

OCD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No 1004-0135
Expires November 30, 2000

RECEIVED

APR 12 2010

NM-OCD-ARTESIA

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NM-103879
2. Name of Operator Yates Petroleum Corporation		6. If Indian, Allottee or Tribe Name
3a. Address 105 South Fourth Street, Artesia, NM 88210	3b. Phone No. (include area code) (575) 748-1471	7. If Unit or CA/Agreement, Name and No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Surface: 660' FNL & 330' FWL, Section 7 T23S-R29E, Unit Letter D BHL: 660' FNL & 2310 FWL, Section 8 T23S-R29E, Unit Letter C		8. Well Name and No. Culebra BLV Federal #1H
		9. API Well No. 30-015-37615
		10. Field and Pool, or Exploratory Area Undesignated Bone Spring
		11. County or Parish, State Eddy County

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other change in lateral
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	TVD
	☐ Convert to Injection	☒ Plug Back	☐ Water Disposal	

13 Describe Proposed or Completed Operations (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 recomplate 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/BLA. Required subsequent reports shall 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 shall be filed once Testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Yates Petroleum Corporation respectfully requests permission to change the true vertical depth of the zone of interest. New tvd for end of curve will be 6060' and the end of lateral tvd will be approx. 6180'. Attached are the revised directional plan, casing design, and cement design.

Verbal approval given by Wesley Ingram, BLM to plug back as necessary to drill lateral in above mentioned zone. The cement plugs done as follows: BLM notified prior to setting isolation plug. Isolation plug set from 6,021'- 6350'. Isolation plug tagged at 6,021'. Then kick off plug set from 5122'-5897'. Well will be kicked off at approx. 5484'. Thank-You

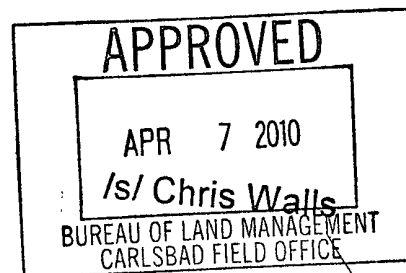
14 I hereby certify that the foregoing is true and correct	
Name (Printed/Typed) Jeremiah Mullen	Title Well Planning Technician
Signature <i>Jeremiah Mullen</i>	Date April 1, 2010

THIS SPACE FOR FEDERAL OR STATE USE

Approved by	Title	Date
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	

Title 18 U.S.C. Section 1001, 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 reverse)



mw

An 8 3/4" hole will be drilled to 6,400' MD (6,060' TVD) at 10 degrees/100'. Decision will then be made whether to set 7" or not. If 7" casing is not set, then hole size will be reduced to 8 1/2" and drilled to 12,834' MD (6,180' TVD) where 5 1/2" casing will be set and cemented as per the cement design below

Production Casing

0 ft to 6,400 ft				Make up Torque ft-lbs			Total ft = 6,400
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
5.5 inches	17 #/ft	HCP-110	LT&C	4620	3470	5780	
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift			
8,580 psi	10,640 psi	445,000 #	546,000 #	4,767			

6,400 ft to 12,834 ft				Make up Torque ft-lbs			Total ft = 6,434
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
5.5 inches	17 #/ft	L-80	LT&C	3410	2560	4260	
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift			
6,290 psi	7,740 psi	338,000 #	397,000 #	4,767			

DV tool placed at 4000'.

Stage I: Cemented w/2875sx PVL (YLD 1.41 Wt 13) TOC= 4000'

Stage II: Cemented w/300sx Lite Crete (YLD 2.78 Wt 9.9), tail w/100sx PVL (YLD 1.41 Wt 13) TOC= 2100'

Contingency Casing Design

If hole conditions dictate, 7" casing will be set at 6,400' MD (6,060' TVD). A 6 1/8" hole will then be drilled to 12,834' MD (6,180' TVD) where 4 1/2" casing will be set and cemented with one stage up to dv tool. After completion procedures, the 4 1/2" casing will be cut and pulled at 5300'.

