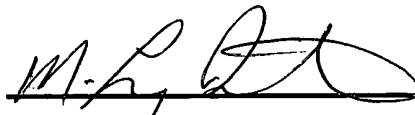


OPERATOR: Marbob Energy Corp.
WELL/LEASE: Bawh State Com. # 1
COUNTY: Eddy Co., New Mexico
Sec. 34, T24S, R25E

STATE OF NEW MEXICO
DEVIATION REPORT

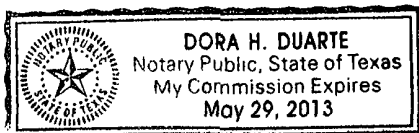
<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
194	1/2	3,827	1 1/2
487	1 3/4	3,927	1 1/2
531	1/2	4,146	1
673	2 1/2	4,304	1
706	3 1/4	4,462	1
731	2 1/2	4,621	1
787	2 1/4	4,779	1
874	1 3/4	4,938	1 1/4
930	1 1/4	5,096	1
993	3	5,413	3/4
1,057	3	5,572	2 1/4
1,120	2 1/2	5,698	1
1,184	1 1/2	5,856	1 1/4
1,247	1 1/4	6,013	1 1/4
1,311	1 1/4	6,170	2
1,464	2 3/4	6,485	1 1/4
1,552	2 1/2	6,643	3/4
1,589	2 1/2	6,799	1/2
1,638	1 1/2	6,989	1/2
1,734	2 1/2	7,276	1
1,829	1 1/2	7,366	1
1,925	2	7,556	2
2,020	1 1/4	7,744	1 1/4
2,116	1	7,973	1 1/4
2,306	1	8,123	2
2,402	1	8,311	1/2
2,560	1 1/4	8,500	1
2,720	1 1/4	8,689	1 3/4
2,879	2 1/4	8,879	1 1/2
3,035	1	9,066	1 1/4
3,194	1 1/4	9,256	3/4
3,511	1 1/2	9,445	1
3,669	1 1/4	9,633	2
		9,821	2 1/4

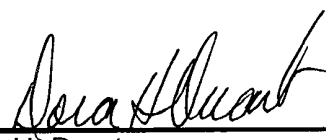
Patriot Drilling, LLC


M. Leroy Peterson, Executive Vice-
President

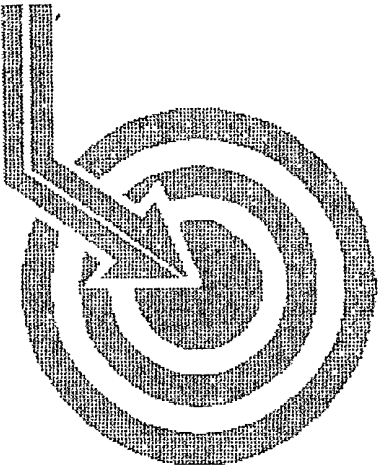
The foregoing instrument was acknowledged before me on this 10th day of
September, 2010 by M. Leroy Peterson, Executive Vice-President of Patriot Drilling,
LLC.

My Commission Expires: 5/29/2013




Dora H. Duarte
Notary Public for Midland Co., Texas

30-015-36287



Scientific Drilling

MARBOB ENERGY

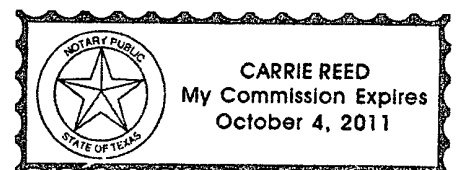
Field: Chosa Draw
Site: Eddy County, NM
Well: Bawh State Com #1
Wellpath: VH - Job #32K0710517
Survey: 07/10/10

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

Richard
Company Representative

Notarized this date 4th **of** August, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International, Inc.

