

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM89049
2. Name of Operator YATES PETROLEUM CORPORATION Contact: NAOMI G SAIZ E-Mail: NSAIZ@YATESPETROLEUM.COM		6. If Indian, Allottee or Tribe Name
3a. Address 105 SOUTH FOURTH STREET ARTESIA, NM 88210	3b. Phone No. (include area code) Ph: 575-748-4211	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 31 T19S R30E SWSW Lot E 1750FNL 330FWL		8. Well Name and No. NUCLEUS BGN FEDERAL 1H
		9. API Well No. 30-015-39241-00-X1
		10. Field and Pool, or Exploratory WILDCAT
		11. County or Parish, and State EDDY COUNTY, NM

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

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

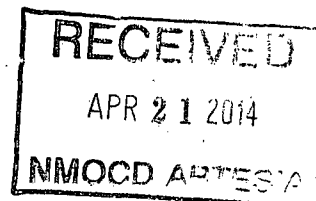
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Yates Petroleum Corporation respectfully requests to make the following changes to our approved APD as per the attached paperwork.

(BHL)

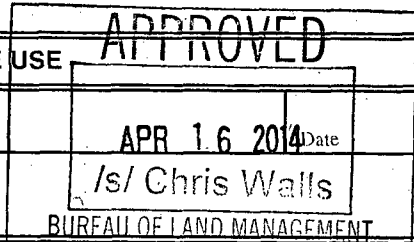
Accepted for record

NMOCD 10/4/2014



SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct. Electronic Submission #241235 verified by the BLM Well Information System For YATES PETROLEUM CORPORATION, sent to the Carlsbad Committed to AFMSS for processing by CHRISTOPHER WALLS on 04/10/2014 (14CRW0224SE)	
Name (Printed/Typed) NAOMI G SAIZ	Title WELL PLANNING TECH
Signature (Electronic Submission)	Date 04/04/2014
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
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
Phone: (505) 393-6101 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1289 Fax: (505) 748-0720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone: (505) 394-0170 Fax: (505) 334-0170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87605
Phone: (505) 476-3480 Fax: (505) 476-3408

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-39241	Pool Code 49622	Pool Name Parkway, Bone Springs
Property Code 38725	Property Name NUCLEUS BGN FEDERAL COM	Well Number 1H
OGRID No. 025575	Operator Name YATES PETROLEUM CORP.	Elevation 3333'

Surface Location

UL or 1st No.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
E	31	19 S	30 E	2	1750	NORTH	330	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or 1st No.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
H	31	19 S	30 E		1750	NORTH	230	EAST	EDDY

Dedicated Acres 159.28	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

N: 580949.9 E: 637860.6 NAD 83 N: 590955.1 E: 640475.9 NAD 83 N: 580961.8 E: 643115.6 NAD 83 N: 588312.8 E: 637885.8 NAD 83 N: 588321.1 E: 643121.9 NAD 83 N: 585672.7 E: 637870.8 NAD 83	Project Area Producing Zone SURFACE LOCATION Lat - N 32°17'09.733" Long - W 104°01'07.494" NMSPC - N 589200.99 E 638194.06 (NAD-83) PROPOSED BOTTOM HOLE LOCATION Lat - N 32°37'09.69" Long - W 104°00'12.59" NMSPC - N 589211.2 E 642889.8 (NAD-83)	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. <u>E. Hahn</u> 4/14/14 Signature Date <u>Travis Hahn</u> Printed Name <u>thahn@yatespetroleum.com</u> 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. FEBRUARY 20 2014 Date Surveyed Professional Surveyor Certificate No. 7977 W.O. No. 23550 SCALE: 1" = 1000' W.O. Num. 23550
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Nucleus BGN Federal Com #1H

Yates Petroleum Corporation respectfully requests to make the following changes to our approved APD as follows:

2nd Intermediate Cementing Design:

We request permission to change our 2nd intermediate cement design to include a DV/Packer stage tool as shown below to help ensure that we get cement to surface.

2nd Intermediate: Drilled with a 12 ¼" hole to 3500' with a DV/Packer stage tool at approx. 1700'-2200'. Our 9 5/8" casing will be either J-55 or K-55. Cement volumes will be adjusted per tool placement.