2nd Intermediate

0 ft to 100 ft				Make up Torque ft-lbs			Total ft = 100
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
7 inches	26 #/ft	J-55	LT&C	3670	2750	4590	
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift			
4,320 psi	4,980 psi	367,000 #	415,000 #	6,151			

100 ft to 6,100 ft				Make up Torque ft-lbs			Total ft = 6,000
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
7 inches	23 #/ft	J-55	LT&C	3130	2350	3910	
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift			
3,270 psi	4,360 psi	313,000 #	366,000 #	6,251			

6,100 ft to 6,400 ft				Make up Torque ft-lbs			Total ft = 300
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
7 inches	26 #/ft	J-55	LT&C	3670	2750	4590	
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift			
4,320 psi	4,980 psi	367,000 #	415,000 #	6,151			

DV tool placed at 4000'.

Stage I: 6400'-4000' Cemented w/515sx PVL (YLD 1.41 Wt 13) TOC= 4000'

Stage II: 4000'-2100' Cemented w/175sx Lite Crete (YLD 2.66 Wt 9.9), tail w/100sx PVL (YLD 1.41 Wt 13) TOC= 2100'

Production

0 ft to 12,834 ft				Make up Torque ft-lbs			Total ft = 12,834
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
4.5 inches	11.6 #/ft	HCP-110	LT&C	3020	2270	3780	
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift			
8,650 psi	10,690 psi	279,000 #	367,000 #	3,875			

DV tool placed at approx. 5300' and cemented with one stage up to dv tool. After completion procedures, the

4 1/2" casing will be cut and pulled at 5300'

Cemented w/1010sx PVL (YLD 1.41 Wt 13) TOC= 5300'



**YATES
PETROLEUM
CORPORATION**

Yates Petroleum Corp.

Eddy County

Culebra "BLV" Federal

#1H

OH

Plan: Plan #5

Pathfinder X & Y Planning Report

31 March, 2010

PATHFINDER



**ATES
PETROLEUM
CORPORATION**

Project: Eddy County
Site: Culebra "BLV" Federal
Well: #1H
Wellbore: OH
Plan: Plan #5 (#1H/OH)

