48	267.56	6799.02	-58.81	57.15	-60.06	0.22	82.91	313.58
6900.00	0.47	265.96	6899.02	-58.79	57.10	-60.89	0.01	83.47	313.16
7000.00	0.37	255.34	6999.01	-58.70	56.99	-61.61	0.13	83.93	312.77
7100.00	0.61	278.84	7099.01	-58.72	56.99	-62.45	0.31	84.55	312.38
7200.00	1.07	286.99	7199.00	-59.12	57.35	-63.87	0.47	85.84	311.92
7300.00	1.08	287.02	7298.98	-59.72	57.89	-65.66	0.00	87.54	311.40
7400.00	0.84	244.32	7398.97	-59.72	57.85	-67.22	0.73	88.69	310.71
7500.00	1.01	251.24	7498.95	-59.16	57.25	-68.72	0.20	89.44	309.80
7520.00	0.80	248.98	7518.95	-59.06	57.14	-69.02	1.05	89.60	309.62

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

MARBOB ENERGY
NERVOUS HORZ COM #2H
EDDY COUNTY, NEW MEXICO
Rig:PATRIOT 6

Mon Nov 30 11:08:28 2009

Coordinates

Latitude: 32.710298 N (32 deg. 42 min. 37.0725 sec.)
Longitude: 103.815585 W (-103 deg. 48 min. 56.1046 sec.)
Elevation: 3684.00 feet.
Calculation Date: Dec/01/2009

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.6513 degrees
Total Magnetic Field: 0.49065 gauss
Magnetic Declination: 7.907885 degrees
Horizontal Intensity: 0.240478 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.907885 Degr

Transverse Mercator Grid Calculations NAD27

Grid System: Transverse Mercator: new mexico east
Ellipsoid: Clarke 1866
X: 659250.7000 feet
Y: 622506.2000 feet
True to Grid: (convergence) -0.279793 degrees
Magnetic to Grid: 7.628093 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.628093 Degr.

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

MARBOB ENERGY CORP.
NERVOUS HORZ COM #2H
MALJAMAR, NM
Rig:PATRIOT 6

Tue Dec 01 23:42:48 2009

Coordinates

Latitude: 32.710298 N (32 deg. 42 min. 37.0725 sec.)
Longitude: 103.815585 W (-103 deg. 48 min. 56.1046 sec.)
Elevation: 3684.00 feet.
Calculation Date: Dec/01/2009

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.6513 degrees
Total Magnetic Field: 0.49093 gauss
Magnetic Declination: 7.909742 degrees
Horizontal Intensity: 0.240615 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.909742 Degr

Transverse Mercator Grid Calculations NAD27

Grid System: Transverse Mercator: new mexico east
Ellipsoid: Clarke 1866
X: 659250.7000 feet
Y: 622506.2000 feet
True to Grid: (convergence) -0.279793 degrees
Magnetic to Grid: 7.629949 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.629949 Degr.

Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Corrected Copy

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address MARBOB ENERGY CORP PO BOX 227 ARTESIA, NM 882110227		2. OGRID Number 14049
		3. API Number 30-015-37143
4. Property Code 37737	5. Property Name NERVOUS HORZ COM	6. Well No 002H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	36	18S	31E	A	330	N	330	E	EDDY

Watkins Bone Spring 8. Pool Information
~~LUSK BONE SPRING NORTH~~ 63345
#1450

Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3500
14. Multiple N	15. Proposed Depth 13000	16. Formation 1st Bone Spring Sand	17. Contractor	18. Spud Date 7/24/2009
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner Synthetic ☐ mile thick Clay ☐ Pit Volume. bbls Drilling Method. Closed Loop System ☐ Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				

Pool corrected
6/30/09
7VR

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	925	650	0
Int1	12.25	9.625	36	3000	600	700
Prod	7.875	5.5	17	13000	900	4500

Casing/Cement Program: Additional Comments

We propose to drill 17 1/2 inch hole to 925 ft with fresh water, run 54.5 lb 13 3/8 inch csg and set at 925 ft with 650 sx cmt. TOC 0, drill 12 1/4 inch hole to 3000 ft with brine water, run 36 lb J-55 9 5/8 inch csg and set at 3000 ft with 600 sx cmt, TOC 700; drill 7 7/8 inch hole to 13000 ft with cut brine water, run 5 1/2 inch 17 lb NS0-P110 csg and set at 13000 ft with 900 sx cmt. TOC 4500

