

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO 1004-0135
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.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1 Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No MARTHA AIK FEDERAL 10H
2 Name of Operator YATES PETROLEUM CORPORATION		9 API Well No. 30-015-37509-00-X1
3a Address 105 SOUTH FOURTH STREET ARTESIA, NM 88210	3b Phone No (include area code) Ph: 575-748-4211	10. Field and Pool, or Exploratory LIVINGSTON RIDGE
4 Location of Well (Footage, Sec, T, R, M, or Survey Description) Sec 11 T22S R31E NWSE 1780FSL 178FEL		11 County or Parish, and State EDDY COUNTY, NM

12. CHECK 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 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Yates Petroleum Corporation respectfully requests to change the intermediate casing set depth to 4500' Casing and Cement as follows:

Casing:

9 5/8" 40# HCK-55 LT&C 0'-80'

9 5/8" 36# J-55 LT&C 80'-3200'

9 5/8" 40# HCK-55 LT&C 3200'-4500'

Cement:

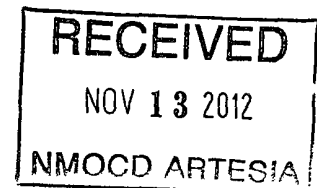
Lead - 1270sx of 35.65.6 PozC (YLD 2 WT 12.5)

Tail - 210sx ov Class C (YLD 1.34 WT 14.8) 0'-4500'

Cement designed with 100% excess

Accepted for record
NMOCD

Tes
11/14/2012



14 I hereby certify that the foregoing is true and correct	
Electronic Submission #157203 verified by the BLM Well Information System For YATES PETROLEUM CORPORATION, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 11/08/2012 (13KMS3750SE)	
Name (Printed/Typed) TROY M PETERSON	Title WELL PLANNER
Signature (Electronic Submission)	Date 11/01/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS	Title PETROLEUM ENGINEER	Date 11/09/2012
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 Carlsbad

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****



ATES
PETROLEUM
CORPORATION

Yates Petroleum Corp.

Eddy County (NAD 83)

Martha AIK Federal

#10H

OH

Plan: Plan #3

PathfinderX & Y Report

29 October, 2012

PATHFINDER®

A Schlumberger Company



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 18 @ 3602.0usft (Silver Oak 10)
Site:	Martha AIK Federal	MD Reference:	KB = 18 @ 3602.0usft (Silver Oak 10)
Well:	#10H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	EDM 5000.1 Single User Db

Project	Eddy County (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Martha AIK Federal		
Site Position:		Northing:	512,888.500 usft
From:	Map	Easting:	682,912.800 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.409163
		Longitude:	-103.874574
		Grid Convergence:	0.25 °

Well		#10H				
Well Position	+N/-S	0.0 usft	Northing:	511,100.714 usft	Latitude:	32.403690
	+E/-W	0.0 usft	Easting:	724,249.800 usft	Longitude:	-103.740664
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,584.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	8/14/2012	7.53	60.32	48,629

Design	Plan #3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	270.81

Survey Tool Program		Date 10/29/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	12,592.0	Plan #3 (OH)	MWD	MWD - Standard



Pathfinder

PathfinderX & Y Report



A Schlumberger Company

Company: Yates Petroleum Corp.
 Project: Eddy County (NAD 83)
 Site: Martha AIK Federal
 Well: #10H
 Wellbore: OH
 Design: Plan #3

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well #10H

KB = 18 @ 3602.0usft (Silver Oak 10)

KB = 18 @ 3602.0usft (Silver Oak 10)