Survey Report

Company: MARBOB ENERGY
Field: Chosa Draw
Site: Eddy County, NM
Well: Bawh State Com #1
Wellpath: VH - Job #32K0710517

Date: 7/13/2010 Time: 19:23:56 Page: 1
Co-ordinate(N/E) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,246.98Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 07/10/10 Start Date: 7/10/2010
KSRG 0'-10500'
Company: Scientific Drilling Internatio Engineer: Garza w/Dialog
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
0.0	0.00	0.02	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.23	123.14	100.0	-0.1	-0.1	0.2	0.23	0.2	123.14
200.0	0.26	78.34	200.0	-0.4	-0.2	0.6	0.19	0.6	107.27
300.0	0.54	77.53	300.0	-1.1	0.0	1.2	0.28	1.2	91.20
400.0	0.70	71.89	400.0	-2.2	0.3	2.3	0.17	2.3	83.36
500.0	0.93	51.31	500.0	-3.6	1.0	3.5	0.37	3.6	74.60
600.0	2.08	37.95	599.9	-6.0	2.9	5.2	1.19	6.0	61.05
700.0	2.84	36.76	699.9	-9.7	6.3	7.8	0.76	10.1	51.15
800.0	2.08	27.06	799.8	-13.2	9.9	10.2	0.86	14.2	45.67
900.0	1.71	4.04	899.7	-15.3	13.0	11.1	0.84	17.1	40.40
1000.0	2.49	17.21	999.6	-17.4	16.6	11.8	0.91	20.4	35.50
1100.0	2.75	19.85	1099.5	-20.4	20.9	13.3	0.29	24.8	32.43
1200.0	1.35	340.04	1199.5	-22.1	24.3	13.7	1.92	27.9	29.43
1300.0	2.03	342.50	1299.4	-22.3	27.1	12.8	0.68	29.9	25.24
1400.0	2.11	336.20	1399.4	-22.5	30.5	11.5	0.24	32.5	20.67
1500.0	2.13	335.22	1499.3	-22.4	33.8	10.0	0.04	35.3	16.42
1600.0	1.89	328.06	1599.2	-22.1	36.9	8.3	0.35	37.8	12.70
1700.0	1.33	311.63	1699.2	-21.3	39.1	6.6	0.72	39.6	9.55
1800.0	1.40	307.72	1799.2	-20.2	40.6	4.7	0.12	40.9	6.66
1900.0	1.45	317.17	1899.1	-19.2	42.3	2.9	0.24	42.4	3.95
2000.0	1.11	290.66	1999.1	-18.1	43.5	1.2	0.67	43.6	1.51
2100.0	0.70	256.15	2099.1	-16.8	43.7	-0.3	0.66	43.7	359.54
2200.0	0.74	258.29	2199.1	-15.5	43.5	-1.6	0.05	43.5	357.93
2300.0	0.81	266.47	2299.1	-14.2	43.3	-2.9	0.13	43.4	356.15
2400.0	0.87	270.23	2399.1	-12.9	43.2	-4.4	0.08	43.5	354.22
2500.0	0.96	273.46	2499.1	-11.4	43.3	-6.0	0.10	43.7	352.15
2600.0	0.97	274.48	2599.0	-9.9	43.4	-7.7	0.02	44.1	350.00
2700.0	1.00	275.86	2699.0	-8.4	43.6	-9.4	0.04	44.6	347.87
2800.0	0.96	296.42	2799.0	-7.1	44.0	-11.0	0.35	45.4	346.00
2900.0	1.07	293.35	2899.0	-5.9	44.8	-12.6	0.12	46.5	344.30
3000.0	1.00	291.17	2999.0	-4.7	45.5	-14.3	0.08	47.6	342.58
3100.0	0.98	295.37	3099.0	-3.5	46.1	-15.8	0.08	48.8	341.05
3200.0	1.01	292.70	3199.0	-2.3	46.8	-17.4	0.06	50.0	339.59
3300.0	1.13	286.57	3298.9	-0.9	47.5	-19.2	0.17	51.2	337.99
3400.0	1.28	278.91	3398.9	0.8	47.9	-21.2	0.22	52.4	336.10
3500.0	1.15	279.54	3498.9	2.6	48.3	-23.3	0.13	53.6	334.20
3600.0	1.05	236.42	3598.9	4.3	47.9	-25.1	0.81	54.1	332.37
3700.0	1.12	205.96	3698.9	6.0	46.5	-26.3	0.57	53.4	330.55
3800.0	1.19	201.11	3798.8	7.4	44.7	-27.1	0.12	52.3	328.79
3900.0	1.29	201.95	3898.8	9.0	42.7	-27.9	0.10	51.0	326.85
4000.0	1.38	199.95	3998.8	10.6	40.5	-28.7	0.10	49.6	324.67
4100.0	0.81	153.78	4098.8	11.4	38.7	-28.8	1.01	48.3	323.37
4200.0	0.86	139.59	4198.8	11.1	37.5	-28.0	0.21	46.8	323.27
4300.0	0.87	142.75	4298.7	10.7	36.4	-27.1	0.05	45.3	323.34
4400.0	0.84	135.81	4398.7	10.2	35.2	-26.1	0.11	43.8	323.48
4500.0	0.90	134.85	4498.7	9.7	34.1	-25.0	0.06	42.3	323.77
4600.0	1.04	128.02	4598.7	8.9	33.0	-23.7	0.18	40.7	324.29
4700.0	1.03	133.69	4698.7	8.1	31.9	-22.4	0.10	38.9	324.90
4800.0	1.01	130.32	4798.7	7.4	30.7	-21.1	0.06	37.2	325.51



