

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

S

FORM APPROVED
OMB No 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No
NMNM 0467932

6 If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1 Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

NOV 19 2008

2 Name of Operator
Marbob Energy Corporation

OCD-ARTESIA

8. Well Name and No.
E L Federal #13

3a. Address

P O Box 227, Artesia, NM 88211-0227

3b. Phone No. (include area code)

575-748-3303

9. API Well No.
30-015-36662

10 Field and Pool or Exploratory Area
Loco Hills, Glorieta-Yeso

4 Location of Well (Footage, Sec., T., R., M., or Survey Description)
Surf 1700' FNL & 1050' FEL, BHL 1700' FNL & 950' FEL
Section 21, T17S - R30E

11. Country or Parish, State
Eddy County, New Mexico

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other <u>New BHL</u>
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Marbob Energy Corporation respectfully requests the following BHL change:

From: 1700' FNL & 1050' FEL
To: 1700' FNL & 950' FEL

*Well is orthodox below 4306'
(Glorieta - TD)*

*TVD changed to 6000' from 6030'
MD 6006'*

ACCEPTED FOR RECORD

NOV 19 2008

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Nancy T. Agnew

Title Land Department

Gerry Guye, Deputy Field Inspector
NMOCD-District II ARTESIA

Signature

Nancy T. Agnew

Date 10/13/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice 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.

NOV 18 2008

WESLEY W INGRAM
DISTRICT ENGINEER

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

(Instructions on page 2)

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-36662	Pool Code 96718	Pool Name Loco Hills; Glorieta-Yeso
Property Code 23371	Property Name E L FEDERAL	Well Number 13
OGRID No. 14049	Operator Name MARBOB ENERGY CORPORATION	Elevation 3658'

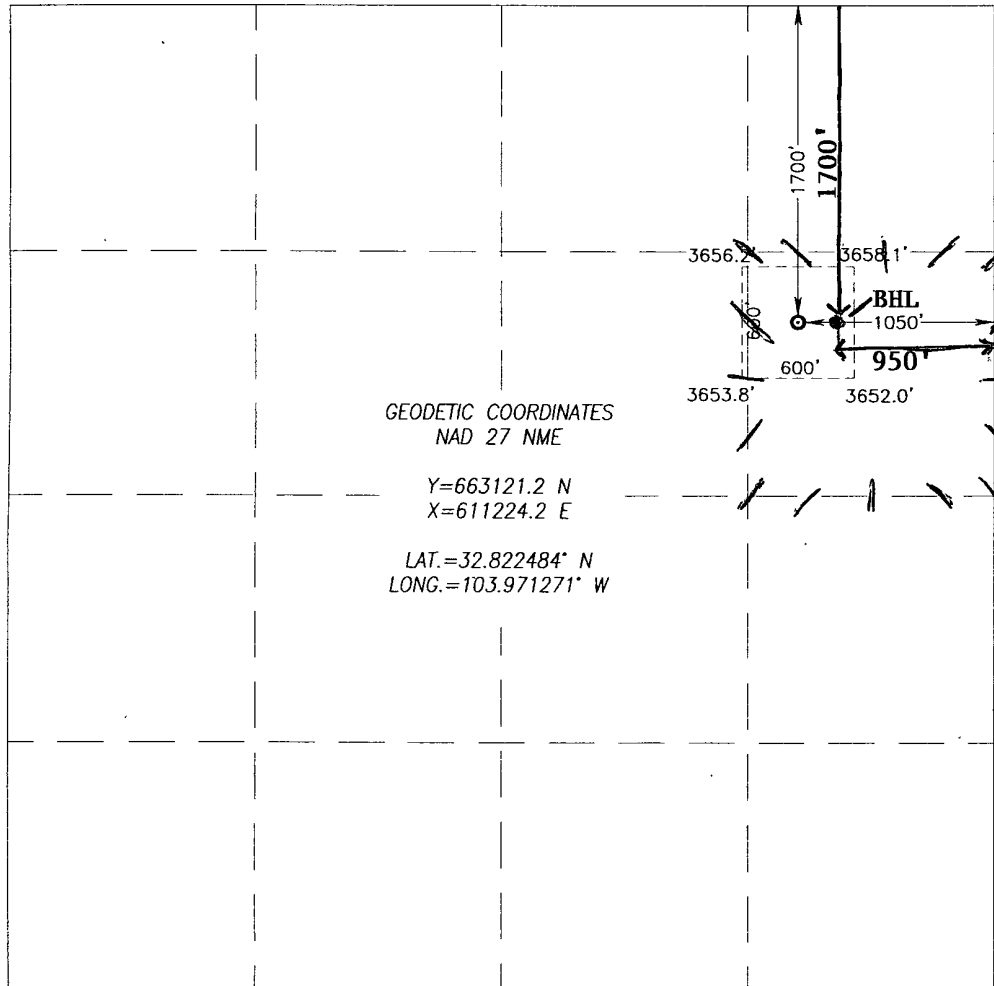
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	21	17-S	30-E		1700	NORTH	1050	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	21	17S	30E		1700	North	950	East	Eddy
Dedicated Acres 40	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

