

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
NM OIL CONSERVATION
ARTESIA DISTRICTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMNM61358

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
WOLF AJA FEDERAL COM 18H9. API Well No.
30-015-39830-00-X110. Field and Pool, or Exploratory
LOST TANK11. County or Parish, and State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
YATES PETROLEUM CORPORATION
Contact: NAOMI G SAIZ
Mail: NSAIZ@YATESPETROLEUM.COM3a. Address
105 SOUTH FOURTH STREET
ARTESIA, NM 882103b. Phone No. (include area code)
Ph: 575-748-42114. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec-25 T21S R31E SENE 1950FNL 330FEL

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

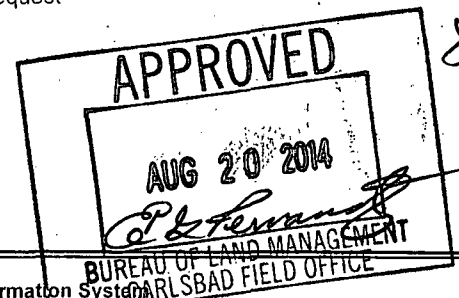
TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans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

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 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 to change our BHL to 1980' FSL and 230' FWL in 25-21S-31E. Attached is the new signed C-102 and directional plan. The bottom 100' will not be produced and will consist of our float shoe and collar. Our bottom perf will not go beyond the 330' hardline. We also request to remove the pilot hole from our drilling plan for this well. We request to cement the production casing in one stage as follows:

Lead: 1375sx LiteCrête (YLD 2.46, WT 9.7, 8.98 gal/sk)
Tail: 1885sx PVL (YLD 1.3, WT 13.5, 6.14 gal/sk)
TOC= 0'
Excess calculated at 35%

Approved as written; Original COA still applies with the exception of the removal of the pilot hole and the production casing will now be cemented in one single stage.

Accepted for record
NMOC D TES
8-25-14

Electronic Submission #257591 verified by the BLM Well Information System
For YATES PETROLEUM CORPORATION, sent to the Carlsbad
Committed to AFMSS for processing by ED FERNANDEZ on 08/20/2014 (14EF0091SE)

Name (Printed/Typed) NAOMI G SAIZ

Title WELL PLANNING TECH

Signature (Electronic Submission)

Date 08/19/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By EDWARD FERNANDEZ

Title PETROLEUM ENGINEER

Date 08/20/2014

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

Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-0101 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 740-1283 Fax: (505) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 478-3400 Fax: (505) 478-3402

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 15-39830	Pool Code 40299	Pool Name <i>Last Tank; Delaware</i>
Property Code 12900	Property Name WOLF AJA FEDERAL COM	Well Number 18H
OGRID No. 025575	Operator Name YATES PETROLEUM CORPORATION	Elevation 3664