Scientific
Drilling

Scientific Drilling International, Inc.

Survey Report

Company: MARBOB ENERGY
Field: Chosa Draw
Site: Eddy County, NM
Well: Bawh State Com #1
Wellpath: VH - Job #32K0710517

Date: 7/13/2010 Time: 19:23:56 Page: 2
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,246.98Azi)
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
4900.0	0.95	130.28	4898.7	6.6	29.6	-19.8	0.06	35.6	326.24
5000.0	0.97	127.77	4998.6	5.8	28.5	-18.5	0.05	34.0	327.07
5100.0	0.99	124.90	5098.6	5.0	27.5	-17.1	0.05	32.4	328.15
5200.0	0.51	136.18	5198.6	4.4	26.7	-16.1	0.50	31.1	328.94
5300.0	0.44	132.67	5298.6	4.0	26.1	-15.5	0.08	30.3	329.33
5400.0	0.41	202.44	5398.6	4.1	25.5	-15.3	0.49	29.8	328.99
5500.0	1.48	261.64	5498.6	5.6	25.0	-16.7	1.32	30.1	326.17
5600.0	2.80	269.72	5598.5	9.1	24.8	-20.5	1.35	32.1	320.46
5700.0	2.12	254.59	5698.4	13.2	24.3	-24.7	0.93	34.6	314.52
5800.0	0.70	293.88	5798.4	15.5	24.0	-27.0	1.64	36.2	311.65
5900.0	0.86	279.79	5898.4	16.5	24.4	-28.3	0.25	37.4	310.75
6000.0	0.90	235.15	5998.4	17.9	24.1	-29.7	0.67	38.2	309.03
6100.0	1.44	217.38	6098.4	19.8	22.6	-31.1	0.64	38.5	306.04
6200.0	1.54	213.13	6198.3	22.0	20.5	-32.6	0.15	38.5	302.17
6300.0	1.40	215.36	6298.3	24.1	18.4	-34.1	0.15	38.7	298.38
6400.0	1.20	193.22	6398.3	25.8	16.4	-35.0	0.54	38.6	295.08
6500.0	1.25	192.21	6498.3	27.1	14.3	-35.5	0.05	38.2	291.95
6600.0	1.13	198.77	6598.2	28.3	12.3	-36.0	0.18	38.1	288.85
6700.0	0.43	203.70	6698.2	29.3	11.0	-36.5	0.70	38.1	286.80
6800.0	0.39	235.68	6798.2	29.9	10.5	-36.9	0.23	38.4	285.85
6900.0	0.37	279.42	6898.2	30.5	10.3	-37.5	0.28	38.9	285.41
7000.0	0.44	266.96	6998.2	31.1	10.4	-38.2	0.11	39.6	285.19
7100.0	0.47	305.27	7098.2	31.7	10.6	-38.9	0.30	40.4	285.22
7200.0	0.85	279.40	7198.2	32.5	11.0	-40.0	0.47	41.5	285.31
7300.0	0.71	289.73	7298.2	33.6	11.3	-41.3	0.20	42.8	285.27
7400.0	0.80	307.71	7398.2	34.4	11.9	-42.5	0.25	44.1	285.68
7500.0	0.94	311.96	7498.2	35.1	12.9	-43.6	0.15	45.5	286.47
7600.0	1.61	324.23	7598.2	35.8	14.6	-45.1	0.72	47.4	287.93
7700.0	1.91	321.55	7698.1	36.5	17.0	-46.9	0.31	49.9	289.95
7800.0	1.08	251.72	7798.1	37.9	18.0	-48.8	1.84	52.1	290.27
7900.0	1.20	230.27	7898.1	39.8	17.1	-50.5	0.44	53.3	288.66
8000.0	1.30	233.32	7998.0	41.9	15.7	-52.3	0.12	54.6	286.75
8100.0	1.41	239.79	8098.0	44.3	14.4	-54.2	0.19	56.1	284.90
8200.0	1.77	221.30	8198.0	46.9	12.6	-56.3	0.62	57.7	282.66
8300.0	1.63	219.94	8297.9	49.5	10.4	-58.2	0.15	59.2	280.12
8400.0	0.82	227.46	8397.9	51.5	8.8	-59.7	0.82	60.3	278.41
8500.0	0.88	231.84	8497.9	52.9	7.9	-60.8	0.09	61.3	277.37
8600.0	1.06	221.90	8597.9	54.5	6.7	-62.0	0.25	62.4	276.17
8700.0	1.37	225.55	8697.9	56.4	5.2	-63.5	0.32	63.7	274.66
8800.0	1.42	225.38	8797.8	58.7	3.5	-65.2	0.05	65.3	273.04
8900.0	1.18	229.90	8897.8	60.8	1.9	-66.9	0.26	66.9	271.66
9000.0	1.07	226.89	8997.8	62.7	0.6	-68.4	0.12	68.4	270.53
9100.0	1.02	222.59	9097.8	64.4	-0.7	-69.7	0.09	69.7	269.46
9200.0	1.04	213.68	9197.7	65.9	-2.1	-70.8	0.16	70.8	268.32
9300.0	0.73	219.61	9297.7	67.3	-3.3	-71.7	0.32	71.8	267.35
9400.0	0.77	214.48	9397.7	68.4	-4.4	-72.5	0.08	72.6	266.56
9500.0	1.09	226.64	9497.7	69.9	-5.6	-73.5	0.37	73.7	265.67
9600.0	1.46	223.17	9597.7	71.9	-7.2	-75.1	0.38	75.4	264.56
9700.0	1.51	217.09	9697.7	74.2	-9.1	-76.8	0.17	77.3	263.22
9800.0	1.73	210.58	9797.6	76.6	-11.5	-78.3	0.29	79.2	261.66
9900.0	1.80	210.68	9897.6	79.1	-14.1	-79.9	0.07	81.1	259.97
10000.0	2.20	207.66	9997.5	81.8	-17.2	-81.6	0.41	83.4	258.11



