

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED

OMB NO 1004-0137

Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5 LEASE DESIGNATION AND SERIAL NO

NMNM-114976

1a Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other		6 INDIAN ALLOTTEE OR TRIBE NAME	
b Type of Completion ☒ New Well ☐ Workover ☐ Deepen ☐ Plug Back ☐ Diff Resvr		7 UNIT AGREEMENT	
2 Name of Operator Marbob Energy Corporations		8 FARM OR LEASE NAME Golden Lane 31 Federal #1	
3 Address P.O. Box 227 Artesia, NM 88211-0227		9 API WELL NO 30-015-35763	
3a Phone No (include area code) 575-748-3303		10 FIELD NAME Golden Lane; Morrow (Gas)	
4 Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 400' FSL & 980' FWL, Unit M (SWSW) At top prod Interval reported below Same At total depth 660' FSL & 1980' FEL, Unit O (SWSE)		11 SEC T. R. M. OR BLOCK AND SURVEY OR AREA 31 T 20S R 30E	
14 Date Spudded 3/6/08		15 Date T D Reached 5/16/08	
16 Date Completed ☐ D & A ☒ Ready to Prod		17 ELEVATIONS (DF, RKB, RT, GR, etc.)* 3405' GR 3423' KB	
18 Total Depth MD 13230' TVD 12733'		19 Plug back T D MD 13180' TVD 12687'	
20 Depth Bridge Plug Set MD		21 Type Electric & other Logs Run (Submit a copy of each) DLL, DSN	
22 Was well cored? ☒ No ☐ Yes (Submit analysis)		23 Was DST run? ☒ No ☐ Yes (Submit report)	
24 Directional Survey? ☐ No ☒ Yes (Submit copy)		25 Casing and Liner Record (Report all strings set in well)	
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28b Production- Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil Bbl	Gas MCF	Water Bbl	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg Press Flwe SI	Csg Press	24 Hr Rate →	Oil Bbl	Gas MCF	Water Bbl	Gas Oil Ratio	Well Status	

28c Production- Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil Bbl	Gas MCF	Water Bbl	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg Press Flwe SI	Csg Press	24 Hr Rate →	Oil Bbl	Gas MCF	Water Bbl	Gas Oil Ratio	Well Status	

29 Disposition of Gas (Sold, used for fuel, vented, etc.)

30 Summary of Porous Zones (include Aquifers)

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31 Formation (Log) Markers

Formation	Top	Bottom	Descriptions Contents, Etc	Name	Top Measured Depth
				Rustler	357'
				Top of Salt	447'
				Bottom of Salt	1580'
				Yates	1663'
				Seven Rivers	1940'
				Capitan	2055'
				Delaware	3745'
				Bone Spring	6540'
				Wolfcamp	10290'
				Strawn	11550'
				Atoka	11476'
				Morrow	12732'
					TD 13230'

32. Additional remarks (include plugging procedure)

33. Indicate which items have been attached by placing a check in the appropriate boxes:

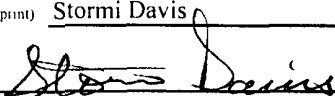
- ☒ Electrical/ Mechanical Logs (1 full set required)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☒ Other

34 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Stormi Davis

Title Production Assistant

Signature



Date 8/7/08

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Marbob

Golden Lane 31 Federal #1

Golden Lane 31 Federal #1

Golden Lane 31 Federal #1

Original Hole

Survey: MWD

Pathfinder Standard X & Y Report

20 May, 2008



Azimuths to Grid North
True North: -0.17°
Magnetic North: 8.02°

Magnetic Field
Strength: 49092.6snT
Dip Angle: 60.48°
Date: 3/24/2008
Model: IGRF200510



Project: Golden Lane 31 Federal #1
Site: Golden Lane 31 Federal #1
Well: Golden Lane 31 Federal #1
Wellbore: Original Hole
Plan: Plan #6 (Golden Lane 31 Federal #1/Original Hole)

EOW

WELL DETAILS Golden Lane 31 Federal #1

Ground Elevation: 3405.00
RKB Elevation: EST RKB @ 3421.00ft
Rig Name:

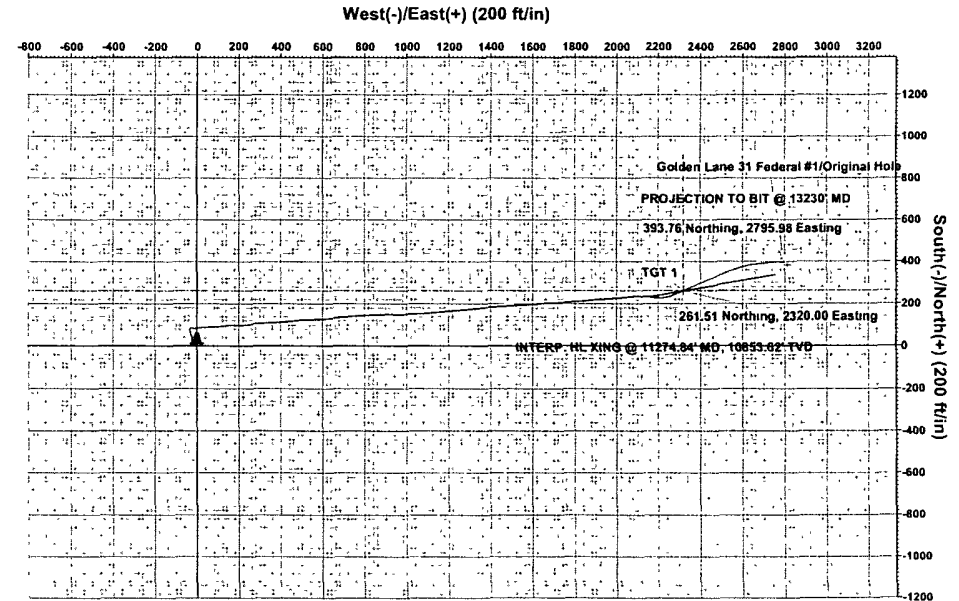
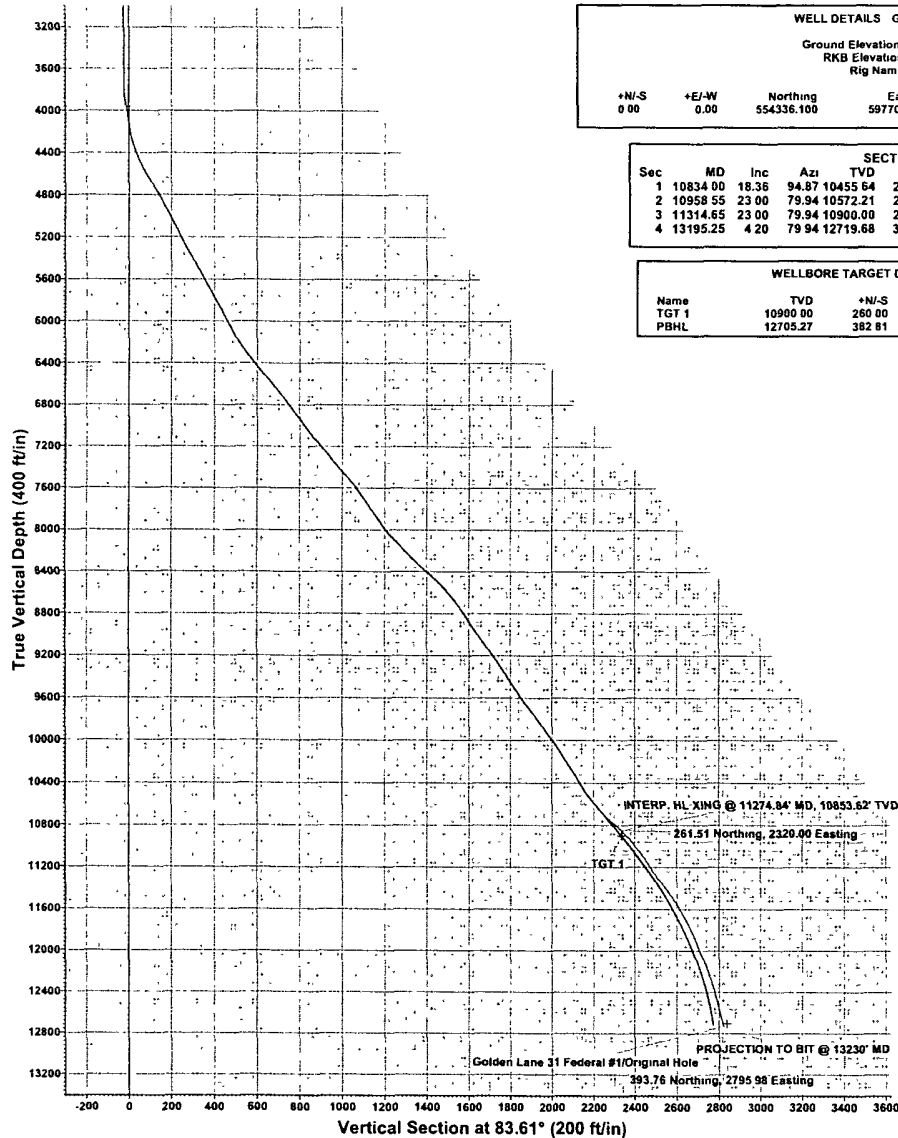
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	554336.100	597701.600	32° 31' 24.888 N	104° 0' 58.852 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	10834.00	18.36	94.87	10455.64	233.10	2139.42	0.00	0.00	2152.07	
2	10958.55	23.00	79.94	10572.21	235.69	2162.98	5.62	-55.78	2195.65	
3	11314.65	23.00	79.94	10900.00	260.00	2320.00	0.00	0.00	2334.52	TGT 1
4	13195.25	4.20	79.94	12719.68	336.90	2753.47	1.00	180.00	2773.86	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
TGT 1	10900.00	260.00	2320.00	554596.100	600021.600	Point
PBHL	12705.27	382.81	2813.02	554718.910	600514.620	Point



