

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Serial No.

NM-81952

6. If Indian, Allottee or Tribe Name

NA

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well



Oil Well



Gas Well



Other

2. Name of Operator

Yates Petroleum Corporation

3a. Address

105 S. 4th Str., Artesia, NM 88210

3b. Phone No. (include area code)

575-748-1471

4. Location of Well (Footage, Sec., T., R., M., OR Survey Description)

Surface - 330'FSL & 1980'FWL of Section 7-T22S-R31E (unit N, SESW)

BHL - 2310'FSL & 1980'FWL of Section 6-T22S-R31E (Unit K, NESW)

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

NA

8. Well Name and No.

Llama ALL Federal #10H

9. API Well No.

30-015-37190

10. Field and Pool or Exploratory Area

Cabin Lake, Delaware

11. County or Parish, State

Eddy County, New Mexico

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

TYPE OF SUBMISSION



Notice of Intent



Subsequent Report



Final Abandonment Notice

TYPE OF ACTION



Acidize



Deepen



Production (Start/Resume)



Water Shut-Off



Alter Casing



Fracture Treat



Reclamation



Well Integrity



Casing Repair



New Construction



Recomplete



Other Extend



Change Plans



Plug and Abandon



Temporarily Abandon



Lateral



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 recomplete 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 recompletion 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 respectfully requests permission to extend the lateral on this well. Attached is the revised casing design and amended C-102 (plat).

RECEIVED
FEB 07 2011
NMOCD ARTESIA

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Tina Huerta

Title

Regulatory Compliance Supervisor

Signature

Tina Huerta

Date

January 25, 2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Date

FEB 1 2011

/s/ Chris Walls

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

DISTRICT I
1625 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

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-37190	Pool Code 8435	Pool Name Cabin Lake; Delaware
Property Code 37765	Property Name LLAMA ALL FEDERAL COM	Well Number 10H
OGRID No. 025575	Operator Name YATES PETROLEUM CORP.	Elevation 3356'

Surface Location

UL or lot No. N	Section 7	Township 22 S	Range 31 E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 1980	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No. K	Section 6	Township 22 S	Range 31 E	Lot Idn	Feet from the 2310	North/South line SOUTH	Feet from the 1980	East/West line WEST	County EDDY
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Dedicated Acres 240	Joint or Infill	Consolidation Code	Order No.
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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

BOTTOM HOLE LOCATION Lat - N32°25'10.85" Long - W103°49'08.98" SPC- N.: 516792.24 E.: 699995.24 (NAD-83)	1980' 2310' 7265.8' 1980' 3354.9' 3357.8' 3344.6' 330'	RECEIVED FEB 07 2011 NMOCD ARTESIA	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 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. <i>Tina Huerta</i> 1/25/11 Signature Date Tina Huerta Printed Name
SURFACE LOCATION Lat - N32°23'58.96" Long - W103°49'09.00" SPC- N.: 509526.509 E.: 700031.456 (NAD-83)			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. MARCH 06, 2008 Date Surveyed Signature & Seal of Surveyor Professional Surveyor 7977 Certificate No. Gary L. Jones 7977 BASIN SURVEYS

Llama ALL Federal #10H

Production Casing

0 ft to 100 ft				Make up Torque ft-lbs			Total ft = 100
O.D. 5.5 inches	Weight 20 #/ft	Grade L-80	Threads LT&C	opt. 4200	min. 3150	mx. 5250	
Collapse Resistance 8,830 psi	Internal Yield 9,190 psi	Joint Strength 416 ,000 #		Body Yield 466 ,000 #		Drift 4.653	

100 ft to 7,000 ft				Make up Torque ft-lbs			Total ft = 6,900
O.D. 5.5 inches	Weight 17 #/ft	Grade HCP-110	Threads LT&C	opt. 4620	min. 3470	mx. 5780	
Collapse Resistance 8,580 psi	Internal Yield 10,640 psi	Joint Strength 445 ,000 #		Body Yield 546 ,000 #		Drift 4.767	

7,000 ft to 14,761 ft				Make up Torque ft-lbs			Total ft = 7,761
O.D. 5.5 inches	Weight 20 #/ft	Grade L-80	Threads LT&C	opt. 4200	min. 3150	mx. 5250	
Collapse Resistance 8,830 psi	Internal Yield 9,190 psi	Joint Strength 416 ,000 #		Body Yield 466 ,000 #		Drift 4.653	