Scientific
Drilling

Scientific Drilling International, Inc.

Survey Report

Company: MARBOB ENERGY
Field: Chosa Draw
Site: Eddy County, NM
Well: Bawh State Com #1
Wellpath: VH - Job #32K0710517

Date: 7/13/2010 Time: 19:23:56 Page: 3
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,246.98Azi)
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
10100.0	2.55	198.89	10097.4	84.8	-21.0	-83.2	0.50	85.8	255.84
10200.0	2.57	179.14	10197.3	87.1	-25.3	-83.9	0.88	87.6	253.20
10300.0	1.63	178.91	10297.3	88.5	-29.0	-83.8	0.94	88.7	250.92
10400.0	1.82	170.28	10397.2	89.4	-32.0	-83.5	0.32	89.4	249.05
10500.0	2.01	172.56	10497.2	90.2	-35.3	-83.0	0.20	90.2	246.98



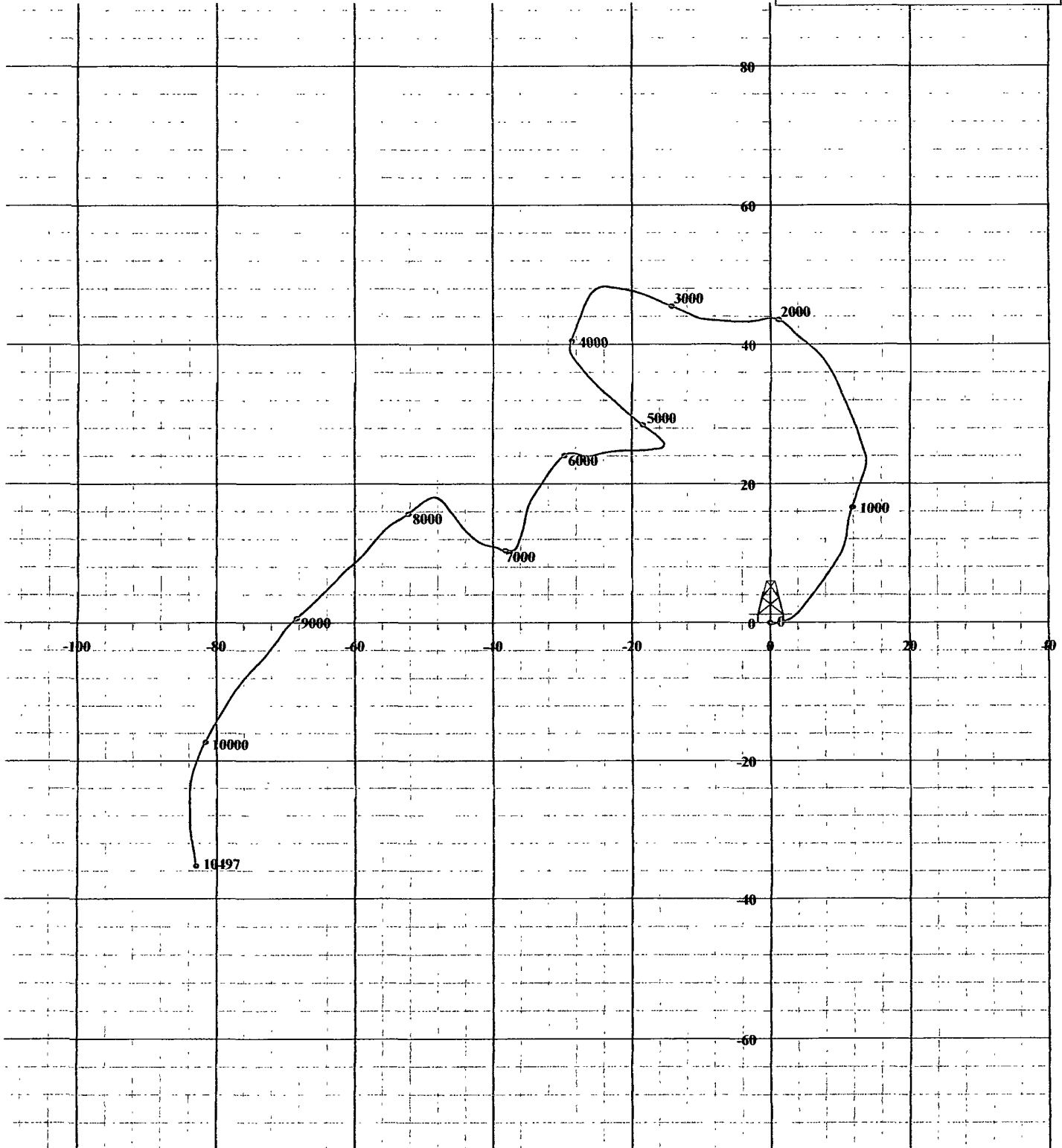
Scientific
Drilling

Field: Chosa Draw
Site: Eddy County, NM
Well: Bawh State Com #1
Survey: 07/10/10



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°
Magnetic Field
Dip Angle: 0.00°
Date: 7/13/2010
Model: igrf2000

South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]



Marbob

Eddy County

Bawh State Com

#1

OH

Survey: MWD #2

Pathfinder X & Y Survey Report

16 August, 2010

PATHFINDER



Pathfinder

Pathfinder X & Y Survey Report



Company: Marbob
Project: Eddy County
Site: Bawh State Com
Well: #1
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1
TVD Reference: Patriot #2 @ 3661.00ft (17' KB Correction)
MD Reference: Patriot #2 @ 3661.00ft (17' KB Correction)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Project: Eddy County

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site: Bawh State Com

Site Position:	Northing:	426,223.300 ft	Latitude:	32° 10' 18.471 N
From: Map	Easting:	486,588.300 ft	Longitude:	104° 22' 36.043 W
Position Uncertainty: 0.00 ft	Slot Radius:	"	Grid Convergence:	-0 02 °

Well #1

Well Position	+N/-S	0.00 ft	Northing:	426,223.300 ft	Latitude:	32° 10' 18.471 N
	+E/-W	0.00 ft	Easting:	486,588.300 ft	Longitude:	104° 22' 36.043 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,644.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	07/11/2010	8.05	60.04	48,644

Design OH

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	358.35



Pathfinder

Pathfinder X & Y Survey Report



Company: Marbob
Project: Eddy County
Site: Bawh State Com
Well: #1
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1
TVD Reference: Patriot #2 @ 3661.00ft (17' KB Correction)
MD Reference: Patriot #2 @ 3661.00ft (17' KB Correction)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Survey Program Date 08/16/2010