PROJECT DETAILS: Golden Lane 31 Federal #1
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid

Plan: Plan #6 (Golden Lane 31 Federal #1/Original Hole)
Created By: Mark Freeman Date: 8/57, May 20 2008
Checked: _____ Date: _____

WHS

Pathfinder Standard X & Y Report

Company: Marbob Project: Golden Lane 31 Federal #1 Site: Golden Lane 31 Federal #1 Well: Golden Lane 31 Federal #1 Wellbore: Original Hole Design: Original Hole	Local Co-ordinate Reference: Well Golden Lane 31 Federal #1 TVD Reference: EST RKB @ 3421.00ft MD Reference: EST RKB @ 3421.00ft North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM 2003.16 Single User Db
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Project: Golden Lane 31 Federal #1	
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: Golden Lane 31 Federal #1			
Site Position:		Northing:	554,336.100 ft
From:	Map	Easting:	597,701.600 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 31' 24.888 N
		Longitude:	104° 0' 58.852 W
		Grid Convergence:	0.17 °

Well: Golden Lane 31 Federal #1			
Well Position	+N/-S	0.00 ft	Northing: 554,336.100 ft
	+E/-W	0.00 ft	Easting: 597,701.600 ft
Position Uncertainty		0.00 ft	Wellhead Elevation: ft
			Latitude: 32° 31' 24.888 N
			Longitude: 104° 0' 58.852 W
			Ground Level: 3,405.00 ft

Wellbore: Original Hole					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	3/24/2008	8.19	60.48	49,093

Design: Original Hole					
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	83.61	

WHS

Pathfinder Standard X & Y Report

Company:	Marbob	Local Co-ordinate Reference:	Well Golden Lane 31 Federal #1
Project:	Golden Lane 31 Federal #1	TVD Reference:	EST RKB @ 3421.00ft
Site:	Golden Lane 31 Federal #1	MD Reference:	EST RKB @ 3421.00ft
Well:	Golden Lane 31 Federal #1	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 2003.16 Single User Db

Survey Program		Date 5/20/2008			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	3,790.00	Gyro Survey (Original Hole)	CB-GYRO-MS	Camera based gyro multishot	
3,886.00	13,230.00	MWD (Original Hole)	MWD	MWD - Standard	

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	TFace (°)
3,790.00	0.66	31.43	3,788.38	367.38	85.24	-31.37	-21.68	0.00	0.00
3,886.00	4.66	86.71	3,884.27	463.27	85.93	-27.18	-17.45	4.50	62.48
3,981.00	3.96	99.42	3,979.00	558.00	85.62	-20.09	-10.44	1.24	132.46
4,076.00	4.22	88.41	4,073.76	652.76	85.18	-13.36	-3.80	0.87	-77.22
4,172.00	4.57	90.28	4,169.48	748.48	85.26	-6.01	3.52	0.39	23.20
4,267.00	6.95	77.65	4,263.99	842.99	86.47	3.39	13.00	2.82	-34.42
4,362.00	9.58	85.65	4,358.00	937.00	88.30	16.89	26.62	3.02	27.61
4,458.00	13.45	88.85	4,452.05	1,031.05	89.13	36.03	45.72	4.08	10.95
4,553.00	15.04	86.74	4,544.13	1,123.13	90.05	59.38	69.04	1.76	-19.11
4,648.00	16.00	86.73	4,635.66	1,214.66	91.50	84.76	94.42	1.01	-0.16
4,744.00	16.97	83.10	4,727.72	1,306.72	93.93	111.88	121.64	1.47	-48.47
4,839.00	15.12	80.43	4,819.02	1,398.02	97.66	137.86	147.88	2.10	-159.53
4,934.00	14.42	91.40	4,910.90	1,489.90	99.43	161.91	171.97	3.03	109.32
5,030.00	15.04	90.16	5,003.74	1,582.74	99.11	186.32	196.19	0.72	-27.56
5,125.00	14.25	87.76	5,095.65	1,674.65	99.53	210.33	220.10	1.05	-143.63
5,221.00	14.60	86.39	5,188.63	1,767.63	100.75	234.21	243.97	0.51	-44.94
5,316.00	14.60	80.85	5,280.56	1,859.56	103.41	257.98	267.89	1.47	-92.68
5,411.00	14.86	84.80	5,372.44	1,951.44	106.42	281.93	292.02	1.09	77.40
5,506.00	15.56	87.46	5,464.12	2,043.12	108.09	306.79	316.92	1.04	46.20
5,602.00	15.30	85.67	5,556.66	2,135.66	109.61	332.29	342.42	0.57	-119.49
5,697.00	15.04	86.02	5,648.35	2,227.35	111.41	357.08	367.26	0.29	160.76

WHS
Pathfinder Standard X & Y Report

Company:	Marbob	Local Co-ordinate Reference:	Well Golden Lane 31 Federal #1
Project:	Golden Lane 31 Federal #1	TVD Reference:	EST RKB @ 3421.00ft
Site:	Golden Lane 31 Federal #1	MD Reference:	EST RKB @ 3421.00ft
Well:	Golden Lane 31 Federal #1	North Reference:	Gnd
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 2003.16 Single User Db

Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	TFace (°)	
5,793.00	16.18	87.39	5,740.80	2,319.80	112.89	382.87	393.06	1.25	18.58	
5,888.00	14.68	85.15	5,832.38	2,411.38	114.51	408.09	418.30	1.70	-159.41	
5,983.00	14.86	83.23	5,924.24	2,503.24	116.96	432.18	442.51	0.55	-70.74	
6,079.00	14.33	82.90	6,017.14	2,596.14	119.88	456.19	466.70	0.56	-171.24	
6,174.00	13.89	85.51	6,109.28	2,688.28	122.23	479.23	489.85	0.81	125.93	
6,269.00	16.97	88.19	6,200.84	2,779.84	123.56	504.46	515.08	3.33	14.33	
6,365.00	21.72	87.34	6,291.40	2,870.40	124.83	536.22	546.79	4.96	-3.79	
6,460.00	20.84	87.03	6,379.92	2,958.92	126.52	570.66	581.20	0.93	-172.86	
6,555.00	22.07	86.12	6,468.33	3,047.33	128.60	605.34	615.90	1.34	-15.57	
6,652.00	23.57	84.20	6,557.74	3,136.74	131.79	642.82	653.50	1.73	-27.29	
6,746.00	22.16	84.20	6,644.35	3,223.35	135.49	679.16	690.02	1.50	180.00	
6,841.00	21.63	84.71	6,732.50	3,311.50	138.91	714.42	725.44	0.59	160.50	
6,937.00	20.31	85.16	6,822.14	3,401.14	141.95	748.64	759.79	1.39	173.25	
7,032.00	18.55	85.94	6,911.73	3,490.73	144.41	780.14	791.37	1.87	171.98	
7,127.00	19.79	86.72	7,001.46	3,580.46	146.40	811.28	822.53	1.33	12.04	
7,223.00	21.02	87.44	7,091.43	3,670.43	148.10	844.70	855.94	1.31	11.87	
7,318.00	22.25	88.36	7,179.74	3,758.74	149.37	879.70	890.86	1.34	15.85	
7,413.00	22.95	89.29	7,267.44	3,846.44	150.12	916.20	927.22	0.83	27.48	
7,521.00	23.04	91.22	7,366.86	3,945.86	149.93	958.39	969.12	0.70	84.08	
7,617.00	23.48	87.66	7,455.06	4,034.06	150.31	996.28	1,006.82	1.53	-74.26	
7,712.00	22.42	87.60	7,542.54	4,121.54	151.84	1,033.29	1,043.77	1.12	-178.76	
7,807.00	19.52	87.99	7,631.24	4,210.24	153.16	1,067.26	1,077.67	3.06	177.43	
7,903.00	18.91	85.65	7,721.89	4,300.89	154.90	1,098.80	1,109.21	1.02	-129.48	
7,998.00	18.64	84.83	7,811.84	4,390.84	157.44	1,129.27	1,139.78	0.40	-136.04	
8,093.00	18.64	83.61	7,901.86	4,480.86	160.49	1,159.48	1,170.14	0.41	-90.58	
8,188.00	20.22	83.02	7,991.44	4,570.44	164.18	1,190.86	1,201.74	1.68	-7.36	
8,284.00	24.62	86.04	8,080.17	4,659.17	167.58	1,227.30	1,238.32	4.74	16.07	