Surface Location

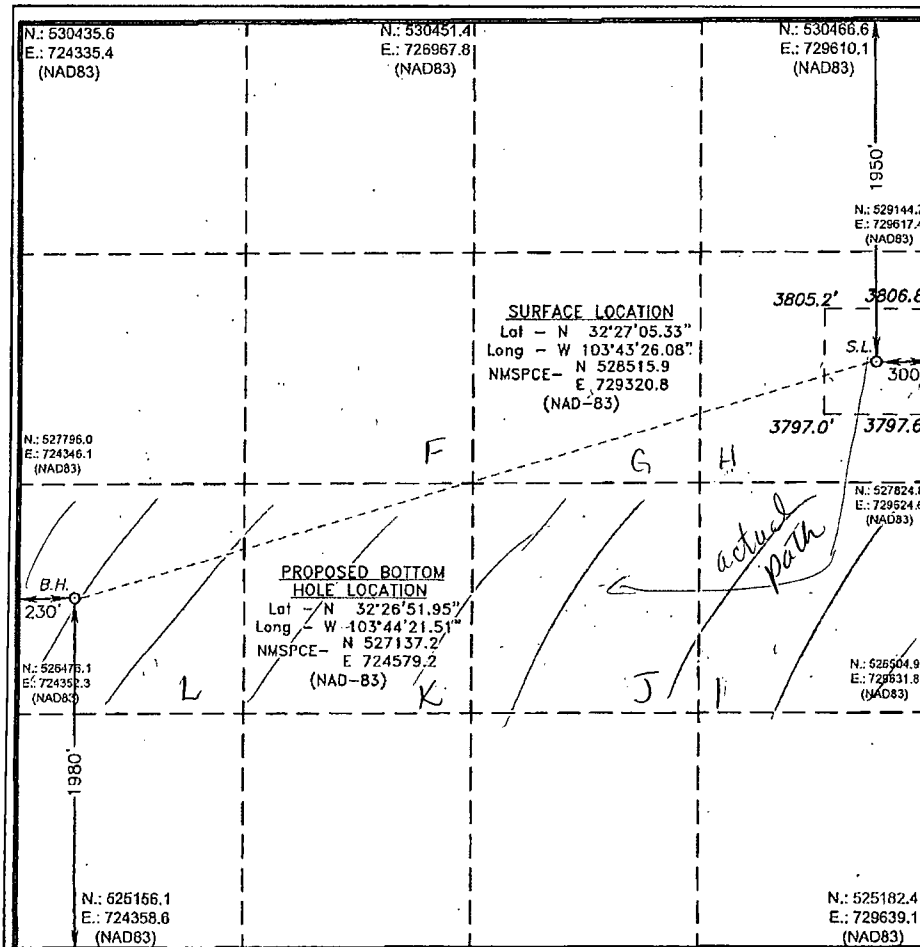
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	25	21 S	31 E		1950	NORTH	300	EAST	EDDY

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	25	21 S	31 E		1980	SOUTH	230	WEST	EDDY

Dedicated Acres	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



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.

Cy Cowan 7/17/14
Signature Date

Printed Name

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.

