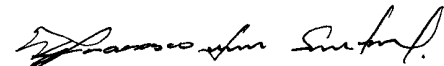


DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) KEITH WINDHAM
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 05/01/09 TO 05/10/09
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

MARBOB ENERGY CORPORATION
MYOX STATE COM # 7
EDDY COUNTY, NM
RIG: PATRIOT #3
9. SURVEY CERTIFIED FROM: 6209 TO 8759 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 1977.53 FEET ON A BEARING OF 88.25 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 8836 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



FRANCISCO SINISTERRA
M/LWD SERVICE COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 05/02/2009
Date Completed: 05/10/2009

MARBOB ENERGY CORPORATION
MYOX 16 STATE COM #7H
EDDY COUNTY, NM
Rig: PATRIOT 3
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers: K WINDHAM
N TVRDY
P JARAMILLO

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.7.27.4841 N LON: 104.5.42.2002 W
GRID Reference: NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 573765.1000 Y: 409024.7000
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.93° EAST TO GRID
Vertical Section Plane: 89.45
Survey Vert. Reference: 22.00' Kelly Bushing To Ground
Altitude: 3000.00' Ground To MSL

Measured Depth	8836.00	(feet)
Inclination	90.04	(deg)
Azimuth	83.45	(deg)
True Vertical Depth	7097.81	(feet)
Vertical Section	1977.10	(feet)
Survey X cord	575741.71	(feet)
Survey Y cord	409085.19	(feet)
Survey Lat	32.12445526 N	(deg)
Survey Lon	104.08867033 W	(deg)
Rectangular Corr. N/S	60.49 N	(feet)
Rectangular Corr. E/W	1976.61 E	(feet)
Closure Distance	1977.53	(feet)
Direction of Closure	88.25	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY CORPORATION

MYOX 16 STATE COM #7H

EDDY COUNTY, NM

Rig:PATRIOT 3

PathFinder Office Supervisor: FRANCISCO SINISTERRA

PathFinder Field Engineers: K WINDHAM

N TVRDY

P JARAMILLO

Survey Calculations by RX5 V5.11i using Minimum Curvature

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:32.7.27.4841 N LON:104.5.42.2002 W

