

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.
NM-65417

6 If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1 Type of Well

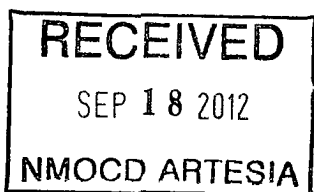
☒ Oil Well ☐ Gas Well ☐ Other2 Name of Operator
Yates Petroleum Corporation8. Well Name and No
Martha AIK Federal #10H3a Address
105 S. Fourth St
Artesia, NM 882103b Phone No (include area code)
575-748-41209. API Well No.
300153750910 Field and Pool or Exploratory Area
Undesignated/Brushy Canyon4 Location of Well (Footage, Sec., T., R., M., or Survey Description)
1780' FSL & 178' FEL SHL Section 11 T22S-R31E
1880' FSL & 330' FWL BHL Section 11 T22S-R31E11. Country or Parish, State
Eddy

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 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.)

Yates Petroleum Corporation would like to change the surface hole location from 1880' FSL & 200' FEL to 1780' FSL & 178' FEL both locations being located in Section 11 of Township 22S and Range 31E. Please note attached is the new drilling plan, horizontal drilling plan and anti collision report.



APPROVED BY POTASH; 8-27-2012; JSR

Accepted for record
NMOC D 105/9/19/2012

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

Title Land Regulatory Agent

Signature

Travis Hahn

Date 08/14/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/s/ Don Peterson

FIELD MANAGER

Date

SEP 14 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 FIELD OFFICE

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., Hobbs, NM 88240

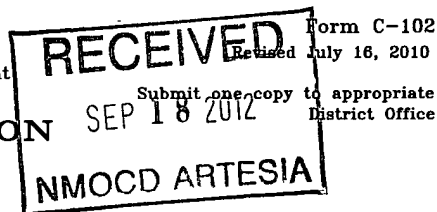
DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505



WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
		Brushy Canyon/Undesignated
Property Code	Property Name	Well Number
	MARTHA "AIK" FEDERAL	10H
OGRID No.	Operator Name	Elevation
025575	YATES PETROLEUM CORP.	3505

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	11	22 S	31 E		1780	SOUTH	178	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
L	11	22 S	31 E		1880	SOUTH	330	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

PROPOSED BOTTOM HOLE LOCATION Lat - N 32°24'14.21" Long - W 103°45'22.02" NMSPCE- N 511168.378 E 719479.812 (NAD-83)		Penetration Point 1787' FSL & Project Area 655' FEL		SURFACE LOCATION Lat - N 32°24'13.28" Long - W 103°44'26.39" NMSPCE- N 511100.714 E 724249.80 (NAD-83)	
Producing Zone					
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 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. 8/16/12 Signature Date Travis Hahn Printed Name thahn@yatespetroleum.com Email Address					
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. 7977 Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS 27198					

YATES PETROLEUM CORPORATION

Martha AIK Federal #10H
1780' FNL & 178' FEL, Surface Hole
1880' FNL & 330' FWL, Bottom Hole
Section 11 -T22S-R31E
Eddy County, New Mexico

1. The estimated tops of geologic markers are as follows:

Rustler	755'	Brushy Canyon	7150' Oil
Top of Salt	1000'	Brushy Canyon Marker	8082' Oil MD
Base of Salt	3958'	Brushy Sand Target	8593' Oil MD
Bell Canyon	4540'	Delaware Target	12866' Oil MD
Cherry Canyon	5480' Oil	TD	12866' MD
Livingston Ridge	7010' Oil		

2. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water: Approx. 0' - 800'

Oil or Gas: Oil Zones: 5480', 7010', 7150', 8050', 8593', 12863'

3. Pressure Control Equipment: 3000 PSI BOPE with a 13.625" opening will be installed on the 13.375 casing and also on the 9 5/8" casing. Pressure tests to 3000 PSI and held for 30 minutes will be conducted before drilling out from under all casing strings, which are set and cemented in place. Blowout Preventer controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

4. Auxiliary Equipment:

- A. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.

1. THE PROPOSED CASING AND CEMENTING PROGRAM:

- A. Casing Program: (All New)

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt./Ft</u>	<u>Grade</u>	<u>Coupling</u>	<u>Interval</u>	<u>Length</u>
17 1/2"	13 3/8"	48#	J-55	ST&C	0-800'	800'
12 1/4"	9 5/8"	40#	J-55	LT&C	0-100'	100'
12 1/4"	9 5/8"	36#	K-55	LT&C	100-3300'	3200'
12 1/4"	9 5/8"	40#	J-55	LT&C	3300-4350'	1050'
8 3/4"	5 1/2"	17#	P-110	LT&C	0-7800'	7800'
8 1/2"	5 1/2"	17#	L-80	LT&C	7800'-12863'	5063'

Minimum Casing Design Factors: Burst 1.0, Tensile 1.8, Collapse 1.125

B. CEMENTING PROGRAM:

Surface Casing: 425 sacks Class C Lite + 2% CaCl₂ (YLD 2.00 WT. 12.50). Tail in with 210 sacks Class C + 2% CaCl₂ (WT 14.80, YLD 1.34). Designed with 100% excess. TOC-Surface.

Intermediate Casing: Lead with 1225 sacks Class C Lite + 2% CaCl₂ (YLD 2.00 WT 12.50); tail in with 210 sacks Class C + 2% CaCl₂ (YLD 1.34 WT. 14.80). Designed with 100% excess. TOC-Surface

Production Casing: Cement to be done in three stages.

Stage 1 from 7400'-12886'; cement with 1400 sacks Pecos Valley Lite (YLD 1.83 WT. 13.00). 30%CaCO₃, 3.2% Expansion additive, 2% Antifoam, .8% Retarder, 15 Fluid loss. Designed with 35% excess. TOC-7400'

Stage 2 from 5000'-7400'; Lead with 530 sacks of Class C Lite (YLD 2.00 WT 12.50) CaCl₂ +2%. Tail with 100 sacks of Pecos Valley Lite (WT 13.00, YLD 1.41), 30%CaCO₃, 3.2% Expansion additive, 2% Antifoam, 8% Retarder, 15 Fluid loss. Designed with 35% excess.

Stage 3 from 0'-5000'; Lead with 1200' sacks of Class C Lite (WT 12.50, YLD 2.00) CaCl₂ +2%. Tail with 100 sacks of Pecos Valley Lite (WT 13.00, YLD 1.41) 30%CaCO₃, 3.2% Expansion additive, 2% Antifoam, .8% Retarder, 15 Fluid loss. Designed with 35% excess.

Well will be drilled vertically depth to 7843'. Well will be kicked off at approximately 7843' and directionally drilled at 12 degrees per 100' with a 8 3/4" hole to 8593' MD (8320' TVD). Hole will then be reduced to 8 1/2" and drilled to 12886' MD (8320' TVD) where 5 1/2" casing will be set and cemented. Penetration point of producing zone will be encountered at 1787' FSL & 655' FEL, Section 11-22S-31E. Deepest TVD is 8320' in the lateral. NO PILOT HOLE.

5. Mud Program and Auxiliary Equipment:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-800'	Fresh Water Gel	8.6-9.2	32-34	N/C
800'-4350'	Brine Water	10.0-10.10	28-28	N/C
4350'-12886'	Cut Brine	8.7-9.1	28-28	<10-12

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Mud will be checked hourly by rig personnel.

6. EVALUATION PROGRAM:

Samples: 10' Samples from Intermediate casing.

Logging: Platform Express through curve.

CNL/LDT/NGT – through curve to Intermediate casing

CNL/GR – through curve to surface

DLL-MSFL – through curve to surface casing

GHC Sonic-CMR – through curve to surface casing
MWD-GR – Horizontal
Coring: TBD.
DST's: TBD.
Mudlogger: TBD.

7. Abnormal Conditions, Bottom hole pressure and potential hazards:

Anticipated BHP:

From: 0	TO: 800'	Anticipated Max. BHP:	385	PSI
From: 800'	TO: 4350'	Anticipated Max. BHP:	2285	PSI
From: 4350'	TO: 8320'	Anticipated Max. BHP	3940	PSI

No abnormal pressures or temperatures are anticipated.

Possible water flow below 2800'

H2S may be encountered on this well.

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 65 days to drill the well with completion taking another 30 days.



Project Eddy County (NAD 83)
Site Martha AIK Federal
Well #10H
Wellbore: OH
Plan Plan #1

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



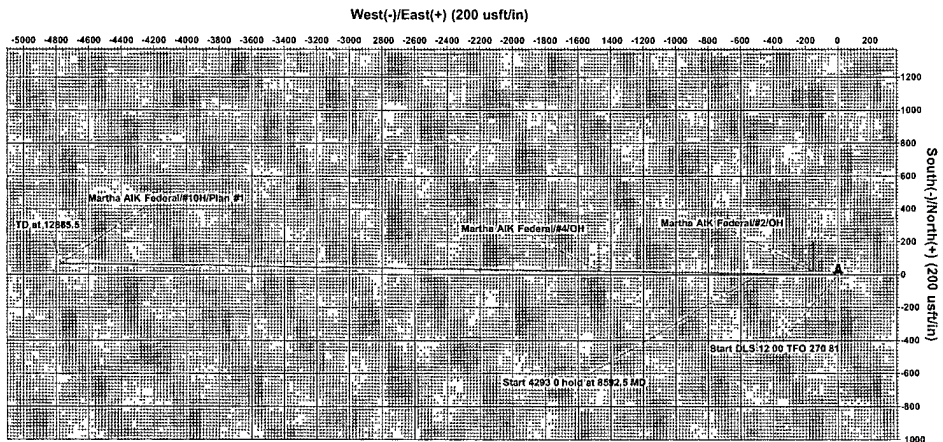
A Schlumberger Company

WELL DETAILS #10H

Ground Elevation 3584.0
RKB Elevation 158.18 @ 3602.0usft (Silver Oak 10)
Rig Name Silver Oak 10

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	511100.714	724249.800	32.404	-103.741	

Project: Eddy County (NAD 83)
Site: Martha AIK Federal
Well: #10H
Wellbore: OH
Plan: Plan #1 (#10H/OH)

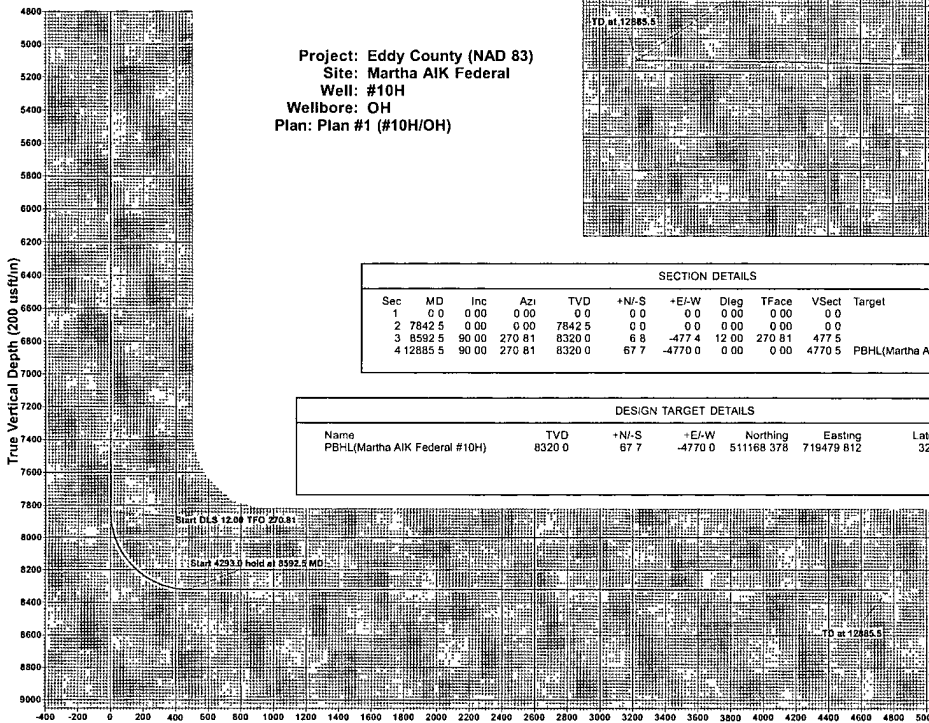


SECTION DETAILS

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	7842.5	0.00	0.00	7842.5	0.0	0.0	0.00	0.00	0.0	
3	8592.5	90.00	270.81	8320.0	67.7	-4770.0	12.00	270.81	477.5	
4	12885.5	90.00	270.81	8320.0	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)	8320.0	67.7	-4770.0	511168.378	719479.812	32.404	-103.756



Vertical Section at 270.81° (200 usft/in)



Azimuths to Grid North
True North -0.32°
Magnetic North 7.21°
Magnetic Field
Strength 48629.2nT
Dip Angle 60.32°
Date 8/14/2012
Model IGRF2005.10

Plan Plan #1 (#10H/OH)

Created By Sam Bille Date 9/23 August 14 2012
Checked Date

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SEP 18 2012
NMOCD ARTESIA



**YATES
PETROLEUM
CORPORATION**

Yates Petroleum Corp.