SEPTEMBER 25, 2013

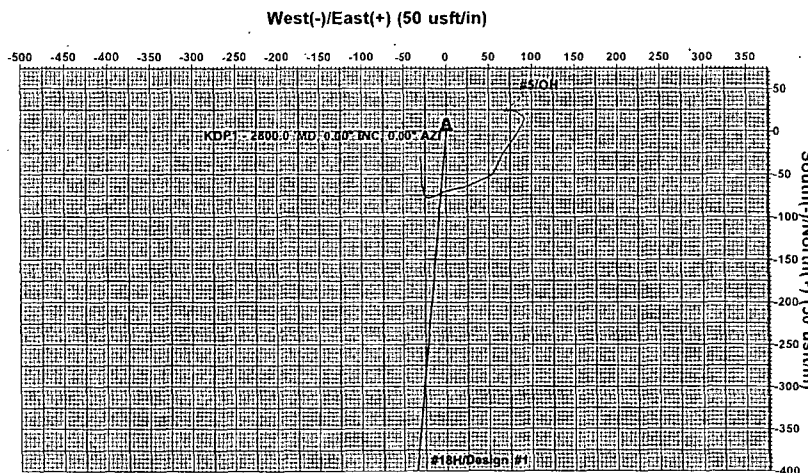
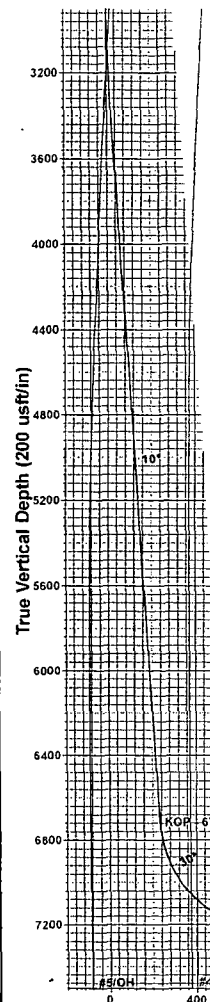
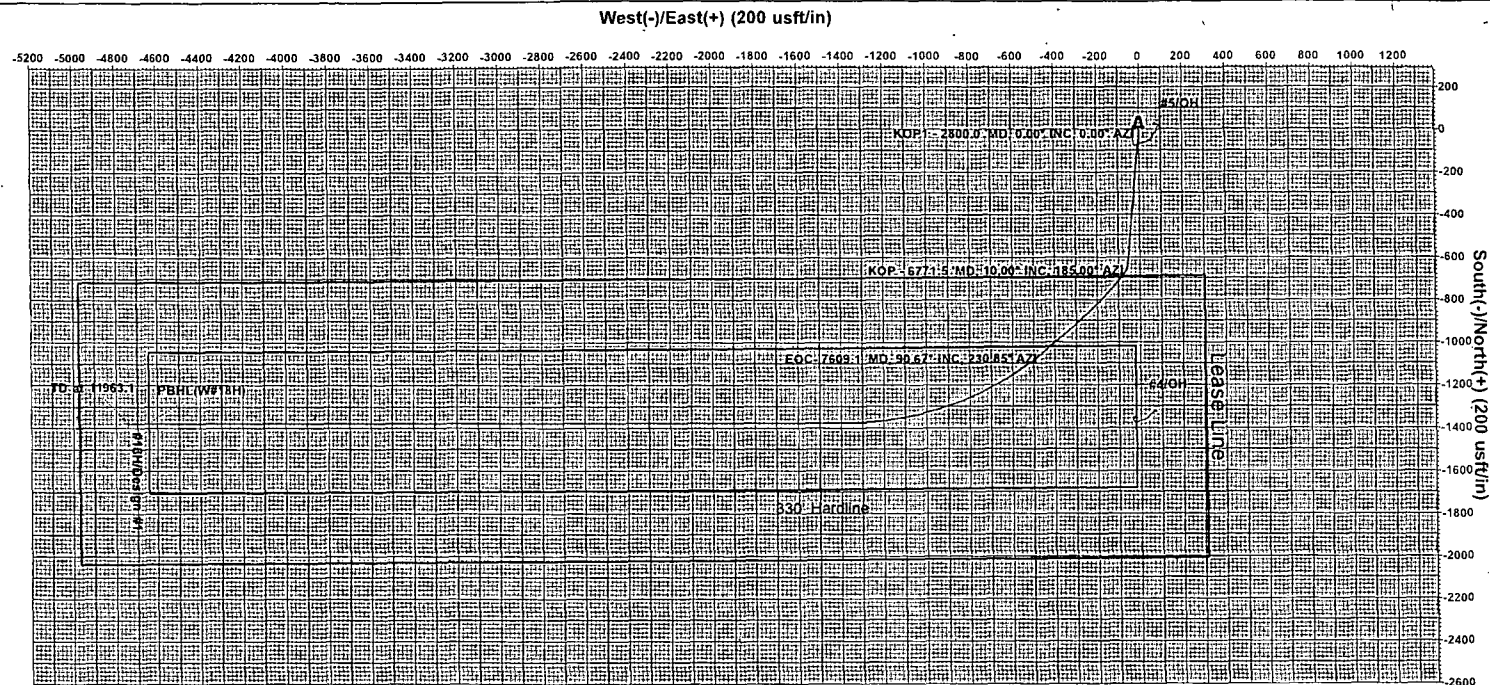
Date Surveyed
Signature & Seal of Professional Surveyor

Certificate No. 7977
Professional Surveyor

Scale: 1" = 1000'
WO Num.: 29457



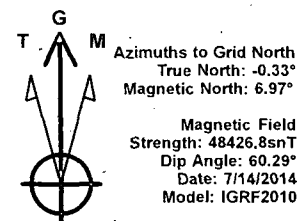
Project: Eddy County, NM(NAD83)
Site: Wolf AJA Federal Com
Well: #18H
Wellbore: OH
Plan: Design #1 (#18H/OH)