Stage I: Cement w/2000sx PVL (YLD 1.83 Wt. 13) TOC = 6900'

Stage II: Lead w/650sx Class C Lite (YLD 2.0 Wt. 12.5), tail w/100sx Class C (YLD 1.34 Wt. 14.8) TOC = 4090'

Stage III: Lead w/960sx Class C Lite (YLD 2.0 Wt. 12.5), tail w/100sx Class C (YLD 1.34 Wt. 14.8) TOC = 0'



Project: Eddy County
 Site: Llama All Federal Com
 Well: #10H
 Wellbore: OH
 Plan: Design #1 (#10H/OH)



Azimuths to Grid North
 True North: -0.28°
 Magnetic North: 7.49°
 Magnetic Field
 Strength: 48736.3nT
 Dip Angle: 60.32°
 Date: 01/20/2011
 Model: IGRF2010

PATHFINDER

A Schlumberger Company

PROJECT DETAILS: Eddy County
 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

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7222.50	0.00	0.00	7222.50	0.00	0.00	0.00	0.00	0.00	
7970.48	89.75	359.71	7700.00	475.41	-2.41	12.00	359.71	475.42	
14760.94	89.75	359.71	7729.63	7265.73	-36.78	0.00	0.00	7265.82	PBHL(Llama#10H)

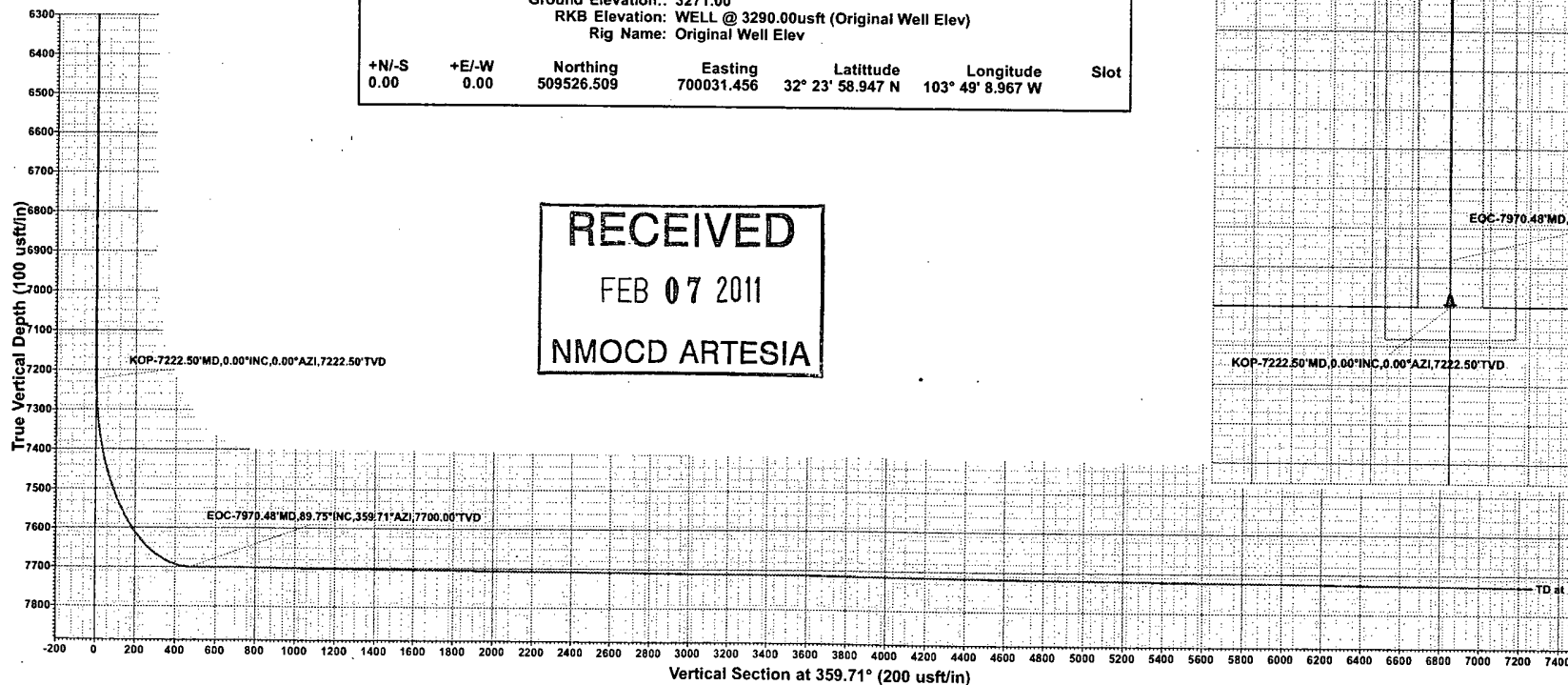
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL(Llama#10H)	7730.00	7265.73	-36.22	516792.240	699995.240	Point