Eddy County (NAD 83)

Martha AIK Federal

#10H

OH

Plan #1

Anticollision Report

13 August, 2012

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NMOCD ARTESIA

PATHFINDER®

A Schlumberger Company



Pathfinder

Anticollision Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Reference Site:	Martha AIK Federal	MD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	#10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User-Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 5,000.0 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	8/13/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	12,830.5	Plan #1 (OH)	MWD	MWD - Standard	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Martha AIK Federal						
#11H - OH - Plan #1	6,460.1	6,539.1	21.0	-7.9	0.726	Level 1, CC, ES, SF
#2 - OH - OH	8,180.4	8,200.5	22.3	-12.9	0.632	Level 1, CC, ES, SF
#4 - OH - OH	9,532.3	8,327.6	9.4	-50.7	0.157	Level 1, CC, ES, SF

Offset Design										Martha AIK Federal - #11H - OH - Plan #1				Offset Site Error		0.0 usft
Survey Program: 0-MWD												Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
0.0	0.0	79.0	0.0	0.0	0.1	-90.47	-0.2	-21.0	21.0							
100.0	100.0	179.0	100.0	0.1	0.3	-90.47	-0.2	-21.0	21.0	20.6	0.37	57.015				
200.0	200.0	279.0	200.0	0.3	0.5	-90.47	-0.2	-21.0	21.0	20.2	0.82	25.688				
300.0	300.0	379.0	300.0	0.5	0.7	-90.47	-0.2	-21.0	21.0	19.7	1.27	16.579				
400.0	400.0	479.0	400.0	0.8	0.9	-90.47	-0.2	-21.0	21.0	19.3	1.72	12.239				
500.0	500.0	579.0	500.0	1.0	1.2	-90.47	-0.2	-21.0	21.0	18.8	2.17	9.700				
600.0	600.0	679.0	600.0	1.2	1.4	-90.47	-0.2	-21.0	21.0	18.4	2.62	8.033				
700.0	700.0	779.0	700.0	1.4	1.6	-90.47	-0.2	-21.0	21.0	18.0	3.07	6.855				
800.0	800.0	879.0	800.0	1.7	1.8	-90.47	-0.2	-21.0	21.0	17.5	3.52	5.979				
900.0	900.0	979.0	900.0	1.9	2.1	-90.47	-0.2	-21.0	21.0	17.1	3.96	5.301				
1,000.0	1,000.0	1,079.0	1,000.0	2.1	2.3	-90.47	-0.2	-21.0	21.0	16.6	4.41	4.761				
1,100.0	1,100.0	1,179.0	1,100.0	2.3	2.5	-90.47	-0.2	-21.0	21.0	16.2	4.86	4.321				
1,200.0	1,200.0	1,279.0	1,200.0	2.6	2.7	-90.47	-0.2	-21.0	21.0	15.7	5.31	3.955				
1,300.0	1,300.0	1,379.0	1,300.0	2.8	3.0	-90.47	-0.2	-21.0	21.0	15.3	5.76	3.647				
1,400.0	1,400.0	1,479.0	1,400.0	3.0	3.2	-90.47	-0.2	-21.0	21.0	14.8	6.21	3.383				
1,500.0	1,500.0	1,579.0	1,500.0	3.2	3.4	-90.47	-0.2	-21.0	21.0	14.4	6.66	3.155				
1,600.0	1,600.0	1,679.0	1,600.0	3.5	3.6	-90.47	-0.2	-21.0	21.0	13.9	7.11	2.955				
1,700.0	1,700.0	1,779.0	1,700.0	3.7	3.9	-90.47	-0.2	-21.0	21.0	13.5	7.56	2.780				
1,800.0	1,800.0	1,879.0	1,800.0	3.9	4.1	-90.47	-0.2	-21.0	21.0	13.0	8.01	2.624				
1,900.0	1,900.0	1,979.0	1,900.0	4.1	4.3	-90.47	-0.2	-21.0	21.0	12.6	8.46	2.484				
2,000.0	2,000.0	2,079.0	2,000.0	4.4	4.5	-90.47	-0.2	-21.0	21.0	12.1	8.91	2.359				
2,100.0	2,100.0	2,179.0	2,100.0	4.6	4.8	-90.47	-0.2	-21.0	21.0	11.7	9.36	2.246				
2,200.0	2,200.0	2,279.0	2,200.0	4.8	5.0	-90.47	-0.2	-21.0	21.0	11.2	9.81	2.143				
2,300.0	2,300.0	2,379.0	2,300.0	5.0	5.2	-90.47	-0.2	-21.0	21.0	10.8	10.26	2.049				