 GEODETIC COORDINATES NAD 27 NME Y=663121.2 N X=611224.2 E LAT.=32.822484° N LONG.=103.971271° W	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> 10/13/08 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. DATE SURVEYED: 10/13/08 SIGNATURE & SEAL OF PROFESSIONAL SURVEYOR: <i>Ronald J. Eidson</i> DSS: 3239 08.11.0804 Certificate No. GARY G. EIDSON 12641 RONALD J. EIDSON 3239
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Marbob

Eddy County, NM

E L Federal #13

#13

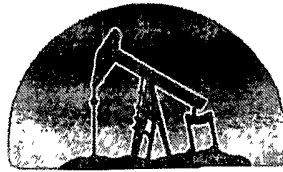
OH

Plan: Plan #1

PathFinder X&Y Survey Report

14 October, 2008

PATHFINDER
ENERGY SERVICES



marbob
energy corporation
Artesia, N.M.

Project: Eddy County, NM
Site: E L Federal #13
Well: #13
Wellbore OH
Plan Plan #1 (#13/OH)

PATHFINDER
ENERGY SERVICES

WELL DETAILS #13

Ground Elevation 3658 00
RKB Elevation WELL @ 3670 00ft (Est RKB=12')
Rig Name Est RKB=12'

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0 00	0 00	663121 20	611224 20	32° 49' 20 94181 N	103° 58' 16 57679 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
2	3200 00	0 00	0 00	3200 00	0 00	0 00	0 00	0 00	0 00	
3	3616 81	8 34	90 00	3615 35	0 00	30 27	2 00	90 00	30 27	
4	3889 00	8 34	90 00	3884 65	0 00	69 73	0 00	0 00	69 73	
5	4305 81	0 00	90 00	4300 00	0 00	100 00	2 00	180 00	100 00	LP El Federal@4300' TVD
6	6005 81	0 00	90 00	6000 00	0 00	100 00	0 00	90 00	100 00	PBHL EL Federal@6000' TVD

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape Point
LP El Federal@4300' TVD	4300 00	0 00	100 00	663121 20	611324 20	Point
PBHL EL Federal@6000' TVD	6000 00	0 00	100 00	663121 20	611324 20	Point

COMPANY DETAILS Marbob

Calculation Method Minimum Curvature
Error System ISCWSA
Scan Method Closest Approach 3D
Error Surface Elliptical Conic
Warning Method Error Ratio