WHS

Pathfinder Standard X & Y Report

Company:	Marbob	Local Co-ordinate Reference:	Well Golden Lane 31 Federal #1
Project:	Golden Lane 31 Federal #1	TVD Reference:	EST RKB @ 3421.00ft
Site:	Golden Lane 31 Federal #1	MD Reference:	EST RKB @ 3421.00ft
Well:	Golden Lane 31 Federal #1	North Reference:	Grid
Wellbore Design:	Original Hole	Survey Calculation Method:	Minimum Curvature
		Database:	EDM 2003.16 Single User Db

Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	DLeg (°/100ft)	TFace (°)	
8,379.00	24.71	84.24	8,166.50	4,745.50	170.94	1,266.80	1,277.95	0.80	-83.99	
8,474.00	26.90	84.49	8,252.02	4,831.02	174.99	1,307.95	1,319.30	2.31	2.96	
8,570.00	28.67	84.30	8,336.95	4,915.95	179.37	1,352.48	1,364.04	1.85	-2.95	
8,665.00	28.81	85.37	8,420.25	4,999.25	183.48	1,397.97	1,409.71	0.56	75.25	
8,760.00	27.44	86.85	8,504.03	5,083.03	186.53	1,442.65	1,454.45	1.62	153.66	
8,864.00	23.04	86.53	8,598.08	5,177.08	189.08	1,486.91	1,498.72	4.23	-178.37	
8,960.00	22.07	86.40	8,686.73	5,265.73	191.35	1,523.66	1,535.49	1.01	-177.12	
9,055.00	18.75	85.85	8,775.76	5,354.76	193.57	1,556.71	1,568.59	3.50	-176.95	
9,150.00	16.36	86.58	8,866.33	5,445.33	195.48	1,585.30	1,597.21	2.53	175.08	
9,255.00	20.22	84.33	8,966.00	5,545.00	198.15	1,618.13	1,630.13	3.74	-11.44	
9,350.00	19.79	84.07	9,055.27	5,634.27	201.44	1,650.47	1,662.63	0.46	-168.44	
9,445.00	19.87	87.78	9,144.64	5,723.64	203.72	1,682.60	1,694.82	1.33	88.11	
9,541.00	19.35	88.24	9,235.07	5,814.07	204.84	1,714.80	1,726.94	0.57	163.68	
9,636.00	18.91	84.55	9,324.83	5,903.83	206.79	1,745.85	1,758.02	1.35	-111.73	
9,731.00	17.94	86.39	9,414.96	5,993.96	209.17	1,775.78	1,788.03	1.19	149.93	
9,826.00	19.35	86.93	9,504.97	6,083.97	210.94	1,806.10	1,818.35	1.50	7.24	
9,921.00	19.70	87.41	9,594.51	6,173.51	212.50	1,837.81	1,850.04	0.41	24.85	
10,012.00	21.81	82.89	9,679.60	6,258.60	215.29	1,869.91	1,882.26	2.91	-39.33	
10,107.00	21.10	84.58	9,768.02	6,347.02	219.09	1,904.45	1,917.00	0.99	139.74	
10,202.00	19.43	86.67	9,857.14	6,436.14	221.62	1,937.25	1,949.88	1.92	157.54	
10,298.00	20.22	86.14	9,947.45	6,526.45	223.67	1,969.74	1,982.40	0.84	-13.07	
10,424.00	18.99	83.62	10,066.14	6,645.14	227.41	2,011.84	2,024.65	1.18	-146.68	
10,519.00	19.08	85.02	10,155.95	6,734.95	230.48	2,042.67	2,055.63	0.49	79.51	
10,613.00	18.55	85.15	10,244.93	6,823.93	233.07	2,072.88	2,085.94	0.57	175.54	
10,708.00	17.24	89.91	10,335.33	6,914.33	234.37	2,102.02	2,115.04	2.07	134.10	
10,803.00	17.06	92.72	10,426.11	7,005.11	233.73	2,130.01	2,142.79	0.89	103.60	
10,898.00	21.10	98.49	10,515.88	7,094.88	230.55	2,160.86	2,173.10	4.69	27.78	

WHS

Pathfinder Standard X & Y Report

Company:	Marbob	Local Co-ordinate Reference:	Well Golden Lane 31 Federal #1
Project:	Golden Lane 31 Federal #1	TVD Reference:	EST RKB @ 3421.00ft
Site:	Golden Lane 31 Federal #1	MD Reference:	EST RKB @ 3421.00ft
Well:	Golden Lane 31 Federal #1	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 2003.16 Single User Db

Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (%/100ft)	TFace (°)	
10,995.00	21.81	92.94	10,606.17	7,185.17	227.04	2,196.13	2,207.75	2.22	-73.32	
11,090.00	27.52	80.36	10,692.53	7,271.53	229.82	2,235.45	2,247.14	8.14	-48.45	
11,186.00	30.51	66.43	10,776.56	7,355.56	243.30	2,279.71	2,292.63	7.68	-72.34	
11,280.00	29.11	64.80	10,858.13	7,437.13	262.57	2,322.28	2,337.07	1.72	-150.64	
11,375.00	25.24	65.69	10,942.62	7,521.62	280.76	2,361.66	2,378.23	4.10	174.40	
11,471.00	22.86	67.39	11,030.28	7,609.28	296.36	2,397.53	2,415.62	2.58	164.54	
11,566.00	18.47	68.28	11,119.15	7,698.15	309.03	2,428.56	2,447.87	4.63	176.32	
11,661.00	17.59	68.06	11,209.48	7,788.48	319.96	2,455.86	2,476.21	0.93	-175.68	
11,756.00	22.25	67.80	11,298.78	7,877.78	332.12	2,485.84	2,507.36	4.91	-1.21	
11,852.00	21.37	68.67	11,387.90	7,966.90	345.35	2,518.96	2,541.75	0.98	160.23	
11,947.00	20.05	68.75	11,476.76	8,055.76	357.55	2,550.26	2,574.21	1.39	178.81	
12,074.00	16.53	73.56	11,597.34	8,176.34	370.56	2,587.90	2,613.06	3.01	159.06	
12,274.00	13.28	80.37	11,790.59	8,369.59	382.46	2,637.85	2,664.03	1.84	154.94	
12,472.00	11.70	83.89	11,983.91	8,562.91	388.40	2,680.24	2,706.81	0.89	155.99	
12,663.00	10.29	82.80	12,171.40	8,750.40	392.60	2,716.42	2,743.24	0.75	-172.15	
12,803.00	8.97	84.99	12,309.42	8,888.42	395.12	2,739.70	2,766.65	0.98	165.57	
12,993.00	7.56	89.83	12,497.44	9,076.44	396.45	2,766.95	2,793.89	0.83	156.12	
13,184.00	6.77	99.40	12,686.96	9,265.96	394.65	2,790.63	2,817.21	0.75	128.18	
13,230.00	6.77	99.40	12,732.64	9,311.64	393.76	2,795.98	2,822.43	0.00	0.00	

WHS

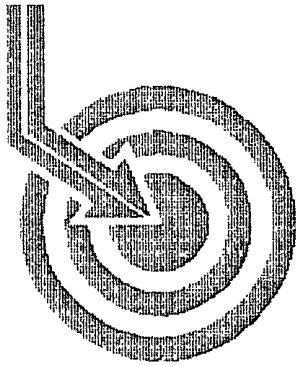
Pathfinder Standard X & Y Report

Company:	Marbob	Local Co-ordinate Reference:	Well Golden Lane 31 Federal #1
Project:	Golden Lane 31 Federal #1	TVD Reference:	EST RKB @ 3421.00ft
Site:	Golden Lane 31 Federal #1	MD Reference:	EST RKB @ 3421.00ft
Well:	Golden Lane 31 Federal #1	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 2003.16 Single User Db

Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	Longitude
PBHL		0.00	0.00	12,705.27	382.81	2,813.02	554,718.910	600,514.620	32° 31' 28.592 N
	- survey misses by 31.26ft at 13184.00ft MD (12686.96 TVD, 394.65 N, 2790.63 E)								104° 0' 25.983 W
	- Point								
TGT 1		0.00	0.00	10,900.00	260.00	2,320.00	554,596.100	600,021.600	32° 31' 27.391 N
	- survey misses by 22.72ft at 11315.82ft MD (10889.64 TVD, 269.78 N, 2337.70 E)								104° 0' 31.745 W
	- Point								

Survey Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
11,274.84	10,853.62	261.51	2,320.00	INTERP. HL XING @ 11274.84' MD, 10853.62' TVD
11,274.84	10,853.62	261.51	2,320.00	261.51 Northing, 2320.00 Easting
13,230.00	12,732.64	393.76	2,795.98	PROJECTION TO BIT @ 13230' MD
13,230.00	12,732.64	393.76	2,795.98	393.76 Northing, 2795.98 Easting

Checked By: _____	Approved By: _____	Date: _____
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Scientific Drilling

MARBOB ENERGY

Field: Golden Lane
Site: Eddy County, NM
Well: Golden Lane Federal 31 #1
Wellpath: VH - Job #32K0308190
Survey: 03/23/08

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

.....*R. Wharton*..... Company Representative

Notorized this date 17th of April, 2008.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: MARBOB ENERGY	Date: 04/16/2008	Time: 12:30:33	Page: 1
Field: Golden Lane	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE: 0.0	
Well: Golden Lane Federal 31 #1	Section (VS) Reference:	Well: (0.00N,0.00E,339.80Azi)	
Wellpath: VH - Job #32K0308190	Survey Calculation Method:	Db: Sybase	

Survey: 03/23/08	Start Date: 03/23/2008
Company: Scientific Drilling Internatio	Engineer: Melendez w/GeoGyro
Tool: Keeper;Keeper Gyro	Tied-to: From Surface

Survey

MD ft	Incl deg	Azlm deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	359.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.56	281.15	100.00	0.25	0.09	-0.48	0.56	0.49	281.15
200.00	1.81	295.23	199.98	1.63	0.86	-2.39	1.27	2.54	289.86
300.00	2.40	300.21	299.91	4.37	2.59	-5.63	0.62	6.19	294.71
400.00	2.54	299.02	399.81	7.66	4.72	-9.37	0.15	10.49	296.72
500.00	2.57	304.30	499.72	11.17	7.06	-13.16	0.24	14.93	298.19
600.00	2.32	314.39	599.62	14.82	9.74	-16.46	0.50	19.12	300.60
700.00	2.32	324.07	699.54	18.60	12.79	-19.10	0.39	22.98	303.81
800.00	2.34	334.99	799.46	22.58	16.28	-21.15	0.44	26.69	307.59
900.00	2.34	349.20	899.38	26.63	20.13	-22.39	0.58	30.11	311.96
1000.00	2.58	352.60	999.29	30.84	24.37	-23.06	0.28	33.55	316.58
1100.00	2.65	354.29	1099.18	35.27	28.90	-23.58	0.10	37.30	320.79
1200.00	2.68	357.82	1199.07	39.73	33.54	-23.90	0.17	41.19	324.52
1300.00	2.67	357.95	1298.96	44.17	38.20	-24.07	0.01	45.16	327.78
1400.00	2.42	1.64	1398.87	48.34	42.64	-24.10	0.30	48.98	330.53
1500.00	1.71	347.89	1498.80	51.78	46.21	-24.35	0.86	52.23	332.21
1600.00	1.21	327.31	1598.77	54.29	48.56	-25.23	0.72	54.72	332.54
1700.00	1.07	321.38	1698.75	56.20	50.18	-26.39	0.18	56.69	332.26
1800.00	0.87	323.52	1798.73	57.82	51.52	-27.42	0.20	58.36	331.98
1900.00	0.71	313.09	1898.73	59.10	52.55	-28.32	0.21	59.70	331.68
2000.00	0.73	321.49	1998.72	60.26	53.47	-29.17	0.11	60.91	331.38
2100.00	0.93	333.03	2098.71	61.67	54.69	-29.94	0.26	62.35	331.30
2200.00	1.40	1.07	2198.69	63.61	56.64	-30.28	0.73	64.23	331.87
2300.00	1.56	0.79	2298.65	66.02	59.22	-30.24	0.16	66.50	332.95
2400.00	1.48	3.41	2398.62	68.48	61.87	-30.15	0.11	68.83	334.02
2500.00	1.37	351.18	2498.59	70.83	64.34	-30.25	0.32	71.10	334.82
2600.00	1.28	342.49	2598.56	73.12	66.59	-30.77	0.22	73.35	335.20
2700.00	1.40	341.73	2698.53	75.46	68.81	-31.49	0.12	75.68	335.41
2800.00	1.30	342.54	2798.51	77.81	71.06	-32.21	0.10	78.02	335.61
2900.00	1.22	346.77	2898.48	80.00	73.17	-32.80	0.12	80.19	335.86
3000.00	1.06	347.71	2998.46	81.97	75.11	-33.24	0.16	82.14	336.13
3100.00	1.05	346.64	3098.44	83.80	76.91	-33.65	0.02	83.95	336.37
3200.00	0.94	5.91	3198.43	85.44	78.62	-33.78	0.35	85.56	336.75
3300.00	0.90	7.26	3298.42	86.88	80.21	-33.59	0.05	86.96	337.28
3400.00	0.80	8.93	3398.41	88.18	81.68	-33.38	0.10	88.24	337.77
3500.00	0.63	20.94	3498.40	89.21	82.88	-33.08	0.23	89.24	338.24
3600.00	0.59	44.89	3598.39	89.84	83.76	-32.52	0.26	89.85	338.78
3700.00	0.51	37.93	3698.39	90.29	84.48	-31.88	0.10	90.29	339.32
3790.00	0.66	31.43	3788.38	90.82	85.24	-31.37	0.18	90.82	339.80