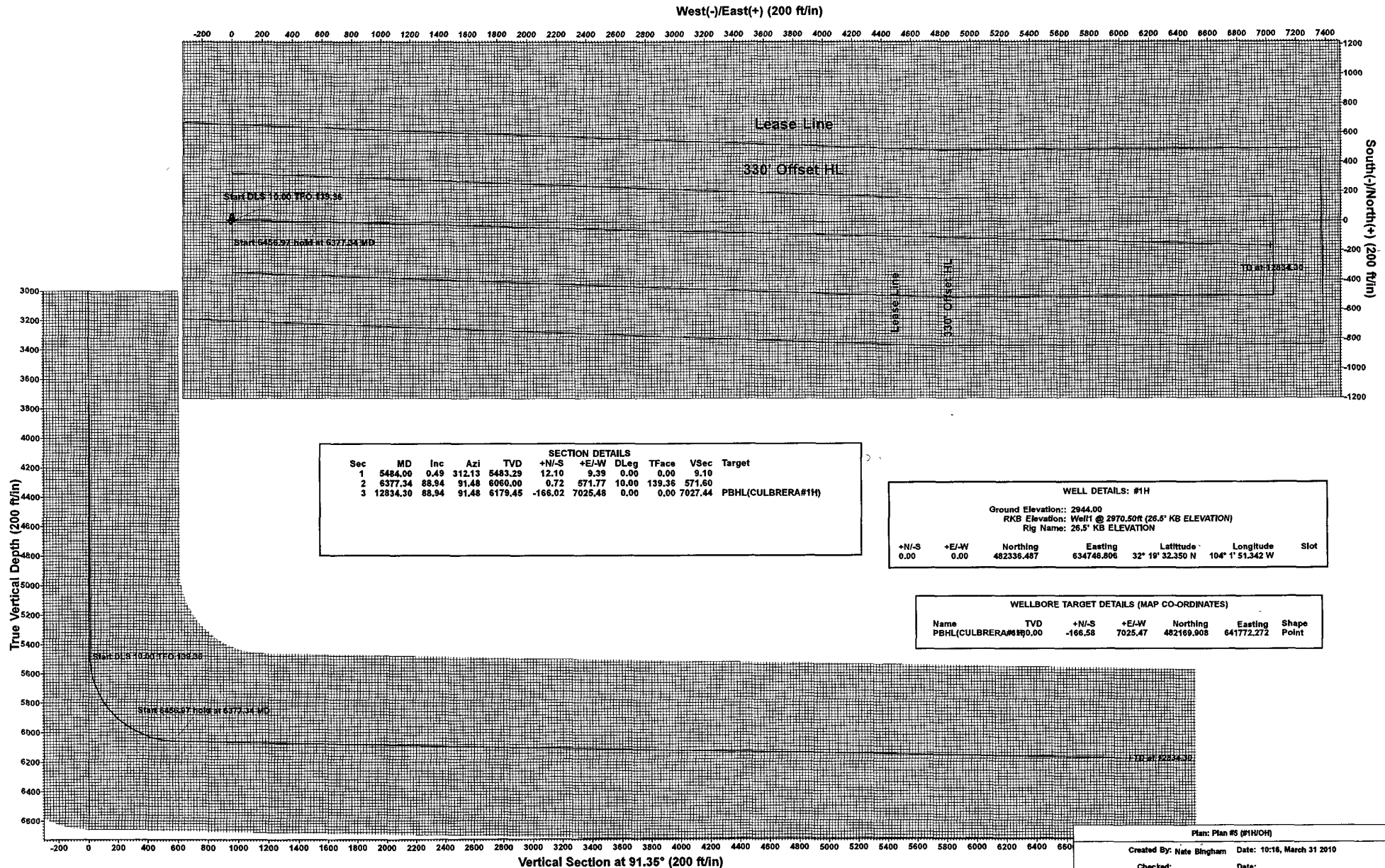


Azimuths to Grid North
True North: -0.16°
Magnetic North: 7.79°

Magnetic Field
Strength: 48755.5nT
Dip Angle: 60.23°
Date: 03/12/2010
Model: IGRF2010

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

PATHFINDER





Pathfinder Pathfinder X & Y Planning Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Culebra "BLV" Federal
Well: #1H
Wellbore: OH
Design: Plan #5

Local Co-ordinate Reference: Well #1H
TVD Reference: Well1 @ 2970.50ft (26.5' KB ELEVATION)
MD Reference: Well1 @ 2970.50ft (26.5' KB ELEVATION)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Project: Eddy County

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site: Culebra "BLV" Federal

Site Position:		Northing:	482,336.487 ft	Latitude:	32° 19' 32.350 N
From: Map		Easting:	634,746.806 ft	Longitude:	104° 1' 51.342 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.16 °

Well: #1H

Well Position	+N/-S	0.00 ft	Northing:	482,336.487 ft	Latitude:	32° 19' 32.350 N
	+E/-W	0.00 ft	Easting:	634,746.806 ft	Longitude:	104° 1' 51.342 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	2,944.00 ft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	03/12/2010	7.96	60.23	48,755

Design: Plan #5

Audit Notes:

Version: Phase: PLAN Tie On Depth: 5,484.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	91.35



Pathfinder

Pathfinder X & Y Planning Report



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Site: Culebra "BLV" Federal
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Wellbore: OH
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Survey Tool Program Date 03/31/2010

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
200.00	5,484.00	Pilot Hole (OH)	MWD	MWD - Standard
5,484.00	12,834.30	Plan #5 (OH)	MWD	MWD - Standard

