

OCD-ARTESIA

Form 3160-5
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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 104646

6. If Indian, Allottee or Tribe Name

NOV 19 2008

OCD-ARTESIA

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 ☐ Other8. Well Name and No.
Michalada Federal #6D2. Name of Operator
Marbob Energy Corporation

9. API Well No.

10. Field and Pool or Exploratory Area
Azotea Mesa - Bone Spring3a. Address
P.O. Box 227, Artesia, NM 88211-02273b. Phone No. (include area code)
575-748-33034. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Surf: 180' FNL & 30' FEL
BHL: 330' FNL & 330' FEL11. 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 Change 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 recompleate 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 recompleation 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 change in BHL:

From: 180' FNL & 30' FEL
To: 330' FNL & 330' FEL

SHL is unorthodox
BHL is orthodox
Wellbore is unorthodox

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 09/03/2008

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

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.

Office

Date

WESLEY W. INGRAM

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
1825 N. FRENCH DR., BOBBS, NM 86240

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 87506

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 3740	Pool Name AZOTEA MESA-BONE SPRING
Property Code	Property Name MICHALADA FEDERAL	Well Number 6D
OGRID No. 14049	Operator Name MARBOB ENERGY CORPORATION	Elevation 3629'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	3	22-S	25-E		180	NORTH	30	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
A	3	22-S	25-E		330	NORTH	330	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

LOT 6	LOT 5	LOT 2	LOT 3
41.59 AC LOT 7	41.78 AC LOT 8	DETAIL 3617.1' 3615.1' 600' 3634.4' 3613.1'	SEE DETAIL BHL 30' 180' 330'
42.10 AC LOT 10	42.28 AC LOT 9		
43.73 AC LOT 11	43.45 AC LOT 12		
42.91 AC	42.63 AC		

GEODETIC COORDINATES
NAD 27 NME
Y=519312.2 N
X=487252.0 E
LAT.=32.427696° N
LONG.=104.374650° 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.
Signature: Nancy T. Agnew Date: 9/3/08
Printed Name: Nancy T. Agnew

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: 9/3/08 AR
Signature & Seal of Professional Surveyor: [Signature] 3239
Certificate No. GARY EIDSON 12641
RONALD J. EIDSON 3239

Marbob

Eddy County

Michalada Federal #6D

Michalada Federal #6D

OH

Plan: Plan #1

Pathfinder X & Y Survey

09 October, 2008

Pathfinder X & Y Survey

Company: Marbob
 Project: Eddy County
 Site: Michalada Federal #6D
 Well: Michalada Federal #6D
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well Michalada Federal #6D
 TVD Reference: WELL @ 3629.00ft (Original Well Elev)
 MD Reference: WELL @ 3629.00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.16 Single user database

Project	Eddy County		
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	Michalada Federal #6D		
Site Position:		Northing:	519,312.200 ft
From:	Map	Easting:	487,252.000 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 25' 39.705 N
		Longitude:	104° 22' 28.738 W
		Grid Convergence:	-0.02 °

Well	Michalada Federal #6D		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			32° 25' 39.705 N
			Longitude:
			104° 22' 28.738 W
			Ground Level:
			3,629.00ft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	9/9/2008	(°) 8.28
			Dip Angle
			(°) 60.31
			Field Strength
			(nT) 48,946

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°) 124.11

Survey Tool Program	Date 10/9/2008		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
0.00	4,556.21	Plan #1 (OH)	MWD
			Description
			MWD - Standard

Pathfinder X & Y Survey

Company: Marbob
 Project: Eddy County
 Site: Michalada Federal #6D
 Well: Michalada Federal #6D
 Wellbore: OH
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 MD Reference: WELL @ 3629.00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.16 Single user database