WELL DETAILS: #10H

Ground Elevation:: 3271.00
 RKB Elevation: WELL @ 3290.00usft (Original Well Elev)
 Rig Name: Original Well Elev

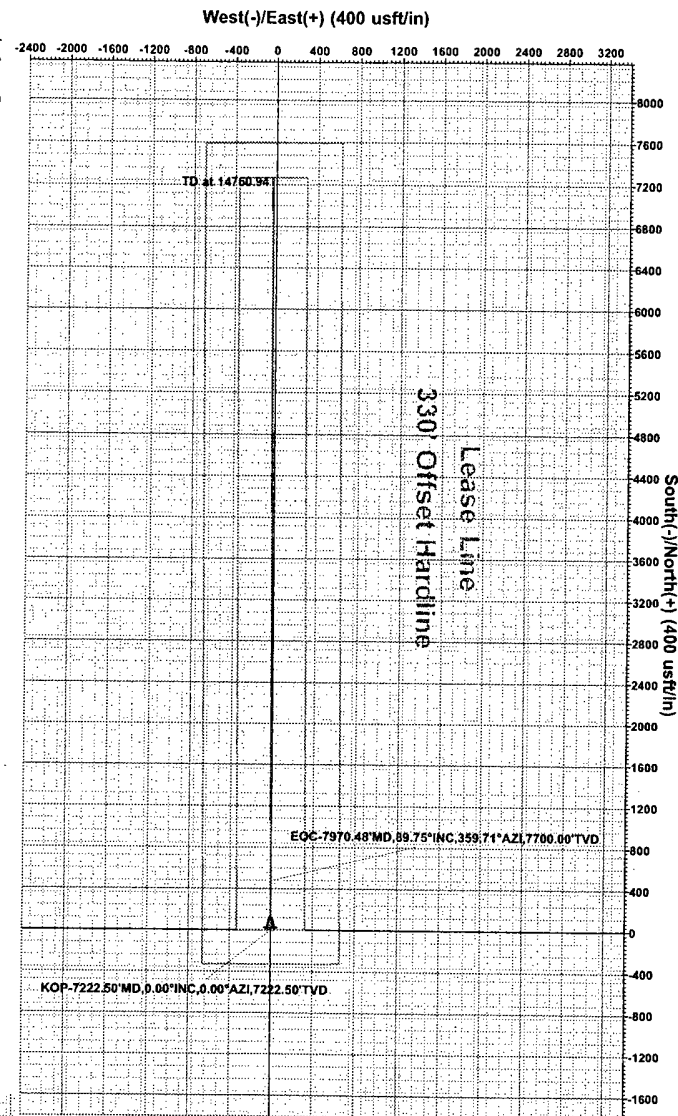
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	509526.509	700031.456	32° 23' 58.947 N	103° 49' 8.967 W	



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Yates Petroleum Corp.

Eddy County

Llama All Federal Com

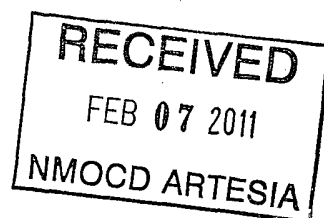
#10H

OH

Plan: Design #1

Pathfinder X & Y Planning Report

18 January, 2011



PATHFINDER
A Schlumberger Company



Pathfinder
Pathfinder X & Y Planning Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County	TVD Reference:	WELL @ 3290.00usft (Original Well Elev)
Site:	Llama All Federal Com	MD Reference:	WELL @ 3290.00usft (Original Well Elev)
Well:	#10H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

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

Site						Llama All Federal Com					
Site Position:				Northing:		509,526.509 usft		Latitude:		32° 23' 58.947 N	
From:		Map		Easting:		700,031.456 usft		Longitude:		103° 49' 8.967 W	
Position Uncertainty:		0.00 usft		Slot Radius:		13-3/16 "		Grid Convergence:		0.28 °	