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
0.00	0.00	0.00	0.00	-2,970.50	0.00	0.00	0.00	0.00	482,336.49	634,746.81	
200.00	1.25	348.71	199.98	-2,770.52	2.14	-0.43	-0.48	0.62	482,338.63	634,746.38	
400.00	1.00	223.17	399.97	-2,570.53	3.01	-2.05	-2.12	1.00	482,339.49	634,744.76	
481.00	1.06	192.89	480.95	-2,489.55	1.76	-2.70	-2.74	0.67	482,338.25	634,744.11	
572.00	1.06	187.09	571.94	-2,398.56	0.10	-2.99	-2.99	0.12	482,336.59	634,743.82	
693.00	0.70	163.71	692.92	-2,277.58	-1.72	-2.92	-2.88	0.41	482,334.77	634,743.88	
881.00	1.14	202.73	880.90	-2,089.60	-4.54	-3.32	-3.21	0.39	482,331.94	634,743.48	
975.00	1.67	211.61	974.87	-1,995.63	-6.57	-4.40	-4.24	0.61	482,329.91	634,742.40	
1,069.00	0.44	220.22	1,068.85	-1,901.65	-8.01	-5.35	-5.16	1.32	482,328.47	634,741.45	
1,164.00	0.88	247.47	1,163.85	-1,806.65	-8.57	-6.26	-6.06	0.56	482,327.91	634,740.54	
1,258.00	1.76	237.27	1,257.82	-1,712.68	-9.63	-8.14	-7.91	0.97	482,326.86	634,738.66	
1,352.00	1.06	252.21	1,351.79	-1,618.71	-10.68	-10.19	-9.93	0.84	482,325.81	634,736.62	
1,446.00	1.32	240.79	1,445.77	-1,524.73	-11.47	-11.96	-11.68	0.37	482,325.02	634,734.85	
1,540.00	0.18	34.33	1,539.77	-1,430.73	-11.88	-12.82	-12.54	1.58	482,324.61	634,733.99	
1,635.00	0.44	6.82	1,634.76	-1,335.74	-11.39	-12.69	-12.42	0.31	482,325.10	634,734.11	
1,729.00	0.53	325.25	1,728.76	-1,241.74	-10.68	-12.90	-12.64	0.38	482,325.81	634,733.91	
1,823.00	0.53	325.87	1,822.76	-1,147.74	-9.96	-13.39	-13.15	0.01	482,326.53	634,733.42	
1,917.00	0.35	58.50	1,916.76	-1,053.74	-9.45	-13.39	-13.16	0.69	482,327.04	634,733.42	
2,012.00	0.79	112.91	2,011.75	-958.75	-9.55	-12.54	-12.31	0.69	482,326.94	634,734.27	
2,106.00	1.41	113.26	2,105.73	-864.77	-10.26	-10.88	-10.63	0.66	482,326.23	634,735.93	
2,200.00	0.26	342.30	2,199.72	-770.78	-10.51	-9.88	-9.63	1.69	482,325.97	634,736.93	



Pathfinder

Pathfinder X & Y Planning Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Culebra "BLV" Federal
Well: #1H
Wellbore: OH
Design: Plan #5