PROJECT DETAILS Eddy County, NM

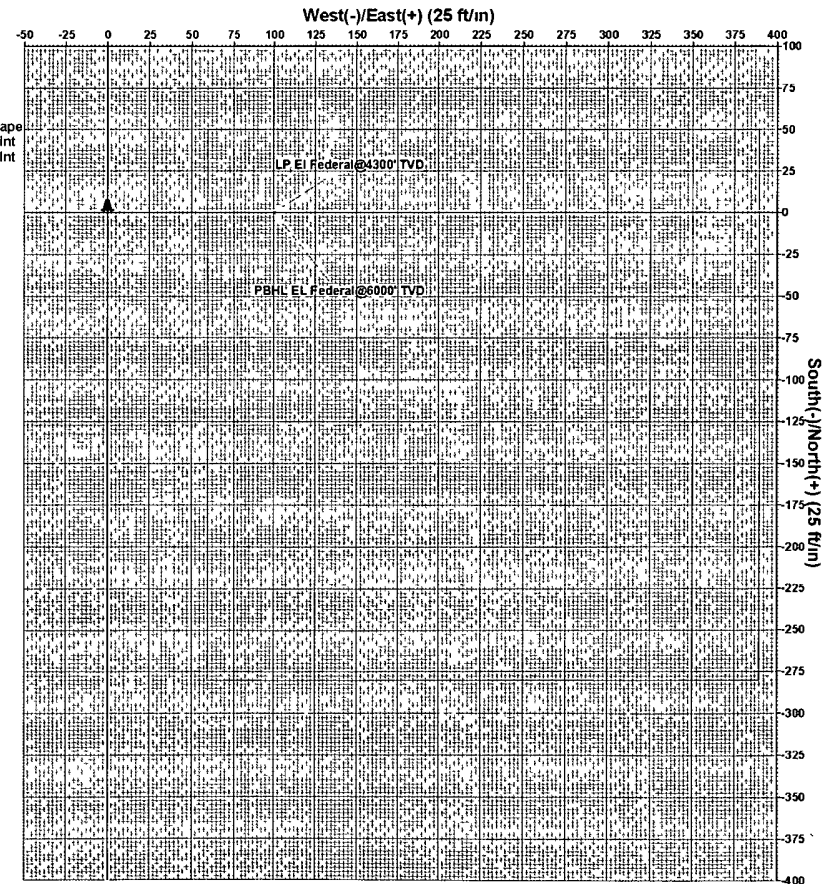
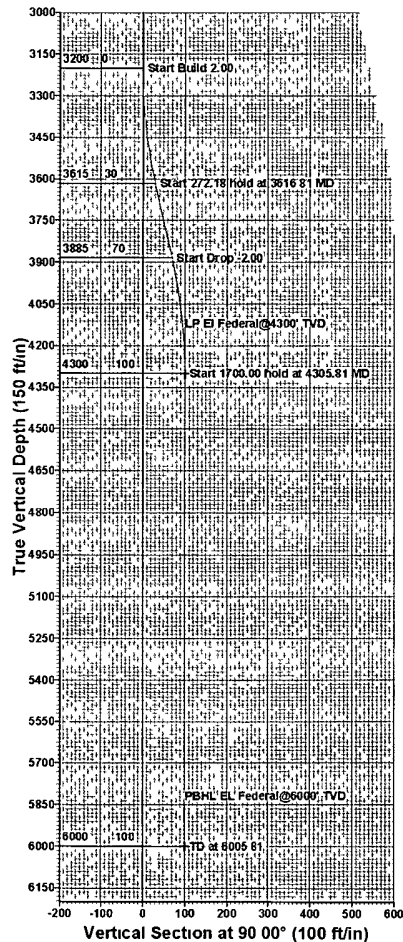
Geodetic System US State Plane 1927 (Exact solution)
Datum NAD 1927 (NADCON CONUS)
Ellipsoid Clarke 1866
Zone New Mexico East 3001

System Datum Mean Sea Level
Local North Grid



Azimuths to Grid North
True North -0 20°
Magnetic North 7 93°

Magnetic Field
Strength 49223 0snT
Dip Angle 60 75°
Date 10/13/2008
Model IGRF200510



Plan Plan #1 (#13/OH)

Created By Matt Routh Date 11 08, October 14 2008

PathFinder Energy Services
PathFinder X&Y Survey Report



Company:	Marbob	Local Co-ordinate Reference:	Well #13
Project:	Eddy County, NM	TVD Reference:	WELL @ 3670 00ft (Est RKB=12')
Site:	E L Federal #13	MD Reference:	WELL @ 3670 00ft (Est RKB=12')
Well:	#13	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	2003 16 NWDB

Project	Eddy County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum	Mean Sea Level
Geo Datum	NAD 1927 (NADCON CONUS)		
Map Zone	New Mexico East 3001		

Site:	E L Federal #13		
Site Position:		Northing:	663,121 20 ft
From	Map	Easting:	611,224 20 ft
Position Uncertainty:	0 00 ft	Slot Radius:	"
		Latitude:	32° 49' 20 94181 N
		Longitude:	103° 58' 16 57679 W
		Grid Convergence:	0 20 °

