Submit To Appropriat State Lease - 6 copies	e District Office	ļ	State of New Mexico					Form C-105			
Fee Lease - 5 copies District I		En	ergy, I	Minerals and Na	tural I	Resources	<u></u>	WELL API N	NO		Revised June 10, 2003
1625 N French Dr , H District II	lobbs, NM 88240		0.11		<b>.</b> .	· joint France		WEEL AILI		15-361	<del></del>
1301 W Grand Avenu	ie, Artesia, NM 882	10		Conservation		./ A 10/ W		. Indicate T			
District III 1000 Rio Brazos Rd,	Aztec, NM 87410			20 South St. Fr			4	STAT	E	FE	E , 🛛
District IV 1220 S St Francis Dr	Santa Fe, NM 875	05		Santa Fe, NM	8/503			State Oil & C	Gas Lease	e No.	
			R RECOMPLETION REPORT AND LOG								
la Type of Well	L GAS W	FLI 🖾 DRV		OTHER				7 Lease Name			
b Type of Compl		DEE ZJ DI		OTTEK			<u>-</u> .	COM	MODE H	IUGGE	ER FEE COM
NEW 🛛 W	ORK DEE	PEN D PLU BAC	G □ CK_	DIFF RESVR  OTHI	ER						
2 Name of Operato MARBOB E	or NERGY COR	PORATION		SFP	29	2008		8 Well No		2	
3 Address of Opera	ator							9 Pool name or			
	7, ARTESIA,	NM 88211-0	227	OGU	-AK	Tesia		CARLSBAD	); MORR	ROW, S	OUTH (PRO GAS)
4. Well Location											
Unit Letter	<u>C</u> 9	90 Feet From	The	NORTH		Line and	1	980 F	eet From Tl	he	WESTLine
Section	14	Townsh	*		Range	26E		IMPM		EDD	
10 Date Spudded 5/28/08	11 Date T D R 7/7/0		Date Cor	npl (Ready to Prod ) 9/9/08		13 Elevations (		RKB, RT, GR, 6 97' <b>GR</b>	etc)	14 Elev	Casinghead
15 Total Depth 11770'		Заск Г D 11460'		Multiple Compl How nes?	Many	18 Interv Drilled By	als		70'	Cable	Tools
19 Producing Inter										ectional S	Survey Made
11078-11346	6' MORROW									Y	/ES
21. Type Electric ar DLL, DSN	nd Other Logs Ru	n /						22 Was Well (	Cored	NO	
23.			CAS	SING RECOR			trin				
CASING SIZE	WEIG	GHT LB /FT		DEPTH SET	I	HOLE SIZE		CEMENTIN		.D	AMOUNT PULLED
20" 9 5/8"		94#	<u> </u>	310' 1988'		26" 12 1/4"		750			NONE
7"		36# 23#	8898'		8 3/4"			1100 SX (TO	0 SX	re)	NONE NONE
4 1/2"		11.6#	<u> </u>	11769'		6 1/8"		325 SX (TO			NONE
24.		11.00	LIN	ER RECORD			25.		JBING RE		.,,,,,,
SIZE	TOP	BOTTOM		SACKS CEMENT	SCRE	EN	SIZ		DEPTH S		PACKER SET
26						OID OVICE	L	2 3/8"	110		11000'
26 Perforation re	cord (interval, siz	e, and number)						ACTURE, CEN			
]	11514-11617	- CIBP @ 11	470' (2	0)		H INTERVAL		AMOUNT AN			
11218-11346	, ,	, ,		. 164 SHOTS		1514-11617 1218-11346		ACDZ W/20 ACDZ W/400			
	11073	3-11097' (54)						W/80000# SA			,
					<u></u>						
28		T				CTION		1			
Date First Production		Production Me	thod (Fla	owing, gas lift, pumpin	g - Size	and type pump	)	Well Status (I			D. ( )
9/18/	08			FLOWING					PR	ODUC	ING
Date of Test	Hours Tested	Choke Sızı	:	Prod'n For	O1l - E		Gas	- MCF	Water - B		Gas - Oil Ratio
9/19/08	24			Test Period	Į	0		1036	(	)	
Flow Tubing Press.	Casing Pressure	Calculated Hour Rate	24-	Oıl - Bbl	G.	as - MCF	1	Water - Bbl	Oil C	Gravity - A	API - (Corr)
29 Disposition of C	ias (Sold, used for	fuel, vented, etc	)			·		17	est Witnes	sed By	
SOLD	•								MIKE S		ON
30 List Attachment	s CTION <u>AL</u> SUR	VEY									
31 Thereby certif	y that the inform	nation shown o	n both s	ides of this form as	true an	d complete to	the	best of my know	vledge and	d belief	
Signature	Stan	Donald	Print Nam		AVIS	Title	:	PRODUCTIO	N ASSI	STANT	Date 9 <u>/25/08</u>
,	CDAVICO	MADDODGO	-				•				
E-mail Address	. SDAVIS( <u>a)</u>	MAYROR'CC	7171		_						