Grid

Minimum Curvature

EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.0	0.00	0.00	0.0	-3,602.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
100.0	0.00	0.00	100.0	-3,502.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
200.0	0.00	0.00	200.0	-3,402.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
300.0	0.00	0.00	300.0	-3,302.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
400.0	0.00	0.00	400.0	-3,202.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
500.0	0.00	0.00	500.0	-3,102.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
600.0	0.00	0.00	600.0	-3,002.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
700.0	0.00	0.00	700.0	-2,902.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
800.0	0.00	0.00	800.0	-2,802.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
900.0	0.00	0.00	900.0	-2,702.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
1,000.0	0.00	0.00	1,000.0	-2,602.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
1,100.0	0.00	0.00	1,100.0	-2,502.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
1,200.0	0.00	0.00	1,200.0	-2,402.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
1,300.0	0.00	0.00	1,300.0	-2,302.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
1,400.0	0.00	0.00	1,400.0	-2,202.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
1,500.0	0.00	0.00	1,500.0	-2,102.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
1,600.0	0.00	0.00	1,600.0	-2,002.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
1,700.0	0.00	0.00	1,700.0	-1,902.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
1,800.0	0.00	0.00	1,800.0	-1,802.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
1,900.0	0.00	0.00	1,900.0	-1,702.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
2,000.0	0.00	0.00	2,000.0	-1,602.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
2,100.0	0.00	0.00	2,100.0	-1,502.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
2,200.0	0.00	0.00	2,200.0	-1,402.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
2,300.0	0.00	0.00	2,300.0	-1,302.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
2,400.0	0.00	0.00	2,400.0	-1,202.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
2,500.0	0.00	0.00	2,500.0	-1,102.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80
2,600.0	0.00	0.00	2,600.0	-1,002.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 18 @ 3602.0usft (Silver Oak 10)
Site:	Martha Aik Federal	MD Reference:	KB = 18 @ 3602.0usft (Silver Oak 10)
Well:	#10H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	EDM 5000.1 Single User.Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
2,700.0	0.00	0.00	2,700.0	-902.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80	
2,800.0	0.00	0.00	2,800.0	-802.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80	
2,900.0	0.00	0.00	2,900.0	-702.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80	
3,000.0	0.00	0.00	3,000.0	-602.0	0.0	0.0	0.0	0.00	511,100.71	724,249.80	
3,100.0	2.00	0.00	3,100.0	-502.0	1.7	0.0	0.0	2.00	511,102.46	724,249.80	
3,200.0	4.00	0.00	3,199.8	-402.2	7.0	0.0	0.1	2.00	511,107.69	724,249.80	
3,250.0	5.00	0.00	3,249.7	-352.3	10.9	0.0	0.2	2.00	511,111.62	724,249.80	
3,300.0	5.00	0.00	3,299.5	-302.5	15.3	0.0	0.2	0.00	511,115.97	724,249.80	
3,400.0	5.00	0.00	3,399.1	-202.9	24.0	0.0	0.3	0.00	511,124.69	724,249.80	
3,500.0	5.00	0.00	3,498.7	-103.3	32.7	0.0	0.5	0.00	511,133.41	724,249.80	
3,573.4	5.00	0.00	3,571.9	-30.1	39.1	0.0	0.6	0.00	511,139.81	724,249.80	
3,600.0	4.47	0.00	3,598.4	-3.6	41.3	0.0	0.6	2.00	511,142.00	724,249.80	
3,700.0	2.47	0.00	3,698.2	96.2	47.3	0.0	0.7	2.00	511,148.05	724,249.80	
3,800.0	0.47	0.00	3,798.1	196.1	49.9	0.0	0.7	2.00	511,150.62	724,249.80	
3,823.5	0.00	0.00	3,821.6	219.6	50.0	0.0	0.7	2.00	511,150.71	724,249.80	
3,900.0	0.00	0.00	3,898.1	296.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80	
4,000.0	0.00	0.00	3,998.1	396.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80	
4,100.0	0.00	0.00	4,098.1	496.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80	
4,200.0	0.00	0.00	4,198.1	596.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80	
4,300.0	0.00	0.00	4,298.1	696.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80	
4,400.0	0.00	0.00	4,398.1	796.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80	
4,500.0	0.00	0.00	4,498.1	896.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80	
4,600.0	0.00	0.00	4,598.1	996.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80	
4,700.0	0.00	0.00	4,698.1	1,096.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80	
4,800.0	0.00	0.00	4,798.1	1,196.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80	
4,900.0	0.00	0.00	4,898.1	1,296.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80	
5,000.0	0.00	0.00	4,998.1	1,396.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80	



Pathfinder PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 18 @ 3602.0usft (Silver Oak 10)
Site:	Martha Alk Federal	MD Reference:	KB = 18 @ 3602.0usft (Silver Oak 10)
Well:	#10H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	EDM 5000.1 Single User Db