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	9,200.00	GYRO (OH)	CB-GYRO-MS	Camera based gyro multishot
9,274.00	10,139.00	MWD #1 (OH)	MWD	MWD - Standard

MD (ft)	Inc (")	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
9,200.00	1.04	213.68	9,197.75	5,536.75	-2.07	-70.77	-0.03	0.00	426,221.23	486,517.53
9,267.00	5.28	314.71	9,264.65	5,603.65	-0.41	-73.30	1.70	8.32	426,222.89	486,515.00
9,299.00	8.97	334.77	9,296.40	5,635.40	2.89	-75.41	5.06	13.74	426,226.19	486,512.89
9,330.00	12.22	348.58	9,326.88	5,665.88	8.29	-77.09	10.51	13.23	426,231.59	486,511.21
9,361.00	15.04	351.79	9,357.00	5,696.00	15.49	-78.32	17.74	9.41	426,238.79	486,509.98
9,393.00	17.24	358.12	9,387.74	5,726.74	24.34	-79.06	26.61	8.79	426,247.64	486,509.24
9,425.00	19.70	4.09	9,418.09	5,757.09	34.46	-78.84	36.72	9.69	426,257.76	486,509.46
9,457.00	23.21	4.89	9,447.87	5,786.87	46.13	-77.91	48.35	11.01	426,269.43	486,510.39
9,488.00	27.26	3.35	9,475.91	5,814.91	59.31	-76.98	61.50	13.23	426,282.61	486,511.32
9,520.00	31.04	356.50	9,503.86	5,842.86	74.87	-77.05	77.06	15.74	426,298.17	486,511.25
9,552.00	35.17	2.94	9,530.66	5,869.66	92.32	-77.08	94.50	16.94	426,315.62	486,511.22
9,583.00	38.78	5.78	9,555.43	5,894.43	110.90	-75.65	113.04	12.88	426,334.20	486,512.65
9,615.00	42.30	7.21	9,579.74	5,918.74	131.56	-73.29	133.62	11.38	426,354.86	486,515.01
9,647.00	46.52	7.32	9,602.60	5,941.60	153.77	-70.45	155.74	13.19	426,377.07	486,517.85
9,679.00	50.47	5.85	9,623.80	5,962.80	177.57	-67.72	179.45	12.81	426,400.87	486,520.58
9,711.00	54.96	3.76	9,643.18	5,982.18	202.94	-65.60	204.74	14.96	426,426.24	486,522.70
9,743.00	58.12	1.24	9,660.82	5,999.82	229.60	-64.44	231.36	11.86	426,452.90	486,523.86
9,775.00	60.85	359.85	9,677.07	6,016.07	257.16	-64.19	258.91	9.32	426,480.46	486,524.11
9,807.00	64.37	359.88	9,691.79	6,030.79	285.57	-64.25	287.30	11.00	426,508.87	486,524.05
9,838.00	68.15	359.47	9,704.27	6,043.27	313.94	-64.42	315.67	12.25	426,537.24	486,523.88
9,870.00	70.26	359.87	9,715.63	6,054.63	343.86	-64.59	345.57	6.70	426,567.16	486,523.71



Pathfinder

Pathfinder X & Y Survey Report



Company: Marbob
 Project: Eddy County
 Site: Bawh State Com
 Well: #1
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #1
 TVD Reference: Patriot #2 @ 3661.00ft (17' KB Correction)
 MD Reference: Patriot #2 @ 3661.00ft (17' KB Correction)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: Midland Database