Ground Elevation:: 3664.0
RKB Elevation: WELL @ 3682.5usft (Original Well Elev)
Rig Name: Original Well Elev

Longitude	Northing	Easting	Latitude
528515.90	729320.80	32° 27' 5.328 N	103° 43' 26.083 W

Section Details									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	2800.0	0.00	0.00	2800.0	0.0	0.0	0.00	0.00	0.0
3	3300.0	10.00	185.00	3297.5	-43.4	-3.8	2.00	185.00	15.7
4	6771.5	10.00	185.00	6716.2	-643.9	-56.3	0.00	0.00	233.9
5	7609.1	90.67	230.85	7216.0	-1057.0	-462.4	10.00	46.20	739.1
6	8587.7	90.67	270.00	7204.1	-1378.5	-1366.5	4.00	89.77	1697.0
7	11863.1	90.67	270.00	7166.0	-1378.7	-4641.7	0.00	0.00	4842.0
8	11963.1	90.67	270.00	7164.8	-1378.7	-4741.7	0.00	0.00	4938.1



Vertical Section at 253.79° (200 usft/in)

Terra Directional Services LLC
322 Spring Hill Drive, Suite A300, Spring, Tx 77386
Phone: 432-425-7532

PROJECT DETAILS: Eddy County, NM(NAD83)
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



Yates Petroleum Corp.

Eddy County, NM(NAD83)

Wolf AJA Federal Com

#18H

OH

Plan: Design #1

Standard Planning Report

24 July, 2014



Planning Report

Database:	CompassEDM	Local Co-ordinate Reference:	Well #18H
Company:	Yates Petroleum Corp.	TVD Reference:	WELL @ 3682.5usft (Original Well Elev)
Project:	Eddy County NM(NAD83)	MD Reference:	WELL @ 3682.5usft (Original Well Elev)
Site:	Wolf AJA Federal Com	North Reference:	Grid
Well:	#18H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

Project: Eddy County, NM (NAD83)			
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site: Wolf AJA Federal Com					
Site Position:		Northing:	521,358.39 usft	Latitude:	32° 25' 54.743 N
From:	Map	Easting:	725,026.02 usft	Longitude:	103° 44' 16.670 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.32 °

Well:	#18H					
Well Position	+N/-S	7,157.5 usft	Northing:	528,515.90 usft	Latitude:	32° 27' 5.328 N
	+E/-W	4,294.8 usft	Easting:	729,320.80 usft	Longitude:	103° 43' 26.083 W
Position Uncertainty	0.0 usft		Wellhead Elevation:		Ground Level:	3,664.0 usft

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(G)	(G)	(nT)
	IGRF2010	7/14/2014	7.29	60.29	48,427

Design:		Design #1		
Audit Notes:				
Version:		Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(G)
	0.0	0.0	0.0	253.79

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,300.0	10.00	185.00	3,297.5	-43.4	-3.8	2.00	2.00	0.00	185.00	
6,771.5	10.00	185.00	6,716.2	-643.9	-56.3	0.00	0.00	0.00	0.00	
7,609.1	90.67	230.85	7,216.0	-1,057.0	-462.4	10.00	9.63	5.47	46.20	
8,587.7	90.67	270.00	7,204.1	-1,378.5	-1,366.5	4.00	0.00	4.00	89.77	
11,863.1	90.67	270.00	7,166.0	-1,378.7	-4,641.7	0.00	0.00	0.00	0.00	PBHL(W#18H)
11,963.1	90.67	270.00	7,164.8	-1,378.7	-4,741.7	0.00	0.00	0.00	0.00	