## **INSTRUCTIONS**

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeast	ern New Mexico		Northwe	stern New Mexico
T. Anhy	T. Canyon		T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn_	10068'	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka_	10598'	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss		T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian		T. Menefee	T. Madison
T. Queen	T. Silurian		T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya		T. Mancos	T. McCracken
T. San Andres	T. Simpson		T. Gallup	T. Ignacio Otzte
T. Glorieta	T. McKee		Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger		T. Dakota	T
T. Blinebry	T. Gr. Wash		T. Morrison	Т
T.Tubb_	T. Delaware Sand	2297	T.Todilto	T
T. Drinkard	T. Bone Spring	5061'	T. Entrada	T.
T. Abo	T. Capitan	303'	T. Wingate	T.
T. Wolfcamp 8784	' T. Cherry Canyon		T. Chinle	T.
T. Penn	T. Brushy Canyon		T. Permian_	Т.
T. Cisco (Bough C)	T. Morrow_	11213'	T. Penn "A"	T. OH OP CAS

			SANDS OR Z	CONES
No. 1, from	to	No. 3, from	to	
No. 2, from	to	No. 4, from	to	
	IMPORTAN <sup>*</sup>	T WATER SANDS		
Include data on rate of	water inflow and elevation to which wa	ater rose in hole.		
No. 1, from	to	feet		
No. 2, from	to	feet		•
	to			
	LITHOLOGY RECORD			

From	То	Thickness In Feet	Lithology	From	То	Thickness In Feet	Lithology
	-						
	:						



# DIRECTIONAL SURVEY REPORT

# MARBOB ENERGY COMMODE HUGGER FEE COM #2 EDDY COUNTY, NEW MEXICO

PREPARED BY: FRANCISCO SINISTERRA



#### **DIRECTIONAL SURVEY COMPANY REPORT:**

- 1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
- NAME OF PERSON(S) PERFORMING SURVEY:A) J FAULKNER
- 3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
- 4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 6/26/08 TO 7/1/08
- 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. COMMODE HUGGER FEE COM #2 EDDY COUNTY, NM RIG: PATRIOT #2

SURVEY CERTIFIED FROM: 9339 TO 10478 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 23.26 FEET ON A BEARING OF 225.28 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 10603 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

Cody Mebane

M/LWD SERVICE COORDINATOR

Que jula Su

# PathFinder Energy Services, Inc. BHL Report

Page 01/01

Tie-in Date: 06/26/2008

Date Completed: 07/01/2008

EDDY COUNTY, NM Rig:PATRIOT #2 PathFinder Office Supervisor: FRANCISCO SINISTERRA PathFinder Field Engineers:J.M. FAULKNER Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.23.59.5284 N LON:104.15.58.1004 W
3RID Reference:NAD27 new mexico east Transverse Mercator
Ref GRID Coor: X: 520738.9851 Y: 509193.3790

North Aligned To:GRID NORTH

Total Magnetic Correction: 8.22° EAST TO GRID

Vertical Section Plane: 0.00

Survey Vert. Reference: 30.00' Kelly Bushing To Ground Altitude:3197.00' Ground To MSL

Measured Depth	10603.00	(feet)
Inclination	0.26	(deg)
Azimuth	237.28	(deg)
True Vertical Depth	10602.72	(feet)
Vertical Section	-16.37	(feet)
Survey X cord	520722.49	(feet)
Survey Y cord	509177.17	(feet)
Survey Lat	32.39982448 N	(deg)
Survey Lon	104.26619248 W	(deg)
Rectangular Corr. N/S	16.37 S	(feet)
Rectangular Corr. E/W	16.53 W	(feet)
Closure Distance	23.26	(feet)
Direction of Closure	225.28	(deg)
Dogleg Severity	0.03	(deg/100ft)

PathFinder Energy Services, Inc.