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
9,902.00	71.93	359.24	9,726.00	6,065.00	374.13	-64.82	375.84	5.54	426,597.43	486,523.48
9,934.00	73.69	358.73	9,735.45	6,074.45	404.69	-65.37	406.41	5.71	426,627.99	486,522.93
9,965.00	76.50	359.23	9,743.43	6,082.43	434.64	-65.90	436.36	9.20	426,657.94	486,522.40
9,997.00	78.44	358.96	9,750.37	6,089.37	465.87	-66.39	467.59	6.12	426,689.17	486,521.91
10,029.00	81.78	358.04	9,755.86	6,094.86	497.38	-67.22	499.11	10.81	426,720.68	486,521.08
10,060.00	84.68	358.89	9,759.52	6,098.52	528.15	-68.04	529.89	9.74	426,751.45	486,520.26
10,092.00	84.77	358.62	9,762.46	6,101.46	560.01	-68.73	561.76	0.89	426,783.31	486,519.57
10,124.00	84.86	358.23	9,765.35	6,104.35	591.87	-69.61	593.63	1.25	426,815.17	486,518.69
10,156.00	87.14	358.17	9,767.58	6,106.58	623.77	-70.61	625.55	7.13	426,847.07	486,517.69
10,187.00	88.37	358.07	9,768.80	6,107.80	654.73	-71.63	656.52	3.98	426,878.03	486,516.67
10,251.00	91.36	359.14	9,768.95	6,107.95	718.70	-73.19	720.51	4.96	426,942.00	486,515.11
10,283.00	91.98	0.05	9,768.02	6,107.02	750.69	-73.41	752.49	3.44	426,973.99	486,514.89
10,346.00	91.45	359.62	9,766.13	6,105.13	813.66	-73.59	815.44	1.08	427,036.96	486,514.71
10,410.00	90.48	358.81	9,765.05	6,104.05	877.64	-74.47	879.42	1.97	427,100.94	486,513.83
10,442.00	90.84	359.18	9,764.68	6,103.68	909.63	-75.03	911.42	1.61	427,132.93	486,513.27
10,505.00	88.29	358.06	9,765.16	6,104.16	972.61	-76.55	974.41	4.42	427,195.91	486,511.75
10,537.00	87.93	357.42	9,766.22	6,105.22	1,004.57	-77.81	1,006.39	2.29	427,227.87	486,510.49
10,601.00	89.25	357.56	9,767.79	6,106.79	1,068.48	-80.61	1,070.36	2.07	427,291.78	486,507.69
10,664.00	90.48	357.27	9,767.94	6,106.94	1,131.42	-83.45	1,133.35	2.01	427,354.72	486,504.85
10,727.00	88.90	357.63	9,768.28	6,107.28	1,194.35	-86.26	1,196.34	2.57	427,417.65	486,502.04
10,791.00	89.87	357.81	9,768.97	6,107.97	1,258.30	-88.80	1,260.33	1.54	427,481.60	486,499.50
10,854.00	90.48	357.79	9,768.78	6,107.78	1,321.25	-91.22	1,323.33	0.97	427,544.55	486,497.08
10,918.00	90.75	356.90	9,768.09	6,107.09	1,385.18	-94.19	1,387.32	1.45	427,608.48	486,494.11
10,982.00	89.25	356.96	9,768.09	6,107.09	1,449.08	-97.61	1,451.29	2.35	427,672.38	486,490.69
11,046.00	88.90	357.11	9,769.12	6,108.12	1,512.99	-100.92	1,515.27	0.59	427,736.29	486,487.38
11,109.00	89.08	356.49	9,770.23	6,109.23	1,575.88	-104.44	1,578.24	1.02	427,799.18	486,483.86
11,173.00	90.22	355.82	9,770.62	6,109.62	1,639.73	-108.73	1,642.19	2.07	427,863.03	486,479.57