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well #1H
Well1 @ 2970.50ft (26.5' KB ELEVATION)
Well1 @ 2970.50ft (26.5' KB ELEVATION)
Grid
Minimum Curvature
Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
2,294.00	0.53	130.66	2,293.72	-676.78	-10.59	-9.62	-9.36	0.81	482,325.89	634,737.19
2,389.00	1.14	120.47	2,388.71	-581.79	-11.36	-8.47	-8.20	0.66	482,325.13	634,738.34
2,483.00	0.70	153.60	2,482.70	-487.80	-12.35	-7.41	-7.11	0.72	482,324.14	634,739.40
2,589.00	0.97	135.60	2,588.69	-381.81	-13.57	-6.49	-6.17	0.35	482,322.92	634,740.32
2,732.00	0.97	136.29	2,731.67	-238.83	-15.31	-4.81	-4.44	0.01	482,321.18	634,742.00
2,920.00	1.06	134.09	2,919.64	-50.86	-17.67	-2.46	-2.04	0.05	482,318.82	634,744.35
3,108.00	0.97	189.46	3,107.61	137.11	-20.45	-1.47	-0.99	0.50	482,316.04	634,745.33
3,297.00	1.14	22.47	3,296.60	326.10	-20.29	-1.02	-0.54	1.11	482,316.20	634,745.79
3,484.00	1.23	24.67	3,483.56	513.06	-16.75	0.53	0.93	0.05	482,319.74	634,747.34
3,673.00	1.23	23.52	3,672.52	702.02	-13.04	2.19	2.50	0.01	482,323.44	634,749.00
3,861.00	1.32	21.94	3,860.47	889.97	-9.18	3.80	4.02	0.05	482,327.30	634,750.61
4,049.00	1.23	20.18	4,048.43	1,077.93	-5.28	5.31	5.43	0.05	482,331.21	634,752.11
4,237.00	1.06	14.21	4,236.39	1,265.89	-1.70	6.43	6.47	0.11	482,334.78	634,753.24
4,425.00	0.97	10.43	4,424.36	1,453.86	1.55	7.15	7.11	0.06	482,338.04	634,753.95
4,613.00	0.88	11.31	4,612.34	1,641.84	4.53	7.72	7.61	0.05	482,341.02	634,754.52
4,800.00	0.70	15.35	4,799.32	1,828.82	7.04	8.30	8.13	0.10	482,343.53	634,755.11
4,988.00	0.44	36.53	4,987.31	2,016.81	8.73	9.04	8.83	0.18	482,345.21	634,755.84
5,177.00	0.53	32.84	5,176.30	2,205.80	10.04	9.94	9.70	0.05	482,346.53	634,756.75
5,364.00	0.44	327.10	5,363.30	2,392.80	11.37	10.02	9.75	0.28	482,347.86	634,756.83
5,484.00	0.49	312.13	5,483.29	2,512.79	12.10	9.39	9.10	0.11	482,348.59	634,756.20
5,500.00	1.27	76.95	5,499.29	2,528.79	12.19	9.51	9.22	10.00	482,348.68	634,756.32
5,550.00	6.24	88.57	5,549.17	2,578.67	12.38	12.77	12.47	10.00	482,348.87	634,759.57
5,600.00	11.23	89.88	5,598.57	2,628.07	12.46	20.36	20.06	10.00	482,348.95	634,767.16
5,650.00	16.23	90.39	5,647.13	2,676.63	12.42	32.22	31.92	10.00	482,348.91	634,779.03
5,700.00	21.23	90.67	5,694.47	2,723.97	12.27	48.27	47.96	10.00	482,348.76	634,795.07
5,750.00	26.22	90.84	5,740.23	2,769.73	12.00	68.37	68.07	10.00	482,348.49	634,815.18
5,800.00	31.22	90.96	5,784.06	2,813.56	11.62	92.39	92.09	10.00	482,348.11	634,839.20



Pathfinder Pathfinder X & Y Planning Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	Well1 @ 2970.50ft (26.5' KB ELEVATION)
Site:	Culebra "BLV" Federal	MD Reference:	Well1 @ 2970.50ft (26.5' KB ELEVATION)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #5	Database:	Midland Database