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Pathfinder

Anticollision Report

PATHFINDER

A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Reference Site:	Martha AIK Federal	MD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Gnd
Reference Well:	#10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Martha AIK Federal - #11H - OH - Plan #1														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
2,400.0	2,400.0	2,479.0	2,400.0	5.3	5.4	-90.47	-0.2	-21.0	21.0	10.3	10.71	1.963			
2,500.0	2,500.0	2,579.0	2,500.0	5.5	5.7	-90.47	-0.2	-21.0	21.0	9.9	11.16	1.884			
2,600.0	2,600.0	2,679.0	2,600.0	5.7	5.9	-90.47	-0.2	-21.0	21.0	9.4	11.61	1.811			
2,700.0	2,700.0	2,779.0	2,700.0	5.9	6.1	-90.47	-0.2	-21.0	21.0	9.0	12.06	1.743			
2,800.0	2,800.0	2,879.0	2,800.0	6.2	6.3	-90.47	-0.2	-21.0	21.0	8.5	12.51	1.681			
2,900.0	2,900.0	2,979.0	2,900.0	6.4	6.6	-90.47	-0.2	-21.0	21.0	8.1	12.96	1.622			
3,000.0	3,000.0	3,079.0	3,000.0	6.6	6.8	-90.47	-0.2	-21.0	21.0	7.6	13.41	1.568			
3,100.0	3,100.0	3,179.0	3,100.0	6.8	7.0	-90.47	-0.2	-21.0	21.0	7.2	13.85	1.517			
3,200.0	3,200.0	3,279.0	3,200.0	7.1	7.2	-90.47	-0.2	-21.0	21.0	6.7	14.30	1.469	Level 3		
3,300.0	3,300.0	3,379.0	3,300.0	7.3	7.5	-90.47	-0.2	-21.0	21.0	6.3	14.75	1.425	Level 3		
3,400.0	3,400.0	3,479.0	3,400.0	7.5	7.7	-90.47	-0.2	-21.0	21.0	5.8	15.20	1.382	Level 3		
3,500.0	3,500.0	3,579.0	3,500.0	7.7	7.9	-90.47	-0.2	-21.0	21.0	5.4	15.65	1.343	Level 3		
3,600.0	3,600.0	3,679.0	3,600.0	8.0	8.1	-90.47	-0.2	-21.0	21.0	4.9	16.10	1.305	Level 3		
3,700.0	3,700.0	3,779.0	3,700.0	8.2	8.4	-90.47	-0.2	-21.0	21.0	4.5	16.55	1.270	Level 3		
3,800.0	3,800.0	3,879.0	3,800.0	8.4	8.6	-90.47	-0.2	-21.0	21.0	4.0	17.00	1.236	Level 2		
3,900.0	3,900.0	3,979.0	3,900.0	8.6	8.8	-90.47	-0.2	-21.0	21.0	3.6	17.45	1.204	Level 2		
4,000.0	4,000.0	4,079.0	4,000.0	8.9	9.0	-90.47	-0.2	-21.0	21.0	3.1	17.90	1.174	Level 2		
4,100.0	4,100.0	4,179.0	4,100.0	9.1	9.3	-90.47	-0.2	-21.0	21.0	2.7	18.35	1.145	Level 2		
4,200.0	4,200.0	4,279.0	4,200.0	9.3	9.5	-90.47	-0.2	-21.0	21.0	2.2	18.80	1.118	Level 2		
4,300.0	4,300.0	4,379.0	4,300.0	9.5	9.7	-90.47	-0.2	-21.0	21.0	1.8	19.25	1.092	Level 2		
4,400.0	4,400.0	4,479.0	4,400.0	9.8	9.9	-90.47	-0.2	-21.0	21.0	1.3	19.70	1.067	Level 2		
4,500.0	4,500.0	4,579.0	4,500.0	10.0	10.2	-90.47	-0.2	-21.0	21.0	0.9	20.15	1.043	Level 2		
4,600.0	4,600.0	4,679.0	4,600.0	10.2	10.4	-90.47	-0.2	-21.0	21.0	0.4	20.60	1.020	Level 2		
4,700.0	4,700.0	4,779.0	4,700.0	10.4	10.6	-90.47	-0.2	-21.0	21.0	0.0	21.05	0.999	Level 1		
4,800.0	4,800.0	4,879.0	4,800.0	10.7	10.8	-90.47	-0.2	-21.0	21.0	-0.5	21.50	0.978	Level 1		
4,900.0	4,900.0	4,979.0	4,900.0	10.9	11.1	-90.47	-0.2	-21.0	21.0	-0.9	21.95	0.958	Level 1		
5,000.0	5,000.0	5,079.0	5,000.0	11.1	11.3	-90.47	-0.2	-21.0	21.0	-1.4	22.40	0.938	Level 1		
5,100.0	5,100.0	5,179.0	5,100.0	11.3	11.5	-90.47	-0.2	-21.0	21.0	-1.8	22.85	0.920	Level 1		
5,200.0	5,200.0	5,279.0	5,200.0	11.6	11.7	-90.47	-0.2	-21.0	21.0	-2.3	23.29	0.902	Level 1		
5,300.0	5,300.0	5,379.0	5,300.0	11.8	12.0	-90.47	-0.2	-21.0	21.0	-2.7	23.74	0.885	Level 1		
5,400.0	5,400.0	5,479.0	5,400.0	12.0	12.2	-90.47	-0.2	-21.0	21.0	-3.2	24.19	0.869	Level 1		
5,500.0	5,500.0	5,579.0	5,500.0	12.2	12.4	-90.47	-0.2	-21.0	21.0	-3.6	24.64	0.853	Level 1		
5,600.0	5,600.0	5,679.0	5,600.0	12.5	12.6	-90.47	-0.2	-21.0	21.0	-4.1	25.09	0.838	Level 1		
5,700.0	5,700.0	5,779.0	5,700.0	12.7	12.9	-90.47	-0.2	-21.0	21.0	-4.5	25.54	0.823	Level 1		
5,800.0	5,800.0	5,879.0	5,800.0	12.9	13.1	-90.47	-0.2	-21.0	21.0	-5.0	25.99	0.809	Level 1		
5,900.0	5,900.0	5,979.0	5,900.0	13.1	13.3	-90.47	-0.2	-21.0	21.0	-5.4	26.44	0.795	Level 1		
6,000.0	6,000.0	6,079.0	6,000.0	13.4	13.5	-90.47	-0.2	-21.0	21.0	-5.9	26.89	0.782	Level 1		
6,100.0	6,100.0	6,179.0	6,100.0	13.6	13.8	-90.47	-0.2	-21.0	21.0	-6.3	27.34	0.769	Level 1		
6,200.0	6,200.0	6,279.0	6,200.0	13.8	14.0	-90.47	-0.2	-21.0	21.0	-6.8	27.79	0.756	Level 1		
6,300.0	6,300.0	6,379.0	6,300.0	14.0	14.2	-90.47	-0.2	-21.0	21.0	-7.2	28.24	0.744	Level 1		
6,400.0	6,400.0	6,479.0	6,400.0	14.3	14.4	-90.47	-0.2	-21.0	21.0	-7.7	28.69	0.733	Level 1		
6,460.1	6,460.1	6,539.1	6,460.1	14.4	14.6	-90.47	-0.2	-21.0	21.0	-7.9	28.96	0.726	Level 1, CC, ES, SF		
6,500.0	6,500.0	6,578.3	6,499.3	14.5	14.7	-90.47	-0.2	-21.3	21.3	-7.8	29.13	0.731	Level 1		
6,600.0	6,600.0	6,672.1	6,592.2	14.7	14.8	-90.44	-0.3	-33.5	34.4	4.9	29.55	1.166	Level 2		
6,700.0	6,700.0	6,758.1	6,673.7	14.9	15.0	-90.42	-0.4	-60.5	66.0	36.0	29.96	2.203			
6,800.0	6,800.0	6,832.6	6,739.4	15.2	15.2	-90.41	-0.7	-95.4	113.0	82.6	30.39	3.719			
6,900.0	6,900.0	6,894.8	6,789.6	15.4	15.4	-90.40	-0.9	-132.1	172.1	141.3	30.82	5.584			
7,000.0	7,000.0	6,950.0	6,829.8	15.6	15.7	-90.40	-1.2	-169.8	240.4	209.1	31.29	7.684			
7,100.0	7,100.0	6,987.9	6,854.8	15.8	15.9	-90.40	-1.4	-198.3	315.4	283.6	31.72	9.942			
7,200.0	7,200.0	7,025.0	6,877.0	16.1	16.1	-90.40	-1.6	-228.0	395.4	363.2	32.18	12.285			
7,300.0	7,300.0	7,050.0	6,890.6	16.3	16.3	-90.39	-1.7	-249.0	479.2	446.6	32.59	14.701			
7,400.0	7,400.0	7,075.0	6,903.1	16.5	16.5	-90.39	-1.9	-270.6	565.8	532.8	33.03	17.133			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Pathfinder
Anticollision Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Reference Site:	Martha AIK Federal	MD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	#10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Martha AIK Federal - #11H - OH - Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference	Offset		Semi Major Axis		Distance		Minimum		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,500.0	7,500.0	7,100.0	6,914.5	16.7	16.8	-90.39	-2.0	-292.9	654.7	621.3	33.48	19.557		
7,600.0	7,600.0	7,112.0	6,919.5	17.0	16.9	-90.39	-2.1	-303.8	745.3	711.4	33.82	22.034		
7,700.0	7,700.0	7,125.0	6,924.6	17.2	17.0	-90.39	-2.2	-315.8	837.2	803.0	34.18	24.496		
7,787.5	7,787.5	7,138.2	6,929.5	17.4	17.1	-90.39	-2.2	-328.0	918.6	884.0	34.52	26.612		
7,800.0	7,800.0	7,139.7	6,930.0	17.4	17.2	-90.39	-2.3	-329.4	930.2	897.2	32.98	28.204		
7,825.0	7,825.0	7,150.0	6,933.6	17.5	17.3	-90.40	-2.3	-339.1	953.2	920.2	32.98	28.900		
7,850.0	7,849.8	7,150.0	6,933.6	17.5	17.3	-90.41	-2.3	-339.1	975.6	942.7	32.91	29.645		
7,875.0	7,874.5	7,150.0	6,933.6	17.6	17.3	-90.42	-2.3	-339.1	997.5	964.7	32.77	30.441		
7,900.0	7,899.0	7,150.0	6,933.6	17.6	17.3	-90.44	-2.3	-339.1	1,018.9	986.4	32.56	31.292		
7,925.0	7,923.1	7,159.2	6,936.6	17.7	17.4	-90.46	-2.4	-347.8	1,039.7	1,007.4	32.30	32.189		
7,950.0	7,946.9	7,163.8	6,938.0	17.7	17.4	-90.49	-2.4	-352.2	1,059.9	1,027.9	31.97	33.152		
7,975.0	7,970.2	7,175.0	6,941.3	17.8	17.6	-90.53	-2.5	-362.9	1,079.5	1,047.9	31.59	34.173		
8,000.0	7,993.1	7,175.0	6,941.3	17.8	17.6	-90.57	-2.5	-362.9	1,098.3	1,067.2	31.13	35.276		
8,025.0	8,015.3	7,175.0	6,941.3	17.9	17.6	-90.62	-2.5	-362.9	1,116.5	1,085.9	30.62	36.458		
8,050.0	8,037.0	7,184.1	6,943.8	18.0	17.7	-90.67	-2.5	-371.6	1,133.9	1,103.9	30.07	37.706		
8,075.0	8,057.9	7,189.6	6,945.2	18.0	17.8	-90.74	-2.6	-376.9	1,150.6	1,121.2	29.47	39.046		
8,100.0	8,078.2	7,200.0	6,947.8	18.1	17.9	-90.80	-2.6	-387.0	1,166.6	1,137.8	28.83	40.469		
8,125.0	8,097.6	7,200.0	6,947.8	18.2	17.9	-90.90	-2.6	-387.0	1,181.7	1,153.6	28.13	42.011		
8,150.0	8,116.2	7,200.0	6,947.8	18.3	17.9	-91.01	-2.6	-387.0	1,196.1	1,168.7	27.39	43.662		
8,175.0	8,133.8	7,212.8	6,950.6	18.4	18.1	-91.11	-2.7	-399.5	1,209.5	1,182.9	26.65	45.380		
8,200.0	8,150.6	7,225.0	6,953.0	18.5	18.2	-91.22	-2.8	-411.5	1,222.2	1,196.3	25.89	47.209		
8,225.0	8,166.3	7,225.0	6,953.0	18.6	18.2	-91.39	-2.8	-411.5	1,234.0	1,208.9	25.09	49.185		
8,250.0	8,181.0	7,225.0	6,953.0	18.8	18.2	-91.61	-2.8	-411.5	1,244.9	1,220.7	24.28	51.278		
8,275.0	8,194.6	7,237.6	6,955.1	19.0	18.4	-91.79	-2.9	-423.9	1,254.9	1,231.4	23.50	53.410		
8,300.0	8,207.1	7,250.0	6,956.9	19.1	18.6	-92.00	-3.0	-436.1	1,264.1	1,241.4	22.73	55.623		
8,325.0	8,218.5	7,250.0	6,956.9	19.3	18.6	-92.38	-3.0	-436.1	1,272.2	1,250.3	21.95	57.957		
8,350.0	8,228.6	7,250.0	6,956.9	19.6	18.6	-92.90	-3.0	-436.1	1,279.6	1,258.4	21.21	60.329		
8,375.0	8,237.6	7,263.5	6,958.5	19.8	18.8	-93.30	-3.1	-449.6	1,285.9	1,265.3	20.55	62.580		
8,400.0	8,245.3	7,275.0	6,959.5	20.1	18.9	-93.84	-3.1	-461.0	1,291.3	1,271.4	19.94	64.756		
8,425.0	8,251.8	7,275.0	6,959.5	20.3	18.9	-95.02	-3.1	-461.0	1,295.8	1,276.4	19.38	66.860		
8,450.0	8,257.0	7,275.0	6,959.5	20.6	18.9	-97.02	-3.1	-461.0	1,299.4	1,280.5	18.91	68.729		
8,475.0	8,260.9	7,290.1	6,960.4	21.0	19.2	-98.52	-3.3	-476.1	1,301.9	1,283.3	18.57	70.107		
8,500.0	8,263.5	7,300.0	6,960.8	21.3	19.3	-101.74	-3.3	-486.0	1,303.5	1,285.2	18.33	71.114		
8,525.0	8,264.8	7,300.0	6,960.8	21.6	19.3	-115.22	-3.3	-486.0	1,304.2	1,286.0	18.18	71.726		
8,537.5	8,265.0	7,306.8	6,960.9	21.8	19.4	-123.36	-3.4	-492.8	1,304.2	1,286.0	18.17	71.765		
8,562.5	8,265.0	7,316.4	6,961.0	22.2	19.6	179.67	-3.4	-502.4	1,304.0	1,285.8	18.25	71.451		
8,600.0	8,265.0	7,353.9	6,961.0	22.8	20.2	179.67	-3.7	-539.8	1,304.0	1,285.6	18.44	70.736		
8,700.0	8,265.0	7,453.9	6,961.0	24.5	22.1	179.66	-4.4	-639.8	1,304.1	1,285.1	18.99	68.658		
8,800.0	8,265.0	7,553.8	6,961.0	26.3	24.0	179.65	-5.0	-739.8	1,304.1	1,284.4	19.65	66.381		
8,900.0	8,265.0	7,653.8	6,961.0	28.4	26.2	179.65	-5.7	-839.8	1,304.1	1,283.7	20.38	63.979		
9,000.0	8,265.0	7,753.8	6,961.0	30.5	28.4	179.64	-6.4	-939.7	1,304.1	1,283.0	21.20	61.519		
9,100.0	8,265.0	7,853.8	6,961.0	32.7	30.7	179.64	-7.1	-1,039.7	1,304.2	1,282.1	22.08	59.057		
9,200.0	8,265.0	7,953.7	6,961.0	35.0	33.1	179.64	-7.7	-1,139.7	1,304.2	1,281.2	23.03	56.634		
9,300.0	8,265.0	8,053.7	6,961.0	37.4	35.5	179.64	-8.4	-1,239.7	1,304.3	1,280.2	24.03	54.280		
9,400.0	8,265.0	8,153.7	6,961.0	39.8	38.0	179.63	-9.1	-1,339.7	1,304.3	1,279.2	25.08	52.014		
9,500.0	8,265.0	8,253.7	6,961.0	42.3	40.5	179.63	-9.8	-1,439.6	1,304.3	1,278.2	26.17	49.848		
9,600.0	8,265.0	8,353.7	6,961.0	44.8	43.1	179.63	-10.5	-1,539.6	1,304.4	1,277.1	27.29	47.790		
9,700.0	8,265.0	8,453.6	6,961.0	47.3	45.7	179.63	-11.1	-1,639.6	1,304.5	1,276.0	28.46	45.840		
9,800.0	8,265.0	8,553.6	6,961.0	49.8	48.3	179.63	-11.8	-1,739.6	1,304.5	1,274.9	29.65	43.998		
9,900.0	8,265.0	8,653.6	6,961.0	52.4	50.9	179.63	-12.5	-1,839.5	1,304.6	1,273.7	30.87	42.261		
10,000.0	8,265.0	8,753.6	6,961.0	55.0	53.5	179.63	-13.2	-1,939.5	1,304.6	1,272.5	32.11	40.626		
10,100.0	8,265.0	8,853.5	6,961.0	57.6	56.1	179.63	-13.8	-2,039.5	1,304.7	1,271.3	33.38	39.086		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Pathfinder
Anticollision Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Reference Site:	Martha AIK Federal	MD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	#10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Martha AIK Federal #11H - OH - Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth. (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,200.0	8,265.0	8,953.5	6,961.0	60.2	58.8	179.63	-14.5	-2,139.5	1,304.8	1,270.1	34.67	37.636		
10,300.0	8,265.0	9,053.5	6,961.0	62.8	61.4	179.63	-15.2	-2,239.4	1,304.8	1,268.9	35.97	36.272		
10,400.0	8,265.0	9,153.5	6,961.0	65.5	64.1	179.62	-15.9	-2,339.4	1,304.9	1,267.6	37.30	34.987		
10,500.0	8,265.0	9,253.5	6,961.0	68.1	66.8	179.62	-16.5	-2,439.4	1,305.0	1,266.4	38.64	33.776		
10,600.0	8,265.0	9,353.4	6,961.0	70.8	69.4	179.62	-17.2	-2,539.4	1,305.1	1,265.1	39.99	32.634		
10,700.0	8,265.0	9,453.4	6,961.0	73.4	72.1	179.62	-17.9	-2,639.3	1,305.2	1,263.8	41.36	31.557		
10,800.0	8,265.0	9,553.4	6,961.0	76.1	74.8	179.62	-18.6	-2,739.3	1,305.3	1,262.5	42.74	30.539		
10,900.0	8,265.0	9,653.4	6,961.0	78.8	77.5	179.62	-19.2	-2,839.3	1,305.4	1,261.2	44.14	29.576		
11,000.0	8,265.0	9,753.3	6,961.0	81.5	80.2	179.62	-19.9	-2,939.3	1,305.5	1,259.9	45.54	28.666		
11,100.0	8,265.0	9,853.3	6,961.0	84.1	82.9	179.62	-20.6	-3,039.2	1,305.6	1,258.6	46.96	27.803		
11,200.0	8,265.0	9,953.3	6,961.0	86.8	85.6	179.62	-21.3	-3,139.2	1,305.7	1,257.3	48.39	26.984		
11,300.0	8,265.0	10,053.3	6,961.0	89.5	88.3	179.62	-22.0	-3,239.2	1,305.8	1,255.9	49.82	26.208		
11,400.0	8,265.0	10,153.3	6,961.0	92.2	91.0	179.62	-22.6	-3,339.2	1,305.9	1,254.6	51.27	25.470		
11,500.0	8,265.0	10,253.2	6,961.0	94.9	93.7	179.62	-23.3	-3,439.1	1,306.0	1,253.3	52.73	24.768		
11,600.0	8,265.0	10,353.2	6,961.0	97.6	96.4	179.62	-24.0	-3,539.1	1,306.1	1,251.9	54.20	24.099		
11,700.0	8,265.0	10,453.2	6,961.0	100.3	99.1	179.62	-24.7	-3,639.1	1,306.2	1,250.6	55.67	23.462		
11,800.0	8,265.0	10,553.2	6,961.0	103.1	101.9	179.62	-25.3	-3,739.1	1,306.4	1,249.2	57.16	22.854		
11,900.0	8,265.0	10,653.2	6,961.0	105.8	104.6	179.62	-26.0	-3,839.0	1,306.5	1,247.8	58.65	22.274		
12,000.0	8,265.0	10,753.1	6,961.0	108.5	107.3	179.62	-26.7	-3,939.0	1,306.6	1,246.5	60.16	21.720		
12,100.0	8,265.0	10,853.1	6,961.0	111.2	110.0	179.62	-27.4	-4,039.0	1,306.7	1,245.1	61.67	21.189		
12,200.0	8,265.0	10,953.1	6,961.0	113.9	112.8	179.62	-28.0	-4,139.0	1,306.9	1,243.7	63.19	20.682		
12,300.0	8,265.0	11,053.1	6,961.0	116.6	115.5	179.62	-28.7	-4,238.9	1,307.0	1,242.3	64.72	20.195		
12,400.0	8,265.0	11,153.0	6,961.0	119.4	118.2	179.62	-29.4	-4,338.9	1,307.2	1,240.9	66.26	19.729		
12,500.0	8,265.0	11,253.0	6,961.0	122.1	120.9	179.62	-30.1	-4,438.9	1,307.3	1,239.5	67.80	19.281		
12,600.0	8,265.0	11,353.0	6,961.0	124.8	123.7	179.62	-30.8	-4,538.9	1,307.5	1,238.1	69.36	18.851		
12,700.0	8,265.0	11,453.0	6,961.0	127.5	126.4	179.62	-31.4	-4,638.9	1,307.6	1,236.7	70.92	18.438		
12,800.0	8,265.0	11,553.0	6,961.0	130.3	129.1	179.62	-32.1	-4,738.8	1,307.8	1,235.3	72.49	18.040		
12,830.5	8,265.0	11,583.4	6,961.0	131.1	130.0	179.62	-32.3	-4,769.3	1,307.8	1,234.9	72.97	17.922		