Well:	#13		
Well Position	+N/-S	0 00 ft	Northing
	+E/-W	0 00 ft	Easting:
Position Uncertainty	0 00 ft		Wellhead Elevation
			ft
			Latitude:
			32° 49' 20 94181 N
			Longitude:
			103° 58' 16 57679 W
			Ground Level:
			3,658 00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	10/13/2008	8 12	60 75	49,223

Design	Plan #1			
Audit Notes				
Version	Phase:	PROTOTYPE	Tie On Depth	0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0 00	0 00	0 00	90 00

Survey Tool Program	Date 10/14/2008		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
0 00	6,005 81	Plan #1 (OH)	MWD
			Description
			MWD - Standard

PathFinder Energy Services

PathFinder X&Y Survey Report



Company:	Marbob	Local Co-ordinate Reference:	Well #13
Project:	Eddy County, NM	TVD Reference:	WELL @ 3670 00ft (Est RKB=12')
Site:	E L Federal #13	MD Reference:	WELL @ 3670 00ft (Est RKB=12')
Well:	#13	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	2003 16 NWDB

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
0 00	0 00	0 00	0 00	-3,670 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
100 00	0 00	0 00	100 00	-3,570 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
200 00	0 00	0 00	200 00	-3,470 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
300 00	0 00	0 00	300 00	-3,370 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
400 00	0 00	0 00	400 00	-3,270 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
500 00	0 00	0 00	500 00	-3,170 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
600 00	0 00	0 00	600 00	-3,070 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
700 00	0 00	0 00	700 00	-2,970 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
800 00	0 00	0 00	800 00	-2,870 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
900 00	0 00	0 00	900 00	-2,770 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
1,000 00	0 00	0 00	1,000 00	-2,670 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
1,100 00	0 00	0 00	1,100 00	-2,570 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
1,200 00	0 00	0 00	1,200 00	-2,470 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
1,300 00	0 00	0 00	1,300 00	-2,370 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
1,400 00	0 00	0 00	1,400 00	-2,270 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
1,500 00	0 00	0 00	1,500 00	-2,170 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
1,600 00	0 00	0 00	1,600 00	-2,070 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
1,700 00	0 00	0 00	1,700 00	-1,970 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
1,800 00	0 00	0 00	1,800 00	-1,870 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
1,900 00	0 00	0 00	1,900 00	-1,770 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
2,000 00	0 00	0 00	2,000 00	-1,670 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
2,100 00	0 00	0 00	2,100 00	-1,570 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
2,200 00	0 00	0 00	2,200 00	-1,470 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
2,300 00	0 00	0 00	2,300 00	-1,370 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
2,400 00	0 00	0 00	2,400 00	-1,270 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
2,500 00	0 00	0 00	2,500 00	-1,170 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
2,600 00	0 00	0 00	2,600 00	-1,070 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	

PathFinder Energy Services
PathFinder X&Y Survey Report



Company:	Marbob	Local Co-ordinate Reference:	Well #13
Project:	Eddy County, NM	TVD Reference:	WELL @ 3670 00ft (Est RKB=12')
Site:	E L Federal #13	MD Reference:	WELL @ 3670 00ft (Est RKB=12')
Well:	#13	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	2003 16 NWDB