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
5,850.00	36.22	91.05	5,825.64	2,855.14	11.14	120.14	119.84	10.00	482,347.62	634,866.94	
5,900.00	41.22	91.12	5,864.63	2,894.13	10.54	151.40	151.11	10.00	482,347.03	634,898.20	
5,950.00	46.22	91.18	5,900.76	2,930.26	9.85	185.94	185.65	10.00	482,346.33	634,932.74	
6,000.00	51.22	91.23	5,933.74	2,963.24	9.06	223.49	223.21	10.00	482,345.54	634,970.30	
6,050.00	56.22	91.27	5,963.32	2,992.82	8.18	263.77	263.50	10.00	482,344.66	635,010.58	
6,100.00	61.21	91.31	5,989.27	3,018.77	7.21	306.48	306.22	10.00	482,343.70	635,053.28	
6,150.00	66.21	91.35	6,011.41	3,040.91	6.17	351.28	351.04	10.00	482,342.66	635,098.09	
6,200.00	71.21	91.38	6,029.56	3,059.06	5.07	397.84	397.61	10.00	482,341.55	635,144.65	
6,250.00	76.21	91.41	6,043.58	3,073.08	3.90	445.80	445.59	10.00	482,340.39	635,192.61	
6,300.00	81.21	91.44	6,053.36	3,082.86	2.68	494.80	494.60	10.00	482,339.17	635,241.61	
6,350.00	86.21	91.46	6,058.84	3,088.34	1.43	544.47	544.29	10.00	482,337.91	635,291.28	
6,377.34	88.94	91.48	6,060.00	3,089.50	0.72	571.77	571.60	10.00	482,337.21	635,318.58	
6,400.00	88.94	91.48	6,060.42	3,089.92	0.14	594.42	594.26	0.00	482,336.63	635,341.23	
6,500.00	88.94	91.48	6,062.27	3,091.77	-2.44	694.37	694.24	0.00	482,334.04	635,441.18	
6,600.00	88.94	91.48	6,064.12	3,093.62	-5.03	794.32	794.22	0.00	482,331.46	635,541.13	
6,700.00	88.94	91.48	6,065.97	3,095.47	-7.61	894.27	894.20	0.00	482,328.88	635,641.08	
6,800.00	88.94	91.48	6,067.82	3,097.32	-10.19	994.22	994.19	0.00	482,326.30	635,741.03	
6,900.00	88.94	91.48	6,069.67	3,099.17	-12.77	1,094.17	1,094.17	0.00	482,323.71	635,840.98	
7,000.00	88.94	91.48	6,071.52	3,101.02	-15.36	1,194.12	1,194.15	0.00	482,321.13	635,940.93	
7,100.00	88.94	91.48	6,073.37	3,102.87	-17.94	1,294.07	1,294.13	0.00	482,318.55	636,040.88	
7,200.00	88.94	91.48	6,075.22	3,104.72	-20.52	1,394.02	1,394.12	0.00	482,315.97	636,140.83	
7,300.00	88.94	91.48	6,077.07	3,106.57	-23.10	1,493.97	1,494.10	0.00	482,313.38	636,240.78	
7,400.00	88.94	91.48	6,078.92	3,108.42	-25.69	1,593.92	1,594.08	0.00	482,310.80	636,340.73	
7,500.00	88.94	91.48	6,080.77	3,110.27	-28.27	1,693.87	1,694.06	0.00	482,308.22	636,440.68	
7,600.00	88.94	91.48	6,082.62	3,112.12	-30.85	1,793.82	1,794.05	0.00	482,305.64	636,540.62	
7,700.00	88.94	91.48	6,084.47	3,113.97	-33.43	1,893.77	1,894.03	0.00	482,303.05	636,640.57	
7,800.00	88.94	91.48	6,086.32	3,115.82	-36.01	1,993.72	1,994.01	0.00	482,300.47	636,740.52	



Pathfinder Pathfinder X & Y Planning Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Culebra "BLV" Federal
Well: #1H
Wellbore: OH
Design: Plan #5