Stage I: Lead w/300sx 35/65 PozC (YLD 2 WT 12.5, 11 gal/sk) tail w/210sx 50/50 PozC (YLD 1.34 WT 13, 6.2 gal/sk) 100% excess TOC approx. 2100'

Stage II: Lead w/515sx 35/65 PozC (YLD 2 WT 12.5, 11 gal/sk) tail w/210sx 50/50 PozC (YLD 1.34 WT 14.2, 6.2 gal/sk) 100% excess TOC=0'

We request permission to change our BHL to 1750' FNL and 230' FEL, 31-19S-30E, Unit H to avoid an offset well. Our target formation will remain the same. The bottom 100' will not be produced because it will consist of our float shoe & collar. The bottom perf will not be beyond the 330' hardline.

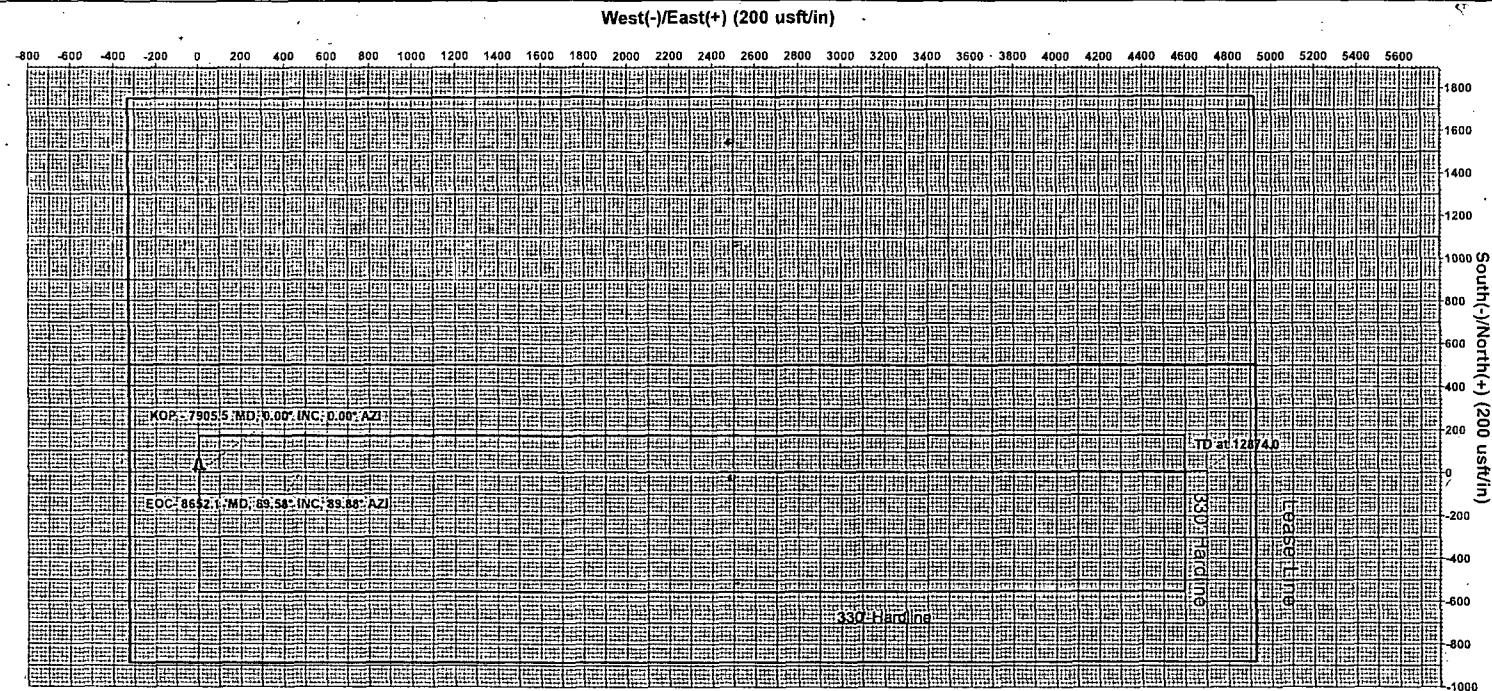
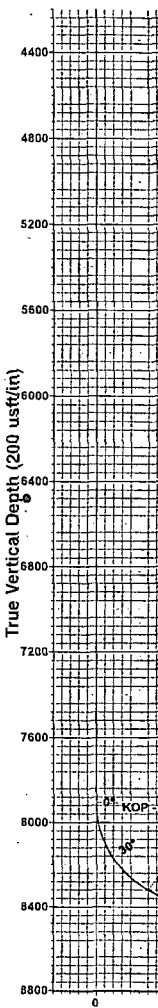
Attached is the new signed C-102 and the new WM and directional plan.