Pathfinder Anticollision Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Reference Site:	Martha AIK Federal	MD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	#10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Martha AIK Federal - #2 - OH - OH													Offset Site Error: 0.0 usft
Survey Program: 484-MWD													Offset Well Error: 0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference Offset (usft) (usft)		Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	60.2	0.2	0.0	0.1	-37.24	200.0	-152.0	251.2				
100.0	100.0	160.6	100.6	0.1	0.2	-37.27	199.8	-152.0	251.0	250.7	0.28	907.424	
200.0	200.0	260.9	200.9	0.3	0.3	-37.32	199.4	-152.0	250.7	250.1	0.61	408.031	
300.0	300.0	361.3	301.3	0.5	0.4	-37.40	198.8	-152.0	250.3	249.3	0.95	262.813	
400.0	400.0	461.7	401.6	0.8	0.5	-37.50	198.1	-152.0	249.7	248.4	1.29	193.537	
500.0	500.0	561.9	501.9	1.0	0.7	-37.63	197.2	-152.0	249.0	247.3	1.72	145.098	
600.0	600.0	662.1	602.1	1.2	0.9	-37.77	196.1	-152.0	248.2	246.0	2.17	114.528	
700.0	700.0	762.4	702.3	1.4	1.2	-37.94	195.0	-152.0	247.3	244.6	2.62	94.456	
800.0	800.0	862.6	802.5	1.7	1.4	-38.12	193.7	-152.0	246.3	243.2	3.07	80.309	
900.0	900.0	962.4	902.3	1.9	1.6	-38.30	192.5	-152.0	245.3	241.8	3.49	70.228	
1,000.0	1,000.0	1,062.2	1,002.2	2.1	1.8	-38.47	191.3	-152.0	244.4	240.4	3.92	62.358	
1,100.0	1,100.0	1,162.0	1,102.0	2.3	2.0	-38.63	190.2	-152.0	243.5	239.2	4.34	56.048	
1,200.0	1,200.0	1,261.9	1,201.8	2.6	2.2	-38.77	189.2	-152.0	242.7	238.0	4.77	50.879	
1,300.0	1,300.0	1,361.7	1,301.6	2.8	2.4	-38.91	188.3	-152.0	242.0	236.8	5.20	46.568	
1,400.0	1,400.0	1,461.7	1,401.6	3.0	2.6	-39.04	187.5	-152.0	241.3	235.7	5.63	42.880	
1,500.0	1,500.0	1,561.7	1,501.6	3.2	2.8	-39.17	186.6	-152.0	240.7	234.6	6.06	39.717	
1,600.0	1,600.0	1,661.7	1,601.6	3.5	3.0	-39.30	185.7	-152.0	240.0	233.5	6.49	36.975	
1,700.0	1,700.0	1,761.7	1,701.6	3.7	3.2	-39.43	184.8	-152.0	239.3	232.4	6.92	34.575	
1,800.0	1,800.0	1,861.7	1,801.7	3.9	3.4	-39.57	184.0	-152.0	238.6	231.3	7.36	32.433	
1,900.0	1,900.0	1,961.9	1,901.8	4.1	3.7	-39.71	183.0	-152.0	237.9	230.1	7.80	30.484	
2,000.0	2,000.0	2,062.1	2,002.0	4.4	3.9	-39.87	182.0	-152.0	237.1	228.9	8.25	28.737	
2,100.0	2,100.0	2,162.2	2,102.1	4.6	4.1	-40.05	180.8	-152.0	236.2	227.5	8.70	27.162	
2,200.0	2,200.0	2,262.4	2,202.3	4.8	4.3	-40.24	179.6	-152.0	235.3	226.2	9.14	25.733	
2,300.0	2,300.0	2,362.4	2,302.3	5.0	4.6	-40.45	178.3	-152.0	234.3	224.7	9.59	24.430	
2,400.0	2,400.0	2,462.4	2,402.3	5.3	4.8	-40.66	177.0	-152.0	233.3	223.3	10.04	23.241	
2,500.0	2,500.0	2,562.4	2,502.3	5.5	5.0	-40.87	175.7	-152.0	232.3	221.8	10.49	22.153	
2,600.0	2,600.0	2,662.4	2,602.3	5.7	5.2	-41.08	174.4	-152.0	231.3	220.4	10.93	21.156	
2,700.0	2,700.0	2,762.4	2,702.3	5.9	5.5	-41.29	173.1	-152.0	230.3	219.0	11.38	20.237	
2,800.0	2,800.0	2,862.8	2,802.7	6.2	5.7	-41.52	171.7	-152.0	229.3	217.5	11.83	19.380	
2,900.0	2,900.0	2,963.2	2,903.0	6.4	5.9	-41.81	170.0	-152.0	228.0	215.8	12.28	18.567	
3,000.0	3,000.0	3,063.3	3,003.1	6.6	6.1	-42.12	168.1	-152.0	226.7	213.9	12.73	17.804	
3,100.0	3,100.0	3,163.4	3,103.2	6.8	6.4	-42.44	166.2	-152.0	225.3	212.1	13.18	17.089	
3,200.0	3,200.0	3,263.6	3,203.3	7.1	6.6	-42.79	164.2	-152.0	223.8	210.2	13.63	16.417	
3,300.0	3,300.0	3,363.7	3,303.4	7.3	6.8	-43.15	162.1	-152.0	222.3	208.2	14.08	15.785	
3,400.0	3,400.0	3,464.1	3,403.8	7.5	7.0	-43.54	160.0	-152.0	220.7	206.2	14.53	15.186	
3,500.0	3,500.0	3,564.4	3,503.1	7.7	7.3	-44.05	157.1	-152.0	218.7	203.7	14.99	14.591	
3,600.0	3,600.0	3,664.6	3,602.2	8.0	7.5	-44.73	153.4	-152.0	216.1	200.6	15.44	13.993	
3,700.0	3,700.0	3,764.7	3,702.2	8.2	7.7	-45.58	148.9	-152.0	212.9	197.0	15.90	13.395	
3,800.0	3,800.0	3,864.8	3,800.0	8.4	8.0	-46.61	143.7	-152.0	209.3	193.0	16.35	12.802	
3,900.0	3,900.0	3,964.6	3,902.8	8.6	8.2	-47.76	138.0	-152.0	205.5	188.7	16.80	12.227	
4,000.0	4,000.0	4,064.1	4,002.2	8.9	8.4	-48.92	132.5	-152.0	201.8	184.5	17.23	11.708	
4,100.0	4,100.0	4,164.6	4,102.5	9.1	8.6	-50.05	127.3	-152.0	198.4	180.7	17.65	11.238	
4,200.0	4,200.0	4,264.7	4,202.9	9.3	8.8	-51.17	122.4	-152.0	195.2	177.2	18.06	10.809	
4,300.0	4,300.0	4,364.4	4,302.1	9.5	9.0	-52.22	117.8	-152.0	192.4	173.9	18.47	10.416	
4,400.0	4,400.0	4,464.6	4,402.2	9.8	9.2	-53.17	113.8	-152.0	189.9	171.1	18.88	10.061	
4,500.0	4,500.0	4,564.2	4,502.7	10.0	9.4	-54.02	110.3	-152.0	187.9	168.6	19.29	9.737	
4,600.0	4,600.0	4,664.9	4,603.4	10.2	9.6	-54.84	107.0	-152.0	185.9	166.2	19.71	9.434	
4,700.0	4,700.0	4,764.7	4,703.2	10.4	9.8	-55.64	103.9	-152.0	184.2	164.0	20.13	9.151	
4,800.0	4,800.0	4,864.5	4,802.9	10.7	10.0	-56.40	101.0	-152.0	182.5	162.0	20.54	8.886	
4,900.0	4,900.0	4,964.2	4,902.6	10.9	10.2	-57.12	98.2	-152.0	181.0	160.0	20.96	8.637	
5,000.0	5,000.0	5,064.1	5,002.4	11.1	10.4	-57.82	95.6	-152.0	179.6	158.2	21.38	8.402	
5,100.0	5,100.0	5,164.0	5,102.3	11.3	10.6	-58.50	93.1	-152.0	178.3	156.5	21.80	8.178	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Pathfinder
Anticollision Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Reference Site:	Martha AIK Federal	MD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	#10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Martha AIK Federal - #2 - OH - OH													Offset Site Error:	0.0 usft
Survey Program: 484-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.0	5,200.0	5,263.9	5,202.2	11.6	10.8	-59.17	90.7	-152.0	177.0	154.8	22.22	7.966		
5,300.0	5,300.0	5,363.8	5,302.0	11.8	11.0	-59.83	88.4	-152.0	175.8	153.2	22.64	7.766		
5,400.0	5,400.0	5,463.7	5,401.9	12.0	11.2	-60.46	86.1	-152.0	174.7	151.7	23.06	7.575		
5,500.0	5,500.0	5,563.6	5,501.8	12.2	11.4	-61.08	84.0	-152.0	173.7	150.2	23.49	7.393		
5,600.0	5,600.0	5,663.5	5,601.7	12.5	11.6	-61.68	81.9	-152.0	172.7	148.8	23.92	7.220		
5,700.0	5,700.0	5,763.4	5,701.5	12.7	11.8	-62.27	79.9	-152.0	171.7	147.4	24.34	7.055		
5,800.0	5,800.0	5,863.3	5,801.4	12.9	12.0	-62.83	78.0	-152.0	170.9	146.1	24.77	6.898		
5,900.0	5,900.0	5,963.2	5,901.3	13.1	12.2	-63.37	76.2	-152.0	170.0	144.8	25.20	6.749		
6,000.0	6,000.0	6,063.2	6,001.3	13.4	12.4	-63.90	74.5	-152.0	169.3	143.6	25.63	6.605		
6,100.0	6,100.0	6,163.2	6,101.3	13.6	12.6	-64.43	72.7	-152.0	168.5	142.4	26.06	6.466		
6,200.0	6,200.0	6,263.1	6,201.2	13.8	12.8	-64.97	71.0	-152.0	167.8	141.3	26.49	6.332		
6,300.0	6,300.0	6,363.1	6,301.2	14.0	13.0	-65.51	69.2	-152.0	167.0	140.1	26.93	6.203		
6,400.0	6,400.0	6,463.1	6,401.2	14.3	13.2	-66.06	67.5	-152.0	166.3	139.0	27.36	6.079		
6,500.0	6,500.0	6,563.2	6,501.3	14.5	13.5	-66.64	65.7	-152.0	165.6	137.8	27.80	5.956		
6,600.0	6,600.0	6,663.4	6,601.4	14.7	13.7	-67.29	63.6	-152.0	164.8	136.5	28.24	5.835		
6,700.0	6,700.0	6,763.5	6,701.5	14.9	13.9	-68.03	61.3	-152.0	163.9	135.2	28.68	5.716		
6,800.0	6,800.0	6,863.6	6,801.5	15.2	14.1	-68.86	58.8	-152.0	163.0	133.9	29.12	5.598		
6,900.0	6,900.0	6,963.5	6,901.5	15.4	14.3	-69.72	56.2	-152.0	162.1	132.5	29.56	5.483		
7,000.0	7,000.0	7,063.5	7,001.4	15.6	14.6	-70.59	53.5	-152.0	161.2	131.2	30.00	5.373		
7,100.0	7,100.0	7,163.5	7,101.3	15.8	14.8	-71.48	50.9	-152.0	160.3	129.9	30.44	5.267		
7,200.0	7,200.0	7,263.4	7,201.3	16.1	15.0	-72.37	48.3	-152.0	159.5	128.6	30.88	5.166		
7,300.0	7,300.0	7,363.4	7,301.2	16.3	15.2	-73.27	45.7	-152.0	158.7	127.4	31.32	5.069		
7,400.0	7,400.0	7,463.4	7,401.1	16.5	15.4	-74.18	43.1	-152.0	158.0	126.2	31.76	4.975		
7,500.0	7,500.0	7,563.3	7,501.1	16.7	15.7	-75.09	40.5	-152.0	157.3	125.1	32.20	4.885		
7,600.0	7,600.0	7,663.3	7,601.0	17.0	15.9	-76.02	37.8	-152.0	156.6	124.0	32.64	4.799		
7,700.0	7,700.0	7,763.3	7,700.9	17.2	16.1	-76.95	35.2	-152.0	156.0	123.0	33.08	4.717		
7,787.5	7,787.5	7,850.7	7,788.4	17.4	16.3	-77.77	32.9	-152.0	155.5	122.1	33.46	4.648		
7,800.0	7,800.0	7,863.2	7,800.8	17.4	16.3	-77.88	32.6	-152.0	155.3	121.6	33.70	4.608		
7,825.0	7,825.0	7,888.2	7,825.8	17.5	16.4	-78.02	32.0	-152.0	153.9	120.1	33.74	4.561		
7,850.0	7,849.8	7,913.0	7,850.6	17.5	16.4	-78.06	31.3	-152.0	151.2	117.5	33.72	4.484		
7,875.0	7,874.5	7,937.7	7,875.3	17.6	16.5	-78.01	30.7	-152.0	147.2	113.6	33.63	4.378		
7,900.0	7,899.0	7,962.1	7,899.7	17.6	16.5	-77.84	30.1	-152.0	142.0	108.5	33.48	4.241		
7,925.0	7,923.1	7,986.2	7,923.8	17.7	16.6	-77.55	29.5	-152.0	135.5	102.3	33.28	4.073		
7,950.0	7,946.9	8,010.0	7,947.6	17.7	16.6	-77.11	28.9	-152.0	127.8	94.8	33.01	3.872		
7,975.0	7,970.2	8,033.3	7,970.9	17.8	16.7	-76.47	28.3	-152.0	119.0	86.3	32.71	3.637		
8,000.0	7,993.1	8,056.1	7,993.7	17.8	16.7	-75.58	27.8	-152.0	108.9	76.6	32.36	3.366		
8,025.0	8,015.3	8,078.4	8,016.0	17.9	16.8	-74.31	27.3	-152.0	97.8	65.8	31.99	3.057		
8,050.0	8,037.0	8,100.0	8,037.6	18.0	16.8	-72.50	26.7	-152.0	85.6	54.0	31.62	2.707		
8,075.0	8,057.9	8,121.0	8,058.5	18.0	16.9	-69.78	26.3	-152.0	72.5	41.2	31.33	2.314		
8,100.0	8,078.2	8,141.2	8,078.7	18.1	16.9	-65.43	25.8	-152.0	58.7	27.4	31.25	1.877		
8,125.0	8,097.6	8,160.6	8,098.1	18.2	17.0	-57.77	25.3	-152.0	44.5	12.8	31.70	1.403 Level 3		
8,150.0	8,116.2	8,179.2	8,116.7	18.3	17.0	-42.18	24.9	-152.0	31.1	-2.1	33.22	0.937 Level 1		
8,175.0	8,133.8	8,196.8	8,134.3	18.4	17.0	-8.17	24.5	-152.0	22.6	-12.5	35.13	0.644 Level 1		
8,180.4	8,137.6	8,200.5	8,138.1	18.4	17.0	1.94	24.4	-152.0	22.3	-12.9	35.23	0.632 Level 1, CC, ES, SF		
8,200.0	8,150.6	8,213.5	8,151.1	18.5	17.1	35.21	24.1	-152.0	26.6	-7.5	34.15	0.780 Level 1		
8,225.0	8,166.3	8,229.3	8,166.8	18.6	17.1	58.72	23.8	-152.0	40.7	9.1	31.57	1.289 Level 3		
8,250.0	8,181.0	8,243.9	8,181.4	18.8	17.1	69.54	23.5	-152.0	58.7	29.2	29.49	1.991		
8,275.0	8,194.6	8,257.5	8,195.0	19.0	17.2	75.30	23.2	-152.0	78.5	50.5	28.00	2.805		
8,300.0	8,207.1	8,270.0	8,207.5	19.1	17.2	78.79	22.9	-152.0	99.5	72.6	26.88	3.702		
8,325.0	8,218.5	8,281.4	8,218.9	19.3	17.2	81.10	22.6	-152.0	121.3	95.4	25.99	4.669		
8,350.0	8,228.6	8,291.5	8,229.0	19.6	17.2	82.72	22.4	-152.0	143.9	118.6	25.29	5.690		
8,375.0	8,237.6	8,300.5	8,238.0	19.8	17.2	83.91	22.2	-152.0	167.0	142.2	24.76	6.744		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Pathfinder Anticollision Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Reference Site:	Martha AIK Federal	MD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	#10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design													Martha AIK Federal #2 - OH - OH		Offset Design		Offset Site Error: 0.0 usft	
Survey Program: 484-MWD															Offset Well Error: 0.0 usft			
Reference		Offset		Semi Major Axis		Azimuth from North (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)								
8,400.0	8,245.3	8,308.2	8,245.7	20.1	17.3	84.82	22.1	-152.0	190.6	166.1	24.45	7.795						
8,425.0	8,251.8	8,314.6	8,252.1	20.3	17.3	85.53	21.9	-152.0	214.6	190.2	24.43	8.784						
8,450.0	8,257.0	8,319.8	8,257.3	20.6	17.3	86.10	21.8	-152.0	239.0	214.1	24.89	9.602						
8,475.0	8,260.9	8,323.7	8,261.2	21.0	17.3	86.56	21.7	-152.0	263.6	237.3	26.24	10.044						
8,500.0	8,263.5	8,326.3	8,263.8	21.3	17.3	86.94	21.7	-152.0	288.4	258.8	29.60	9.743						
8,525.0	8,264.8	8,327.6	8,265.1	21.6	17.3	87.25	21.6	-152.0	313.3	276.8	36.50	8.584						
8,537.5	8,265.0	8,327.8	8,265.3	21.8	17.3	87.39	21.6	-152.0	325.8	286.9	38.89	8.376						
8,600.0	8,265.0	8,327.8	8,265.3	22.8	17.3	87.94	21.6	-152.0	388.2	348.3	39.84	9.743						
8,700.0	8,265.0	8,327.7	8,265.2	24.5	17.3	88.53	21.6	-152.0	488.1	446.5	41.54	11.750						
8,800.0	8,265.0	8,327.7	8,265.2	26.3	17.3	88.92	21.6	-152.0	588.0	544.6	43.41	13.545						
8,900.0	8,265.0	8,327.7	8,265.2	28.4	17.3	89.19	21.6	-152.0	687.9	642.5	45.43	15.143						
9,000.0	8,265.0	8,327.7	8,265.1	30.5	17.3	89.40	21.6	-152.0	787.9	740.3	47.57	16.565						
9,100.0	8,265.0	8,327.6	8,265.1	32.7	17.3	89.56	21.6	-152.0	887.9	838.1	49.79	17.831						
9,200.0	8,265.0	8,327.6	8,265.1	35.0	17.3	89.68	21.6	-152.0	987.9	935.8	52.10	18.961						
9,300.0	8,265.0	8,327.6	8,265.1	37.4	17.3	89.79	21.6	-152.0	1,087.8	1,033.4	54.46	19.974						
9,400.0	8,265.0	8,327.5	8,265.0	39.8	17.3	89.87	21.6	-152.0	1,187.8	1,131.0	56.88	20.883						
9,500.0	8,265.0	8,327.5	8,265.0	42.3	17.3	89.95	21.6	-152.0	1,287.8	1,228.5	59.34	21.703						
9,600.0	8,265.0	8,327.5	8,265.0	44.8	17.3	90.01	21.6	-152.0	1,387.8	1,326.0	61.83	22.446						
9,700.0	8,265.0	8,327.4	8,264.9	47.3	17.3	90.06	21.6	-152.0	1,487.8	1,423.4	64.35	23.120						
9,800.0	8,265.0	8,327.4	8,264.9	49.8	17.3	90.11	21.6	-152.0	1,587.8	1,520.9	66.90	23.735						
9,900.0	8,265.0	8,327.4	8,264.9	52.4	17.3	90.15	21.6	-152.0	1,687.8	1,618.3	69.46	24.297						
10,000.0	8,265.0	8,327.4	8,264.8	55.0	17.3	90.19	21.6	-152.0	1,787.8	1,715.7	72.05	24.813						
10,100.0	8,265.0	8,327.3	8,264.8	57.6	17.3	90.22	21.6	-152.0	1,887.8	1,813.1	74.65	25.288						
10,200.0	8,265.0	8,327.3	8,264.8	60.2	17.3	90.25	21.6	-152.0	1,987.8	1,910.5	77.27	25.726						
10,300.0	8,265.0	8,327.3	8,264.8	62.8	17.3	90.28	21.6	-152.0	2,087.8	2,007.9	79.89	26.132						
10,400.0	8,265.0	8,327.2	8,264.7	65.5	17.3	90.30	21.6	-152.0	2,187.8	2,105.2	82.53	26.508						
10,500.0	8,265.0	8,327.2	8,264.7	68.1	17.3	90.32	21.6	-152.0	2,287.8	2,202.6	85.18	26.859						
10,600.0	8,265.0	8,327.2	8,264.7	70.8	17.3	90.35	21.6	-152.0	2,387.8	2,299.9	87.83	27.186						
10,700.0	8,265.0	8,327.1	8,264.6	73.4	17.3	90.36	21.6	-152.0	2,487.7	2,397.3	90.49	27.491						
10,800.0	8,265.0	8,327.1	8,264.6	76.1	17.3	90.38	21.6	-152.0	2,587.7	2,494.6	93.16	27.777						
10,900.0	8,265.0	8,327.1	8,264.6	78.8	17.3	90.40	21.6	-152.0	2,687.7	2,591.9	95.83	28.046						
11,000.0	8,265.0	8,327.1	8,264.5	81.5	17.3	90.41	21.6	-152.0	2,787.7	2,689.2	98.51	28.298						
11,100.0	8,265.0	8,327.0	8,264.5	84.1	17.3	90.43	21.6	-152.0	2,887.7	2,786.5	101.20	28.536						
11,200.0	8,265.0	8,327.0	8,264.5	86.8	17.3	90.44	21.6	-152.0	2,987.7	2,883.9	103.88	28.761						
11,300.0	8,265.0	8,327.0	8,264.5	89.5	17.3	90.45	21.6	-152.0	3,087.7	2,981.2	106.57	28.973						
11,400.0	8,265.0	8,326.9	8,264.4	92.2	17.3	90.46	21.6	-152.0	3,187.7	3,078.5	109.27	29.174						
11,500.0	8,265.0	8,326.9	8,264.4	94.9	17.3	90.47	21.6	-152.0	3,287.7	3,175.8	111.96	29.364						
11,600.0	8,265.0	8,326.9	8,264.4	97.6	17.3	90.48	21.6	-152.0	3,387.7	3,273.1	114.66	29.545						
11,700.0	8,265.0	8,326.8	8,264.3	100.3	17.3	90.49	21.6	-152.0	3,487.7	3,370.4	117.37	29.717						
11,800.0	8,265.0	8,326.8	8,264.3	103.1	17.3	90.50	21.6	-152.0	3,587.7	3,467.7	120.07	29.880						
11,900.0	8,265.0	8,326.8	8,264.3	105.8	17.3	90.51	21.6	-152.0	3,687.7	3,564.9	122.78	30.036						
12,000.0	8,265.0	8,326.8	8,264.2	108.5	17.3	90.52	21.6	-152.0	3,787.7	3,662.2	125.48	30.185						
12,100.0	8,265.0	8,326.7	8,264.2	111.2	17.3	90.53	21.6	-152.0	3,887.7	3,759.5	128.19	30.327						
12,200.0	8,265.0	8,326.7	8,264.2	113.9	17.3	90.53	21.6	-152.0	3,987.7	3,856.8	130.90	30.463						
12,300.0	8,265.0	8,326.7	8,264.2	116.6	17.3	90.54	21.7	-152.0	4,087.7	3,954.1	133.61	30.593						
12,400.0	8,265.0	8,326.6	8,264.1	119.4	17.3	90.55	21.7	-152.0	4,187.7	4,051.4	136.33	30.718						
12,500.0	8,265.0	8,326.6	8,264.1	122.1	17.3	90.55	21.7	-152.0	4,287.7	4,148.7	139.04	30.838						
12,600.0	8,265.0	8,326.6	8,264.1	124.8	17.3	90.56	21.7	-152.0	4,387.7	4,246.0	141.76	30.953						
12,700.0	8,265.0	8,326.5	8,264.0	127.5	17.3	90.56	21.7	-152.0	4,487.7	4,343.2	144.47	31.063						
12,800.0	8,265.0	8,326.5	8,264.0	130.3	17.3	90.57	21.7	-152.0	4,587.7	4,440.5	147.19	31.169						
12,830.5	8,265.0	8,326.5	8,264.0	131.1	17.3	90.57	21.7	-152.0	4,618.2	4,470.2	148.02	31.201						