**Survey Report** 

EDDY COUNTY, NM Rig:PATRIOT #2

PathFinder Office Supervisor: FRANCISCO SINISTERRA

PathFinder Field Engineers: J.M. FAULKNER

Survey Horiz. Reference:WELLHEAD Ref Coordinates: LAT:32.23.59.5284 N LON:104.15.58.1004 W

Ref GRID Coor: X: 520738.9851 Y: 509193.3790

North Aligned To:GRID NORTH

Total Magnetic Correction: 8.22° EAST TO GRID

Vertical Section Plane: 0.00

Page 01/01

Tie-in Date: 06/26/2008

Date Completed: 07/01/2008

Survey Vert. Reference: 30.00' Kelly Bushing To Ground

Altitude:3197.00' Ground To MSL

Survey Calculations by RX5 V5.11i using Minimum Curvature

Measured Depth	incl	Drift Dir.	TVD	Course Length	Vertical Section		TAL lar Offsets	Clos Dist		DLS
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft) (	deg)	(dg/100ft)
TIED	IN AT A ME	ASURE DE	PTH OF 9239'	MD.						
9239.00	0.00	0.00	9239.00	0.00	0.00	0.00	0.00	0.00@	0.00	0.00
THE	FOLLOWING	G ARE PATH	IFINDER MWI	SURVEYS.						
9339.00	2.99	229.53	9338.95	100.00	-1.69	1.69 S	1.98 W	2.61@	229.53	2.99
9393.00	1.93	218.35	9392.90	54.00	-3.32	3.32 S	3.62 W	4.91@	227.47	2.15
9457.00	0.70	262.51	9456.89	64.00	-4.22	4.22 S	4.68 W		227.96	2.36
9553.00	0.88	248.71	9552.88	96.00	-4.56	4.56 S	5.94 W	_	232.51	0.27
9649.00	0.97	228.28	9648.87	96.00	-5.37	5.37 S	7.24 W		233.43	0.35
9776.00	1.14	226.60	9775.85	127.00	-6.95	6.95 S	8.96 W	11.34@	232.19	0.14
9903.00	1.14	219.32	9902.82	127.00	-8.80	8.80 S	10.68 W	13.83@		0.11
10030.00	1.23	215.75	10029.79	127.00	-10.88	10.88 S	12.27 W	16.40@		0.09
10158.00	1.67	210.26	10157.75	128.00	-13.61	13.61 S	14.02 W	19.54@		0.36
10286.00	0.35	223.81	10285.73	128.00	-15.50	15.50 S	15.23 W	21.73@	224.49	1.04
10478.00	0.26	246.06	10477.73	192.00	-16.10	16.10 S	16.03 W	22.72@		0.08
			N TO BIT @ 1		. 3					
10603.00	0.26	237.28	10602.72	125.00	-16.37	16.37 S	16.53 W	23.26@	225.28	0.03

# FINDER

# ENERGY SERVICES TIE-IN SURVEY INFORMATION SHEET

	<u> </u>	JENT	INFORMA	TION						
CLIENT:			MARBOB ENERGY							
LEASE / WELL No.:		COMM	IODE HUGGER F	EE COM	#2					
WELL LOCATION:				EDDY COUN	ITY, NM					
COUNTY / STATE /	COUNTRY:		EDDY COUNT	Y	NM	USA				
RIG:				PATRIO	Г#2					
API WELL No:				30-015-36	3133					
JOB No:				101007614	WT-WT					
P.O. / AFE No.										
DIRECTIONAL COM	MPANY:		PATHE	INDER ENER	GY SERVICES					
	WEI	LL SIT	E INFORM	IATION						
MAGNETIC DECLI	NATION:									
On Wall Plat:	8.22		LWD Calculated:	8.220701	Agreed Upon:	8.22				
X =	520739.019300	Feet		Y =	509193.540700	Feet				
SITE LATITUDE:	32.399869	N	SITE LO	NGITUDE:	104.26613	39 W				
GRID SYSTEM:	TRUE 🔲 U	TM 🔽	LAMBERT 🔲	ZONE:	NEW MEXIC	O EAST				
PROPOSED DRIFT	DIRECTION:									
KELLY BUSHING E	LEVATION:			30						
ALTITUDE:	3197	Feet	WATER I	DEPTH:		Feet				
MEASURED DEPTH	т.	TIE-	IN SURVE	Y	9239					
DRIFT ANGLE:	I.		0							
DRIFT DIRECTION			0							
TRUE VERTICAL D			0							
VERTICAL SECTIO			0							
RECTANGULAR CO		/S)·	0							
RECTANGULAR CO					0					
CLOSURE DISTAN			0		0					
SURVEY CALCULA			Image: AA □	MC ☑		BT 🗆				
SOURCE OF TIE-IN	<del> </del>				ENERGY SERVI					
COPY OF TIE-IN SU				<b>☑</b> YES		□ NO				
		W	ELL PLAN							
KICKOFF DEPTH:			N/A	TOTAL DE	PTH:	N/A				
KICKOFF ANGLE:			N/A	MAX ANO		N/A				
						<del></del>				
PES Engineers:	J.m	Faulkne	r	**Signature of bo	oth field engineers required	if applicable				
Directional Driller:	Waln	人大		•	DATE:	26-Jun-200				