Well will be drilled to 7095' and kicked off at approx. 7095' and directionally drilled at 12 degrees per 100' with a 8 3/4" hole to 8652' MD (8383' TVD). Hole size will then be reduced to 8 1/2" and drilled to 12874' MD (8414' TVD) where 5 1/2" casing will be set and cemented. Production casing will be as shown below:

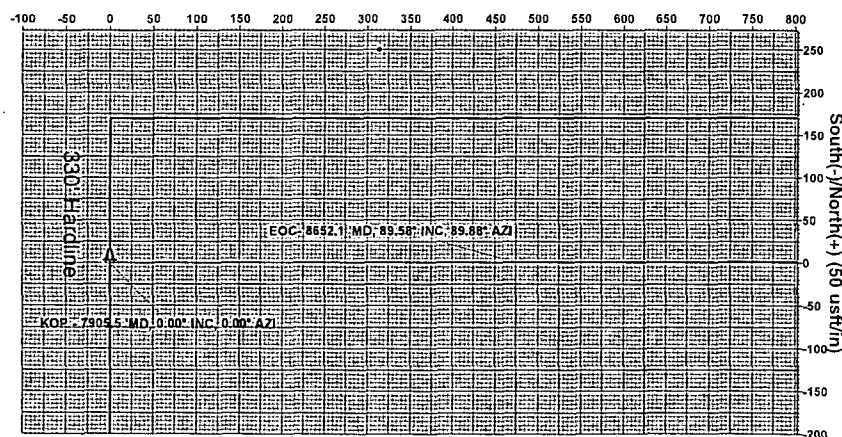
0 ft to 12,874 ft		Make up Torque ft-lbs		Total ft = 12,874
O.D.	Weight	Grade	Threads opt.	min. mx.
5.5 inches	17 #/ft	P-110	BT&C	
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift
7,480 psi	10,640 psi	568,000 #	546,000 #	4.767

Yates Petroleum Corp.

Project: Eddy County, NM(NAD83)
Site: Nucleus BGN Federal Com
Well: #1H
Wellbore: OH
Plan: Plan #2 (#1H/OH)



West(-)/East(+) (50 usft/in)



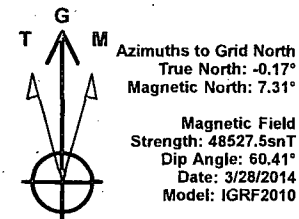
Vertical Section at 89.88° (200 usft/in)

#1H
Ground Elevation: 3333.0
RKB Elevation: Well2 @ 3353.0usft
Rig Name:

Longitude 589200.99 Northing 638194.06 Easting 638194.06 Latitude 32° 37' 9.732 N 104° 1' 7.494 W

Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	7905.5	0.00	0.00	7905.5	0.0	0.0	0.00	0.00	0.0
3	8652.1	89.58	89.88	8383.0	1.0	474.0	12.00	89.88	474.0
4	12773.9	89.58	89.88	8413.2	9.6	4595.7	0.00	0.00	4595.8 PBHL(NBGN#1)
5	12874.0	89.58	89.88	8413.9	9.8	4695.8	0.00	0.00	4695.8



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)

Nucleus BGN Federal Com

#1H

OH

Plan: Plan #2

Standard Planning Report

01 April, 2014

Wellplanning Planning Report

Database:	EDM:5000.1 Single User Db	Local Co-ordinate Reference:	Well#1H
Company:	Yates Petroleum Corp.	TVD Reference:	Well2 @ 3353.0usft
Project:	Eddy County, NM(NAD83)	MD Reference:	Well2 @ 3353.0usft
Site:	Nucleus-BGN-Federal Com	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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:	Nucleus-BGN-Federal Com		
Site Position:		Northing:	589,200.99 usft
From:	Map	Easting:	638,194.06 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 37' 9.732 N
		Longitude:	104° 1' 7.494 W
		Grid Convergence:	0.17 °