Reference:NAD27 new mexico east Transverse Mercator

Ref GRID Coord: X: 573765.1000 Y: 409024.7000

North Aligned To:GRID NORTH

Total Magnetic Correction: 7.93°EAST TO GRID

Vertical Section Plane: 89.45

Survey Vert. Reference: 22.00° Kelly Bushing To Ground

Altitude:3000.00' Ground To MSL

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-IN TO SCIENTIFIC GYRO SURVEY @ 6090' MD.										
6090.00	0.46	183.79	6088.93	0.00	50.30	31.46 S	50.60 E	59.58@	121.87	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
6209.00	0.62	178.16	6207.93	119.00	50.27	32.58 S	50.59 E	60.17@	122.78	0.14
6304.00	0.70	250.03	6302.92	95.00	49.74	33.29 S	50.06 E	60.12@	123.63	0.82
6400.00	0.97	276.13	6398.91	96.00	48.38	33.41 S	48.70 E	59.06@	124.45	0.48
6495.00	1.49	278.24	6493.89	95.00	46.36	33.14 S	46.68 E	57.25@	125.38	0.55
6527.00	1.76	276.69	6525.88	32.00	45.46	33.03 S	45.78 E	56.45@	125.81	0.85
6559.00	1.32	278.44	6557.86	32.00	44.61	32.91 S	44.93 E	55.69@	126.23	1.38
6590.00	2.37	64.16	6588.86	31.00	44.84	32.58 S	45.15 E	55.68@	125.82	11.42
6622.00	5.80	79.66	6620.77	32.00	47.03	32.00 S	47.34 E	57.14@	124.06	11.16
6654.00	9.67	82.79	6652.47	32.00	51.29	31.38 S	51.60 E	60.39@	121.30	12.16
6686.00	12.05	83.73	6683.90	32.00	57.29	30.67 S	57.58 E	65.24@	118.04	7.46
6718.00	15.21	88.74	6714.99	32.00	64.81	30.22 S	65.10 E	71.77@	114.90	10.53
6749.00	17.41	92.90	6744.75	31.00	73.51	30.36 S	73.80 E	79.80@	112.36	8.03
6781.00	19.96	91.56	6775.06	32.00	83.74	30.75 S	84.04 E	89.49@	110.10	8.08
6813.00	21.72	91.16	6804.96	32.00	95.12	31.02 S	95.42 E	100.34@	108.01	5.52
6845.00	23.48	89.52	6834.50	32.00	107.42	31.09 S	107.72 E	112.12@	106.10	5.84
6876.00	25.94	86.92	6862.66	31.00	120.37	30.67 S	120.67 E	124.51@	104.26	8.67
6908.00	28.58	87.81	6891.11	32.00	135.01	30.00 S	135.31 E	138.59@	102.50	8.35
6940.00	32.27	87.66	6918.70	32.00	151.21	29.36 S	151.50 E	154.32@	100.97	11.53
6972.00	35.44	87.99	6945.27	32.00	169.03	28.69 S	169.31 E	171.72@	99.62	9.92
7003.00	39.39	89.32	6969.89	31.00	187.86	28.26 S	188.14 E	190.25@	98.54	13.01
7035.00	44.23	87.21	6993.73	32.00	209.17	27.59 S	209.45 E	211.26@	97.50	15.75
7067.00	48.80	86.42	7015.75	32.00	232.36	26.30 S	232.62 E	234.11@	96.45	14.39
7099.00	53.99	86.29	7035.71	32.00	257.32	24.70 S	257.57 E	258.75@	95.48	16.22
7131.00	59.88	86.83	7053.16	32.00	284.09	23.10 S	284.33 E	285.27@	94.64	18.46

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY CORPORATION
MYOX 16 STATE COM #7H
EDDY COUNTY, NM
RIG:PATRIOT 3

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)
7162.00	65.51	87.63	7067.37	31.00	311.61	21.77 S	311.83 E	312.59@	93.99	18.31
7194.00	71.31	89.43	7079.14	32.00	341.35	21.02 S	341.56 E	342.21@	93.52	18.86
7226.00	75.10	90.36	7088.39	32.00	371.97	20.97 S	372.19 E	372.78@	93.22	12.17
7258.00	78.44	90.78	7095.71	32.00	403.11	21.28 S	403.34 E	403.90@	93.02	10.51
7289.00	82.57	90.32	7100.82	31.00	433.68	21.57 S	433.90 E	434.44@	92.85	13.40
7321.00	86.26	89.75	7103.94	32.00	465.52	21.59 S	465.75 E	466.25@	92.65	11.67
7353.00	86.88	90.51	7105.85	32.00	497.46	21.66 S	497.69 E	498.16@	92.49	3.06
7385.00	86.44	90.48	7107.72	32.00	529.40	21.94 S	529.63 E	530.09@	92.37	1.38
7416.00	86.79	90.06	7109.55	31.00	560.34	22.08 S	560.58 E	561.01@	92.26	1.76
7448.00	88.99	90.31	7110.72	32.00	592.31	22.19 S	592.55 E	592.97@	92.14	6.92
7480.00	90.84	90.49	7110.77	32.00	624.31	22.41 S	624.55 E	624.95@	92.06	5.81
7512.00	90.66	90.81	7110.35	32.00	656.30	22.77 S	656.55 E	656.94@	91.99	1.15
7575.00	89.34	90.16	7110.35	63.00	719.29	23.31 S	719.54 E	719.92@	91.86	2.33
7639.00	89.08	90.33	7111.24	64.00	783.27	23.58 S	783.54 E	783.89@	91.72	0.49
7703.00	88.81	89.92	7112.41	64.00	847.26	23.72 S	847.53 E	847.86@	91.60	0.77
7766.00	89.08	89.00	7113.57	63.00	910.25	23.13 S	910.51 E	910.80@	91.45	1.52
7830.00	90.31	87.56	7113.91	64.00	974.23	21.21 S	974.48 E	974.71@	91.25	2.96
7893.00	91.63	87.50	7112.85	63.00	1037.18	18.49 S	1037.41 E	1037.57@	91.02	2.10
7957.00	91.98	86.25	7110.83	64.00	1101.09	15.00 S	1101.28 E	1101.38@	90.78	2.03
8021.00	93.21	86.16	7107.93	64.00	1164.92	10.77 S	1165.07 E	1165.12@	90.53	1.93
8084.00	92.59	86.88	7104.75	63.00	1227.75	6.95 S	1227.88 E	1227.90@	90.32	1.51
8148.00	91.98	86.10	7102.20	64.00	1291.62	3.04 S	1291.71 E	1291.71@	90.13	1.55
8211.00	89.87	87.12	7101.18	63.00	1354.53	0.69 N	1354.58 E	1354.58@	89.97	3.72
8275.00	90.22	85.52	7101.13	64.00	1418.43	4.79 N	1418.45 E	1418.46@	89.81	2.56
8339.00	90.48	85.20	7100.74	64.00	1482.27	9.97 N	1482.24 E	1482.27@	89.61	0.64
8402.00	90.57	85.67	7100.16	63.00	1545.11	14.98 N	1545.04 E	1545.11@	89.44	0.76
8466.00	89.96	84.83	7099.86	64.00	1608.93	20.28 N	1608.81 E	1608.94@	89.28	1.62
8529.00	90.22	83.92	7099.76	63.00	1671.69	26.46 N	1671.51 E	1671.72@	89.09	1.50
8593.00	90.66	83.64	7099.27	64.00	1735.37	33.39 N	1735.13 E	1735.45@	88.90	0.82