Local Co-ordinate Reference: Well #1H
TVD Reference: Well1 @ 2970.50ft (26.5' KB ELEVATION)
MD Reference: Well1 @ 2970.50ft (26.5' KB ELEVATION)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (%/100ft)	Northing (ft)	Easting (ft)
7,900.00	88.94	91.48	6,088.17	3,117.67	-38.60	2,093.67	2,093.99	0.00	482,297.89	636,840.47
8,000.00	88.94	91.48	6,090.02	3,119.52	-41.18	2,193.62	2,193.98	0.00	482,295.31	636,940.42
8,100.00	88.94	91.48	6,091.87	3,121.37	-43.76	2,293.57	2,293.96	0.00	482,292.73	637,040.37
8,200.00	88.94	91.48	6,093.72	3,123.22	-46.34	2,393.52	2,393.94	0.00	482,290.14	637,140.32
8,300.00	88.94	91.48	6,095.57	3,125.07	-48.93	2,493.47	2,493.93	0.00	482,287.56	637,240.27
8,400.00	88.94	91.48	6,097.42	3,126.92	-51.51	2,593.42	2,593.91	0.00	482,284.98	637,340.22
8,500.00	88.94	91.48	6,099.27	3,128.77	-54.09	2,693.36	2,693.89	0.00	482,282.40	637,440.17
8,600.00	88.94	91.48	6,101.12	3,130.62	-56.67	2,793.31	2,793.87	0.00	482,279.81	637,540.12
8,700.00	88.94	91.48	6,102.97	3,132.47	-59.26	2,893.26	2,893.86	0.00	482,277.23	637,640.07
8,800.00	88.94	91.48	6,104.82	3,134.32	-61.84	2,993.21	2,993.84	0.00	482,274.65	637,740.02
8,900.00	88.94	91.48	6,106.67	3,136.17	-64.42	3,093.16	3,093.82	0.00	482,272.07	637,839.97
9,000.00	88.94	91.48	6,108.52	3,138.02	-67.00	3,193.11	3,193.80	0.00	482,269.48	637,939.92
9,100.00	88.94	91.48	6,110.37	3,139.87	-69.59	3,293.06	3,293.79	0.00	482,266.90	638,039.87
9,200.00	88.94	91.48	6,112.22	3,141.72	-72.17	3,393.01	3,393.77	0.00	482,264.32	638,139.82
9,300.00	88.94	91.48	6,114.07	3,143.57	-74.75	3,492.96	3,493.75	0.00	482,261.74	638,239.77
9,400.00	88.94	91.48	6,115.92	3,145.42	-77.33	3,592.91	3,593.73	0.00	482,259.15	638,339.72
9,500.00	88.94	91.48	6,117.77	3,147.27	-79.91	3,692.86	3,693.72	0.00	482,256.57	638,439.67
9,600.00	88.94	91.48	6,119.62	3,149.12	-82.50	3,792.81	3,793.70	0.00	482,253.99	638,539.62
9,700.00	88.94	91.48	6,121.47	3,150.97	-85.08	3,892.76	3,893.68	0.00	482,251.41	638,639.56
9,800.00	88.94	91.48	6,123.32	3,152.82	-87.66	3,992.71	3,993.67	0.00	482,248.83	638,739.51
9,900.00	88.94	91.48	6,125.17	3,154.67	-90.24	4,092.66	4,093.65	0.00	482,246.24	638,839.46
10,000.00	88.94	91.48	6,127.02	3,156.52	-92.83	4,192.61	4,193.63	0.00	482,243.66	638,939.41
10,100.00	88.94	91.48	6,128.87	3,158.37	-95.41	4,292.56	4,293.61	0.00	482,241.08	639,039.36
10,200.00	88.94	91.48	6,130.72	3,160.22	-97.99	4,392.51	4,393.60	0.00	482,238.50	639,139.31
10,300.00	88.94	91.48	6,132.57	3,162.07	-100.57	4,492.46	4,493.58	0.00	482,235.91	639,239.26
10,400.00	88.94	91.48	6,134.42	3,163.92	-103.16	4,592.41	4,593.56	0.00	482,233.33	639,339.21
10,500.00	88.94	91.48	6,136.27	3,165.77	-105.74	4,692.36	4,693.54	0.00	482,230.75	639,439.16



Pathfinder

Pathfinder X & Y Planning Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	Well1 @ 2970.50ft (26.5' KB ELEVATION)
Site:	Culebra "BLV" Federal	MD Reference:	Well1 @ 2970.50ft (26.5' KB ELEVATION)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #5	Database:	Midland Database