Well		#10H				
Well Position	+N/-S	0.00 usft	Northing:	509,526.509 usft	Latitude:	32° 23' 58.947 N
	+E/-W	0.00 usft	Easting:	700,031.456 usft	Longitude:	103° 49' 8.967 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,271.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (mT)
	IGRF2010	01/20/11	7.76	60.32	48,736

Design		Design #1		
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.71

Survey Tool Program		Date	01/18/11		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	14,760.92	Design #1 (OH)	MWD	MWD - Standard	



Pathfinder
Pathfinder X & Y Planning Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Llana Ali Federal Com
Well: #10H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #10H
WELL @ 3290.00usft (Original Well Elev)
WELL @ 3290.00usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	3,290.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
100.00	0.00	0.00	100.00	3,190.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
200.00	0.00	0.00	200.00	3,090.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
300.00	0.00	0.00	300.00	2,990.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
400.00	0.00	0.00	400.00	2,890.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
500.00	0.00	0.00	500.00	2,790.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
600.00	0.00	0.00	600.00	2,690.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
700.00	0.00	0.00	700.00	2,590.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
800.00	0.00	0.00	800.00	2,490.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
900.00	0.00	0.00	900.00	2,390.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
1,000.00	0.00	0.00	1,000.00	2,290.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
1,100.00	0.00	0.00	1,100.00	2,190.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
1,200.00	0.00	0.00	1,200.00	2,090.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
1,300.00	0.00	0.00	1,300.00	1,990.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
1,400.00	0.00	0.00	1,400.00	1,890.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
1,500.00	0.00	0.00	1,500.00	1,790.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
1,600.00	0.00	0.00	1,600.00	1,690.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
1,700.00	0.00	0.00	1,700.00	1,590.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
1,800.00	0.00	0.00	1,800.00	1,490.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
1,900.00	0.00	0.00	1,900.00	1,390.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
2,000.00	0.00	0.00	2,000.00	1,290.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
2,100.00	0.00	0.00	2,100.00	1,190.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
2,200.00	0.00	0.00	2,200.00	1,090.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
2,300.00	0.00	0.00	2,300.00	990.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
2,400.00	0.00	0.00	2,400.00	890.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
2,500.00	0.00	0.00	2,500.00	790.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
2,600.00	0.00	0.00	2,600.00	690.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46



Pathfinder Pathfinder X & Y Planning Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Llama All Federal Com
Well: #10H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference: Well #10H
TVD Reference: WELL @ 3290.00usft (Original Well Elev)
MD Reference: WELL @ 3290.00usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
2,700.00	0.00	0.00	2,700.00	590.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
2,800.00	0.00	0.00	2,800.00	490.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
2,900.00	0.00	0.00	2,900.00	390.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
3,000.00	0.00	0.00	3,000.00	290.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
3,100.00	0.00	0.00	3,100.00	190.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
3,200.00	0.00	0.00	3,200.00	90.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
3,300.00	0.00	0.00	3,300.00	-10.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
3,400.00	0.00	0.00	3,400.00	-110.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
3,500.00	0.00	0.00	3,500.00	-210.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
3,600.00	0.00	0.00	3,600.00	-310.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
3,700.00	0.00	0.00	3,700.00	-410.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
3,800.00	0.00	0.00	3,800.00	-510.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
3,900.00	0.00	0.00	3,900.00	-610.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
4,000.00	0.00	0.00	4,000.00	-710.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
4,100.00	0.00	0.00	4,100.00	-810.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
4,200.00	0.00	0.00	4,200.00	-910.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
4,300.00	0.00	0.00	4,300.00	-1,010.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
4,400.00	0.00	0.00	4,400.00	-1,110.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
4,500.00	0.00	0.00	4,500.00	-1,210.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
4,600.00	0.00	0.00	4,600.00	-1,310.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
4,700.00	0.00	0.00	4,700.00	-1,410.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
4,800.00	0.00	0.00	4,800.00	-1,510.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
4,900.00	0.00	0.00	4,900.00	-1,610.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
5,000.00	0.00	0.00	5,000.00	-1,710.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
5,100.00	0.00	0.00	5,100.00	-1,810.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
5,200.00	0.00	0.00	5,200.00	-1,910.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
5,300.00	0.00	0.00	5,300.00	-2,010.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46