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
2,700 00	0 00	0 00	2,700 00	-970 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
2,800 00	0 00	0 00	2,800 00	-870 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
2,900 00	0 00	0 00	2,900 00	-770 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
3,000 00	0 00	0 00	3,000 00	-670 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
3,100 00	0 00	0 00	3,100 00	-570 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
3,200 00	0 00	0 00	3,200 00	-470 00	0 00	0 00	0 00	0 00	663,121 20	611,224 20	
KOP@3200' TVD											
3,300 00	2 00	90 00	3,299 98	-370 02	0 00	1 75	1 75	2 00	663,121 20	611,225 95	
3,400 00	4 00	90 00	3,399 84	-270 16	0 00	6 98	6 98	2 00	663,121 20	611,231 18	
3,500 00	6 00	90 00	3,499 45	-170 55	0 00	15 69	15 69	2 00	663,121 20	611,239 89	
3,600 00	8 00	90 00	3,598 70	-71 30	0 00	27 88	27 88	2 00	663,121 20	611,252 08	
3,616 00	8 32	90 00	3,614 54	-55 46	0 00	30 15	30 15	2 00	663,121 20	611,254 35	
Building Inclination of 8 34 Deg@3616' MD with 2Deg DLS											
3,616 81	8 34	90 00	3,615 35	-54 65	0 00	30 27	30 27	2 00	663,121 20	611,254 47	
3,700 00	8 34	90 00	3,697 65	27 65	0 00	42 33	42 33	0 00	663,121 20	611,266 53	
3,800 00	8 34	90 00	3,796 60	126 60	0 00	56 83	56 83	0 00	663,121 20	611,281 03	
3,889 00	8 34	90 00	3,884 65	214 65	0 00	69 73	69 73	0 00	663,121 20	611,293 93	
3,900 00	8 12	90 00	3,895 54	225 54	0 00	71 31	71 31	2 00	663,121 20	611,295 51	
4,000 00	6 12	90 00	3,994 77	324 77	0 00	83 69	83 69	2 00	663,121 20	611,307 89	
4,100 00	4 12	90 00	4,094 36	424 36	0 00	92 61	92 61	2 00	663,121 20	611,316 81	
4,200 00	2 12	90 00	4,194 21	524 21	0 00	98 05	98 05	2 00	663,121 20	611,322 25	
4,305 81	0 00	90 00	4,300 00	630 00	0 00	100 00	100 00	2 00	663,121 20	611,324 20	
LP EI Federal@4300' TVD											
4,400 00	0 00	90 00	4,394 19	724 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
4,500 00	0 00	90 00	4,494 19	824 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
4,600 00	0 00	90 00	4,594 19	924 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
4,700 00	0 00	90 00	4,694 19	1,024 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	

PathFinder Energy Services
PathFinder X&Y Survey Report



Company:	Marbob	Local Co-ordinate Reference:	Well #13
Project:	Eddy County, NM	TVD Reference:	WELL @ 3670 00ft (Est RKB=12')
Site:	E L Federal #13	MD Reference:	WELL @ 3670 00ft (Est RKB=12')
Well:	#13	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	2003 16 NWDB

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
4,800 00	0 00	90 00	4,794 19	1,124 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
4,900 00	0 00	90 00	4,894 19	1,224 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
5,000 00	0 00	90 00	4,994 19	1,324 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
5,100 00	0 00	90 00	5,094 19	1,424 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
5,200 00	0 00	90 00	5,194 19	1,524 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
5,300 00	0 00	90 00	5,294 19	1,624 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
5,400 00	0 00	90 00	5,394 19	1,724 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
5,500 00	0 00	90 00	5,494 19	1,824 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
5,600 00	0 00	90 00	5,594 19	1,924 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
5,700 00	0 00	90 00	5,694 19	2,024 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
5,800 00	0 00	90 00	5,794 19	2,124 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
5,900 00	0 00	90 00	5,894 19	2,224 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
6,005 00	0 00	90 00	5,999 19	2,329 19	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
PBHL@6000' TVD											
6,005 81	0 00	90 00	6,000 00	2,330 00	0 00	100 00	100 00	0 00	663,121 20	611,324 20	
PBHL EL Federal@6000' TVD											

PathFinder Energy Services
PathFinder X&Y Survey Report



Company:	Marbob	Local Co-ordinate Reference:	Well #13
Project:	Eddy County, NM	TVD Reference:	WELL @ 3670 00ft (Est RKB=12')
Site:	E L Federal #13	MD Reference:	WELL @ 3670 00ft (Est RKB=12')
Well:	#13	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	2003 16 NWDB

Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	
Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	Latitude Longitude
LP El Federal@4300'	- plan hits target	0 00	0 00	4,300 00	0 00	100 00	663,121 20	611,324 20	32° 49' 20 93842 N 03° 58' 15 40492 W
- Point									
PBHL EL Federal@6000'	- plan hits target	0 00	0 00	6,000 00	0 00	100 00	663,121 20	611,324 20	32° 49' 20 93842 N 03° 58' 15 40492 W
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
3,200 00	3,200 00	0 00	0 00	KOP@3200' TVD
3,616 00	3,614 54	0 00	30 15	Building Inclination of 8 34 Deg@3616' MD with 2Deg DLS
6,005 00	5,999 19	0 00	100 00	PBHL@6000' TVD

Checked By: _____ Approved By: _____ Date: _____