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Pathfinder Anticollision Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Reference Site:	Martha AIK Federal	MD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	#10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000 1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Martha AIK Federal - #4 - OH - OH													Offset Site Error: 0.0 usft	
Survey Program: 436-MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
							+N/-S (usft)	+E/-W (usft)						
0.0	0.0	60.4	0.4	0.0	0.1	-82.26	199.9	-1,472.0	1,485.5					
100.0	100.0	161.0	101.0	0.1	0.2	-82.28	199.6	-1,472.0	1,485.5	1,485.2	0.28	5,366.866		
200.0	200.0	261.6	201.6	0.3	0.3	-82.30	199.0	-1,472.0	1,485.4	1,484.8	0.61	2,416.402		
300.0	300.0	362.2	302.2	0.5	0.4	-82.34	198.0	-1,472.0	1,485.3	1,484.3	0.95	1,559.118		
400.0	400.0	462.6	402.6	0.8	0.6	-82.39	196.8	-1,472.0	1,485.1	1,483.8	1.32	1,124.836		
500.0	500.0	562.6	502.6	1.0	0.8	-82.44	195.5	-1,472.0	1,484.9	1,483.2	1.77	838.931		
600.0	600.0	662.6	602.5	1.2	1.0	-82.49	194.2	-1,472.0	1,484.8	1,482.5	2.22	668.880		
700.0	700.0	762.6	702.5	1.4	1.2	-82.54	192.9	-1,472.0	1,484.6	1,481.9	2.67	556.128		
800.0	800.0	862.6	802.5	1.7	1.5	-82.59	191.6	-1,472.0	1,484.4	1,481.3	3.12	475.891		
900.0	900.0	962.5	902.5	1.9	1.7	-82.64	190.3	-1,472.0	1,484.2	1,480.7	3.57	415.884		
1,000.0	1,000.0	1,062.5	1,002.5	2.1	1.9	-82.69	188.9	-1,472.0	1,484.1	1,480.1	4.02	369.306		
1,100.0	1,100.0	1,162.5	1,102.5	2.3	2.1	-82.74	187.6	-1,472.0	1,483.9	1,479.4	4.47	332.104		
1,200.0	1,200.0	1,262.5	1,202.4	2.6	2.4	-82.79	186.3	-1,472.0	1,483.7	1,478.8	4.92	301.705		
1,300.0	1,300.0	1,362.5	1,302.5	2.8	2.6	-82.84	185.0	-1,472.0	1,483.6	1,478.2	5.37	276.393		
1,400.0	1,400.0	1,462.7	1,402.6	3.0	2.8	-82.89	183.6	-1,472.0	1,483.4	1,477.6	5.82	254.983		
1,500.0	1,500.0	1,562.8	1,502.7	3.2	3.0	-82.94	182.2	-1,472.0	1,483.2	1,477.0	6.27	236.645		
1,600.0	1,600.0	1,662.9	1,602.8	3.5	3.3	-83.00	180.7	-1,472.0	1,483.1	1,476.3	6.72	220.764		
1,700.0	1,700.0	1,763.0	1,702.9	3.7	3.5	-83.06	179.1	-1,472.0	1,482.9	1,475.7	7.17	206.877		
1,800.0	1,800.0	1,863.2	1,803.0	3.9	3.7	-83.13	177.4	-1,472.0	1,482.7	1,475.0	7.62	194.629		
1,900.0	1,900.0	1,963.2	1,903.0	4.1	3.9	-83.19	175.7	-1,472.0	1,482.5	1,474.4	8.06	183.958		
2,000.0	2,000.0	2,063.0	2,002.8	4.4	4.1	-83.26	174.1	-1,472.0	1,482.3	1,473.8	8.48	174.777		
2,100.0	2,100.0	2,162.7	2,102.6	4.6	4.3	-83.31	172.5	-1,472.0	1,482.1	1,473.2	8.90	166.469		
2,200.0	2,200.0	2,262.5	2,202.3	4.8	4.5	-83.37	171.1	-1,472.0	1,481.9	1,472.6	9.33	158.914		
2,300.0	2,300.0	2,362.5	2,302.3	5.0	4.7	-83.42	169.8	-1,472.0	1,481.8	1,472.0	9.75	151.982		
2,400.0	2,400.0	2,462.7	2,402.4	5.3	4.9	-83.47	168.4	-1,472.0	1,481.6	1,471.4	10.18	145.595		
2,500.0	2,500.0	2,562.8	2,502.6	5.5	5.2	-83.53	166.9	-1,472.0	1,481.4	1,470.8	10.60	139.720		
2,600.0	2,600.0	2,662.9	2,602.7	5.7	5.4	-83.59	165.3	-1,472.0	1,481.3	1,470.2	11.03	134.300		
2,700.0	2,700.0	2,763.1	2,702.8	5.9	5.6	-83.66	163.6	-1,472.0	1,481.1	1,469.6	11.46	129.283		
2,800.0	2,800.0	2,863.2	2,802.9	6.2	5.8	-83.73	161.8	-1,472.0	1,480.9	1,469.0	11.90	124.440		
2,900.0	2,900.0	2,963.3	2,903.0	6.4	6.0	-83.80	160.0	-1,472.0	1,480.7	1,468.3	12.35	119.900		
3,000.0	3,000.0	3,063.5	3,003.1	6.6	6.2	-83.87	158.0	-1,472.0	1,480.5	1,467.7	12.80	115.678		
3,100.0	3,100.0	3,163.6	3,103.2	6.8	6.5	-83.95	156.0	-1,472.0	1,480.2	1,467.0	13.25	111.742		
3,200.0	3,200.0	3,263.7	3,203.3	7.1	6.7	-84.03	153.9	-1,472.0	1,480.0	1,466.3	13.70	108.063		
3,300.0	3,300.0	3,364.7	3,304.3	7.3	6.9	-84.13	151.4	-1,472.0	1,479.8	1,465.6	14.15	104.595		
3,400.0	3,400.0	3,465.8	3,405.4	7.5	7.2	-84.25	148.2	-1,472.0	1,479.4	1,464.8	14.60	101.332		
3,500.0	3,500.0	3,566.9	3,506.4	7.7	7.4	-84.41	144.1	-1,472.0	1,479.0	1,464.0	15.05	98.262		
3,600.0	3,600.0	3,667.9	3,607.3	8.0	7.6	-84.60	139.2	-1,472.0	1,478.6	1,463.1	15.50	95.367		
3,700.0	3,700.0	3,768.8	3,708.0	8.2	7.9	-84.81	133.6	-1,472.0	1,478.1	1,462.1	15.96	92.635		
3,800.0	3,800.0	3,869.6	3,808.6	8.4	8.1	-85.06	127.2	-1,472.0	1,477.5	1,461.1	16.41	90.044		
3,900.0	3,900.0	3,968.6	3,907.4	8.6	8.3	-85.32	120.6	-1,472.0	1,476.9	1,460.1	16.84	87.692		
4,000.0	4,000.0	4,067.2	4,005.8	8.9	8.5	-85.53	115.1	-1,472.0	1,476.5	1,459.3	17.25	85.616		
4,100.0	4,100.0	4,166.6	4,105.1	9.1	8.7	-85.71	110.4	-1,472.0	1,476.1	1,458.5	17.65	83.620		
4,200.0	4,200.0	4,266.3	4,204.7	9.3	8.9	-85.89	105.8	-1,472.0	1,475.8	1,457.7	18.06	81.710		
4,300.0	4,300.0	4,365.9	4,304.3	9.5	9.1	-86.05	101.5	-1,472.0	1,475.5	1,457.0	18.47	79.870		
4,400.0	4,400.0	4,465.8	4,403.8	9.8	9.3	-86.21	97.5	-1,472.0	1,475.2	1,456.3	18.89	78.103		
4,500.0	4,500.0	4,565.3	4,503.4	10.0	9.5	-86.36	93.7	-1,472.0	1,475.0	1,455.7	19.30	76.413		
4,600.0	4,600.0	4,665.0	4,603.1	10.2	9.7	-86.49	90.2	-1,472.0	1,474.8	1,455.0	19.72	74.795		
4,700.0	4,700.0	4,764.7	4,702.7	10.4	9.9	-86.62	86.9	-1,472.0	1,474.6	1,454.4	20.13	73.245		
4,800.0	4,800.0	4,864.5	4,802.5	10.7	10.1	-86.74	83.9	-1,472.0	1,474.4	1,453.8	20.55	71.743		
4,900.0	4,900.0	4,964.3	4,902.2	10.9	10.3	-86.85	81.1	-1,472.0	1,474.2	1,453.3	20.97	70.296		
5,000.0	5,000.0	5,064.1	5,002.0	11.1	10.5	-86.95	78.4	-1,472.0	1,474.1	1,452.7	21.39	68.906		
5,100.0	5,100.0	5,163.9	5,101.8	11.3	10.7	-87.05	75.9	-1,472.0	1,474.0	1,452.1	21.81	67.570		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Pathfinder