# PathFinder Energy Services, Inc. Magnetic & Grid Calculations

MARBOB ENERGY COMMODE HUGGER FEE COM # 2 EDDY COUNTY, NEW MEXICO Rig:PATRIOT 2

Thu Jun 26 10:14:03 2008

## **Coordinates**

Latitude:

32.399869 N (32 deg. 23 min. 59.5300 sec.)

Longitude:

104.266139 W (-104 deg. 15 min. 58.1000 sec.)

Elevation:

3197.00 feet.

Calculation Date:

Jun/26/2008

# **Magnetic Calculations**

Model:

**IGRF2005** 

Dip Angle:

60.3115 degrees

**Total Magnetic Field:** 

0.48966 gauss

**Magnetic Declination:** 

8.256705 degrees

Horizontal Intensity:

0.242522 gauss

To Convert a Magnetic Dir. to a TRUE North Dir. Add 8.256705 Degs

# Transverse Mercator Grid Calculations NAD27

**Grid System:** 

Transverse Mercator: new mexico east

Ellipsoid:

Clarke 1866

X:

520739.0193 feet

Y:

509193.5407 feet

True to Grid: (convergence)

-0.036004 degrees

Magnetic to Grid:

8.220701 degrees

To Convert a Magnetic Dir. to a GRID dir. Add 8.220701 Degs.

# PathFinder Energy Services, Inc. Magnetic & Grid Calculations

MARBOB ENERGY COMMODE HUGGER FEE COM #2 EDDY COUNTY, NEW MEXICO Rig:PATRIOT #2

Sat Jun 28 00:47:38 2008

## **Coordinates**

Latitude:

32.399869 N (32 deg. 23 min. 59.5284 sec.)

Longitude:

104.266139 W (-104 deg. 15 min. 58.1004 sec.)

**Elevation:** 

3227.00 feet.

**Calculation Date:** 

Jun/26/2008

# **Magnetic Calculations**

Model:

**IGRF2005** 

Dip Angle:

60.3114 degrees

Total Magnetic Field:

0.48990 gauss

Magnetic Declination:

8.258348 degrees

**Horizontal Intensity:** 

0.242642 gauss

To Convert a Magnetic Dir. to a TRUE North Dir. Add 8.258348 Degs

# Transverse Mercator Grid Calculations NAD27

**Grid System:** 

Transverse Mercator: new mexico east

Ellipsoid:

Clarke 1866

**X**:

520738.9851 feet

Y:

509193.3790 feet

True to Grid: (convergence)

-0.036004 degrees

Magnetic to Grid:

8.222343 degrees

To Convert a Magnetic Dir. to a GRID dir. Add 8.222343 Degs.