Planned Survey												
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)		
5,100.0	0.00	0.00	5,098.1	1,496.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
5,200.0	0.00	0.00	5,198.1	1,596.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
5,300.0	0.00	0.00	5,298.1	1,696.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
5,400.0	0.00	0.00	5,398.1	1,796.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
5,500.0	0.00	0.00	5,498.1	1,896.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
5,600.0	0.00	0.00	5,598.1	1,996.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
5,700.0	0.00	0.00	5,698.1	2,096.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
5,800.0	0.00	0.00	5,798.1	2,196.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
5,900.0	0.00	0.00	5,898.1	2,296.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
6,000.0	0.00	0.00	5,998.1	2,396.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
6,100.0	0.00	0.00	6,098.1	2,496.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
6,200.0	0.00	0.00	6,198.1	2,596.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
6,300.0	0.00	0.00	6,298.1	2,696.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
6,400.0	0.00	0.00	6,398.1	2,796.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
6,500.0	0.00	0.00	6,498.1	2,896.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
6,600.0	0.00	0.00	6,598.1	2,996.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
6,700.0	0.00	0.00	6,698.1	3,096.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
6,800.0	0.00	0.00	6,798.1	3,196.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
6,900.0	0.00	0.00	6,898.1	3,296.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
7,000.0	0.00	0.00	6,998.1	3,396.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
7,100.0	0.00	0.00	7,098.1	3,496.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
7,200.0	0.00	0.00	7,198.1	3,596.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
7,300.0	0.00	0.00	7,298.1	3,696.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
7,400.0	0.00	0.00	7,398.1	3,796.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
7,500.0	0.00	0.00	7,498.1	3,896.1	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
7,549.5	0.00	0.00	7,547.6	3,945.6	50.0	0.0	0.7	0.00	511,150.71	724,249.80		
7,575.0	3.06	270.21	7,573.1	3,971.1	50.0	-0.7	1.4	12.00	511,150.72	724,249.12		

Company: Yates Petroleum Corp.
 Project: Eddy County (NAD-83)
 Site: Martha Aik Federal
 Well: #10H
 Wellbore: OH
 Design: Plan #3

Local Co-ordinate Reference: Well #10H
 TVD Reference: KB = 18 @ 3602.0usft (Silver Oak 10)
 MD Reference: KB = 18 @ 3602.0usft (Silver Oak 10)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
7,600.0	6.06	270.21	7,598.0	3,996.0	50.0	-2.7	3.4	12.00	511,150.72	724,247.13
7,625.0	9.06	270.21	7,622.8	4,020.8	50.0	-6.0	6.7	12.00	511,150.74	724,243.84
7,650.0	12.06	270.21	7,647.4	4,045.4	50.0	-10.5	11.3	12.00	511,150.75	724,239.25
7,675.0	15.06	270.21	7,671.7	4,069.7	50.1	-16.4	17.1	12.00	511,150.77	724,233.39
7,700.0	18.06	270.21	7,695.7	4,093.7	50.1	-23.5	24.2	12.00	511,150.80	724,226.27
7,725.0	21.06	270.21	7,719.2	4,117.2	50.1	-31.9	32.6	12.00	511,150.83	724,217.90
7,750.0	24.06	270.21	7,742.3	4,140.3	50.2	-41.5	42.2	12.00	511,150.87	724,208.30
7,775.0	27.06	270.21	7,764.8	4,162.8	50.2	-52.3	53.0	12.00	511,150.91	724,197.52
7,800.0	30.06	270.21	7,786.8	4,184.8	50.2	-64.2	64.9	12.00	511,150.95	724,185.56
7,825.0	33.06	270.21	7,808.1	4,206.1	50.3	-77.3	78.0	12.00	511,151.00	724,172.48
7,850.0	36.06	270.21	7,828.7	4,226.7	50.3	-91.5	92.2	12.00	511,151.05	724,158.30
7,875.0	39.06	270.21	7,848.5	4,246.5	50.4	-106.7	107.4	12.00	511,151.11	724,143.06
7,900.0	42.06	270.21	7,867.5	4,265.5	50.5	-123.0	123.7	12.00	511,151.17	724,126.80
7,925.0	45.06	270.21	7,885.6	4,283.6	50.5	-140.2	140.9	12.00	511,151.23	724,109.58
7,950.0	48.06	270.21	7,902.8	4,300.8	50.6	-158.4	159.1	12.00	511,151.30	724,091.43
7,975.0	51.06	270.21	7,919.0	4,317.0	50.7	-177.4	178.1	12.00	511,151.37	724,072.40
8,000.0	54.06	270.21	7,934.2	4,332.2	50.7	-197.2	197.9	12.00	511,151.44	724,052.55
8,025.0	57.06	270.21	7,948.3	4,346.3	50.8	-217.9	218.6	12.00	511,151.52	724,031.93
8,050.0	60.06	270.21	7,961.4	4,359.4	50.9	-239.2	239.9	12.00	511,151.60	724,010.61
8,075.0	63.06	270.21	7,973.3	4,371.3	51.0	-261.2	261.9	12.00	511,151.68	723,988.63
8,100.0	66.06	270.21	7,984.0	4,382.0	51.1	-283.7	284.4	12.00	511,151.76	723,966.05
8,125.0	69.06	270.21	7,993.5	4,391.5	51.1	-306.9	307.5	12.00	511,151.85	723,942.95
8,150.0	72.06	270.21	8,001.9	4,399.9	51.2	-330.4	331.1	12.00	511,151.94	723,919.37
8,175.0	75.06	270.21	8,008.9	4,406.9	51.3	-354.4	355.1	12.00	511,152.03	723,895.40
8,200.0	78.06	270.21	8,014.7	4,412.7	51.4	-378.7	379.4	12.00	511,152.12	723,871.09
8,225.0	81.06	270.21	8,019.3	4,417.3	51.5	-403.3	404.0	12.00	511,152.21	723,846.50
8,250.0	84.06	270.21	8,022.5	4,420.5	51.6	-428.1	428.8	12.00	511,152.30	723,821.72