Planning Report

Database:	CompassEDM	Local/Co-ordinate Reference:	Well #18H
Company:	Yates Petroleum Corp.	TVD Reference:	WELL @ 3682.5usft (Original Well Elev)
Project:	Eddy County, NM (NAD83)	MD Reference:	WELL @ 3682.5usft (Original Well Elev)
Site:	Wolf/AJA Federal Corn	North Reference:	Grid
Well:	#18H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	N/S (usft)	E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP: 2800.0 MD: 0.00 INC: 0.00 AZI:									
2,900.0	2.00	185.00	2,900.0	-1.7	-0.2	0.6	2.00	2.00	0.00
3,000.0	4.00	185.00	2,999.8	-7.0	-0.6	2.5	2.00	2.00	0.00
3,100.0	6.00	185.00	3,099.5	-15.6	-1.4	5.7	2.00	2.00	0.00
3,200.0	8.00	185.00	3,198.7	-27.8	-2.4	10.1	2.00	2.00	0.00
3,300.0	10.00	185.00	3,297.5	-43.4	-3.8	15.7	2.00	2.00	0.00
3,400.0	10.00	185.00	3,395.9	-60.7	-5.3	22.0	0.00	0.00	0.00
3,500.0	10.00	185.00	3,494.4	-78.0	-6.8	28.3	0.00	0.00	0.00
3,600.0	10.00	185.00	3,592.9	-95.3	-8.3	34.6	0.00	0.00	0.00
3,700.0	10.00	185.00	3,691.4	-112.6	-9.8	40.9	0.00	0.00	0.00
3,800.0	10.00	185.00	3,789.9	-129.9	-11.4	47.2	0.00	0.00	0.00
3,900.0	10.00	185.00	3,888.3	-147.1	-12.9	53.4	0.00	0.00	0.00
4,000.0	10.00	185.00	3,986.8	-164.4	-14.4	59.7	0.00	0.00	0.00
4,100.0	10.00	185.00	4,085.3	-181.7	-15.9	66.0	0.00	0.00	0.00
4,200.0	10.00	185.00	4,183.8	-199.0	-17.4	72.3	0.00	0.00	0.00
4,300.0	10.00	185.00	4,282.3	-216.3	-18.9	78.6	0.00	0.00	0.00
4,400.0	10.00	185.00	4,380.8	-233.6	-20.4	84.9	0.00	0.00	0.00
4,500.0	10.00	185.00	4,479.2	-250.9	-22.0	91.1	0.00	0.00	0.00
4,600.0	10.00	185.00	4,577.7	-268.2	-23.5	97.4	0.00	0.00	0.00
4,700.0	10.00	185.00	4,676.2	-285.5	-25.0	103.7	0.00	0.00	0.00
4,800.0	10.00	185.00	4,774.7	-302.8	-26.5	110.0	0.00	0.00	0.00
4,900.0	10.00	185.00	4,873.2	-320.1	-28.0	116.3	0.00	0.00	0.00
5,000.0	10.00	185.00	4,971.6	-337.4	-29.5	122.6	0.00	0.00	0.00
5,100.0	10.00	185.00	5,070.1	-354.7	-31.0	128.8	0.00	0.00	0.00
5,200.0	10.00	185.00	5,168.6	-372.0	-32.5	135.1	0.00	0.00	0.00