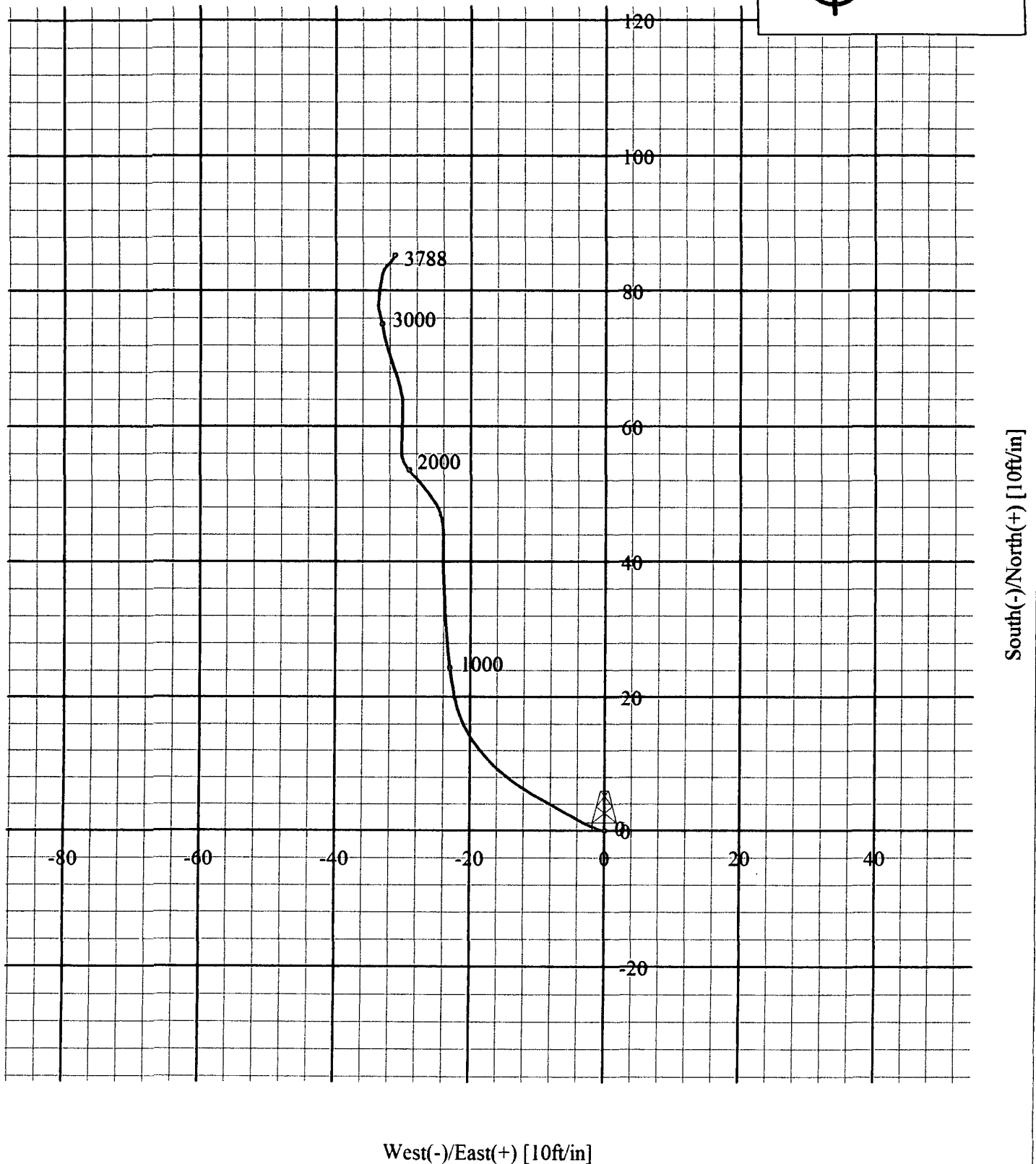
Scientific
Drilling

Field: Golden Lane
Site: Eddy County, NM
Well: Golden Lane Federal 31 #1
Wellpath: VH - Job #32K0308190
Survey: 03/23/08



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

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 04/16/2008
Model: igrf2000



DIRECTIONAL SURVEY REPORT

MARBOB ENERGY

GOLDEN LANE 31 FED #1

EDDY COUNTY, NEW MEXICO

PREPARED BY: CODY MEBANE



DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) JOHN PATTERSON
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 3/23/08 TO 5/17/08
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.
GOLDEN LANE 31 FED #1
EDDY COUNTY, NM
RIG: PATRIOT #2
9. SURVEY CERTIFIED FROM: 3886 TO 13184 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 2823.56 FEET ON A BEARING OF 81.98 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 13230 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

A handwritten signature in black ink, appearing to read "Cody Mebane", is written over a horizontal line.

CODY MEBANE
M/LWD SERVICE COORDINATOR

PatnFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 03/23/2008
Date Completed: 05/17/2008

MARBOB ENERGY
GOLDEN LANE 31 FED 1
EDDY COUNTY, NEW MEXICO
Rig: PATRIOT #2
PathFinder Office Supervisor: F SINISTERRA
PathFinder Field Engineers: J PATTERSON

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.31.24.8880 N LON: 104.0.58.8528 W
GRID Reference: NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 597701.5128 Y: 554336.1454
North Aligned To: GRID NORTH
Total Magnetic Correction: 8.02° EAST TO GRID
Vertical Section Plane: 83.61
Survey Vert. Reference: 15.50' Kelly Bushing To Ground
Altitude: 3405.00' Ground To MSL

Measured Depth	13230.00	(feet)
Inclination	6.77	(deg)
Azimuth	99.40	(deg)
True Vertical Depth	12732.63	(feet)
Vertical Section	2822.43	(feet)
Survey X cord	600497.48	(feet)
Survey Y cord	554729.91	(feet)
Survey Lat	32.52463921 N	(deg)
Survey Lon	104.00727289 W	(deg)
Rectangular Corr. N/S	393.77 N	(feet)
Rectangular Corr. E/W	2795.97 E	(feet)
Closure Distance	2823.56	(feet)
Direction of Closure	81.98	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY

GOLDEN LANE 31 FED 1

EDDY COUNTY, NEW MEXICO

Rig: PATRIOT #2

PathFinder Office Supervisor: F SINISTERRA

PathFinder Field Engineers: J PATTERSON

Survey Horiz. Reference: WELLHEAD

Ref Coordinates: LAT: 32.31.24.8880 N LON: 104.0.58.8528 W

Reference: NAD27 new mexico east Transverse Mercator

Ref GRID Coord: X: 597701.5128 Y: 554336.1454

North Aligned To: GRID NORTH

Total Magnetic Correction: 8.02° EAST TO GRID

Vertical Section Plane: 83.61

Survey Vert. Reference: 15.50' Kelly Bushing To Ground

Altitude: 3405.00' Ground To MSL

Survey Calculations by PathCalc v1.97 using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	TOTAL Rectangular Offsets (ft) (ft)		Vertical Section (ft)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	Course Length (ft)	Subsea Depth (ft)
TIE IN SURVEY PROVIDED BY SCIENTIFIC AT 3790' MD.											
3790.00	0.66	31.43	3788.38	85.24 N	31.37 W	-21.69	90.83@	339.80	0.00	0.00	3772.88
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.											
3886.00	4.66	86.71	3884.26	85.94 N	27.19 W	-17.45	90.13@	342.44	4.50	96.00	3868.76
3981.00	3.96	99.42	3979.00	85.62 N	20.10 W	-10.44	87.95@	346.79	1.24	95.00	3963.50
4076.00	4.22	88.41	4073.76	85.18 N	13.37 W	-3.80	86.22@	351.08	0.87	95.00	4058.26
4172.00	4.57	90.28	4169.47	85.26 N	6.01 W	3.51	85.47@	355.97	0.39	96.00	4153.97
4267.00	6.95	77.65	4263.99	86.47 N	3.39 E	12.99	86.54@	2.24	2.82	95.00	4248.49
4362.00	9.58	85.65	4358.00	88.30 N	16.89 E	26.61	89.90@	10.83	3.02	95.00	4342.50
4458.00	13.45	88.85	4452.05	89.13 N	36.02 E	45.72	96.14@	22.01	4.08	96.00	4436.55
4553.00	15.04	86.74	4544.13	90.05 N	59.38 E	69.03	107.87@	33.40	1.76	95.00	4528.63
4648.00	16.00	86.73	4635.66	91.50 N	84.76 E	94.41	124.72@	42.81	1.01	95.00	4620.16
4744.00	16.97	83.10	4727.72	93.94 N	111.87 E	121.63	146.08@	49.98	1.47	96.00	4712.22
4839.00	15.12	80.43	4819.01	97.66 N	137.86 E	147.87	168.95@	54.68	2.10	95.00	4803.51
4934.00	14.42	91.40	4910.89	99.44 N	161.91 E	171.97	190.00@	58.44	3.03	95.00	4895.39
5030.00	15.04	90.16	5003.74	99.11 N	186.31 E	196.18	211.03@	61.99	0.72	96.00	4988.24
5125.00	14.25	87.76	5095.65	99.53 N	210.32 E	220.09	232.68@	64.67	1.05	95.00	5080.15
5221.00	14.60	86.39	5188.62	100.76 N	234.20 E	243.96	254.96@	66.72	0.51	96.00	5173.12
5316.00	14.60	80.85	5280.56	103.41 N	257.98 E	267.88	277.93@	68.16	1.47	95.00	5265.06
5411.00	14.86	84.80	5372.44	106.42 N	281.93 E	292.02	301.35@	69.32	1.09	95.00	5356.94
5506.00	15.56	87.46	5464.11	108.09 N	306.79 E	316.91	325.27@	70.59	1.04	95.00	5448.61
5602.00	15.30	85.67	5556.65	109.62 N	332.28 E	342.42	349.90@	71.74	0.57	96.00	5541.15
5697.00	15.04	86.02	5648.34	111.42 N	357.08 E	367.26	374.06@	72.67	0.29	95.00	5632.84
5793.00	16.18	87.39	5740.80	112.89 N	382.87 E	393.05	399.16@	73.57	1.25	96.00	5725.30
5888.00	14.68	85.15	5832.37	114.51 N	408.08 E	418.29	423.85@	74.33	1.70	95.00	5816.87

