

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

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.

S

5. Lease Serial No.
NMNM 106231

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well

☒ Oil Well

☐ Gas Well

☐ Other

AUG 18 2008

OCD-ARTESIA

8. Well Name and No.
Loco Federal #5

2. Name of Operator
Marbob Energy Corporation

9. API Well No.

30-015-36563

3a. Address

P O Box 227, Artesia, NM 88211-0227

3b. Phone No (include area code)

575-748-3303

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Surf 330' FNL & 2410' FEL, BHL 330' FNL & 2310' 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 BHL
	☐ 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 approval for the following BHL location change:

From: 330' FNL & 2410' FEL
To: 330' FNL & 2310' FEL

*Additional cement may be needed
to circulate 1st stage on
production casing*

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

Nancy T. Agnew

Title Land Department

Signature

Nancy T. Agnew

Date 08/11/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

APPROVED

Date AUG 14 2008

WESLEY W. INGRAM

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.

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)

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT I

25 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 30-015-36563	Pool Code 96718	Pool Name Loco Hills; Glorieta-Yeso
Property Code	Property Name LOCO FEDERAL	Well Number 5
OGRID No. 14049	Operator Name MARBOB ENERGY CORPORATION	Elevation 3672'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	21	17-S	30-E		330	NORTH	2410	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
B	21	17-S	30-E		330	North	2310	East	Eddy

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

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 3671.6' 3672.5' 3671.4' 3665.0' 600' 600' 330' 331' FNL & 2298' FEL Penetration Point SEE DETAIL GEODETIC COORDINATES NAD 27 NME Y=664489.0 N X=609860.1 E LAT.=32.826256° N LONG.=103.975697° 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 unless 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. <u>Nancy T. Agnew</u> 8/11/08 Signature Date <u>Nancy T. Agnew</u> 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. RONALD J. EIDSON APRIL 11 2008 DATE SURVEYED SIGNATURE & SEAL OF PROFESSIONAL SURVEYOR RECEIVED 8/14/08 Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3238
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Marbob

Eddy County

S21, T17S, R30E

Loco Federal #5

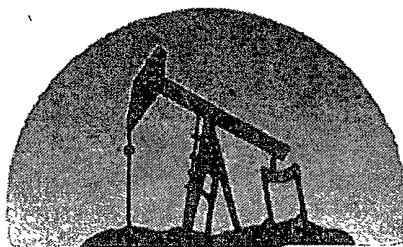
Loco Federal #5

Plan: Plan #1

Pathfinder X & Y Survey Report

08 July, 2008

PATHFINDER
ENERGY SERVICES



marbob
energy corporation
Artesia, N.M.



Azimuths to Gnd North
True North: -0.19°
Magnetic North: 7.97°

Magnetic Field
Strength: 49278.25nT
Dip Angle: 60.76°
Date: 7/8/2008
Model: IGRF200510

PATHFINDER⁵

ENERGY SERVICES

Project: Eddy County
Site: S21, T17S, R30E
Well: Loco Federal #5
Wellbore: Loco Federal #5
Plan: Plan #1 (Loco Federal #5/Loco Federal #5)

WELL DETAILS: Loco Federal #5

Ground Elevation: 0.0
RKB Elevation: WELL @ 0.0ft (Original Well Elev)
Rig Name: Original Well Elev

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	684489.00	609860.10	32° 49' 34.522 N	103° 58' 32.508 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3200.0	0.00	0.00	3200.0	0.0	0.0	0.00	0.00	0.0	
3	3601.3	8.00	90.00	3600.0	0.0	28.0	1.99	90.00	27.7	
4	3741.3	8.00	90.00	3738.6	0.0	47.5	0.00	0.00	47.0	
5	6038.4	3.52	253.57	6030.0	-20.0	140.0	0.50	174.97	141.4	PBHL OH