Pathfinder PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 18 @ 3602.0usft (Silver Oak 10)
Site:	Martha AIK Federal	MD Reference:	KB = 18 @ 3602.0usft (Silver Oak 10)
Well:	#10H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	EDM 5000.1 Single User Db

Planned Survey												
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V.Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)		
8,275.0	87.06	270.21	8,024.4	4,422.4	51.7	-453.0	453.7	12.00	511,152.39	723,796.79		
8,300.0	90.06	270.21	8,025.1	4,423.1	51.8	-478.0	478.7	12.00	511,152.48	723,771.80		
8,306.7	90.87	270.21	8,025.0	4,423.0	51.8	-484.7	485.4	12.00	511,152.51	723,765.10		
8,400.0	90.87	270.21	8,023.6	4,421.6	52.1	-578.0	578.7	0.00	511,152.85	723,671.82		
8,500.0	90.87	270.21	8,022.1	4,420.1	52.5	-678.0	678.6	0.00	511,153.22	723,571.83		
8,600.0	90.87	270.21	8,020.6	4,418.6	52.9	-778.0	778.6	0.00	511,153.59	723,471.84		
8,700.0	90.87	270.21	8,019.0	4,417.0	53.3	-877.9	878.6	0.00	511,153.97	723,371.85		
8,800.0	90.87	270.21	8,017.5	4,415.5	53.6	-977.9	978.6	0.00	511,154.34	723,271.86		
8,900.0	90.87	270.21	8,016.0	4,414.0	54.0	-1,077.9	1,078.6	0.00	511,154.71	723,171.88		
9,000.0	90.87	270.21	8,014.5	4,412.5	54.4	-1,177.9	1,178.6	0.00	511,155.08	723,071.89		
9,100.0	90.87	270.21	8,013.0	4,411.0	54.7	-1,277.9	1,278.5	0.00	511,155.45	722,971.90		
9,200.0	90.87	270.21	8,011.5	4,409.5	55.1	-1,377.9	1,378.5	0.00	511,155.82	722,871.91		
9,300.0	90.87	270.21	8,009.9	4,407.9	55.5	-1,477.9	1,478.5	0.00	511,156.19	722,771.93		
9,400.0	90.87	270.21	8,008.4	4,406.4	55.8	-1,577.9	1,578.5	0.00	511,156.56	722,671.94		
9,500.0	90.87	270.21	8,006.9	4,404.9	56.2	-1,677.8	1,678.5	0.00	511,156.93	722,571.95		
9,600.0	90.87	270.21	8,005.4	4,403.4	56.6	-1,777.8	1,778.5	0.00	511,157.30	722,471.96		
9,700.0	90.87	270.21	8,003.9	4,401.9	57.0	-1,877.8	1,878.4	0.00	511,157.67	722,371.97		
9,800.0	90.87	270.21	8,002.4	4,400.4	57.3	-1,977.8	1,978.4	0.00	511,158.04	722,271.99		
9,900.0	90.87	270.21	8,000.8	4,398.8	57.7	-2,077.8	2,078.4	0.00	511,158.41	722,172.00		
10,000.0	90.87	270.21	7,999.3	4,397.3	58.1	-2,177.8	2,178.4	0.00	511,158.78	722,072.01		
10,100.0	90.87	270.21	7,997.8	4,395.8	58.4	-2,277.8	2,278.4	0.00	511,159.15	721,972.02		
10,200.0	90.87	270.21	7,996.3	4,394.3	58.8	-2,377.8	2,378.4	0.00	511,159.52	721,872.04		
10,300.0	90.87	270.21	7,994.8	4,392.8	59.2	-2,477.8	2,478.3	0.00	511,159.89	721,772.05		
10,400.0	90.87	270.21	7,993.3	4,391.3	59.5	-2,577.7	2,578.3	0.00	511,160.26	721,672.06		
10,500.0	90.87	270.21	7,991.7	4,389.7	59.9	-2,677.7	2,678.3	0.00	511,160.63	721,572.07		
10,600.0	90.87	270.21	7,990.2	4,388.2	60.3	-2,777.7	2,778.3	0.00	511,161.00	721,472.08		
10,700.0	90.87	270.21	7,988.7	4,386.7	60.7	-2,877.7	2,878.3	0.00	511,161.37	721,372.10		