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY
GOLDEN LANE 31 FED 1
EDDY COUNTY, NEW MEXICO
RIG:PATRIOT #2

Page 02/04

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	TOTAL Rectangular Offsets (ft) (ft)		Vertical Section (ft)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	Course Length (ft)	Subsea Depth (ft)
5983.00	14.86	83.23	5924.24	116.97 N	432.18 E	442.51	447.72@	74.86	0.55	95.00	5908.74
6079.00	14.33	82.90	6017.14	119.89 N	456.19 E	466.70	471.68@	75.28	0.56	96.00	6001.64
6174.00	13.89	85.51	6109.27	122.23 N	479.22 E	489.85	494.57@	75.69	0.81	95.00	6093.77
6269.00	16.97	88.19	6200.84	123.56 N	504.45 E	515.07	519.37@	76.24	3.33	95.00	6185.34
6365.00	21.72	87.34	6291.39	124.83 N	536.22 E	546.78	550.56@	76.90	4.96	96.00	6275.89
6460.00	20.84	87.03	6379.91	126.52 N	570.66 E	581.19	584.51@	77.50	0.93	95.00	6364.41
6555.00	22.07	86.12	6468.33	128.61 N	605.34 E	615.89	618.85@	78.01	1.34	95.00	6452.83
6652.00	23.57	84.20	6557.74	131.80 N	642.82 E	653.49	656.19@	78.41	1.73	97.00	6542.24
6746.00	22.16	84.20	6644.35	135.49 N	679.16 E	690.02	692.54@	78.72	1.50	94.00	6628.85
6841.00	21.63	84.71	6732.50	138.91 N	714.42 E	725.44	727.80@	79.00	0.59	95.00	6717.00
6937.00	20.31	85.16	6822.14	141.95 N	748.64 E	759.78	761.98@	79.26	1.39	96.00	6806.64
7032.00	18.55	85.94	6911.72	144.41 N	780.14 E	791.37	793.39@	79.51	1.87	95.00	6896.22
7127.00	19.79	86.72	7001.45	146.40 N	811.27 E	822.52	824.38@	79.77	1.33	95.00	6985.95
7223.00	21.02	87.44	7091.43	148.10 N	844.70 E	855.93	857.58@	80.06	1.31	96.00	7075.93
7318.00	22.25	88.36	7179.73	149.38 N	879.70 E	890.86	892.29@	80.36	1.34	95.00	7164.23
7413.00	22.95	89.29	7267.44	150.12 N	916.20 E	927.21	928.41@	80.69	0.83	95.00	7251.94
7521.00	23.04	91.22	7366.86	149.93 N	958.38 E	969.11	970.04@	81.11	0.70	108.00	7351.36
7617.00	23.48	87.66	7455.06	150.31 N	996.27 E	1006.81	1007.55@	81.42	1.53	96.00	7439.56
7712.00	22.42	87.60	7542.54	151.85 N	1033.29 E	1043.77	1044.38@	81.64	1.12	95.00	7527.04
7807.00	19.52	87.99	7631.24	153.16 N	1067.25 E	1077.67	1078.19@	81.83	3.06	95.00	7615.74
7903.00	18.91	85.65	7721.89	154.90 N	1098.80 E	1109.21	1109.66@	81.98	1.02	96.00	7706.39
7998.00	18.64	84.83	7811.83	157.44 N	1129.26 E	1139.77	1140.19@	82.06	0.40	95.00	7796.33
8093.00	18.64	83.61	7901.85	160.50 N	1159.47 E	1170.13	1170.53@	82.12	0.41	95.00	7886.35
8188.00	20.22	83.02	7991.44	164.18 N	1190.86 E	1201.73	1202.12@	82.15	1.68	95.00	7975.94
8284.00	24.62	86.04	8080.16	167.58 N	1227.29 E	1238.32	1238.68@	82.22	4.74	96.00	8064.66
8379.00	24.71	84.24	8166.50	170.94 N	1266.79 E	1277.95	1278.27@	82.31	0.80	95.00	8151.00
8474.00	26.90	84.49	8252.02	175.00 N	1307.94 E	1319.29	1319.60@	82.38	2.31	95.00	8236.52
8570.00	28.67	84.30	8336.95	179.37 N	1352.48 E	1364.04	1364.32@	82.45	1.85	96.00	8321.45
8665.00	28.81	85.37	8420.24	183.48 N	1397.97 E	1409.71	1409.96@	82.52	0.56	95.00	8404.74
8760.00	27.44	86.85	8504.03	186.53 N	1442.65 E	1454.44	1454.65@	82.63	1.62	95.00	8488.53

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY
GOLDEN LANE 31 FED 1
EDDY COUNTY, NEW MEXICO
RIG: PATRIOT #2

Page 03/04

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	TOTAL Rectangular Offsets (ft) (ft)		Vertical Section (ft)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	Course Length (ft)	Subsea Depth (ft)
8864.00	23.04	86.53	8598.07	189.08 N	1486.91 E	1498.71	1498.88@	82.75	4.23	104.00	8582.57
8960.00	22.07	86.40	8686.73	191.35 N	1523.66 E	1535.49	1535.63@	82.84	1.01	96.00	8671.23
9055.00	18.75	85.85	8775.75	193.58 N	1556.71 E	1568.58	1568.70@	82.91	3.50	95.00	8760.25
9150.00	16.36	86.58	8866.32	195.48 N	1585.30 E	1597.20	1597.30@	82.97	2.53	95.00	8850.82
9255.00	20.22	84.33	8966.00	198.16 N	1618.13 E	1630.13	1630.22@	83.02	3.74	105.00	8950.50
9350.00	19.79	84.07	9055.27	201.44 N	1650.46 E	1662.63	1662.71@	83.04	0.46	95.00	9039.77
9445.00	19.87	87.78	9144.64	203.73 N	1682.59 E	1694.81	1694.88@	83.10	1.33	95.00	9129.14
9541.00	19.35	88.24	9235.07	204.85 N	1714.79 E	1726.94	1726.98@	83.19	0.57	96.00	9219.57
9636.00	18.91	84.55	9324.83	206.79 N	1745.85 E	1758.02	1758.05@	83.24	1.35	95.00	9309.33
9731.00	17.94	86.39	9414.96	209.18 N	1775.78 E	1788.02	1788.05@	83.28	1.19	95.00	9399.46
9826.00	19.35	86.93	9504.97	210.94 N	1806.09 E	1818.35	1818.37@	83.34	1.50	95.00	9489.47
9921.00	19.70	87.41	9594.51	212.51 N	1837.81 E	1850.04	1850.05@	83.40	0.41	95.00	9579.01
10012.00	21.81	82.89	9679.60	215.29 N	1869.91 E	1882.25	1882.26@	83.43	2.91	91.00	9664.10
10107.00	21.10	84.58	9768.02	219.09 N	1904.44 E	1917.00	1917.01@	83.44	0.99	95.00	9752.52
10202.00	19.43	86.67	9857.14	221.63 N	1937.25 E	1949.88	1949.88@	83.47	1.92	95.00	9841.64
10298.00	20.22	86.14	9947.45	223.67 N	1969.74 E	1982.40	1982.40@	83.52	0.84	96.00	9931.95
10424.00	18.99	83.62	10066.14	227.41 N	2011.84 E	2024.65	2024.65@	83.55	1.18	126.00	10050.64
10519.00	19.08	85.02	10155.95	230.48 N	2042.67 E	2055.63	2055.63@	83.56	0.49	95.00	10140.45
10613.00	18.55	85.15	10244.92	233.08 N	2072.87 E	2085.94	2085.94@	83.58	0.57	94.00	10229.42
10708.00	17.24	89.91	10335.33	234.38 N	2102.01 E	2115.04	2115.04@	83.64	2.07	95.00	10319.83
10803.00	17.06	92.72	10426.11	233.74 N	2130.01 E	2142.79	2142.80@	83.74	0.89	95.00	10410.61
10898.00	21.10	98.49	10515.88	230.55 N	2160.86 E	2173.09	2173.12@	83.91	4.69	95.00	10500.38
10995.00	21.81	92.94	10606.17	227.05 N	2196.13 E	2207.75	2207.83@	84.10	2.22	97.00	10590.67
11090.00	27.52	80.36	10692.52	229.82 N	2235.45 E	2247.14	2247.23@	84.13	8.14	95.00	10677.02
11186.00	30.51	66.43	10776.56	243.30 N	2279.71 E	2292.62	2292.66@	83.91	7.68	96.00	10761.06
11280.00	29.11	64.80	10858.12	262.58 N	2322.27 E	2337.07	2337.07@	83.55	1.72	94.00	10842.62
11375.00	25.24	65.69	10942.62	280.76 N	2361.65 E	2378.23	2378.29@	83.22	4.10	95.00	10927.12
11471.00	22.86	67.39	11030.28	296.36 N	2397.53 E	2415.62	2415.77@	82.95	2.58	96.00	11014.78
11566.00	18.47	68.28	11119.15	309.03 N	2428.56 E	2447.86	2448.14@	82.75	4.63	95.00	11103.65
11661.00	17.59	68.06	11209.48	319.96 N	2455.85 E	2476.21	2476.61@	82.58	0.93	95.00	11193.98