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	3000	3000	Cameron

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐ , a general permit ☐ , or an (attached) alternative OCD-approved plan ☐ .		OIL CONSERVATION DIVISION	
Printed Name: Electronically filed by Diana Briggs		Approved By: Jacqueta Reeves	
Title: Production Manager		Title: District Geologist	
Email Address: production@marbob.com		Approved Date: 6/29/2009 Expiration Date: 6/29/2011	
Date: 6/24/2009	Phone: 575.748-3303		

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address MARBOB ENERGY CORP PO BOX 227 ARTESIA, NM 882110227		2. OGRID Number 14049
		3. API Number 30-015-37143
4. Property Code 37737	5. Property Name NERVOUS HORZ COM	6. Well No. 002H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	36	18S	31E	A	330	N	530	E	EDDY

8. Pool Information

LUSK BONE SPRING, NORTH	41450
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Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable Rotary	12. Lease Type State	13. Ground Level Elevation 3500
14. Multiple N	15. Proposed Depth 13000	16. Formation 1st Bone Spring Sand	17. Contractor	18. Spud Date 7/24/2009
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic ☐ mills thick Clay ☐ Pit Volume: bbls Drilling Method: Closed Loop System ☐ Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	925	650	0
Int1	12.25	9.625	36	3000	600	700
Prod	7.875	5.5	17	13000	900	4500

Casing/Cement Program: Additional Comments

We propose to drill 17 1/2 inch hole to 925 ft with fresh water, run 54.5 lb 13 3/8 inch csg and set at 925 ft with 650 sx cmt, TOC 0; drl 12 1/4 inch hole to 3000 ft with brine water, run 36 lb J-55 9 5/8 inch csg and set at 3000 ft with 600 sx cmt, TOC 700; drl 7 7/8 inch hole to 13000 ft with cut brine water, run 5 1/2 inch 17 lb N80-P110 csg and set at 13000 ft with 900 sx cmt, TOC 4500.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	3000	3000	Cameron

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐ , a general permit ☐ , or an (attached) alternative OCD-approved plan ☐ . Printed Name: Electronically filed by Diana Briggs Title: Production Manager Email Address: production@marbob.com Date: 6/24/2009 Phone: 575-748-3303	OIL CONSERVATION DIVISION	
	Approved By: Jacqueta Reeves	
	Title: District Geologist	
	Approved Date: 6/29/2009	Expiration Date: 6/29/2011

DISTRICT I
1625 N. FRENCH DR., DORRIS, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

JUN 17 2009

Form C-102

DISTRICT II
1301 W. GRAND AVENUE, ALBUQUERQUE, NM 88210

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name NERVOUS HORZ STATE COM	Well Number 2H
OCRID No.	Operator Name MARBOB ENERGY CORPORATION	Elevation 3670'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	36	18-S	31-E		330	NORTH	530	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	36	18-S	31-E		330	SOUTH	430	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

GEODEIC COORDINATES NAD 27 NME SURFACE LOCATION Y=622506.2 N X=659250.7 E LAT.=32.710298° N LONG.=103.815585° W	RWS2ER	947'
	TOS	1032'
BOTTOM HOLE LOCATION Y=617885.1 N X=659380.9 E	BOS	2417'
	YAPES	2557'
	7 RIVERS	2962'
	QUEEN	3617'
	SAN ANTONIO	4527'
	BEAWARE	4767'
	SAN FRANCISCO	6651'
	18 BS	8052'
	POO	8150'

GRD AZ=178°21'04"
HORIZ DIST=4621.8'

330' S.L.
530'
430' B.H.
330'

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or leased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

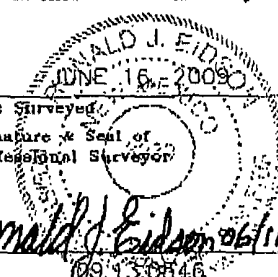
Signature _____ Date _____

Printed Name _____

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Surveyed: JUNE 16, 2009

Signature & Seal of Professional Surveyor: 

Certificate No. GARY EDMON 12641