#### 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.	RF_FNTFR	DEEDEN DLUCKACK	OR ADD A ZONE
ATTUICATION FOR FLIGHT TO DICIDL.	. IXE-EITIER	. DELECT, FRUCTOACK.	OR ADD A BOIL

APPLICATION FOR PE	RIVIT TO DRILL, RE-ENTER, DEEPEN,	PLUGBACK, OR ADD A ZONE	
1. Open	ator Name and Address	2 OGRID Number	
MARB	OB ENERGY CORP	14049	
Ar	PO Box 227 Artesia , NM 88211		
		30-015-36133	
4. Property Code	5. Property Hame	6. Well No.	
36127	COMMODE HUGGER FEE COM	002	

#### 7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	14	22S	26E	С	990	N	1980	w	EDDY

#### 8. Pool Information

CARLSBAD;MORROW, SOUTH (PRO GAS) 73960

#### Additional Well Information

9. Work Type New Well	1	11 Туре AS	11. Cable/Rotary		12. Lease Type Private	13. Ground Level Elevation 3197
14. känkiple N	15 Prop	osed Depth	16. Formation Morrow		17. Constructor	18. Spud Date 3/20/2008
Depth to Ground 20	Water		Distance from nearest fre	sh water well		Distance to nearest surface water
Pit: Liner: Synthetic Closed Loop System	n X	mils thick	Clay Pit Volume:		ling Method. h Water Brine I	Diesel/Oil-based Gas/Air

#### 19. Proposed Casing and Cement Program

Туре	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	26	20	94	300	450	0
Intl	12.25	9.625	36	2000	700	0
Int2	8.75	7	23	8500	750	0
Prod	6 125	4.5	1160	11800	200	

#### Casing/Cement Program: Additional Comments

We propose to drill 26 inch hole to 300 ft with fresh water, run 94 lb H-40 20 inch csg and set at 300 ft with 450 sx cmt, circ to surface; drl 12 1/4 inch hole to 2000 ft with fresh water, run 36 lb J-55 9 5/8 inch csg and set at 2000 ft with 700 sx cmt, circ to surface; drl 8 3/4 inch hole to 8500 ft with cut brine water, run 23 lb N80/J55 7 inch csg and set at 8500 ft with 750 sx cmt, circ to surface; drl 6 1/8 inch hole to 11800 ft with cut brine water, run 1160 lb S-95/P110 4 1/4 inch csg and set at 11800 ft with 200 sx cmt, TOC 500 above all oil and gas bearing zones.

#### Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	5000	5000	Cameron

of my knowledge and belief.	ation given above is true and complete to the best ling pit will be constructed according to	OIL CONSERVATION DIVISION					
	neral permit , or an (attached) alternative	Approved By: Bryan Arrant Title: Geologist Approved Date: 2/20/2008 Expiration Date: 2/20/2010					
Printed Name. Electronic	ally filed by Diana Briggs						
Title: Production Analys	t						
Email Address: producti	on@marbob com						
Date: 2/20/2008	Phone: 505-748-3303	Conditions of Approval Attached					

District 1
1625 N. French Dr., Hobbs. NM 8824

1625 N. French Dr., Hobbs, NM 88240 "Phone (505) 393-6161 Fax:(505) 393-0720 "District II

1301 W. Grand Ave., Artesia, NM 88210 Phone:(505) 748-1283 Fax:(505) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone (505) 476-3470 Fax:(505) 476-3462 State of New Mexico

Pennit 69946

### **Energy, Minerals and Natural Resources**

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code		3. Pool Name		
30-015-36133	73960	CARLSBAD;MOI	RROW, SOUTH (PRO GAS)		
4. Property Code	5. Prop	erty Name	6. Well No.		
36127	COMMODE HU	JGGER FEE COM	002		
7 OGRID No.	8 Oper	stor Name	9. Elevation		
14049	MARBOB E	NERGY CORP	3197		

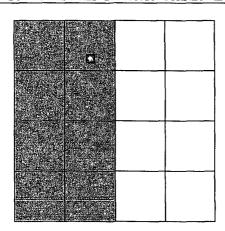
10. Surface Location

	To builded Ebedubii										
١	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
	C	14	22S	26E	C	990	N	1980	w	EDDY	

11 Rottom Hole Location of Different From Surface

_	12. Botom Tible Docation in Different 110m Surface											
1	UL - Lot	Section	Township	Range	Lot Idn		Feet From	N/S Line		Feet From	E/W Line	County
Ī	12. Dedicated Acres		13. :	13. Joint or Infill			14. Consolidation Code			15. Order No.		
1	320.00		-									Ì

# 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



#### OPERATOR CERTIFICATION

I hereby certify that the information contained 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(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

E-Signed By: Diana Briggs Title: Production Analyst

Date: 2/20/2008

#### 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.

Surveyed By: Ronald Eidson Date of Survey. 11/14/2007 Certificate Number: 3239