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY
GOLDEN LANE 31 FED 1
EDDY COUNTY, NEW MEXICO
RIG: PATRIOT #2

Page 04/04

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	TOTAL Rectangular Offsets		Vertical Section (ft)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	Course Length (ft)	Subsea Depth (ft)
11756.00	22.25	67.80	11298.77	332.13 N	2485.84 E	2507.36	2507.93@	82.39	4.91	95.00	11283.27
11852.00	21.37	68.67	11387.90	345.36 N	2518.96 E	2541.75	2542.52@	82.19	0.98	96.00	11372.40
11947.00	20.05	68.75	11476.76	357.56 N	2550.26 E	2574.21	2575.20@	82.02	1.39	95.00	11461.26
12074.00	16.53	73.56	11597.33	370.56 N	2587.89 E	2613.06	2614.29@	81.85	3.01	127.00	11581.83
12274.00	13.28	80.37	11790.59	382.46 N	2637.85 E	2664.02	2665.43@	81.75	1.84	200.00	11775.09
12472.00	11.70	83.89	11983.90	388.41 N	2680.23 E	2706.81	2708.23@	81.75	0.89	198.00	11968.40
12663.00	10.29	82.80	12171.39	392.60 N	2716.41 E	2743.23	2744.64@	81.78	0.75	191.00	12155.89
12803.00	8.97	84.99	12309.42	395.13 N	2739.69 E	2766.65	2768.04@	81.79	0.98	140.00	12293.92
12993.00	7.56	89.83	12497.44	396.46 N	2766.95 E	2793.88	2795.21@	81.85	0.83	190.00	12481.94
13184.00	6.77	99.40	12686.95	394.65 N	2790.62 E	2817.21	2818.39@	81.95	0.75	191.00	12671.45
STRAIGHT LINE PROJECTION TO BIT AT 13230' MD.											
13230.00	6.77	99.40	12732.63	393.77 N	2795.97 E	2822.43	2823.56@	81.98	0.00	46.00	12717.13

S C I E N T I F I C D E T A I L I N G C O N T E N T S

KEEFER G FID SURVEY

General Coastal Survey Report I

For

HARBOR

Well Number	:	WELL 1 OF 40 TO 100
Well Location	:	EDDY COUNTY, NEW MEXICO
Job Number	:	570738190
Location Latitude	:	32.523
Survey Date	:	23-SEP-2008
S.D.C. Personnel	:	VICTOR MELENDEZ JR.
Length Units	:	Feet
North Reference	:	GRID North
Grid Correction	:	+0.17 Degrees
Survey Depth Zero	:	RKR
Proposed Direction	:	
Calculation Method	:	Minimum Curvature

Remarks: The CUBRA Survey will be a 1140000000

SCIENTIFIC DRILLING CHARTS

Atlantic Seismic
Inc.
MARROB

Page 1

Well No.: 601 DEE LUFF REF 31 NO.

Date: 75-Feb-1968

Job No.: 33K0308190

BEED

Pressure: 0.00

Depth (Feet) (Feet) (Feet) (Feet) (Feet) (Feet) (Feet) (Feet) (Feet)

0.00	0.00	0.00	0.00	359.83	0.00	0.00	0.00
100.00	100.00	0.13	0.55	361.13	0.10	-0.48	0.04
200.00	199.97	0.86	1.81	395.03	0.86	-2.39	1.27
300.00	299.91	2.59	2.10	301.24	2.59	-6.63	0.42
400.00	399.81	4.72	2.54	299.02	4.72	-8.37	0.15
500.00	499.71	7.04	2.57	304.30	7.04	-13.14	0.24
600.00	599.62	9.73	2.32	314.39	9.73	-18.46	0.50
700.00	699.54	12.78	2.53	324.07	12.78	-19.09	0.39
800.00	799.46	16.28	2.34	334.99	16.28	-21.15	0.44
900.00	899.38	20.13	2.04	349.70	20.13	-22.78	0.58
1000.00	999.28	24.37	2.58	352.60	24.37	-23.06	0.28
1100.00	1099.19	28.90	2.43	354.09	28.90	-23.58	0.10
1200.00	1199.07	33.54	2.68	357.82	33.54	-25.90	0.17
1300.00	1298.94	38.70	2.57	357.45	38.70	-24.07	0.01
1400.00	1398.86	42.64	2.42	1.64	42.64	-24.10	0.30
1500.00	1498.80	46.71	1.71	347.89	46.71	-24.35	0.84
1600.00	1598.77	48.56	1.31	327.31	48.56	-25.23	0.72
1700.00	1698.73	50.18	1.07	321.38	50.18	-26.34	0.18
1800.00	1798.73	51.52	0.87	323.52	51.52	-27.42	0.20
1900.00	1898.72	52.55	0.71	313.02	52.55	-28.37	0.51
2000.00	1998.71	53.47	0.73	321.49	53.47	-29.17	0.11
2100.00	2098.70	54.49	0.93	337.03	54.49	-29.84	0.76
2200.00	2198.68	56.64	1.40	1.07	56.64	-30.28	0.77
2300.00	2298.65	59.21	1.54	0.72	59.21	-30.24	0.14
2400.00	2398.61	61.87	1.48	3.41	61.87	-30.15	0.11
2500.00	2498.58	64.34	1.37	351.18	64.34	-30.75	0.37
2600.00	2598.56	66.59	1.28	347.49	66.59	-30.77	0.22
2700.00	2698.57	68.81	1.13	341.73	68.81	-31.49	0.12
2800.00	2798.50	71.06	1.30	342.54	71.06	-32.27	0.10
2900.00	2898.49	73.17	1.72	346.77	73.17	-33.30	0.12
3000.00	2998.46	75.11	1.06	347.71	75.11	-33.74	0.16
3100.00	3098.44	76.91	1.05	348.04	76.91	-37.65	0.02
3200.00	3198.43	78.60	0.94	3.91	78.62	-33.77	0.35
3300.00	3298.41	80.21	0.90	2.74	80.31	-34.49	0.05
3400.00	3398.40	81.68	0.80	8.93	81.68	-37.38	0.10
3500.00	3498.37	83.88	0.47	33.21	83.68	-31.08	0.73
3600.00	3598.29	83.76	0.89	44.80	83.76	-37.53	0.76
3700.00	3698.30	84.08	0.51	77.81	84.08	-37.98	0.10
3799.00	3798.30	85.24	0.66	31.03	85.21	-41.37	0.13

Direction: 37.25 (25.4 degrees) (Feet) (Feet)

Measured Depth: 3799.00 ft 90.61 in Direction: 339.90 degrees

SCIENTIFIC DRILLING CONTROLS

- 33 -

1990

11. $\text{Fe}^{2+}, \text{Fe}^{3+}, \text{Fe}$

1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002

66611

Frequency = 34 000 000 Hz

Depth (ft.)	Temp. (°C)	Salinity (‰)	Density (σ _t)	Specific Gravity	Sound Velocity (m/sec)	Transmittance (%)	Turbidity (NTU)
0	18.5	35.2	1.0247	1.0247	1495	95	0.5
10	16.2	35.1	1.0245	1.0245	1498	90	0.5
20	14.8	35.0	1.0243	1.0243	1500	85	0.5
30	13.5	34.9	1.0241	1.0241	1502	80	0.5
40	12.2	34.8	1.0239	1.0239	1504	75	0.5
50	11.0	34.7	1.0237	1.0237	1506	70	0.5
60	9.8	34.6	1.0235	1.0235	1508	65	0.5
70	8.5	34.5	1.0233	1.0233	1510	60	0.5
80	7.2	34.4	1.0231	1.0231	1512	55	0.5
90	6.0	34.3	1.0229	1.0229	1514	50	0.5
100	4.8	34.2	1.0227	1.0227	1516	45	0.5

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

OFFICE

MARBOB ENERGY
GOLDEN LANE FEDERAL 31 #1
EDDY COUNTY, NEW MEXICO
Rig: PATRIOT 2

Thu Mar 20 15:55:27 2008

Coordinates

Latitude: 32.523580 N (32 deg. 31 min. 24.8875 sec.)
Longitude: 104.016348 W (-104 deg. 0 min. 58.8518 sec.)
Elevation: 3405.00 feet.
Calculation Date: Mar/20/2008

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.4780 degrees
Total Magnetic Field: 0.49095 gauss
Magnetic Declination: 8.187227 degrees
Horizontal Intensity: 0.241919 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 8.187227 Degr

Transverse Mercator Grid Calculations NAD27

Grid System: Transverse Mercator: new mexico east
Ellipsoid: Clarke 1866
X: 597701.6000 feet
Y: 554336.1000 feet
True to Grid: (convergence) -0.170428 degrees
Magnetic to Grid: 8.016799 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 8.016799 Degr.