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

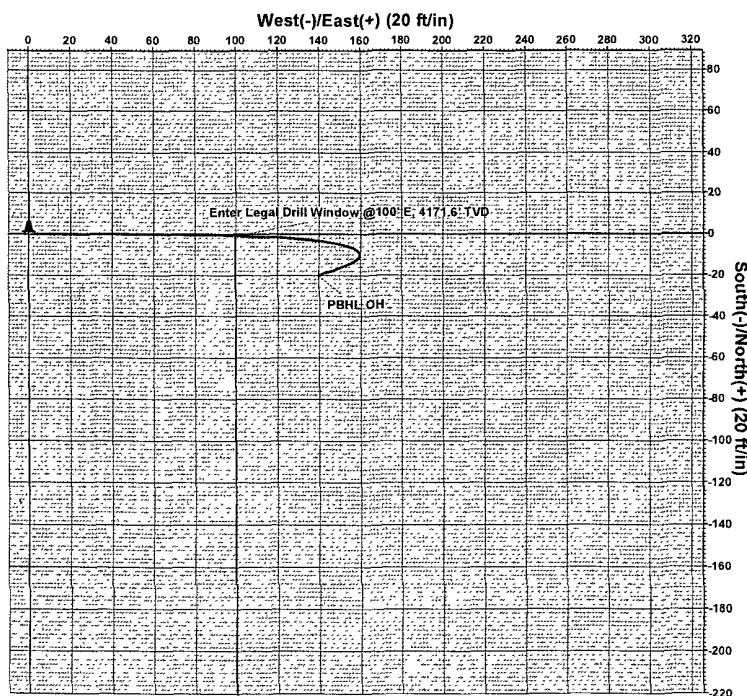
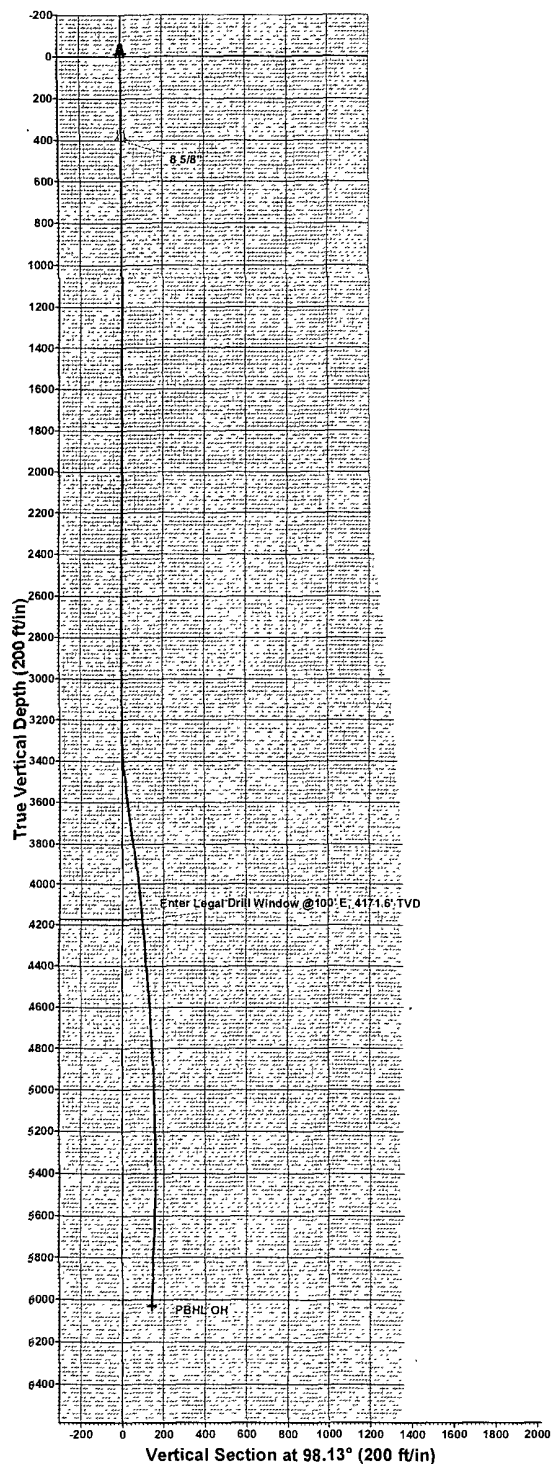
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL OH	6030.0	-20.0	140.0	684469.00	610000.10	Point

CASING DETAILS

TVD	MD	Name	Size
400.0	400.0	8 5/8"	8-5/8

PROJECT DETAILS: Eddy County

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: Gnd



Plan: Plan #1 (Loco Federal #5/Loco Federal #5)

Created By: Nate Bingham Date: 15 21, July 08 2008

Checked: _____ Date: _____

Pathfinder Energy Services

Pathfinder X & Y Survey Report



Company: Marbob
Project: Eddy County
Site: S21, T17S, R30E
Well: Loco Federal #5
Wellbore: Loco Federal #5
Design: Plan #1

Local Co-ordinate Reference: Well Loco Federal #5
TVD Reference: WELL @ 0.0ft (Original Well Elev)
MD Reference: WELL @ 0.0ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Project Eddy County