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY CORPORATION
 MYOX 16 STATE COM #7H
 EDDY COUNTY, NM
 RIG:PATRIOT 3

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)
8657.00	90.75	83.74	7098.49	64.00	1799.04	40.43 N	1798.74 E	1799.19@	88.71	0.21
8720.00	90.22	83.67	7097.95	63.00	1861.72	47.33 N	1861.36 E	1861.96@	88.54	0.85
8759.00	90.04	83.45	7097.86	39.00	1900.52	51.71 N	1900.11 E	1900.81@	88.44	0.73
STRAIGHT LINE PROJECTION TO BIT @ 8836' MD.										
8836.00	90.04	83.45	7097.81	77.00	1977.10	60.49 N	1976.61 E	1977.53@	88.25	0.00

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	MARBOB ENERGY		
LEASE / WELL No.:	MYOX 16 STATE COM	#7	
WELL LOCATION:	EDDY COUNTY		
COUNTY / STATE / COUNTRY:	EDDY	NM	USA
RIG:	PATRIOT 3		
API WELL No:	30-015-37033		
JOB No:	101008484 WT-WT		
P.O. / AFE No.			
DIRECTIONAL COMPANY:	P.E.S.		

WELL SITE INFORMATION

TOTAL MAGNETIC CORRECTION (TMC):			
On Wall Plat:	7.93	LWD Calculated:	7.93
		Agreed Upon:	7.93
X =	573765.100000	Feet	Y = 409024.700000
			Feet
SITE LATITUDE:	32.124301 N	SITE LONGITUDE:	104.095056 W
GRID SYSTEM:	TRUE ☐ UTM ☐ LAMBERT ☒ ZONE: NEW MEXICO EAST		
PROPOSED DRIFT DIRECTION:	89.45		
KELLY BUSHING ELEVATION:	20		
ALTITUDE:	3022	Feet	WATER DEPTH:
			Feet