OCD-ARTESIA

SECRETARY'S POTASH

ATS-07-473

FORM APPROVED
OMB No 1004-0136
Expires January 31, 2004

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a Type of Work ☒ DRILL ☐ REENTER

AUG 13 2007
OCD-ARTESIA

1b Type of Well ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2 Name of Operator

Marbob Energy Corporation

14049

3a Address

P.O. Box 227, Artesia, NM 88211-0227

3b Phone No (include area code)

505-748-3303

4 Location of Well (Report location clearly and in accordance with any State requirements *)

At surface 400' FSL & 980' FWL

At proposed prod zone BHL: 660' FSL & 1980' FWL

CAPTAN CONTROLLED WATER BASIN

14 Distance in miles and direction from nearest town or post office*

8 Lease Name and Well No
Golden Lane Federal 31 #1

36681

9 API Well No

30-015-35763

10 Field and Pool, or Exploratory

Golden Lane, Morrow (Gas)

11. Sec, T., R., M., or Blk and Survey or Area

Section 31, T20S - R30E

12 County or Parish

Eddy County

13 State

NM

15 Distance from proposed*
location to nearest
property or lease line, ft
(Also to nearest drig unit line, if any)

16 No. of Acres in lease

17 Spacing Unit dedicated to this well

320

18 Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft

19. Proposed Depth

12900

20. BLM/BIA Bond No on file

NMB00412 NM B 000 412

CR 6/01/07

21 Elevations (Show whether DF, KDB, RT, GL, etc.)

3406'

22 Approximate date work will start*

July 1, 2007

23 Estimated duration

45 Days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No 1, shall be attached to this form

- 1 Well plat certified by a registered surveyor
- 2 A Drilling Plan
- 3 A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office)

- 4 Bond to cover the operations unless covered by an existing bond on file (see Item 20 above)
- 5 Operator certification
- 6 Such other site specific information and/or plans as may be required by the authorized officer

25 Signature

Nancy Agnew

Name (Printed Typed)

Nancy Agnew

Date

6/1/07

Title

Land Department

Approved by (Signature)

Rene C. Berkhardt

Name (Printed Typed)

Date

7-23-07

Title

STATE DIRECTOR

Office

NM STATE OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

Conditions of approval, if any, are attached

Title 18 U S C Section 1001 and Title 43 U S C
States any false, fictitious or fraudulent statements

*(Instructions on reverse)

If earthen pits are used in
association with the drilling of this
well, an OCD pit permit must be
obtained prior to pit construction.

APPROVAL FOR TWO YEARS

willfully to make to any department or agency of the United

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED



" NSL- Drill only "

DISTRICT I
1625 N. FRANCH DR., HOBBBS, 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

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number		Pool Code 77560	Pool Name GOLDEN LANE; MORROW (GAS)
Property Code	Property Name GOLDEN LANE 31 FEDERAL		Well Number 1
OGRID No. 14049	Operator Name MARBOB ENERGY CORPORATION		Elevation 3405'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	31	20-S	30-E		400	SOUTH	980	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	31	20-S	30-E		660	SOUTH	1980	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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

LOT 1 LOT 2 GEODETIC COORDINATES NAD 27 NME Y=554336.1 N X=597701.6 E LAT.=32.523580° N LONG.=104.016348° W LOT 3 PROJECT AREA PRODUCING AREA LOT 4 DETAIL 3399.6' 3402.4' 1980' 2200' 3416.9' 3416.9' 3416.9' 3416.9' 980' SEE DETAIL BHL PP	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. <i>Nancy T. Agnew</i> 8/20/07 Signature Date Nancy T. Agnew 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. MAY 15, 2007 Date Surveyed AR Signature & Seal of Professional Surveyor <i>Ronald J. Edson</i> 5/23/07 07.11.0551 Certificate No. GARY EDSON 12641 RONALD J. EDSON 3230



DIRECTIONAL SURVEY REPORT

MARBOB ENERGY

GOLDEN LANE 31 FED #1

EDDY COUNTY, NEW MEXICO

PREPARED BY: CODY MEBANE

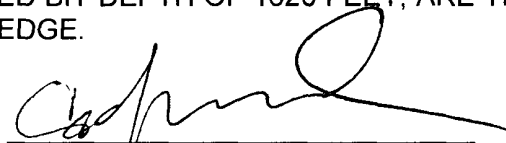
Pathfinder Energy Services, Inc.
6213 W. County Road 112 • Midland, TX • 79706
(432)681-6000

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) JOHN PATTERSON
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 3/12/08 TO 3/15/08
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.
GOLDEN LANE 31 FED #1
EDDY COUNTY, NM
RIG: PATRIOT #2
9. SURVEY CERTIFIED FROM: 1292 TO 1571 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 23.65 FEET ON A BEARING OF 357.13 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 1620 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



CODY MEBANE
M/LWD SERVICE COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 03/12/2008
Date Completed: 03/15/2008

MARBOB ENERGY
GOLDEN LANE FEDERAL 31 #1
EDDY COUNTY, NEW MEXICO
Rig: PATRIOT #2
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers: J PATTERSON

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.31.24.8880 N LON: 104.0.58.8528 W
GRID Reference: NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 597701.5128 Y: 554336.1454
North Aligned To: GRID NORTH
Total Magnetic Correction: 8.02° EAST TO GRID
Vertical Section Plane: 0.00
Survey Vert. Reference: 12.00' Kelly Bushing To Ground
Altitude: 3405.00' Ground To MSL

Measured Depth	1620.00	(feet)
Inclination	1.23	(deg)
Azimuth	324.98	(deg)
True Vertical Depth	1619.53	(feet)
Vertical Section	23.62	(feet)
Survey X cord	597700.33	(feet)
Survey Y cord	554359.77	(feet)
Survey Lat	32.52364494 N	(deg)
Survey Lon	104.01635162 W	(deg)
Rectangular Corr. N/S	23.62 N	(feet)
Rectangular Corr. E/W	1.19 W	(feet)
Closure Distance	23.65	(feet)
Direction of Closure	357.13	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY

GOLDEN LANE FEDERAL 31 #1

EDDY COUNTY, NEW MEXICO

Rig: PATRIOT #2

PathFinder Office Supervisor: FRANCISCO SINISTERRA

PathFinder Field Engineers: J PATTERSON

Survey Horiz. Reference: WELLHEAD

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Reference: NAD27 new mexico east Transverse Mercator

Ref GRID Coord: X: 597701.5128 Y: 554336.1454

North Aligned To: GRID NORTH

Total Magnetic Correction: 8.02° EAST TO GRID

Vertical Section Plane: 0.00

Survey Vert. Reference: 12.00' Kelly Bushing To Ground

Altitude: 3405.00' Ground To MSL

Survey Calculations by PathCalc v1.97 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 IN ASSUMING VERTICAL AT 881' MD.										
881.00	0.00	0.00	881.00	0.00	0.00	0.00	0.00	0.00@ 0.00	0.00	
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
1292.00	3.17	357.57	1291.79	411.00	11.36	11.36 N	0.48 W	11.37@ 357.57	0.77	
1309.00	2.81	356.92	1308.77	17.00	12.24	12.24 N	0.52 W	12.25@ 357.55	2.13	
1341.00	2.55	0.62	1340.73	32.00	13.74	13.74 N	0.56 W	13.75@ 357.67	0.98	
1373.00	2.55	8.41	1372.70	32.00	15.15	15.15 N	0.45 W	15.16@ 358.31	1.08	
1404.00	2.64	1.98	1403.67	31.00	16.55	16.55 N	0.32 W	16.55@ 358.89	0.98	
1436.00	2.90	9.85	1435.63	32.00	18.08	18.08 N	0.16 W	18.08@ 359.50	1.44	
1468.00	2.55	1.08	1467.60	32.00	19.59	19.59 N	0.01 W	19.59@ 359.98	1.70	
1500.00	2.11	351.19	1499.57	32.00	20.89	20.89 N	0.08 W	20.89@ 359.77	1.86	
1532.00	1.58	349.72	1531.55	32.00	21.90	21.90 N	0.25 W	21.90@ 359.34	1.66	
1563.00	1.23	330.65	1562.54	31.00	22.61	22.61 N	0.49 W	22.62@ 358.76	1.87	
1571.00	1.23	324.98	1570.54	8.00	22.76	22.76 N	0.58 W	22.77@ 358.54	1.52	
STRAIGHT LINE PROJECTION TO BIT AT 1620' MD.										
1620.00	1.23	324.98	1619.53	49.00	23.62	23.62 N	1.19 W	23.65@ 357.13	0.00	

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