Well:	#1H					
Well Position	+N/-S	0.0 usft	Northing:	589,200.99 usft	Latitude:	32° 37' 9.732 N
	+E/-W	0.0 usft	Easting:	638,194.06 usft	Longitude:	104° 1' 7.494 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	3,333.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	3/28/2014	7.48	60.41	48,527

Design: Plan #2				
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	89.88

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,905.5	0.00	0.00	7,905.5	0.0	0.0	0.00	0.00	0.00	0.00	
8,652.1	89.58	89.88	8,383.0	1.0	474.0	12.00	12.00	0.00	89.88	
12,773.9	89.58	89.88	8,413.2	9.6	4,595.7	0.00	0.00	0.00	0.00	PBHL(NBGN#1)
12,874.0	89.58	89.88	8,413.9	9.8	4,695.8	0.00	0.00	0.00	0.00	

Wellplanning Planning Report

Database:	EDM/5000.1 Single User Db	Local Co-ordinate Reference:	Well #1H
Company:	Yates Petroleum Corp.	TVD Reference:	Well2 @ 3353.0usft
Project:	Eddy County, NM(NAD83)	MD Reference:	Well2 @ 3353.0usft
Site:	Nucleus(BGN,Federal Com.	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00	

Wellplanning Planning Report

Database	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #1H
Company	Yates Petroleum Corp.	TVD Reference:	Well2 @ 3353.0usft
Project	Eddy County, NM (NAD83)	MD Reference:	Well2 @ 3353.0usft
Site	Nucleus BGN Federal Com	North Reference:	Grid
Well	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore	OH		
Design	Plan #2		

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)	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,905.5	0.00	0.00	7,905.5	0.0	0.0	0.0	0.00	0.00	0.00	
KOP: 7905.5 MD: 0.00° INC: 0.00° AZI:										
7,925.0	2.34	89.88	7,925.0	0.0	0.4	0.4	12.00	12.00	0.00	
7,950.0	5.34	89.88	7,949.9	0.0	2.1	2.1	12.00	12.00	0.00	
7,975.0	8.34	89.88	7,974.8	0.0	5.0	5.0	12.00	12.00	0.00	
8,000.0	11.34	89.88	7,999.4	0.0	9.3	9.3	12.00	12.00	0.00	
8,025.0	14.34	89.88	8,023.8	0.0	14.9	14.9	12.00	12.00	0.00	
8,050.0	17.34	89.88	8,047.8	0.0	21.7	21.7	12.00	12.00	0.00	
8,075.0	20.34	89.88	8,071.5	0.1	29.8	29.8	12.00	12.00	0.00	
8,100.0	23.34	89.88	8,094.7	0.1	39.1	39.1	12.00	12.00	0.00	
8,125.0	26.34	89.88	8,117.4	0.1	49.6	49.6	12.00	12.00	0.00	
8,150.0	29.34	89.88	8,139.5	0.1	61.2	61.2	12.00	12.00	0.00	
8,175.0	32.34	89.88	8,160.9	0.2	74.1	74.1	12.00	12.00	0.00	
8,200.0	35.34	89.88	8,181.7	0.2	88.0	88.0	12.00	12.00	0.00	
8,225.0	38.34	89.88	8,201.7	0.2	103.0	103.0	12.00	12.00	0.00	
8,250.0	41.34	89.88	8,220.9	0.2	119.0	119.0	12.00	12.00	0.00	
8,275.0	44.34	89.88	8,239.2	0.3	136.0	136.0	12.00	12.00	0.00	
8,300.0	47.34	89.88	8,256.6	0.3	153.9	153.9	12.00	12.00	0.00	
8,325.0	50.33	89.88	8,273.1	0.4	172.7	172.7	12.00	12.00	0.00	
8,350.0	53.33	89.88	8,288.5	0.4	192.4	192.4	12.00	12.00	0.00	
8,375.0	56.33	89.88	8,302.9	0.4	212.8	212.8	12.00	12.00	0.00	
8,400.0	59.33	89.88	8,316.2	0.5	234.0	234.0	12.00	12.00	0.00	
8,425.0	62.33	89.88	8,328.4	0.5	255.8	255.8	12.00	12.00	0.00	
8,450.0	65.33	89.88	8,339.4	0.6	278.2	278.2	12.00	12.00	0.00	
8,475.0	68.33	89.88	8,349.3	0.6	301.2	301.2	12.00	12.00	0.00	
8,500.0	71.33	89.88	8,357.9	0.7	324.7	324.7	12.00	12.00	0.00	
8,525.0	74.33	89.88	8,365.3	0.7	348.6	348.6	12.00	12.00	0.00	
8,550.0	77.33	89.88	8,371.4	0.8	372.8	372.8	12.00	12.00	0.00	