Pathfinder

Pathfinder X & Y Planning Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Llama All Federal Com
Well: #10H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #10H
 WELL @ 3290.00usft (Original Well Elev)
 WELL @ 3290.00usft (Original Well Elev)
 Grid
 Minimum Curvature
 EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
5,400.00	0.00	0.00	5,400.00	-2,110.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
5,500.00	0.00	0.00	5,500.00	-2,210.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
5,600.00	0.00	0.00	5,600.00	-2,310.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
5,700.00	0.00	0.00	5,700.00	-2,410.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
5,800.00	0.00	0.00	5,800.00	-2,510.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
5,900.00	0.00	0.00	5,900.00	-2,610.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
6,000.00	0.00	0.00	6,000.00	-2,710.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
6,100.00	0.00	0.00	6,100.00	-2,810.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
6,200.00	0.00	0.00	6,200.00	-2,910.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
6,300.00	0.00	0.00	6,300.00	-3,010.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
6,400.00	0.00	0.00	6,400.00	-3,110.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
6,500.00	0.00	0.00	6,500.00	-3,210.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
6,600.00	0.00	0.00	6,600.00	-3,310.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
6,700.00	0.00	0.00	6,700.00	-3,410.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
6,800.00	0.00	0.00	6,800.00	-3,510.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
6,900.00	0.00	0.00	6,900.00	-3,610.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
7,000.00	0.00	0.00	7,000.00	-3,710.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
7,100.00	0.00	0.00	7,100.00	-3,810.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
7,200.00	0.00	0.00	7,200.00	-3,910.00	0.00	0.00	0.00	0.00	509,526.51	700,031.46
7,222.50	0.00	0.00	7,222.50	-3,932.50	0.00	0.00	0.00	0.00	509,526.51	700,031.46
KOP-7222.50°MD,0.00°INC,0.00°AZI,7222.50°TVD										
7,225.00	0.30	359.71	7,225.00	-3,935.00	0.01	0.00	0.01	12.00	509,526.52	700,031.46
7,250.00	3.30	359.71	7,249.98	-3,959.98	0.79	0.00	0.79	12.00	509,527.30	700,031.45
7,275.00	6.30	359.71	7,274.89	-3,984.89	2.88	-0.01	2.88	12.00	509,529.39	700,031.44
7,300.00	9.30	359.71	7,299.66	-4,009.66	6.28	-0.03	6.28	12.00	509,532.78	700,031.42
7,325.00	12.30	359.71	7,324.21	-4,034.21	10.96	-0.06	10.96	12.00	509,537.47	700,031.40
7,350.00	15.30	359.71	7,348.49	-4,058.49	16.92	-0.09	16.92	12.00	509,543.43	700,031.37