Pathfinder

Pathfinder X & Y Survey Report



Company: Marbob
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 Design: OH

Local Co-ordinate Reference: Well #1
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Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
11,237.00	90.75	355.42	9,770.08	6,109.08	1,703.55	-113.62	1,706.11	1.04	427,926.85	486,474.68
11,301.00	89.16	356.98	9,770.13	6,109.13	1,767.40	-117.86	1,770.06	3.48	427,990.70	486,470.44
11,364.00	88.02	357.21	9,771.68	6,110.68	1,830.30	-121.05	1,833.03	1.85	428,053.60	486,467.25
11,427.00	87.76	357.54	9,774.00	6,113.00	1,893.19	-123.93	1,895.97	0.67	428,116.49	486,464.37
11,491.00	90.13	355.87	9,775.18	6,114.18	1,957.07	-127.61	1,959.93	4.53	428,180.37	486,460.69
11,555.00	90.22	355.10	9,774.98	6,113.98	2,020.87	-132.65	2,023.85	1.21	428,244.17	486,455.65
11,618.00	90.22	355.86	9,774.74	6,113.74	2,083.67	-137.62	2,086.77	1.21	428,306.97	486,450.68
11,681.00	90.13	355.37	9,774.55	6,113.55	2,146.49	-142.43	2,149.70	0.79	428,369.79	486,445.87
11,745.00	91.36	355.89	9,773.72	6,112.72	2,210.29	-147.31	2,213.62	2.09	428,433.59	486,440.99
11,809.00	92.15	356.16	9,771.76	6,110.76	2,274.11	-151.74	2,277.53	1.30	428,497.41	486,436.56
11,872.00	92.77	356.13	9,769.05	6,108.05	2,336.91	-155.97	2,340.43	0.99	428,560.21	486,432.33
11,936.00	92.59	355.63	9,766.06	6,105.06	2,400.67	-160.57	2,404.30	0.83	428,623.97	486,427.73
11,999.00	92.86	355.78	9,763.07	6,102.07	2,463.42	-165.28	2,467.16	0.49	428,686.72	486,423.02
12,063.00	93.03	355.79	9,759.78	6,098.78	2,527.17	-169.98	2,531.01	0.27	428,750.47	486,418.32
12,115.00	93.30	354.99	9,756.91	6,095.91	2,578.92	-174.15	2,582.86	1.62	428,802.22	486,414.15
12,160.00	93.30	354.99	9,754.32	6,093.32	2,623.67	-178.07	2,627.71	0.00	428,846.97	486,410.23

BHL-12160.00°MD,93.30°INC,354.99°AZI, 9754.32°TVD, 2627.71°VS, 2623.67°N, -178.07°E

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
12,160.00	9,754.32	2,623.67	-178.07	BHL-12160.00°MD,93.30°INC,354.99°AZI, 9754.32°TVD, 2627.71°VS, 2

Checked By: _____ Approved By: _____ Date: _____

District I
1625 N. French Dr , Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr , Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address COG Operating LLC 2208 W. Main Street Artesia, NM 88210		² OGRID Number 229137	
		³ Reason for Filing Code/ Effective Date NW	
⁴ API Number 30 - 015-36287	⁵ Pool Name Walnut Canyon; Upper Penn (G)		⁶ Pool Code 97566
⁷ Property Code 308592	⁸ Property Name Bawh State Com		⁹ Well Number 1H

II. ¹⁰ Surface Location

Ul or lot no. I	Section 34	Township 24S	Range 25E	Lot Idn	Feet from the 1930	North/South Line South	Feet from the 810	East/West line East	County Eddy
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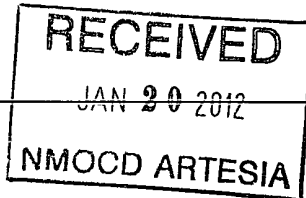
¹¹ Bottom Hole Location

Ul or lot no. A	Section 34	Township 24S	Range 25E	Lot Idn	Feet from the 776	North/South Line North	Feet from the 988	East/West line East	County Eddy
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¹² Lse Code S & F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 12/2/11	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
282814	One Source Industrial Services 1929 Pecos Hwy Loving, NM 88256	O
147831	Agave Energy Company 105 S. 4 th Street Artesia, NM 88210	G



IV. Well Completion Data

²¹ Spud Date 6/17/10	²² Ready Date 12/1/11	²³ TD 12160'	²⁴ PBDT 11913'	²⁵ Perforations 9950-11903'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement	
17 1/2"		13 3/8"	398'	450 sx	
12 1/4"		9 5/8"	1391'	625 sx	
8 3/4"		7"	9148'	1300 sx	
6 1/8"		4 1/2"	11969'	150 sx (TOC @ 8570'-CBL)	

V. Well Test Data

³¹ Date New Oil 12/2/11	³² Gas Delivery Date 12/2/11	³³ Test Date 12/8/11	³⁴ Test Length 24 Hrs	³⁵ Tbg. Pressure 150#	³⁶ Csg. Pressure
³⁷ Choke Size 3/4"	³⁸ Oil 2	³⁹ Water 150	⁴⁰ Gas 794		⁴¹ Test Method Flowing

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Stormi Davis*

Printed name:
Stormi Davis

Title:
Regulatory Analyst

E-mail Address:
sdavis@concho.com

Date:
1/16/12

Phone:
575-748-6946

OIL CONSERVATION DIVISION	
Approved by:	<i>T. C. Shepard</i>
Title:	<i>Geologist</i>
Approval Date:	<i>1/20/2012</i>
<i>3160-4 pending BLM apvl</i>	