Anticollision Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Reference Site:	Martha AIK Federal	MD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	#10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000:1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design										Martha AIK Federal - #4 - OH - OH		Offset Site Error:	0.0 usft
Survey Program: 436-MWD												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,200.0	5,263.8	5,201.6	11.6	10.9	-87.14	73.7	-1,472.0	1,473.8	1,451.6	22.23	66.285	
5,300.0	5,300.0	5,363.7	5,301.5	11.8	11.1	-87.22	71.5	-1,472.0	1,473.7	1,451.1	22.67	65.022	
5,400.0	5,400.0	5,463.6	5,401.4	12.0	11.3	-87.30	69.4	-1,472.0	1,473.6	1,450.5	23.10	63.801	
5,500.0	5,500.0	5,563.6	5,501.4	12.2	11.5	-87.38	67.3	-1,472.0	1,473.5	1,450.0	23.53	62.626	
5,600.0	5,600.0	5,663.5	5,601.3	12.5	11.7	-87.46	65.3	-1,472.0	1,473.4	1,449.5	23.96	61.493	
5,700.0	5,700.0	5,763.4	5,701.2	12.7	11.9	-87.53	63.4	-1,472.0	1,473.4	1,449.0	24.39	60.400	
5,800.0	5,800.0	5,863.4	5,801.1	12.9	12.1	-87.61	61.5	-1,472.0	1,473.3	1,448.5	24.83	59.346	
5,900.0	5,900.0	5,963.3	5,901.1	13.1	12.3	-87.68	59.6	-1,472.0	1,473.2	1,448.0	25.26	58.328	
6,000.0	6,000.0	6,063.3	6,001.0	13.4	12.5	-87.75	57.9	-1,472.0	1,473.1	1,447.4	25.69	57.344	
6,100.0	6,100.0	6,163.3	6,101.0	13.6	12.7	-87.82	56.1	-1,472.0	1,473.1	1,446.9	26.12	56.393	
6,200.0	6,200.0	6,263.2	6,200.9	13.8	12.9	-87.88	54.4	-1,472.0	1,473.0	1,446.5	26.55	55.473	
6,300.0	6,300.0	6,363.2	6,300.8	14.0	13.1	-87.94	52.8	-1,472.0	1,472.9	1,446.0	26.99	54.582	
6,400.0	6,400.0	6,463.1	6,400.8	14.3	13.4	-88.01	51.2	-1,472.0	1,472.9	1,445.5	27.42	53.720	
6,500.0	6,500.0	6,563.1	6,500.7	14.5	13.6	-88.07	49.7	-1,472.0	1,472.8	1,445.0	27.85	52.885	
6,600.0	6,600.0	6,663.1	6,600.7	14.7	13.8	-88.12	48.3	-1,472.0	1,472.8	1,444.5	28.28	52.075	
6,700.0	6,700.0	6,763.0	6,700.6	14.9	14.0	-88.18	46.8	-1,472.0	1,472.7	1,444.0	28.71	51.290	
6,800.0	6,800.0	6,863.0	6,800.6	15.2	14.2	-88.23	45.5	-1,472.0	1,472.7	1,443.6	29.15	50.528	
6,900.0	6,900.0	6,963.0	6,900.6	15.4	14.4	-88.28	44.2	-1,472.0	1,472.7	1,443.1	29.58	49.789	
7,000.0	7,000.0	7,062.9	7,000.5	15.6	14.6	-88.33	42.9	-1,472.0	1,472.6	1,442.6	30.01	49.071	
7,100.0	7,100.0	7,162.9	7,100.5	15.8	14.8	-88.38	41.7	-1,472.0	1,472.6	1,442.1	30.44	48.373	
7,200.0	7,200.0	7,262.9	7,200.5	16.1	15.0	-88.42	40.6	-1,472.0	1,472.6	1,441.7	30.87	47.695	
7,300.0	7,300.0	7,362.8	7,300.4	16.3	15.2	-88.46	39.5	-1,472.0	1,472.5	1,441.2	31.31	47.036	
7,400.0	7,400.0	7,462.8	7,400.4	16.5	15.4	-88.50	38.5	-1,472.0	1,472.5	1,440.8	31.74	46.394	
7,500.0	7,500.0	7,562.8	7,500.4	16.7	15.6	-88.54	37.5	-1,472.0	1,472.5	1,440.3	32.17	45.771	
7,600.0	7,600.0	7,662.8	7,600.3	17.0	15.9	-88.58	36.5	-1,472.0	1,472.5	1,439.9	32.60	45.163	
7,700.0	7,700.0	7,762.7	7,700.3	17.2	16.1	-88.61	35.7	-1,472.0	1,472.4	1,439.4	33.04	44.571	
7,787.5	7,787.5	7,850.2	7,787.8	17.4	16.2	-88.64	34.9	-1,472.0	1,472.4	1,439.0	33.42	44.064	
7,800.0	7,800.0	7,862.7	7,800.3	17.4	16.3	-88.65	34.8	-1,472.0	1,472.2	1,438.6	33.66	43.734	
7,825.0	7,825.0	7,887.7	7,825.3	17.5	16.3	-88.65	34.6	-1,472.0	1,470.9	1,437.2	33.70	43.648	
7,850.0	7,849.8	7,912.6	7,850.1	17.5	16.4	-88.66	34.3	-1,472.0	1,468.3	1,434.6	33.67	43.607	
7,875.0	7,874.5	7,937.2	7,874.8	17.6	16.4	-88.67	34.1	-1,472.0	1,464.4	1,430.8	33.58	43.611	
7,900.0	7,899.0	7,961.7	7,899.3	17.6	16.5	-88.68	33.9	-1,472.0	1,459.2	1,425.8	33.42	43.659	
7,925.0	7,923.1	7,985.8	7,923.4	17.7	16.5	-88.68	33.7	-1,472.0	1,452.7	1,419.5	33.20	43.752	
7,950.0	7,948.9	8,009.6	7,947.2	17.7	16.6	-88.69	33.5	-1,472.0	1,445.0	1,412.1	32.92	43.890	
7,975.0	7,970.2	8,032.9	7,970.5	17.8	16.6	-88.69	33.3	-1,472.0	1,436.0	1,403.4	32.58	44.072	
8,000.0	7,993.1	8,055.8	7,993.3	17.8	16.7	-88.70	33.1	-1,472.0	1,425.9	1,393.7	32.19	44.299	
8,025.0	8,015.3	8,078.1	8,015.6	17.9	16.7	-88.70	32.9	-1,472.0	1,414.5	1,382.8	31.74	44.570	
8,050.0	8,037.0	8,099.7	8,037.3	18.0	16.8	-88.70	32.7	-1,472.0	1,402.0	1,370.8	31.24	44.885	
8,075.0	8,057.9	8,120.7	8,058.2	18.0	16.8	-88.71	32.5	-1,472.0	1,388.4	1,357.7	30.69	45.244	
8,100.0	8,078.2	8,140.9	8,078.4	18.1	16.9	-88.71	32.4	-1,472.0	1,373.7	1,343.6	30.10	45.644	
8,125.0	8,097.6	8,160.3	8,097.9	18.2	16.9	-88.71	32.2	-1,472.0	1,358.0	1,328.5	29.47	46.085	
8,150.0	8,116.2	8,178.9	8,116.4	18.3	16.9	-88.71	32.0	-1,472.0	1,341.2	1,312.4	28.80	46.563	
8,175.0	8,133.8	8,196.6	8,134.1	18.4	17.0	-88.71	31.9	-1,472.0	1,323.5	1,295.4	28.12	47.075	
8,200.0	8,150.6	8,213.3	8,150.8	18.5	17.0	-88.71	31.7	-1,472.0	1,305.0	1,277.6	27.41	47.613	
8,225.0	8,166.3	8,229.0	8,166.6	18.6	17.0	-88.71	31.6	-1,472.0	1,285.5	1,258.9	26.69	48.170	
8,250.0	8,181.0	8,243.7	8,181.3	18.8	17.1	-88.71	31.4	-1,472.0	1,265.3	1,239.4	25.96	48.733	
8,275.0	8,194.6	8,257.4	8,194.9	19.0	17.1	-88.71	31.3	-1,472.0	1,244.3	1,219.1	25.25	49.290	
8,300.0	8,207.1	8,269.9	8,207.4	19.1	17.1	-88.71	31.1	-1,472.0	1,222.7	1,198.2	24.54	49.821	
8,325.0	8,218.5	8,281.3	8,218.8	19.3	17.1	-88.70	31.0	-1,472.0	1,200.4	1,176.6	23.86	50.303	
8,350.0	8,228.6	8,291.4	8,229.0	19.6	17.2	-88.70	30.9	-1,472.0	1,177.6	1,154.4	23.22	50.708	
8,375.0	8,237.6	8,300.4	8,238.0	19.8	17.2	-88.70	30.7	-1,472.0	1,154.2	1,131.6	22.63	51.004	
8,400.0	8,245.3	8,308.1	8,245.7	20.1	17.2	-88.69	30.6	-1,472.0	1,130.5	1,108.4	22.10	51.153	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Pathfinder