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company: Yates Petroleum Corp.
Project: Eddy County
Site: Llama All Federal Com
Well: #10H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #10H
WELL @ 3290.00usft (Original Well Elev)
WELL @ 3290.00usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
7,375.00	18.30	359.71	7,372.42	-4,082.42	24.15	-0.12	24.15	12.00	509,550.65	700,031.33
7,400.00	21.30	359.71	7,395.94	-4,105.94	32.61	-0.17	32.61	12.00	509,559.12	700,031.29
7,425.00	24.30	359.71	7,418.98	-4,128.98	42.30	-0.21	42.30	12.00	509,568.81	700,031.24
7,450.00	27.30	359.71	7,441.49	-4,151.49	53.18	-0.27	53.18	12.00	509,579.69	700,031.19
7,475.00	30.30	359.71	7,463.40	-4,173.40	65.22	-0.33	65.22	12.00	509,591.73	700,031.13
7,500.00	33.30	359.71	7,484.64	-4,194.64	78.39	-0.40	78.39	12.00	509,604.90	700,031.06
7,525.00	36.30	359.71	7,505.17	-4,215.17	92.65	-0.47	92.66	12.00	509,619.16	700,030.99
7,550.00	39.30	359.71	7,524.92	-4,234.92	107.97	-0.55	107.98	12.00	509,634.48	700,030.91
7,575.00	42.30	359.71	7,543.84	-4,253.84	124.31	-0.63	124.31	12.00	509,650.82	700,030.83
7,600.00	45.30	359.71	7,561.89	-4,271.89	141.61	-0.72	141.61	12.00	509,668.12	700,030.74
7,625.00	48.30	359.71	7,579.00	-4,289.00	159.83	-0.81	159.83	12.00	509,686.34	700,030.65
7,650.00	51.30	359.71	7,595.14	-4,305.14	178.92	-0.91	178.92	12.00	509,705.43	700,030.55
7,675.00	54.30	359.71	7,610.25	-4,320.25	198.83	-1.01	198.83	12.00	509,725.34	700,030.45
7,700.00	57.30	359.71	7,624.30	-4,334.30	219.50	-1.11	219.50	12.00	509,746.01	700,030.34
7,725.00	60.29	359.71	7,637.25	-4,347.25	240.88	-1.22	240.88	12.00	509,767.39	700,030.24
7,750.00	63.29	359.71	7,649.07	-4,359.07	262.91	-1.33	262.91	12.00	509,789.42	700,030.13
7,775.00	66.29	359.71	7,659.71	-4,369.71	285.53	-1.45	285.53	12.00	509,812.04	700,030.01
7,800.00	69.29	359.71	7,669.16	-4,379.16	308.67	-1.56	308.67	12.00	509,835.18	700,029.89
7,825.00	72.29	359.71	7,677.38	-4,387.38	332.28	-1.68	332.28	12.00	509,858.78	700,029.77
7,850.00	75.29	359.71	7,684.36	-4,394.36	356.28	-1.80	356.28	12.00	509,882.79	700,029.65
7,875.00	78.29	359.71	7,690.07	-4,400.07	380.61	-1.93	380.62	12.00	509,907.12	700,029.53
7,900.00	81.29	359.71	7,694.50	-4,404.50	405.22	-2.05	405.22	12.00	509,931.72	700,029.41
7,925.00	84.29	359.71	7,697.64	-4,407.64	430.02	-2.18	430.02	12.00	509,956.52	700,029.28
7,950.00	87.29	359.71	7,699.47	-4,409.47	454.94	-2.30	454.95	12.00	509,981.45	700,029.15
7,970.48	89.75	359.71	7,700.00	-4,410.00	475.41	-2.41	475.42	12.00	510,001.92	700,029.05
EOC-7970.48°MD,89.75°INC,359.71°AZI,7700.00°TVD										
8,000.00	89.75	359.71	7,700.13	-4,410.13	504.94	-2.56	504.94	0.00	510,031.44	700,028.90



Pathfinder

Pathfinder X & Y Planning Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Llama All.Federal Corn
Well: #10H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference: Well #10H
TVD Reference: WELL @ 3290.00usft (Original Well Elev)
MD Reference: WELL @ 3290.00usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
8,100.00	89.75	359.71	7,700.57	-4,410.57	604.93	-3.06	604.94	0.00	510,131.44	700,028.39
8,200.00	89.75	359.71	7,701.00	-4,411.00	704.93	-3.57	704.94	0.00	510,231.44	700,027.89
8,300.00	89.75	359.71	7,701.44	-4,411.44	804.93	-4.07	804.94	0.00	510,331.44	700,027.38
8,400.00	89.75	359.71	7,701.87	-4,411.87	904.93	-4.58	904.94	0.00	510,431.44	700,026.88
8,500.00	89.75	359.71	7,702.31	-4,412.31	1,004.92	-5.09	1,004.94	0.00	510,531.43	700,026.37
8,600.00	89.75	359.71	7,702.75	-4,412.75	1,104.92	-5.59	1,104.94	0.00	510,631.43	700,025.86
8,700.00	89.75	359.71	7,703.18	-4,413.18	1,204.92	-6.10	1,204.94	0.00	510,731.43	700,025.36
8,800.00	89.75	359.71	7,703.62	-4,413.62	1,304.92	-6.60	1,304.93	0.00	510,831.43	700,024.85
8,900.00	89.75	359.71	7,704.06	-4,414.06	1,404.92	-7.11	1,404.93	0.00	510,931.42	700,024.35
9,000.00	89.75	359.71	7,704.49	-4,414.49	1,504.91	-7.62	1,504.93	0.00	511,031.42	700,023.84
9,100.00	89.75	359.71	7,704.93	-4,414.93	1,604.91	-8.12	1,604.93	0.00	511,131.42	700,023.33
9,200.00	89.75	359.71	7,705.36	-4,415.36	1,704.91	-8.63	1,704.93	0.00	511,231.42	700,022.83
9,300.00	89.75	359.71	7,705.80	-4,415.80	1,804.91	-9.14	1,804.93	0.00	511,331.42	700,022.32
9,400.00	89.75	359.71	7,706.24	-4,416.24	1,904.90	-9.64	1,904.93	0.00	511,431.41	700,021.81
9,500.00	89.75	359.71	7,706.67	-4,416.67	2,004.90	-10.15	2,004.93	0.00	511,531.41	700,021.31
9,600.00	89.75	359.71	7,707.11	-4,417.11	2,104.90	-10.65	2,104.93	0.00	511,631.41	700,020.80
9,700.00	89.75	359.71	7,707.55	-4,417.55	2,204.90	-11.16	2,204.93	0.00	511,731.41	700,020.30
9,800.00	89.75	359.71	7,707.98	-4,417.98	2,304.90	-11.67	2,304.92	0.00	511,831.40	700,019.79
9,900.00	89.75	359.71	7,708.42	-4,418.42	2,404.89	-12.17	2,404.92	0.00	511,931.40	700,019.28
10,000.00	89.75	359.71	7,708.86	-4,418.86	2,504.89	-12.68	2,504.92	0.00	512,031.40	700,018.78
10,100.00	89.75	359.71	7,709.29	-4,419.29	2,604.89	-13.18	2,604.92	0.00	512,131.40	700,018.27
10,200.00	89.75	359.71	7,709.73	-4,419.73	2,704.89	-13.69	2,704.92	0.00	512,231.40	700,017.77
10,300.00	89.75	359.71	7,710.16	-4,420.16	2,804.88	-14.20	2,804.92	0.00	512,331.39	700,017.26
10,400.00	89.75	359.71	7,710.60	-4,420.60	2,904.88	-14.70	2,904.92	0.00	512,431.39	700,016.75
10,500.00	89.75	359.71	7,711.04	-4,421.04	3,004.88	-15.21	3,004.92	0.00	512,531.39	700,016.25
10,600.00	89.75	359.71	7,711.47	-4,421.47	3,104.88	-15.72	3,104.92	0.00	512,631.39	700,015.74
10,700.00	89.75	359.71	7,711.91	-4,421.91	3,204.88	-16.22	3,204.92	0.00	512,731.38	700,015.23