Pathfinder
PathfinderX & Y Report



A Schlumberger Company

Company: Yates Petroleum Corp.
Project: Eddy County (NAD 83)
Site: Martha A/K Federal
Well: #10H
Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference: Well #10H
TVD Reference: KB = 18' @ 3602.0usft (Silver Oak 10)
MD Reference: KB = 18' @ 3602.0usft (Silver Oak 10)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
10,800.0	90.87	270.21	7,987.2	4,385.2	61.0	-2,977.7	2,978.3	0.00	511,161.74	721,272.11	
10,900.0	90.87	270.21	7,985.7	4,383.7	61.4	-3,077.7	3,078.2	0.00	511,162.11	721,172.12	
11,000.0	90.87	270.21	7,984.2	4,382.2	61.8	-3,177.7	3,178.2	0.00	511,162.48	721,072.13	
11,100.0	90.87	270.21	7,982.6	4,380.6	62.1	-3,277.7	3,278.2	0.00	511,162.85	720,972.15	
11,200.0	90.87	270.21	7,981.1	4,379.1	62.5	-3,377.6	3,378.2	0.00	511,163.22	720,872.16	
11,300.0	90.87	270.21	7,979.6	4,377.6	62.9	-3,477.6	3,478.2	0.00	511,163.59	720,772.17	
11,400.0	90.87	270.21	7,978.1	4,376.1	63.2	-3,577.6	3,578.2	0.00	511,163.96	720,672.18	
11,500.0	90.87	270.21	7,976.6	4,374.6	63.6	-3,677.6	3,678.1	0.00	511,164.33	720,572.19	
11,600.0	90.87	270.21	7,975.1	4,373.1	64.0	-3,777.6	3,778.1	0.00	511,164.70	720,472.21	
11,700.0	90.87	270.21	7,973.5	4,371.5	64.4	-3,877.6	3,878.1	0.00	511,165.07	720,372.22	
11,800.0	90.87	270.21	7,972.0	4,370.0	64.7	-3,977.6	3,978.1	0.00	511,165.44	720,272.23	
11,900.0	90.87	270.21	7,970.5	4,368.5	65.1	-4,077.6	4,078.1	0.00	511,165.81	720,172.24	
12,000.0	90.87	270.21	7,969.0	4,367.0	65.5	-4,177.5	4,178.1	0.00	511,166.18	720,072.25	
12,100.0	90.87	270.21	7,967.5	4,365.5	65.8	-4,277.5	4,278.0	0.00	511,166.55	719,972.27	
12,200.0	90.87	270.21	7,966.0	4,364.0	66.2	-4,377.5	4,378.0	0.00	511,166.92	719,872.28	
12,300.0	90.87	270.21	7,964.4	4,362.4	66.6	-4,477.5	4,478.0	0.00	511,167.29	719,772.29	
12,400.0	90.87	270.21	7,962.9	4,360.9	67.0	-4,577.5	4,578.0	0.00	511,167.67	719,672.30	
12,500.0	90.87	270.21	7,961.4	4,359.4	67.3	-4,677.5	4,678.0	0.00	511,168.04	719,572.32	
12,592.5	90.87	270.21	7,960.0	4,358.0	67.7	-4,770.0	4,770.5	0.00	511,168.38	719,479.81	