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

System Datum: Mean Sea Level

Site S21, T17S, R30E

Site Position:	Northing:	664,489.00 ft	Latitude:	32° 49' 34.522 N
From: Map	Easting:	609,860.10 ft	Longitude:	103° 58' 32.508 W
Position Uncertainty: 0.0 ft	Slot Radius:	"	Grid Convergence:	0.19 °

Well Loco Federal #5

Well Position	+N/-S	0.0 ft	Northing:	664,489.00 ft	Latitude:	32° 49' 34.522 N
	+E/-W	0.0 ft	Easting:	609,860.10 ft	Longitude:	103° 58' 32.508 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	0.0 ft

Wellbore Loco Federal #5

Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	7/8/2008	8.16	60.76	49,278

Design Plan #1

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.0

Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	98.13

Survey Tool Program Date 7/8/2008

From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
0.0	6,038.2	Plan #1 (Loco Federal #5)	MWD	MWD - Standard

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company: Marbob
Project: Eddy County
Site: S21, T17S, R30E
Well: Loco Federal #5
Wellbore: Loco Federal #5
Design: Plan #1

Local Co-ordinate Reference: Well Loco Federal #5
TVD Reference: WELL @ 0.0ft (Original Well Elev)
MD Reference: WELL @ 0.0ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
100.0	0.00	0.00	100.0	100.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
200.0	0.00	0.00	200.0	200.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
300.0	0.00	0.00	300.0	300.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
400.0	0.00	0.00	400.0	400.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
8 5/8"										
500.0	0.00	0.00	500.0	500.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
600.0	0.00	0.00	600.0	600.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
700.0	0.00	0.00	700.0	700.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
800.0	0.00	0.00	800.0	800.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
900.0	0.00	0.00	900.0	900.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
1,000.0	0.00	0.00	1,000.0	1,000.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
1,100.0	0.00	0.00	1,100.0	1,100.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
1,200.0	0.00	0.00	1,200.0	1,200.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
1,300.0	0.00	0.00	1,300.0	1,300.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
1,400.0	0.00	0.00	1,400.0	1,400.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
1,500.0	0.00	0.00	1,500.0	1,500.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
1,600.0	0.00	0.00	1,600.0	1,600.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
1,700.0	0.00	0.00	1,700.0	1,700.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
1,800.0	0.00	0.00	1,800.0	1,800.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
1,900.0	0.00	0.00	1,900.0	1,900.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
2,000.0	0.00	0.00	2,000.0	2,000.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
2,100.0	0.00	0.00	2,100.0	2,100.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
2,200.0	0.00	0.00	2,200.0	2,200.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
2,300.0	0.00	0.00	2,300.0	2,300.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
2,400.0	0.00	0.00	2,400.0	2,400.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10
2,500.0	0.00	0.00	2,500.0	2,500.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company: Marbob
Project: Eddy County
Site: S21, T17S, R30E
Well: Loco Federal #5
Wellbore: Loco Federal #5
Design: Plan #1

Local Co-ordinate Reference: Well Loco Federal #5
TVD Reference: WELL @ 0.0ft (Original Well Elev)
MD Reference: WELL @ 0.0ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