Planning Report

Database:	CompassEDM	Local Co-ordinate Reference:	Well #18H
Company:	Yates Petroleum Corp.	TVD Reference:	WELL @ 3682.5usft (Original Well Elev)
Project:	Eddy County NM (NAD83)	MD Reference:	WELL @ 3682.5usft (Original Well Elev)
Site:	Wolf AJA Federal Com	North Reference:	Grid
Well:	#18H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,300.0	10.00	185.00	5,267.1	-389.3	-34.1	141.4	0.00	0.00	0.00	
5,400.0	10.00	185.00	5,365.6	-406.6	-35.6	147.7	0.00	0.00	0.00	
5,500.0	10.00	185.00	5,464.0	-423.9	-37.1	154.0	0.00	0.00	0.00	
5,600.0	10.00	185.00	5,562.5	-441.2	-38.6	160.3	0.00	0.00	0.00	
5,700.0	10.00	185.00	5,661.0	-458.5	-40.1	166.5	0.00	0.00	0.00	
5,800.0	10.00	185.00	5,759.5	-475.8	-41.6	172.8	0.00	0.00	0.00	
5,900.0	10.00	185.00	5,858.0	-493.1	-43.1	179.1	0.00	0.00	0.00	
6,000.0	10.00	185.00	5,956.4	-510.4	-44.7	185.4	0.00	0.00	0.00	
6,100.0	10.00	185.00	6,054.9	-527.7	-46.2	191.7	0.00	0.00	0.00	
6,200.0	10.00	185.00	6,153.4	-545.0	-47.7	198.0	0.00	0.00	0.00	
6,300.0	10.00	185.00	6,251.9	-562.3	-49.2	204.2	0.00	0.00	0.00	
6,400.0	10.00	185.00	6,350.4	-579.6	-50.7	210.5	0.00	0.00	0.00	
6,500.0	10.00	185.00	6,448.9	-596.9	-52.2	216.8	0.00	0.00	0.00	
6,600.0	10.00	185.00	6,547.3	-614.2	-53.7	223.1	0.00	0.00	0.00	
6,700.0	10.00	185.00	6,645.8	-631.5	-55.3	229.4	0.00	0.00	0.00	
6,771.5	10.00	185.00	6,716.2	-643.9	-56.3	233.9	0.00	0.00	0.00	
KOP: 6771.5 MD: 10.00 INC: 185.00 AZI: 185										
6,800.0	12.15	194.82	6,744.2	-649.2	-57.3	236.3	10.00	7.53	34.45	
6,850.0	16.43	205.39	6,792.6	-660.7	-61.7	243.7	10.00	8.56	21.15	
6,900.0	21.02	211.57	6,840.0	-674.8	-69.4	255.1	10.00	9.19	12.36	
6,950.0	25.76	215.59	6,885.9	-691.2	-80.5	270.2	10.00	9.48	8.03	
7,000.0	30.58	218.42	6,929.9	-710.1	-94.7	289.2	10.00	9.63	5.66	
7,050.0	35.44	220.54	6,971.9	-731.1	-112.0	311.7	10.00	9.73	4.24	
7,100.0	40.33	222.21	7,011.3	-754.1	-132.3	337.6	10.00	9.78	3.33	
7,150.0	45.24	223.57	7,048.0	-778.9	-155.4	366.7	10.00	9.82	2.72	