TIE-IN SURVEY

MEASURED DEPTH:	6090		
DRIFT ANGLE:	121.88		
DRIFT DIRECTION:	59.58		
TRUE VERTICAL DEPTH:	6088.93		
VERTICAL SECTION:	50.29		
RECTANGULAR COORDINATE (N / S) :	-31.46		
RECTANGULAR COORDINATE (E / W) :	50.6		
CLOSURE DISTANCE / DIRECTION:	59.58	121.87	
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:	6522	TOTAL DEPTH:	8825
KICKOFF ANGLE:	0	MAX ANGLE:	90

PES Engineers:

**Signature of both field engineers required if applicable



Directional Driller:



DATE: 5/10/09

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

MARBOB ENERGY
MYOX 16 STATE COM #7H
EDDY COUNTY, NEW MEXICO
Rig: PATRIOT 3

Wed Apr 29 14:07:03 2009

Coordinates

Latitude: 32.124301 N (32 deg. 7 min. 27.4841 sec.)
Longitude: 104.095056 W (-104 deg. 5 min. 42.2002 sec.)
Elevation: 3022.00 feet.
Calculation Date: Apr/29/2009

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.0685 degrees
Total Magnetic Field: 0.48740 gauss
Magnetic Declination: 8.058077 degrees
Horizontal Intensity: 0.243198 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 8.058077 Degr.

Transverse Mercator Grid Calculations NAD27

Grid System: Transverse Mercator: new mexico east
Ellipsoid: Clarke 1866
X: 573765.1000 feet
Y: 409024.7000 feet
True to Grid: (convergence) -0.126707 degrees
Magnetic to Grid: 7.931370 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.931370 Degr.

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

FIELD

Fri May 01 20:27:34 2009

Coordinates

Latitude: 32.124301 N (32 deg. 7 min. 27.4841 sec.)
Longitude: 104.095056 W (-104 deg. 5 min. 42.2002 sec.)
Elevation: 3022.00 feet.
Calculation Date: May/01/2009

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.0684 degrees
Total Magnetic Field: 0.48740 gauss
Magnetic Declination: 8.057431 degrees
Horizontal Intensity: 0.243196 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 8.057431 Degr

Transverse Mercator Grid Calculations NAD27

Grid System: Transverse Mercator: new mexico east
Ellipsoid: Clarke 1866
X: 573765.1000 feet
Y: 409024.7000 feet
True to Grid: (convergence) -0.126707 degrees
Magnetic to Grid: 7.930725 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.930725 Degr.



Scientific Drilling

Gyroscopic Survey Report
for
MARBOB ENERGY

Well Location	EDDY COUNTY, NEW MEXICO
Well Name	MYOX 16 St. COM #7
Rig Name	PATRIOT 3
Survey Date	5/2/2009
Latitude	32.12 deg
North Reference	Grid North
Grid Correction	0.13 deg
Depth Reference	RKB
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 89.45Azim (deg)
Definitive Survey	FINAL SURVEY
Operator	LEO GARZA