Anticollision Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Reference Site:	Martha AIK Federal	MD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	#10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM:5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Martha AIK Federal - #4 - OH - OH													Offset Site Error:	0.0 usft
Survey Program: 436-MWD													Offset Well Error:	0.0 usft
Reference														
Measured		Vertical		Offset		Semi Major Axis		Azimuth		Offset Wellbore Centre		Distance		Warning
Depth	Depth	Depth	Depth	Reference	Offset	Reference	Offset	from North		+N/-S	+E/-W	Between	Between	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)		(usft)	(usft)	Centres	Ellipses	
8,425.0	8,251.8	8,314.6	8,252.2	20.3	17.2	-88.69		30.5	-1,472.0	1,106.3	1,084.7	21.64	51.113	
8,450.0	8,257.0	8,319.8	8,257.4	20.6	17.2	-88.68		30.4	-1,472.0	1,081.9	1,060.6	21.28	50.833	
8,475.0	8,260.9	8,323.7	8,261.3	21.0	17.2	-88.67		30.4	-1,472.0	1,057.2	1,036.1	21.05	50.228	
8,500.0	8,263.5	8,326.3	8,263.9	21.3	17.2	-88.66		30.3	-1,472.0	1,032.3	1,011.2	21.07	48.989	
8,525.0	8,264.8	8,327.6	8,265.2	21.6	17.2	-88.65		30.3	-1,472.0	1,007.4	983.9	23.45	42.949	
8,537.5	8,265.0	8,327.8	8,265.3	21.8	17.2	-88.64		30.3	-1,472.0	994.9	956.0	38.84	25.617	
8,600.0	8,265.0	8,327.8	8,265.3	22.8	17.2	-88.61		30.3	-1,472.0	932.4	892.6	39.79	23.435	
8,700.0	8,265.0	8,327.8	8,265.3	24.5	17.2	-88.54		30.3	-1,472.0	832.4	790.9	41.48	20.066	
8,800.0	8,265.0	8,327.7	8,265.3	26.3	17.2	-88.45		30.3	-1,472.0	732.4	689.0	43.36	16.892	
8,900.0	8,265.0	8,327.7	8,265.3	28.4	17.2	-88.33		30.3	-1,472.0	632.4	587.0	45.38	13.936	
9,000.0	8,265.0	8,327.7	8,265.2	30.5	17.2	-88.17		30.3	-1,472.0	532.4	484.9	47.51	11.205	
9,100.0	8,265.0	8,327.7	8,265.2	32.7	17.2	-87.94		30.3	-1,472.0	432.4	382.7	49.74	8.693	
9,200.0	8,265.0	8,327.7	8,265.2	35.0	17.2	-87.56		30.3	-1,472.0	332.5	280.4	52.05	6.387	
9,300.0	8,265.0	8,327.6	8,265.2	37.4	17.2	-86.86		30.3	-1,472.0	232.5	178.1	54.42	4.273	
9,400.0	8,265.0	8,327.6	8,265.2	39.8	17.2	-85.11		30.3	-1,472.0	132.7	75.8	56.83	2.334	
9,500.0	8,265.0	8,327.6	8,265.1	42.3	17.2	-72.92		30.3	-1,472.0	33.7	-25.6	59.29	0.568 Level 1	
9,532.3	8,265.0	8,327.6	8,265.1	43.1	17.2	0.82		30.3	-1,472.0	9.4	-50.7	60.10	0.157 Level 1, CC, ES, SF	
9,600.0	8,265.0	8,327.6	8,265.1	44.8	17.2	82.88		30.3	-1,472.0	68.3	6.6	61.78	1.106 Level 2	
9,700.0	8,265.0	8,327.5	8,265.1	47.3	17.2	87.59		30.3	-1,472.0	167.9	103.6	64.31	2.612	
9,800.0	8,265.0	8,327.5	8,265.1	49.8	17.2	88.79		30.3	-1,472.0	267.8	201.0	66.86	4.006	
9,900.0	8,265.0	8,327.5	8,265.0	52.4	17.2	89.34		30.3	-1,472.0	367.8	298.4	69.42	5.298	
10,000.0	8,265.0	8,327.5	8,265.0	55.0	17.2	89.66		30.3	-1,472.0	467.8	395.8	72.01	6.496	
10,100.0	8,265.0	8,327.5	8,265.0	57.6	17.2	89.86		30.3	-1,472.0	567.8	493.1	74.61	7.609	
10,200.0	8,265.0	8,327.4	8,265.0	60.2	17.2	90.00		30.3	-1,472.0	667.7	590.5	77.23	8.646	
10,300.0	8,265.0	8,327.4	8,265.0	62.8	17.2	90.11		30.3	-1,472.0	767.7	687.9	79.86	9.614	
10,400.0	8,265.0	8,327.4	8,264.9	65.5	17.2	90.19		30.3	-1,472.0	867.7	785.2	82.50	10.519	
10,500.0	8,265.0	8,327.4	8,264.9	68.1	17.2	90.25		30.3	-1,472.0	967.7	882.6	85.14	11.366	
10,600.0	8,265.0	8,327.3	8,264.9	70.8	17.2	90.31		30.3	-1,472.0	1,067.7	979.9	87.80	12.161	
10,700.0	8,265.0	8,327.3	8,264.9	73.4	17.2	90.35		30.3	-1,472.0	1,167.7	1,077.3	90.46	12.909	
10,800.0	8,265.0	8,327.3	8,264.8	76.1	17.2	90.39		30.3	-1,472.0	1,267.7	1,174.6	93.13	13.613	
10,900.0	8,265.0	8,327.3	8,264.8	78.8	17.2	90.42		30.3	-1,472.0	1,367.7	1,271.9	95.80	14.277	
11,000.0	8,265.0	8,327.3	8,264.8	81.5	17.2	90.44		30.3	-1,472.0	1,467.7	1,369.2	98.48	14.904	
11,100.0	8,265.0	8,327.2	8,264.8	84.1	17.2	90.47		30.3	-1,472.0	1,567.7	1,466.6	101.16	15.497	
11,200.0	8,265.0	8,327.2	8,264.8	86.8	17.2	90.49		30.3	-1,472.0	1,667.7	1,563.9	103.85	16.060	
11,300.0	8,265.0	8,327.2	8,264.7	89.5	17.2	90.51		30.3	-1,472.0	1,767.7	1,661.2	106.53	16.593	
11,400.0	8,265.0	8,327.2	8,264.7	92.2	17.2	90.52		30.3	-1,472.0	1,867.7	1,758.5	109.23	17.099	
11,500.0	8,265.0	8,327.1	8,264.7	94.9	17.2	90.54		30.3	-1,472.0	1,967.7	1,855.8	111.92	17.581	
11,600.0	8,265.0	8,327.1	8,264.7	97.6	17.2	90.55		30.3	-1,472.0	2,067.7	1,953.1	114.62	18.040	
11,700.0	8,265.0	8,327.1	8,264.6	100.3	17.2	90.56		30.3	-1,472.0	2,167.7	2,050.4	117.32	18.478	
11,800.0	8,265.0	8,327.1	8,264.6	103.1	17.2	90.57		30.3	-1,472.0	2,267.7	2,147.7	120.02	18.895	
11,900.0	8,265.0	8,327.1	8,264.6	105.8	17.2	90.58		30.3	-1,472.0	2,367.7	2,245.0	122.72	19.294	
12,000.0	8,265.0	8,327.0	8,264.6	108.5	17.2	90.59		30.3	-1,472.0	2,467.7	2,342.3	125.42	19.675	
12,100.0	8,265.0	8,327.0	8,264.6	111.2	17.2	90.60		30.3	-1,472.0	2,567.7	2,439.6	128.12	20.041	
12,200.0	8,265.0	8,327.0	8,264.5	113.9	17.2	90.61		30.3	-1,472.0	2,667.7	2,536.9	130.83	20.391	
12,300.0	8,265.0	8,327.0	8,264.5	116.6	17.2	90.62		30.3	-1,472.0	2,767.7	2,634.2	133.53	20.727	
12,400.0	8,265.0	8,326.9	8,264.5	119.4	17.2	90.62		30.3	-1,472.0	2,867.7	2,731.5	136.24	21.049	
12,500.0	8,265.0	8,326.9	8,264.5	122.1	17.2	90.63		30.3	-1,472.0	2,967.7	2,828.8	138.94	21.359	
12,600.0	8,265.0	8,326.9	8,264.4	124.8	17.2	90.64		30.3	-1,472.0	3,067.7	2,926.0	141.65	21.657	
12,700.0	8,265.0	8,326.9	8,264.4	127.5	17.2	90.64		30.3	-1,472.0	3,167.7	3,023.3	144.36	21.944	
12,800.0	8,265.0	8,326.9	8,264.4	130.3	17.2	90.65		30.3	-1,472.0	3,267.7	3,120.6	147.06	22.220	
12,830.5	8,265.0	8,326.9	8,264.4	131.1	17.2	90.65		30.3	-1,472.0	3,298.2	3,150.3	147.89	22.302	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Pathfinder Anticollision Report