Pathfinder Pathfinder X & Y Planning Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Llama All Federal Com
Well: #10H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #10H
WELL @ 3290.00usft (Original Well Elev)
WELL @ 3290.00usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
10,800.00	89.75	359.71	7,712.35	-4,422.35	3,304.87	-16.73	3,304.92	0.00	512,831.38	700,014.73
10,900.00	89.75	359.71	7,712.78	-4,422.78	3,404.87	-17.23	3,404.91	0.00	512,931.38	700,014.22
11,000.00	89.75	359.71	7,713.22	-4,423.22	3,504.87	-17.74	3,504.91	0.00	513,031.38	700,013.72
11,100.00	89.75	359.71	7,713.66	-4,423.66	3,604.87	-18.25	3,604.91	0.00	513,131.38	700,013.21
11,200.00	89.75	359.71	7,714.09	-4,424.09	3,704.86	-18.75	3,704.91	0.00	513,231.37	700,012.70
11,300.00	89.75	359.71	7,714.53	-4,424.53	3,804.86	-19.26	3,804.91	0.00	513,331.37	700,012.20
11,400.00	89.75	359.71	7,714.96	-4,424.96	3,904.86	-19.76	3,904.91	0.00	513,431.37	700,011.69
11,500.00	89.75	359.71	7,715.40	-4,425.40	4,004.86	-20.27	4,004.91	0.00	513,531.37	700,011.19
11,600.00	89.75	359.71	7,715.84	-4,425.84	4,104.86	-20.78	4,104.91	0.00	513,631.36	700,010.68
11,700.00	89.75	359.71	7,716.27	-4,426.27	4,204.85	-21.28	4,204.91	0.00	513,731.36	700,010.17
11,800.00	89.75	359.71	7,716.71	-4,426.71	4,304.85	-21.79	4,304.91	0.00	513,831.36	700,009.67
11,900.00	89.75	359.71	7,717.15	-4,427.15	4,404.85	-22.30	4,404.90	0.00	513,931.36	700,009.16
12,000.00	89.75	359.71	7,717.58	-4,427.58	4,504.85	-22.80	4,504.90	0.00	514,031.36	700,008.65
12,100.00	89.75	359.71	7,718.02	-4,428.02	4,604.84	-23.31	4,604.90	0.00	514,131.35	700,008.15
12,200.00	89.75	359.71	7,718.45	-4,428.45	4,704.84	-23.81	4,704.90	0.00	514,231.35	700,007.64
12,300.00	89.75	359.71	7,718.89	-4,428.89	4,804.84	-24.32	4,804.90	0.00	514,331.35	700,007.14
12,400.00	89.75	359.71	7,719.33	-4,429.33	4,904.84	-24.83	4,904.90	0.00	514,431.35	700,006.63
12,500.00	89.75	359.71	7,719.76	-4,429.76	5,004.83	-25.33	5,004.90	0.00	514,531.34	700,006.12
12,600.00	89.75	359.71	7,720.20	-4,430.20	5,104.83	-25.84	5,104.90	0.00	514,631.34	700,005.62
12,700.00	89.75	359.71	7,720.64	-4,430.64	5,204.83	-26.34	5,204.90	0.00	514,731.34	700,005.11
12,800.00	89.75	359.71	7,721.07	-4,431.07	5,304.83	-26.85	5,304.90	0.00	514,831.34	700,004.61
12,900.00	89.75	359.71	7,721.51	-4,431.51	5,404.83	-27.36	5,404.90	0.00	514,931.34	700,004.10
13,000.00	89.75	359.71	7,721.95	-4,431.95	5,504.82	-27.86	5,504.89	0.00	515,031.33	700,003.59
13,100.00	89.75	359.71	7,722.38	-4,432.38	5,604.82	-28.37	5,604.89	0.00	515,131.33	700,003.09
13,200.00	89.75	359.71	7,722.82	-4,432.82	5,704.82	-28.87	5,704.89	0.00	515,231.33	700,002.58
13,300.00	89.75	359.71	7,723.25	-4,433.25	5,804.82	-29.38	5,804.89	0.00	515,331.33	700,002.07
13,400.00	89.75	359.71	7,723.69	-4,433.69	5,904.81	-29.89	5,904.89	0.00	515,431.32	700,001.57