Comments



Well Name:		MYOX 16 St. COM #7							
Survey:		FINAL SURVEY							
Survey Date:		5/2/2009							
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	0.33	253.33	3898.99	52.00	-21.01	52.20	0.24	56.27	111.92
4000.00	0.42	234.78	3998.99	51.42	-21.30	51.62	0.15	55.85	112.42
4100.00	0.45	220.56	4098.98	50.86	-21.82	51.07	0.11	55.53	113.13
4200.00	0.43	219.33	4198.98	50.36	-22.41	50.57	0.03	55.31	113.89
4300.00	0.58	228.90	4298.98	49.73	-23.03	49.95	0.17	55.01	114.75
4400.00	0.66	240.21	4398.97	48.85	-23.65	49.07	0.14	54.47	115.73
4500.00	0.80	237.24	4498.96	47.76	-24.31	47.99	0.14	53.80	116.86
4600.00	0.39	240.92	4598.96	46.87	-24.85	47.11	0.41	53.26	117.81
4700.00	0.32	224.06	4698.95	46.37	-25.22	46.61	0.13	53.00	118.42
4800.00	0.21	196.79	4798.95	46.12	-25.60	46.36	0.17	52.96	118.91
4900.00	0.21	182.20	4898.95	46.05	-25.96	46.30	0.05	53.08	119.28
5000.00	0.30	193.06	4998.95	45.98	-26.40	46.24	0.10	53.24	119.73
5100.00	0.25	197.52	5098.95	45.85	-26.87	46.11	0.05	53.37	120.23
5200.00	0.28	137.25	5198.95	45.95	-27.26	46.21	0.27	53.65	120.54
5300.00	0.31	136.87	5298.95	46.30	-27.64	46.56	0.02	54.15	120.70
5400.00	0.47	124.98	5398.95	46.81	-28.08	47.09	0.18	54.82	120.81
5500.00	0.43	117.21	5498.94	47.48	-28.48	47.75	0.08	55.60	120.81
5600.00	0.44	119.07	5598.94	48.14	-28.84	48.42	0.02	56.36	120.78
5700.00	0.41	131.53	5698.94	48.74	-29.26	49.02	0.10	57.09	120.83
5800.00	0.40	118.42	5798.94	49.31	-29.67	49.60	0.09	57.80	120.89
5900.00	0.50	138.13	5898.93	49.90	-30.16	50.20	0.18	58.56	121.00
6000.00	0.39	167.82	5998.93	50.26	-30.81	50.56	0.25	59.20	121.36
6090.00	0.46	183.79	6088.93	50.29	-31.46	50.60	0.15	59.58	121.88



Well Name:		MYOX 16 St. COM #7							
Survey:		FINAL SURVEY							
Survey Date:		5/2/2009							
MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.79	112.60	100.00	0.64	-0.27	0.64	0.79	0.69	112.60
200.00	0.69	119.56	199.99	1.79	-0.83	1.80	0.14	1.98	114.70
300.00	0.78	109.06	299.98	2.95	-1.35	2.97	0.16	3.26	114.42
400.00	1.00	119.37	399.97	4.35	-2.00	4.37	0.27	4.80	114.56
500.00	1.35	118.93	499.95	6.13	-2.99	6.16	0.35	6.85	115.92
600.00	1.42	113.74	599.92	8.29	-4.06	8.33	0.14	9.27	116.01
700.00	1.49	121.07	699.89	10.53	-5.24	10.58	0.20	11.81	116.33
800.00	1.66	138.79	799.85	12.58	-7.00	12.65	0.51	14.46	118.95
900.00	1.54	140.91	899.81	14.37	-9.13	14.45	0.13	17.10	122.29
1000.00	1.63	148.07	999.77	15.94	-11.38	16.05	0.21	19.68	125.34
1100.00	1.46	147.90	1099.73	17.35	-13.67	17.48	0.17	22.19	128.02
1200.00	1.54	120.30	1199.70	19.17	-15.42	19.32	0.72	24.72	128.60
1300.00	1.24	127.18	1299.67	21.18	-16.75	21.34	0.34	27.13	128.14
1400.00	0.99	136.63	1399.65	22.62	-18.03	22.79	0.31	29.06	128.35
1500.00	0.88	152.51	1499.64	23.55	-19.34	23.74	0.28	30.62	129.17
1600.00	0.83	142.65	1599.63	24.33	-20.60	24.53	0.16	32.03	130.02
1700.00	0.86	143.14	1699.62	25.21	-21.78	25.42	0.03	33.47	130.58
1800.00	1.17	127.05	1799.60	26.47	-22.99	26.69	0.42	35.22	130.74
1900.00	1.97	108.12	1899.57	28.90	-24.14	29.13	0.94	37.83	129.65
2000.00	1.97	93.38	1999.51	32.24	-24.77	32.48	0.50	40.85	127.34
2100.00	2.37	89.48	2099.43	36.02	-24.86	36.26	0.43	43.97	124.43
2200.00	2.86	87.83	2199.33	40.59	-24.74	40.82	0.49	47.74	121.22
2300.00	3.08	85.20	2299.20	45.76	-24.42	45.99	0.26	52.08	117.97
2400.00	2.23	83.05	2399.09	50.37	-23.96	50.60	0.86	55.99	115.34
2500.00	1.18	70.03	2499.04	53.28	-23.38	53.50	1.11	58.39	113.60
2600.00	0.83	68.43	2599.03	54.92	-22.76	55.15	0.35	59.66	112.42
2700.00	0.58	58.77	2699.02	56.04	-22.23	56.25	0.28	60.49	111.56
2800.00	0.45	62.73	2799.02	56.82	-21.79	57.03	0.13	61.05	110.91
2900.00	0.45	54.96	2899.01	57.49	-21.38	57.70	0.06	61.54	110.33
3000.00	0.26	349.20	2999.01	57.77	-20.93	57.98	0.41	61.64	109.85
3100.00	0.28	317.10	3099.01	57.57	-20.53	57.77	0.15	61.31	109.57
3200.00	0.32	288.87	3199.01	57.14	-20.26	57.34	0.15	60.81	109.46
3300.00	0.34	269.61	3299.01	56.58	-20.17	56.77	0.11	60.25	109.56
3400.00	0.44	266.35	3399.00	55.89	-20.20	56.09	0.11	59.61	109.81
3500.00	0.41	257.58	3499.00	55.15	-20.30	55.35	0.07	58.95	110.14
3600.00	0.47	252.88	3599.00	54.41	-20.50	54.61	0.06	58.33	110.58
3700.00	0.45	268.15	3699.00	53.62	-20.63	53.82	0.12	57.64	110.97
3800.00	0.57	253.42	3798.99	52.75	-20.79	52.95	0.17	56.88	111.43