PBHL (Martha A/K Federal #10H)

Checked By: _____ Approved By: _____ Date: _____

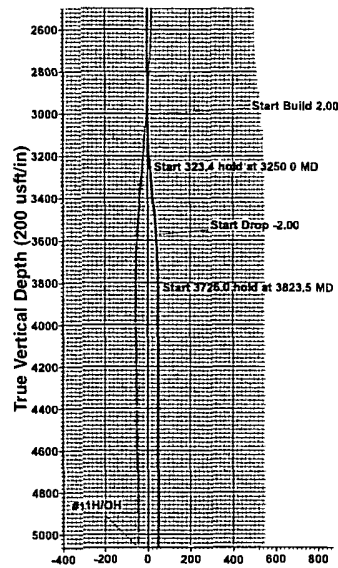


Project: Eddy County (NAD 83)
Site: Martha AIK Federal
Well: #10H
Wellbore: OH
Plan: Plan #3

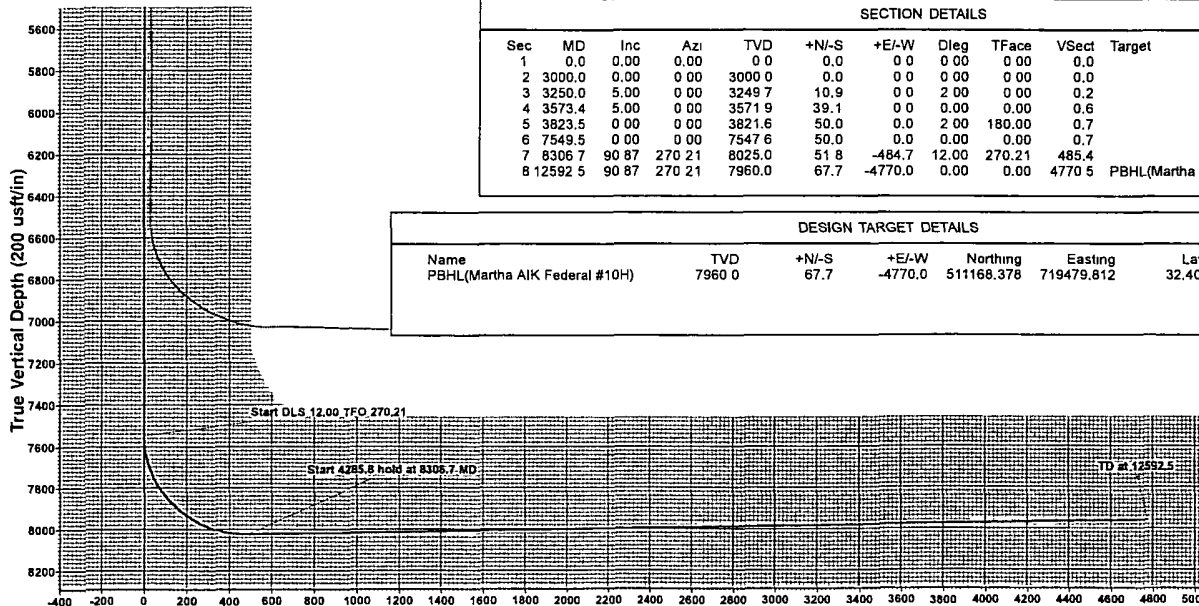
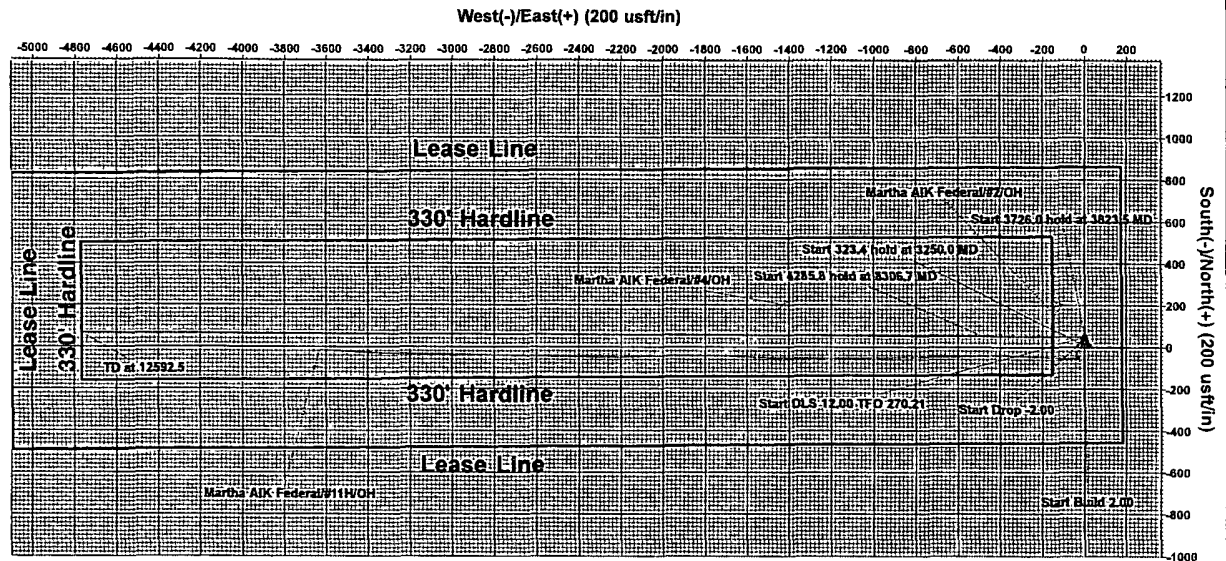
PROJECT DETAILS: Eddy County (NAD 83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid



A Schlumberger Company



Project: Eddy County (NAD 83)
Site: Martha AIK Federal
Well: #10H
Wellbore: OH
Plan: Plan #3 (#10H/OH)



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3250.0	5.00	0.00	3249.7	10.9	0.0	2.00	0.00	0.2	
4	3573.4	5.00	0.00	3571.9	39.1	0.0	0.00	0.00	0.6	
5	3823.5	0.00	0.00	3821.6	50.0	0.0	2.00	180.00	0.7	
6	7549.5	0.00	0.00	7547.6	50.0	0.0	0.00	0.00	0.7	
7	8306.7	90.87	270.21	8025.0	51.8	-484.7	12.00	270.21	485.4	
8	12592.5	90.87	270.21	7960.0	67.7	-4770.0	0.00	0.00	4770.5	PBHL(Martha AIK Federal #10H)

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL(Martha AIK Federal #10H)	7960.0	67.7	-4770.0	511168.378	719479.812	32.403948	-103.756118



Azimuths to Grid North
True North: -0.32°
Magnetic North: 7.21°

Magnetic Field
Strength: 48629.2snT
Dip Angle: 60.32°
Date: 8/14/2012
Model: IGRF200510

WELL DETAILS: #10H					
Ground Elevation: 3584.0					
RKB Elevation: KB = 18 @ 3602.0usft (Silver Oak 10)					
Rig Name: Silver Oak 10					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	511100.714	724249.800	32.403690	-103.740664

Plan: Plan #3 (#10H/OH)	
Created By: Sam Bille	Date: 16.58, October 29 2012
Checked: _____	Date: _____

Well Pathfinder Data
Eddy County (NAD 83)
Silver Oak 10
Plan #3
Page 10