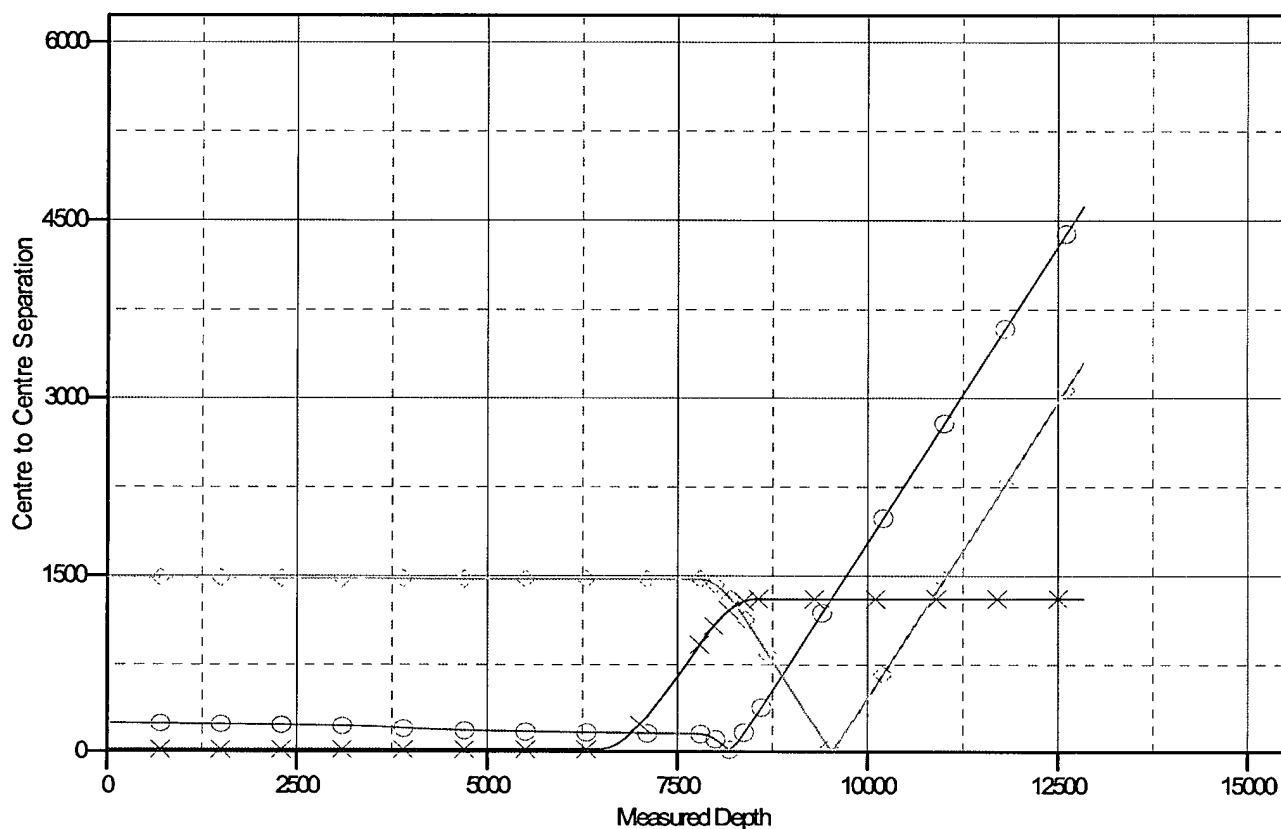
PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 15' @ 3520.0usft (Original Well Elev)
Reference Site:	Martha AIK Federal	MD Reference:	KB = 15' @ 3520.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	#10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to KB = 15 @ 3520.0usft (Original Well E
Offset Depths are relative to Offset Datum
Central Meridian is -104.333

Coordinates are relative to: #10H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.32°

Ladder Plot



LEGEND

○ #2, OH, OH V0

◇ #4, OH, OH V0

✕ #11H, OH, Plan #1 V0



Pathfinder Anticollision Report

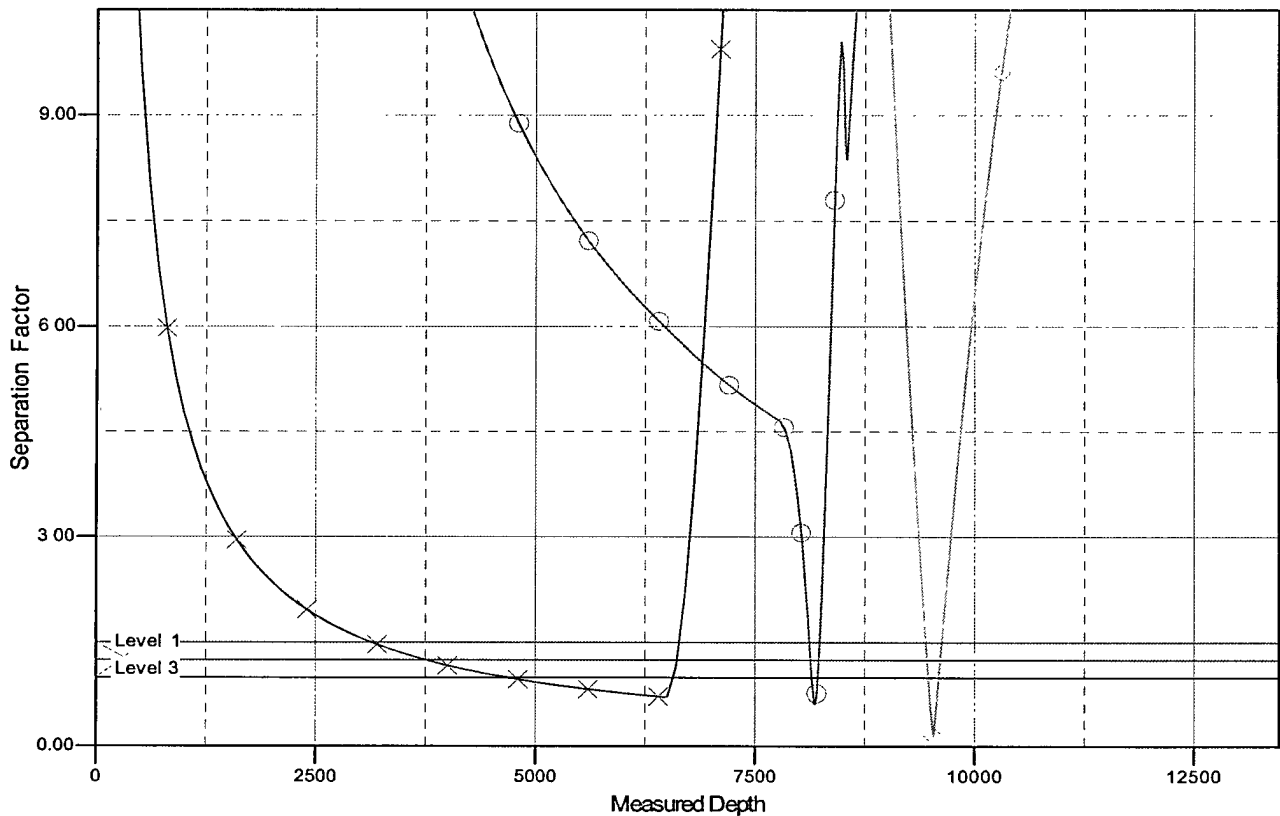
PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County, (NAD 83)	TVD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Reference Site:	Martha AIK Federal	MD Reference:	KB = 15 @ 3520.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	#10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to KB = 15 @ 3520.0usft (Original Well E
Offset Depths are relative to Offset Datum
Central Meridian is -104.333

Coordinates are relative to: #10H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.32°

Separation Factor Plot



LEGEND

○ #2, OH, OHV0 ◇ #4, OH, OHV0 ✕ #11H, OH, Plan #1 V0