Wellplanning Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well: #1H
Company:	Yates Petroleum Corp.	TVD Reference:	Well2 @ 3353.0usft
Project:	Eddy County, NM(NAD83)	MD Reference:	Well2 @ 3353.0usft
Site:	Nucleus BGN Federal Com	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)	
8,575.0	80.33	89.88	8,376.2	0.8	397.3	397.3	12.00	12.00	0.00	
8,600.0	83.33	89.88	8,379.8	0.9	422.1	422.1	12.00	12.00	0.00	
8,625.0	86.33	89.88	8,382.0	0.9	447.0	447.0	12.00	12.00	0.00	
8,652.1	89.58	89.88	8,383.0	1.0	474.0	474.0	12.00	12.00	0.00	
EOC 8652.1 MD, 89.58° INC, 89.88° AZI										
8,700.0	89.58	89.88	8,383.4	1.1	521.9	521.9	0.00	0.00	0.00	
8,800.0	89.58	89.88	8,384.1	1.3	621.9	621.9	0.00	0.00	0.00	
8,900.0	89.58	89.88	8,384.8	1.5	721.9	721.9	0.00	0.00	0.00	
9,000.0	89.58	89.88	8,385.6	1.7	821.9	821.9	0.00	0.00	0.00	
9,100.0	89.58	89.88	8,386.3	1.9	921.9	921.9	0.00	0.00	0.00	
9,200.0	89.58	89.88	8,387.0	2.1	1,021.9	1,021.9	0.00	0.00	0.00	
9,300.0	89.58	89.88	8,387.7	2.3	1,121.9	1,121.9	0.00	0.00	0.00	
9,400.0	89.58	89.88	8,388.5	2.6	1,221.9	1,221.9	0.00	0.00	0.00	
9,500.0	89.58	89.88	8,389.2	2.8	1,321.9	1,321.9	0.00	0.00	0.00	
9,600.0	89.58	89.88	8,389.9	3.0	1,421.9	1,421.9	0.00	0.00	0.00	
9,700.0	89.58	89.88	8,390.7	3.2	1,521.9	1,521.9	0.00	0.00	0.00	
9,800.0	89.58	89.88	8,391.4	3.4	1,621.9	1,621.9	0.00	0.00	0.00	
9,900.0	89.58	89.88	8,392.1	3.6	1,721.9	1,721.9	0.00	0.00	0.00	
10,000.0	89.58	89.88	8,392.9	3.8	1,821.9	1,821.9	0.00	0.00	0.00	
10,100.0	89.58	89.88	8,393.6	4.0	1,921.9	1,921.9	0.00	0.00	0.00	
10,200.0	89.58	89.88	8,394.3	4.2	2,021.9	2,021.9	0.00	0.00	0.00	
10,300.0	89.58	89.88	8,395.1	4.4	2,121.9	2,121.9	0.00	0.00	0.00	
10,400.0	89.58	89.88	8,395.8	4.7	2,221.9	2,221.9	0.00	0.00	0.00	
10,500.0	89.58	89.88	8,396.5	4.9	2,321.9	2,321.9	0.00	0.00	0.00	
10,600.0	89.58	89.88	8,397.3	5.1	2,421.9	2,421.9	0.00	0.00	0.00	
10,700.0	89.58	89.88	8,398.0	5.3	2,521.9	2,521.9	0.00	0.00	0.00	
10,800.0	89.58	89.88	8,398.7	5.5	2,621.9	2,621.9	0.00	0.00	0.00	
10,900.0	89.58	89.88	8,399.5	5.7	2,721.9	2,721.9	0.00	0.00	0.00	
11,000.0	89.58	89.88	8,400.2	5.9	2,821.9	2,821.9	0.00	0.00	0.00	
11,100.0	89.58	89.88	8,400.9	6.1	2,921.9	2,921.9	0.00	0.00	0.00	
11,200.0	89.58	89.88	8,401.7	6.3	3,021.9	3,021.9	0.00	0.00	0.00	
11,300.0	89.58	89.88	8,402.4	6.5	3,121.9	3,121.9	0.00	0.00	0.00	
11,400.0	89.58	89.88	8,403.1	6.7	3,221.9	3,221.9	0.00	0.00	0.00	
11,500.0	89.58	89.88	8,403.9	7.0	3,321.9	3,321.9	0.00	0.00	0.00	
11,600.0	89.58	89.88	8,404.6	7.2	3,421.9	3,421.9	0.00	0.00	0.00	
11,700.0	89.58	89.88	8,405.3	7.4	3,521.8	3,521.9	0.00	0.00	0.00	
11,800.0	89.58	89.88	8,406.1	7.6	3,621.8	3,621.9	0.00	0.00	0.00	
11,900.0	89.58	89.88	8,406.8	7.8	3,721.8	3,721.9	0.00	0.00	0.00	
12,000.0	89.58	89.88	8,407.5	8.0	3,821.8	3,821.8	0.00	0.00	0.00	
12,100.0	89.58	89.88	8,408.3	8.2	3,921.8	3,921.8	0.00	0.00	0.00	
12,200.0	89.58	89.88	8,409.0	8.4	4,021.8	4,021.8	0.00	0.00	0.00	
12,300.0	89.58	89.88	8,409.7	8.6	4,121.8	4,121.8	0.00	0.00	0.00	
12,400.0	89.58	89.88	8,410.5	8.8	4,221.8	4,221.8	0.00	0.00	0.00	
12,500.0	89.58	89.88	8,411.2	9.1	4,321.8	4,321.8	0.00	0.00	0.00	
12,600.0	89.58	89.88	8,411.9	9.3	4,421.8	4,421.8	0.00	0.00	0.00	
12,700.0	89.58	89.88	8,412.7	9.5	4,521.8	4,521.8	0.00	0.00	0.00	
12,773.9	89.58	89.88	8,413.2	9.6	4,595.7	4,595.7	0.00	0.00	0.00	
PBHL(NBGN#1)										
12,800.0	89.58	89.88	8,413.4	9.7	4,621.8	4,621.8	0.00	0.00	0.00	
12,874.0	89.58	89.88	8,413.9	9.8	4,695.8	4,695.8	0.00	0.00	0.00	
TD at 12874.0										