7,200.0	50.17	224.72	7,081.6	-805.5	-181.2	398.9	10.00	9.85	2.29	
7,250.0	55.10	225.71	7,112.0	-833.4	-209.4	433.8	10.00	9.87	1.99	
7,300.0	60.05	226.59	7,138.8	-862.7	-239.8	471.2	10.00	9.88	1.76	
7,350.0	64.99	227.39	7,161.8	-892.9	-272.3	510.7	10.00	9.89	1.59	
7,400.0	69.94	228.12	7,181.0	-923.9	-306.5	552.2	10.00	9.90	1.47	
7,450.0	74.90	228.81	7,196.1	-955.5	-342.1	595.3	10.00	9.91	1.38	
7,500.0	79.86	229.47	7,207.0	-987.4	-379.0	639.6	10.00	9.91	1.32	
7,550.0	84.81	230.11	7,213.7	-1,019.4	-416.8	684.9	10.00	9.92	1.28	
7,600.0	89.77	230.74	7,216.0	-1,051.2	-455.3	730.7	10.00	9.92	1.26	
7,609.1	90.67	230.85	7,216.0	-1,057.0	-462.4	739.1	9.93	9.85	1.24	
EOC: 7609.1 MD: 90.67 INC: 230.85 AZI: EOC										
7,700.0	90.68	234.49	7,214.9	-1,112.1	-534.6	823.9	4.00	0.01	4.00	
7,800.0	90.70	238.49	7,213.7	-1,167.3	-618.0	919.3	4.00	0.01	4.00	
7,900.0	90.70	242.49	7,212.5	-1,216.5	-705.0	1,016.6	4.00	0.01	4.00	
8,000.0	90.71	246.49	7,211.3	-1,259.6	-795.2	1,115.3	4.00	0.00	4.00	
8,100.0	90.71	250.49	7,210.0	-1,296.2	-888.2	1,214.8	4.00	0.00	4.00	
8,200.0	90.71	254.49	7,208.8	-1,326.3	-983.6	1,314.8	4.00	0.00	4.00	
8,300.0	90.70	258.49	7,207.6	-1,349.7	-1,080.8	1,414.6	4.00	-0.01	4.00	
8,400.0	90.69	262.49	7,206.3	-1,366.2	-1,179.4	1,513.9	4.00	-0.01	4.00	
8,500.0	90.68	266.49	7,205.1	-1,375.8	-1,278.9	1,612.2	4.00	-0.01	4.00	
8,587.7	90.67	270.00	7,204.1	-1,378.5	-1,366.5	1,697.0	4.00	-0.02	4.00	
8,600.0	90.67	270.00	7,204.0	-1,378.5	-1,378.8	1,708.9	0.00	0.00	0.00	
8,700.0	90.67	270.00	7,202.8	-1,378.5	-1,478.8	1,804.9	0.00	0.00	0.00	
8,800.0	90.67	270.00	7,201.6	-1,378.5	-1,578.8	1,900.9	0.00	0.00	0.00	
8,900.0	90.67	270.00	7,200.5	-1,378.5	-1,678.8	1,996.9	0.00	0.00	0.00	
9,000.0	90.67	270.00	7,199.3	-1,378.5	-1,778.8	2,092.9	0.00	0.00	0.00	
9,100.0	90.67	270.00	7,198.2	-1,378.5	-1,878.8	2,189.0	0.00	0.00	0.00	
9,200.0	90.67	270.00	7,197.0	-1,378.5	-1,978.8	2,285.0	0.00	0.00	0.00	
9,300.0	90.67	270.00	7,195.8	-1,378.5	-2,078.8	2,381.0	0.00	0.00	0.00	