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
10,600.00	88.94	91.48	6,138.12	3,167.62	-108.32	4,792.30	4,793.53	0.00	482,228.17	639,539.11	
10,700.00	88.94	91.48	6,139.97	3,169.47	-110.90	4,892.25	4,893.51	0.00	482,225.58	639,639.06	
10,800.00	88.94	91.48	6,141.82	3,171.32	-113.49	4,992.20	4,993.49	0.00	482,223.00	639,739.01	
10,900.00	88.94	91.48	6,143.67	3,173.17	-116.07	5,092.15	5,093.47	0.00	482,220.42	639,838.96	
11,000.00	88.94	91.48	6,145.52	3,175.02	-118.65	5,192.10	5,193.46	0.00	482,217.84	639,938.91	
11,100.00	88.94	91.48	6,147.37	3,176.87	-121.23	5,292.05	5,293.44	0.00	482,215.25	640,038.86	
11,200.00	88.94	91.48	6,149.22	3,178.72	-123.81	5,392.00	5,393.42	0.00	482,212.67	640,138.81	
11,300.00	88.94	91.48	6,151.07	3,180.57	-126.40	5,491.95	5,493.40	0.00	482,210.09	640,238.76	
11,400.00	88.94	91.48	6,152.92	3,182.42	-128.98	5,591.90	5,593.39	0.00	482,207.51	640,338.71	
11,500.00	88.94	91.48	6,154.77	3,184.27	-131.56	5,691.85	5,693.37	0.00	482,204.93	640,438.66	
11,600.00	88.94	91.48	6,156.62	3,186.12	-134.14	5,791.80	5,793.35	0.00	482,202.34	640,538.61	
11,700.00	88.94	91.48	6,158.47	3,187.97	-136.73	5,891.75	5,893.34	0.00	482,199.76	640,638.56	
11,800.00	88.94	91.48	6,160.32	3,189.82	-139.31	5,991.70	5,993.32	0.00	482,197.18	640,738.51	
11,900.00	88.94	91.48	6,162.17	3,191.67	-141.89	6,091.65	6,093.30	0.00	482,194.60	640,838.45	
12,000.00	88.94	91.48	6,164.02	3,193.52	-144.47	6,191.60	6,193.28	0.00	482,192.01	640,938.40	
12,100.00	88.94	91.48	6,165.87	3,195.37	-147.06	6,291.55	6,293.27	0.00	482,189.43	641,038.35	
12,200.00	88.94	91.48	6,167.72	3,197.22	-149.64	6,391.50	6,393.25	0.00	482,186.85	641,138.30	
12,300.00	88.94	91.48	6,169.57	3,199.07	-152.22	6,491.45	6,493.23	0.00	482,184.27	641,238.25	
12,400.00	88.94	91.48	6,171.42	3,200.92	-154.80	6,591.40	6,593.21	0.00	482,181.68	641,338.20	
12,500.00	88.94	91.48	6,173.27	3,202.77	-157.39	6,691.35	6,693.20	0.00	482,179.10	641,438.15	
12,600.00	88.94	91.48	6,175.12	3,204.62	-159.97	6,791.30	6,793.18	0.00	482,176.52	641,538.10	
12,700.00	88.94	91.48	6,176.97	3,206.47	-162.55	6,891.24	6,893.16	0.00	482,173.94	641,638.05	
12,800.00	88.94	91.48	6,178.82	3,208.32	-165.13	6,991.19	6,993.14	0.00	482,171.35	641,738.00	
12,834.30	88.94	91.48	6,179.45	3,208.95	-166.02	7,025.48	7,027.44	0.00	482,170.47	641,772.29	
PBHL(CULBRERA#1H)											



Pathfinder

Pathfinder X & Y Planning Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Culebra "BLV" Federal
Well: #1H
Wellbore: OH
Design: Plan #5

Local Co-ordinate Reference: Well #1H
TVD Reference: Well1 @ 2970.50ft (26.5' KB ELEVATION)
MD Reference: Well1 @ 2970.50ft (26.5' KB ELEVATION)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
PBHL(CULBRERA#1)	0.00	0.00	6,180.00	-166.58	7,025.47	482,169.908	641,772.272	32° 19' 30.498 N	104° 0' 29.469 W
- plan hits target center									
- Point									

Checked By: _____ Approved By: _____ Date: _____