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	0.00	-3,629.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
100.00	0.00	0.00	100.00	0.00	-3,529.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
200.00	0.00	0.00	200.00	0.00	-3,429.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
300.00	0.00	0.00	300.00	0.00	-3,329.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
400.00	0.00	0.00	400.00	0.00	-3,229.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
500.00	0.00	0.00	500.00	0.00	-3,129.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
600.00	0.00	0.00	600.00	0.00	-3,029.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
700.00	0.00	0.00	700.00	0.00	-2,929.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
800.00	0.00	0.00	800.00	0.00	-2,829.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
900.00	0.00	0.00	900.00	0.00	-2,729.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
1,000.00	0.00	0.00	1,000.00	0.00	-2,629.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
1,100.00	0.00	0.00	1,100.00	0.00	-2,529.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
1,200.00	0.00	0.00	1,200.00	0.00	-2,429.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
1,300.00	0.00	0.00	1,300.00	0.00	-2,329.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
1,400.00	0.00	0.00	1,400.00	0.00	-2,229.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
1,500.00	0.00	0.00	1,500.00	0.00	-2,129.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
1,600.00	0.00	0.00	1,600.00	0.00	-2,029.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
1,700.00	0.00	0.00	1,700.00	0.00	-1,929.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
1,800.00	0.00	0.00	1,800.00	0.00	-1,829.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
1,900.00	0.00	0.00	1,900.00	0.00	-1,729.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
2,000.00	0.00	0.00	2,000.00	0.00	-1,629.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
2,084.00	0.00	0.00	2,084.00	0.00	-1,545.00	0.00	0.00	0.00	0.00	519,312.20	487,252.00
KOP@2084'MD											
2,100.00	0.80	116.57	2,100.00	-1,529.00	-0.05	0.10	0.11	5.00	519,312.15	487,252.10	
2,200.00	5.80	116.57	2,199.80	-1,429.20	-2.62	5.25	5.82	5.00	519,309.58	487,257.25	
2,300.00	10.80	116.57	2,298.72	-1,330.28	-9.08	18.15	20.12	5.00	519,303.12	487,270.15	

Pathfinder X & Y Survey

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Well: Michalada Federal #6D
Wellbore: OH
Design: Plan #1

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MD Reference: WELL @ 3629.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single user database

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)
2,330.00	12.30	116.57	2,328.11	-1,300.89	-11.76	23.53	26.08	5.00	519,300.44	487,275.53
Building Inc 12.7Deg@5Deg/100'										
2,337.97	12.70	116.57	2,335.90	-1,293.10	-12.54	25.07	27.79	5.00	519,299.66	487,277.07
2,400.00	12.70	116.57	2,396.41	-1,232.59	-18.63	37.27	41.30	0.00	519,293.57	487,289.27
2,500.00	12.70	116.57	2,493.96	-1,135.04	-28.46	56.93	63.10	0.00	519,283.74	487,308.93
2,600.00	12.70	116.57	2,591.52	-1,037.48	-38.29	76.59	84.89	0.00	519,273.91	487,328.59
2,700.00	12.70	116.57	2,689.07	-939.93	-48.13	96.25	106.68	0.00	519,264.07	487,348.25
2,800.00	12.70	116.57	2,786.62	-842.38	-57.96	115.91	128.47	0.00	519,254.24	487,367.91
2,900.00	12.70	116.57	2,884.18	-744.82	-67.79	135.57	150.26	0.00	519,244.41	487,387.57
3,000.00	12.70	116.57	2,981.73	-647.27	-77.62	155.24	172.06	0.00	519,234.58	487,407.24
3,100.00	12.70	116.57	3,079.29	-549.71	-87.45	174.90	193.85	0.00	519,224.75	487,426.90
3,200.00	12.70	116.57	3,176.84	-452.16	-97.28	194.56	215.64	0.00	519,214.92	487,446.56
3,300.00	12.70	116.57	3,274.39	-354.61	-107.11	214.22	237.43	0.00	519,205.09	487,466.22
3,400.00	12.70	116.57	3,371.95	-257.05	-116.94	233.88	259.22	0.00	519,195.26	487,485.88
3,500.00	12.70	116.57	3,469.50	-159.50	-126.77	253.54	281.02	0.00	519,185.43	487,505.54
3,600.00	12.70	116.57	3,567.06	-61.94	-136.60	273.21	302.81	0.00	519,175.60	487,525.21
3,700.00	12.70	116.57	3,664.61	35.61	-146.43	292.87	324.60	0.00	519,165.77	487,544.87
3,736.00	12.70	116.57	3,699.73	70.73	-149.97	299.95	332.45	0.00	519,162.23	487,551.95
LP@3700' TVD										
3,736.28	12.70	116.57	3,700.00	71.00	-150.00	300.00	332.51	0.00	519,162.20	487,552.00
3,800.00	12.61	107.84	3,762.18	133.18	-155.26	312.89	346.13	3.00	519,156.94	487,564.89
3,838.62	12.70	102.56	3,799.86	170.86	-157.48	321.04	354.12	3.00	519,154.72	487,573.04
3,900.00	12.70	102.56	3,859.74	230.74	-160.41	334.21	366.67	0.00	519,151.79	487,586.21
4,000.00	12.70	102.56	3,957.30	328.30	-165.19	355.66	387.11	0.00	519,147.01	487,607.66
4,100.00	12.70	102.56	4,054.85	425.85	-169.97	377.11	407.56	0.00	519,142.23	487,629.11
4,200.00	12.70	102.56	4,152.41	523.41	-174.76	398.57	428.00	0.00	519,137.44	487,650.57
4,300.00	12.70	102.56	4,249.96	620.96	-179.54	420.02	448.44	0.00	519,132.66	487,672.02