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)		
2,600.0	0.00	0.00	2,600.0	2,600.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10		
2,700.0	0.00	0.00	2,700.0	2,700.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10		
2,800.0	0.00	0.00	2,800.0	2,800.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10		
2,900.0	0.00	0.00	2,900.0	2,900.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10		
3,000.0	0.00	0.00	3,000.0	3,000.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10		
3,100.0	0.00	0.00	3,100.0	3,100.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10		
3,200.0	0.00	0.00	3,200.0	3,200.0	0.0	0.0	0.0	0.00	664,489.00	609,860.10		
3,300.0	1.99	90.00	3,300.0	3,300.0	0.0	1.7	1.7	1.99	664,489.00	609,861.84		
3,400.0	3.99	90.00	3,399.8	3,399.8	0.0	7.0	6.9	1.99	664,489.00	609,867.06		
3,500.0	5.98	90.00	3,499.5	3,499.5	0.0	15.6	15.5	1.99	664,489.00	609,875.74		
3,601.3	8.00	90.00	3,600.0	3,600.0	0.0	28.0	27.7	1.99	664,489.00	609,888.07		
3,700.0	8.00	90.00	3,697.7	3,697.7	0.0	41.7	41.3	0.00	664,489.00	609,901.81		
3,741.3	8.00	90.00	3,738.6	3,738.6	0.0	47.5	47.0	0.00	664,489.00	609,907.55		
3,800.0	7.71	90.19	3,796.8	3,796.8	0.0	55.5	54.9	0.50	664,488.99	609,915.58		
3,900.0	7.21	90.55	3,895.9	3,895.9	-0.1	68.5	67.8	0.50	664,488.90	609,928.56		
4,000.0	6.72	90.96	3,995.2	3,995.2	-0.3	80.6	79.8	0.50	664,488.75	609,940.69		
4,100.0	6.23	91.44	4,094.6	4,094.6	-0.5	91.9	91.0	0.50	664,488.51	609,951.96		
4,177.5	5.84	91.87	4,171.6	4,171.6	-0.7	100.0	99.1	0.50	664,488.28	609,960.10		
Enter Legal Drill Window @100' E, 4171.6' TVD												
4,200.0	5.73	92.00	4,194.0	4,194.0	-0.8	102.3	101.4	0.50	664,488.20	609,962.37		
4,300.0	5.24	92.67	4,293.6	4,293.6	-1.2	111.8	110.9	0.50	664,487.81	609,971.93		
4,400.0	4.75	93.47	4,393.2	4,393.2	-1.6	120.5	119.5	0.50	664,487.35	609,980.62		
4,500.0	4.26	94.46	4,492.9	4,492.9	-2.2	128.3	127.4	0.50	664,486.81	609,988.45		
4,600.0	3.77	95.70	4,592.6	4,592.6	-2.8	135.3	134.4	0.50	664,486.20	609,995.42		
4,700.0	3.28	97.31	4,692.4	4,692.4	-3.5	141.4	140.5	0.50	664,485.51	610,001.52		
4,800.0	2.80	99.49	4,792.3	4,792.3	-4.3	146.7	145.8	0.50	664,484.74	610,006.76		
4,900.0	2.32	102.56	4,892.2	4,892.2	-5.1	151.0	150.2	0.50	664,483.90	610,011.14		

Pathfinder Energy Services

Pathfinder X & Y Survey Report



Company: Marbob
 Project: Eddy County
 Site: S21, T17S, R30E
 Well: Loco Federal #5
 Wellbore: Loco Federal #5
 Design: Plan #1

Local Co-ordinate Reference: Well Loco Federal #5
 TVD Reference: WELL @ 0.0ft (Original Well Elev)
 MD Reference: WELL @ 0.0ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.16 Single User Db

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)
5,000.0	1.85	107.21	4,992.1	4,992.1	-6.0	154.6	153.9	0.50	664,482.98	610,014.66
5,100.0	1.40	114.91	5,092.1	5,092.1	-7.0	157.2	156.6	0.50	664,481.99	610,017.31
5,200.0	1.00	129.21	5,192.1	5,192.1	-8.1	159.0	158.5	0.50	664,480.92	610,019.10
5,300.0	0.73	157.40	5,292.1	5,292.1	-9.2	159.9	159.6	0.50	664,479.78	610,020.02
5,400.0	0.75	196.50	5,392.0	5,392.0	-10.4	160.0	159.9	0.50	664,478.56	610,020.08
5,500.0	1.04	222.86	5,492.0	5,492.0	-11.7	159.2	159.2	0.50	664,477.26	610,019.28
5,600.0	1.45	236.18	5,592.0	5,592.0	-13.1	157.5	157.8	0.50	664,475.89	610,017.61
5,700.0	1.90	243.43	5,692.0	5,692.0	-14.6	155.0	155.5	0.50	664,474.45	610,015.08
5,800.0	2.37	247.86	5,791.9	5,791.9	-16.1	151.6	152.3	0.50	664,472.93	610,011.68
5,900.0	2.85	250.82	5,891.8	5,891.8	-17.7	147.3	148.3	0.50	664,471.33	610,007.42
6,000.0	3.33	252.92	5,991.6	5,991.6	-19.3	142.2	143.5	0.50	664,469.66	610,002.30
6,038.4	3.52	253.57	6,030.0	6,030.0	-20.0	140.0	141.4	0.50	664,469.00	610,000.10

PBHL OH

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company: Marbob
Project: Eddy County
Site: S21, T17S, R30E
Well: Loco Federal #5
Wellbore: Loco Federal #5
Design: Plan #1

Local Co-ordinate Reference: Well Loco Federal #5
TVD Reference: WELL @ 0.0ft (Original Well Elev)
MD Reference: WELL @ 0.0ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL OH - plan hits target - Point	0 00	0 00	6,030.0	-20 0	140 0	664,469 00	610,000.10	32° 49' 34.320 N	103° 58' 30.868 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
400 0	400 0	8 5/8"	8-5/8	8-5/8

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,177.5	4,171.6	-0.7	100.0	Enter Legal Drill Window @100' E, 4171.6' TVD

Checked By: _____ Approved By: _____ Date: _____