Planning Report

Database:	CompassEDM	Local Co-ordinate Reference:	Well #18H
Company:	Yates Petroleum Corp.	TVD Reference:	WELL @ 3682.5usft (Original Well Elev)
Project:	Eddy County, NM (NAD83)	MD Reference:	WELL @ 3682.5usft (Original Well Elev)
Site:	Wolf AJA Federal Com	North Reference:	Grid
Well:	#18H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	N/S (usft)	E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,400.0	90.67	270.00	7,194.7	-1,378.5	-2,178.8	2,477.0	0.00	0.00	0.00
9,500.0	90.67	270.00	7,193.5	-1,378.5	-2,278.8	2,573.0	0.00	0.00	0.00
9,600.0	90.67	270.00	7,192.3	-1,378.6	-2,378.8	2,669.1	0.00	0.00	0.00
9,700.0	90.67	270.00	7,191.2	-1,378.6	-2,478.8	2,765.1	0.00	0.00	0.00
9,800.0	90.67	270.00	7,190.0	-1,378.6	-2,578.7	2,861.1	0.00	0.00	0.00
9,900.0	90.67	270.00	7,188.8	-1,378.6	-2,678.7	2,957.1	0.00	0.00	0.00
10,000.0	90.67	270.00	7,187.7	-1,378.6	-2,778.7	3,053.1	0.00	0.00	0.00
10,100.0	90.67	270.00	7,186.5	-1,378.6	-2,878.7	3,149.1	0.00	0.00	0.00
10,200.0	90.67	270.00	7,185.4	-1,378.6	-2,978.7	3,245.2	0.00	0.00	0.00
10,300.0	90.67	270.00	7,184.2	-1,378.6	-3,078.7	3,341.2	0.00	0.00	0.00
10,400.0	90.67	270.00	7,183.0	-1,378.6	-3,178.7	3,437.2	0.00	0.00	0.00
10,500.0	90.67	270.00	7,181.9	-1,378.6	-3,278.7	3,533.2	0.00	0.00	0.00
10,600.0	90.67	270.00	7,180.7	-1,378.6	-3,378.7	3,629.2	0.00	0.00	0.00
10,700.0	90.67	270.00	7,179.5	-1,378.6	-3,478.7	3,725.3	0.00	0.00	0.00
10,800.0	90.67	270.00	7,178.4	-1,378.6	-3,578.7	3,821.3	0.00	0.00	0.00
10,900.0	90.67	270.00	7,177.2	-1,378.6	-3,678.7	3,917.3	0.00	0.00	0.00
11,000.0	90.67	270.00	7,176.0	-1,378.6	-3,778.7	4,013.3	0.00	0.00	0.00
11,100.0	90.67	270.00	7,174.9	-1,378.7	-3,878.7	4,109.3	0.00	0.00	0.00
11,200.0	90.67	270.00	7,173.7	-1,378.7	-3,978.6	4,205.4	0.00	0.00	0.00
11,300.0	90.67	270.00	7,172.6	-1,378.7	-4,078.6	4,301.4	0.00	0.00	0.00
11,400.0	90.67	270.00	7,171.4	-1,378.7	-4,178.6	4,397.4	0.00	0.00	0.00
11,500.0	90.67	270.00	7,170.2	-1,378.7	-4,278.6	4,493.4	0.00	0.00	0.00
11,600.0	90.67	270.00	7,169.1	-1,378.7	-4,378.6	4,589.4	0.00	0.00	0.00
11,700.0	90.67	270.00	7,167.9	-1,378.7	-4,478.6	4,685.4	0.00	0.00	0.00
11,800.0	90.67	270.00	7,166.7	-1,378.7	-4,578.6	4,781.5	0.00	0.00	0.00
11,863.1	90.67	270.00	7,166.0	-1,378.7	-4,641.7	4,842.0	0.00	0.00	0.00
PBHL(W#18H)									
11,900.0	90.67	270.00	7,165.6	-1,378.7	-4,678.6	4,877.5	0.00	0.00	0.00
11,963.0	90.67	270.00	7,164.8	-1,378.7	-4,741.6	4,938.0	0.00	0.00	0.00
TD									
11,963.1	90.67	270.00	7,164.8	-1,378.7	-4,741.7	4,938.0	0.00	0.00	0.00
TD at 11963.1									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TD	0.00	0.00	7,164.8	-1,378.7	-4,741.6	527,137.20	724,579.20	32° 26' 51.950 N	103° 44' 21.508 W
- plan hits target center									
- Point									
PBHL(W#18H)	0.00	0.00	7,166.0	-1,378.7	-4,641.7	527,137.20	724,679.10	32° 26' 51.945 N	103° 44' 20.343 W
- plan hits target center									
- Point									



Planning Report

Database:	CompassEDM	Local Co-ordinate Reference:	Well #18H
Company:	Yates Petroleum Corp	TVD Reference:	WELL @ 3682.5usft (Original Well Elev)
Project:	Eddy County NM(NAD83)	MD Reference:	WELL @ 3682.5usft (Original Well Elev)
Site:	Wolf/AJA Federal Com	North Reference:	Grid
Well:	#18H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		N-S (usft)	E-W (usft)	
2,800.0	2,800.0	0.0	0.0	KOP1 - 2800.0 'MD, 0.00° INC, 0.00° AZI
6,771.5	6,716.2	-643.9	-56.3	KOP - 6771.5 'MD, 10.00° INC, 185.00° AZI
7,609.1	7,216.0	-1,057.0	-462.4	EOC- 7609.1 'MD, 90.67° INC, 230.85° AZI
11,963.1	7,164.8	-1,378.7	-4,741.7	TD at 11963.1