Pathfinder X & Y Survey

Company: Marbob
 Project: Eddy County
 Site: Michalada Federal #6D
 Well: Michalada Federal #6D
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well Michalada Federal #6D
 TVD Reference: WELL @ 3629.00ft (Original Well Elev)
 MD Reference: WELL @ 3629.00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.16 Single user database

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)
4,400.00	12.70	102.56	4,347.52	718.52	-184.32	441.47	468.88	0.00	519,127.88	487,693.47
4,500.00	12.70	102.56	4,445.07	816.07	-189.10	462.92	489.32	0.00	519,123.10	487,714.92
4,556.30	12.70	102.56	4,500.00	871.00	-191.79	475.00	500.83	0.00	519,120.41	487,727.00

PBHL@4500' TVD

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
LPP Michilada@3700 - plan hits target - Point	0.00	360.00	3,700.00	-150.00	300.00	519,162.200	487,552.000	32° 25' 38.222 N	104° 22' 25.237 W
PBHL MICH@4500' - plan hits target - Point	0.00	360.00	4,500.00	-191.79	475.00	519,120.410	487,727.000	32° 25' 37.809 N	104° 22' 23.195 W

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,084.00	2,084.00	0.00	0.00	KOP@2084'MD
2,330.00	2,328.11	-11.76	23.53	Building Inc 12.7Deg@5Deg/100'
3,736.00	3,699.73	-149.97	299.95	LP@3700' TVD
4,556.30	4,500.00	-191.79	475.00	PBHL@4500' TVD

Checked By: _____ Approved By: _____ Date: _____

MARBOB ENERGY CORP.



Azimuths to Grid North
True North: 0.02°
Magnetic North: 8.30°

Magnetic Field
Strength: 48946.3nT
Dip Angle: 60.31°
Date: 9/9/2008
Model: IGRF200510