Pathfinder
Pathfinder X & Y Planning Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Llama All Federal Com
Well: #10H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
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Well #10H
WELL @ 3290.00usft (Original Well Elev)
WELL @ 3290.00usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
13,500.00	89.75	359.71	7,724.13	-4,434.13	6,004.81	-30.39	6,004.89	0.00	515,531.32	700,001.06
13,600.00	89.75	359.71	7,724.56	-4,434.56	6,104.81	-30.90	6,104.89	0.00	515,631.32	700,000.56
13,700.00	89.75	359.71	7,725.00	-4,435.00	6,204.81	-31.41	6,204.89	0.00	515,731.32	700,000.05
13,800.00	89.75	359.71	7,725.44	-4,435.44	6,304.81	-31.91	6,304.89	0.00	515,831.31	699,999.54
13,900.00	89.75	359.71	7,725.87	-4,435.87	6,404.80	-32.42	6,404.89	0.00	515,931.31	699,999.04
14,000.00	89.75	359.71	7,726.31	-4,436.31	6,504.80	-32.92	6,504.88	0.00	516,031.31	699,998.53
14,100.00	89.75	359.71	7,726.74	-4,436.74	6,604.80	-33.43	6,604.88	0.00	516,131.31	699,998.03
14,200.00	89.75	359.71	7,727.18	-4,437.18	6,704.80	-33.94	6,704.88	0.00	516,231.31	699,997.52
14,300.00	89.75	359.71	7,727.62	-4,437.62	6,804.79	-34.44	6,804.88	0.00	516,331.30	699,997.01
14,400.00	89.75	359.71	7,728.05	-4,438.05	6,904.79	-34.95	6,904.88	0.00	516,431.30	699,996.51
14,500.00	89.75	359.71	7,728.49	-4,438.49	7,004.79	-35.45	7,004.88	0.00	516,531.30	699,996.00
14,600.00	89.75	359.71	7,728.93	-4,438.93	7,104.79	-35.96	7,104.88	0.00	516,631.30	699,995.50
14,700.00	89.75	359.71	7,729.36	-4,439.36	7,204.79	-36.47	7,204.88	0.00	516,731.29	699,994.99
14,760.94	89.75	359.71	7,729.63	-4,439.63	7,265.73	-36.78	7,265.82	0.00	516,792.24	699,994.68

PBHL(Llama#10H)

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,222.50	7,222.50	0.00	0.00	KOP-7222.50'MD,0.00°INC,0.00°AZI,7222.50'TVD
7,970.48	7,700.00	475.41	-2.41	EOC-7970.48'MD,89.75°INC,359.71°AZI,7700.00'TVD
14,760.94	7,729.63	7,265.73	-36.78	TD at 14760.94

Checked By: _____

Approved By: _____

Date: _____