Wellplanning Planning Report

Database:	EDM:5000.1 Single User Db	Local Co-ordinate Reference:	Well #1H
Company:	Yates Petroleum Corp.	TVD Reference:	Well2 @ 3353.0usft
Project:	Eddy County, NM(NAD83)	MD Reference:	Well2 @ 3353.0usft
Site:	Nucleus BGN/Federal Com	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Design Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
									Latitude Longitude
PBHL(NBGN#1)		0.00	0.00	8,413.0	9.9	4,595.7	589,210.90	642,789.80	32° 37' 9.693 N 104° 0' 13.758 W
- plan misses target center by 0.4usft at 12773.9usft MD (8413.2 TVD, 9.6 N, 4595.7 E)									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
7,905.5	7,905.5	0.0	0.0	KOP - 7905.5 'MD, 0.00° INC, 0.00° AZI
8,652.1	8,383.0	1.0	474.0	EOC- 8652.1 'MD, 89.58° INC, 89.88° AZI
12,874.0	8,413.9	9.6	4,595.7	TD at 12874.0

Conditions of Approval

DV tool at 1700-2200'

1. The minimum required fill of cement behind the 9-5/8 inch 2nd intermediate casing is:

a. First stage to DV tool:

- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

b. Second stage above DV tool:

- ☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office.