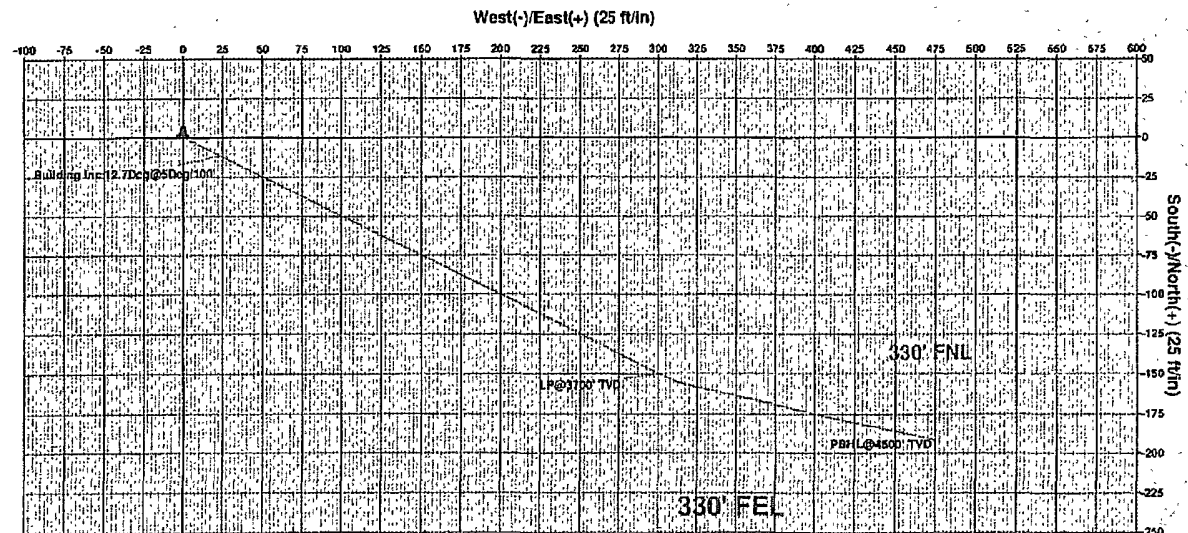
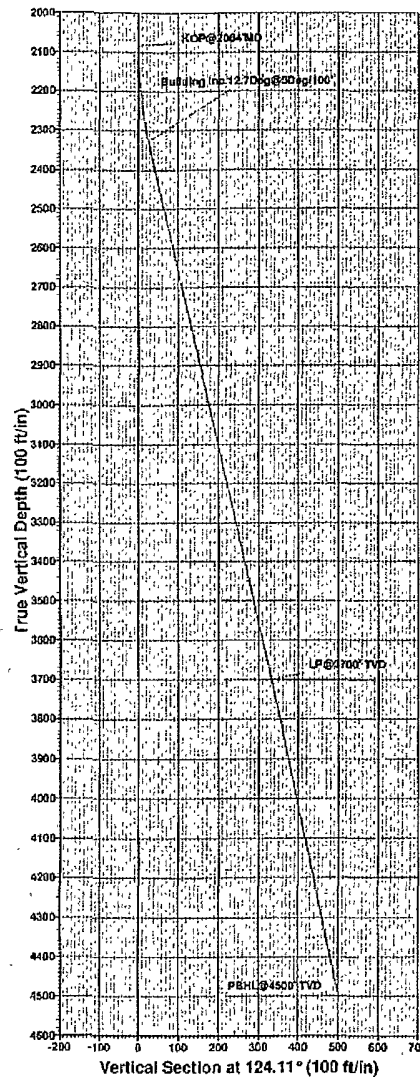
PATHFINDER ENERGY SERVICES

Project: Eddy County
Site: Michalada Federal #6D
Well: Michalada Federal #6D
Wellbore: OH
Plan: Plan #1 (Michalada Federal #6D/OH)

WELL DETAILS: Michalada Federal #6D						
Ground Elevation: 3629.00						
RKB Elevation: WELL @ 3629.00ft (Original Well Elev)						
Rig Name: Original Well Elev						
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	519312.200	487252.000	32°25'39.705 N	104°22'26.736 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N-S	+E-W	North	Easting	Shape
LPP Michalada@3700 TVD	3700.00	-180.00	300.00	519172.200	487562.000	Point
PSHL MCH#6@4500 TVD	4500.00	-191.79	475.00	519120.410	487727.000	Point

SECTION DETAILS										
Sec	MD	Ino	Azi	TVD	+N-S	+E-W	DLog	TFree	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2084.00	0.00	0.00	2084.00	0.00	0.00	0.00	0.00	0.00	
3	2337.97	12.70	116.57	2335.90	-12.54	25.07	5.00	116.57	27.79	
4	3736.28	12.70	116.57	3700.00	-190.00	300.00	0.00	0.00	332.61	LPP Michalada@3700 TVD
5	3838.62	12.70	102.66	3798.86	-157.48	321.04	3.00	-95.88	354.12	
6	4558.30	12.70	102.66	4500.00	-191.79	475.00	0.00	0.00	500.63	PSHL MCH#6@4500 TVD



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: Grid

Plan: Plan #1 (Michalada Federal #6D/OH)	
Created By: Nate Bingham	Date: 6/27/2008 10:20:00
Checked: _____	Date: _____