State of New Mexico
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 88211		2. OGRID Number 14049
4. Property Code 37648		3. API Number 30-015-37033
5. Property Name MYOX 16 STATE COM		6. Well No. 007

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	16	25S	28E	N	660	S	1650	W	EDDY

8. Pool Information

SAN LORENZO BONE SPRING	53600
-------------------------	-------

Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3000
14. Multiple N	15. Proposed Depth 10100	16. Formation Bone Spring	17. Contractor	18. Spud Date
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
Pit: ☐ Liner: Synthetic ☐ mils thick ☐ Clay ☐ Pit Volume: ☐ bbls ☐ Drilling Method: ☐ 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	48	350	350	0
Int1	12.25	9.625	36	2400	550	0
Prod	7.875	5.5	17	10100	800	1900

Casing/Cement Program: Additional Comments

We propose to drill 17 1/2 inch hole to 350 ft with fresh water, run 48 lb H-40 13 3/8 inch csg and set at 350 ft with 350 sx cmt, circ to surface; drl 12 1/4 inch hole to 2400 ft with brine water, run 36 lb J-55 9 5/8 inch csg and set at 2400 ft with 550 sx cmt, circ to surface; drl 7 7/8 inch hole to 10100 ft with cut brine water, run 5 1/2 inch 17 lb N80 csg and set at 10100 ft with 800 sx cmt, 2400'.

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 Analyst

Email Address: production@marbob.com

Date: 3/27/2009

Phone: 505-748-3303

OIL CONSERVATION DIVISION

Approved By: Jacqueta Reeves

Title: District Geologist

Approved Date: 4/3/2009

Expiration Date: 4/3/2011

State of New Mexico

Energy, Minerals and Natural Resources Department

APR 06 2009

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT I

1626 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

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

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name MYOX 16 STATE COM	Well Number 7
OCRID No.	Operator Name MARBOB ENERGY CORPORATION	Elevation 3001'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	16	25-S	28-E		660	SOUTH	1650	WEST	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
0	16	25-S	28-E		660	SOUTH	1650	EAST	EDDY
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

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

DETAIL		GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=409024.7 N X=573765.1 E LAT.=32.124301' N LONG.=104.095055' W BOTTOM HOLE LOCATION Y=409044.2 N X=575795.6 E		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 unleased 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 _____	
SEE DETAIL GRID AZ.=89°26'54' HORIZ. DIST.=2031.1'		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 _____ Signature & Seal of Professional Surveyor _____ Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3230			