

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

600 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. NMNM57274
2. Name of Operator YATES PETROLEUM CORPORATION		6. If Indian, Allottee or Tribe Name
Contact: NAOMI G SAIZ Mail: NSAIZ@YATESPETROLEUM.COM		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 105 SOUTH FOURTH STREET ARTESIA, NM 88210	3b. Phone No. (include area code) Ph: 575-748-4211	8. Well Name and No. HARACZ AMO FEDERAL 10H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 24 T24S R31E NENE 200FNL 660FEL		9. API Well No. 30-015-40963-00-X1
		10. Field and Pool, or Exploratory UNDESIGNATED <i>Cotton Draw, B.S., GAS</i>
		11. County or Parish, and State EDDY COUNTY, NM

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

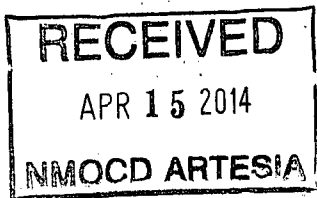
TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ 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 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 make the following changes to our approved APD as per attached paperwork.

Accepted for record

NMOC

TCS
4-15-2014SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #241146 verified by the BLM Well Information System For YATES PETROLEUM CORPORATION, sent to the Carlsbad Committed to AFMSS for processing by CHRISTOPHER WALLS on 04/04/2014 (14CRW0219SE)	
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	APPROVED APR 4 2014 Is/ Chris Walls BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE
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 any statement or representation 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 ****

Haracz AMO Federal #10H

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

~~We would like to request the use of a flex hose between the choke manifold and the wellhead. The certification and specs are attached.~~

Contingency Intermediate Cement Design:

We would like to request that the cement design approved in APD be our primary cement design and what follows will be if hole conditions warrant:

DV/Packer Stage tool will be placed at approx. 2500'-3000' (cement volumes will be adjusted per tool placement)

Stage I: Lead w/440sx 35/65 PozC (YLD 2 WT 12.5, 11 gal/sk) tail w/200sx Class C (YLD 1.34 WT 14.8, 6.23 gal/sk) 100% excess TOC=2800'

Stage II: Lead w/735sx 35/65 PozC (YLD 2 WT 12.5, 11 gal/sk) tail w/210sx Class C (YLD 1.34 WT 14.8, 6.23 gal/sk) 100% excess TOC=0'

Production:

Well will be drilled to approx. 15279' MD (10599' TVD) which will be 100' past the 330' hardline. The BHL, casing weight and grade will remain the same. Production cement volumes will be adjusted accordingly to include the extra 100' of lateral. The directional plan and WM are attached.



WELL DETAILS: #10H

Ground Elevation:: 3575.0
RKB Elevation: RKB @ 3596.5usft (Nomac 22 KB=21.5')
Rig Name: Nomac 22 KB=21.5'

Yates Petroleum
Project: Eddy, NM (NAD-83)
Site: Haracz "Amo" Federal
Well: #10H
Wellbore: OH
Plan: Plan #2 (#10H/OH)

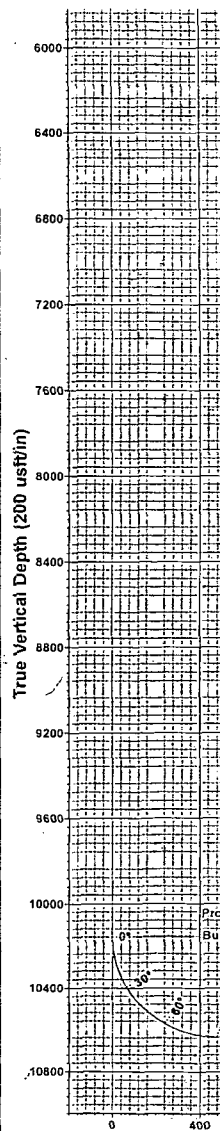
Surface Hole Location
Northing 440509.80 Easting 729457.00 Latitude 32° 12' 34.471 N Longitude 103° 43' 30.325 W



Azimuths to Grid North
True North: -0.32°
Magnetic North: 6.99°

Magnetic Field
Strength: 48313.7snT
Dip Angle: 60.08°
Date: 3/20/2014
Model: IGRF2010

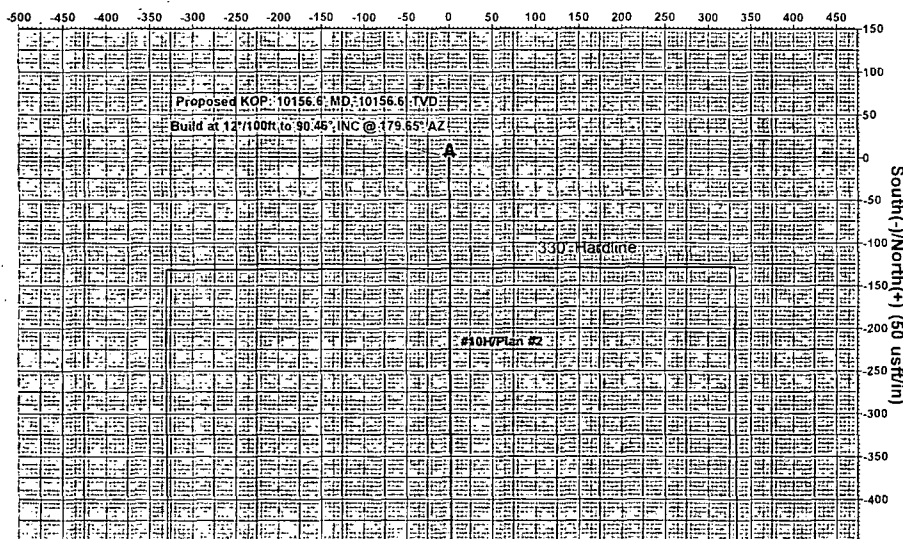
West(-)/East(+) (200 usft/in)



Section Details

	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	10156.6	0.00	0.00	10156.6	0.0	0.0	0.00	0.00	0.0
3	10910.4	90.46	179.65	10634.0	-481.3	2.9	12.00	179.65	481.3
4	15179.2	90.46	179.65	10600.0	-4749.8	28.7	0.00	0.00	4749.9
5	15279.2	90.46	179.65	10599.2	-4849.8	29.3	0.00	0.00	4849.9

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



Vertical Section at 179.65° (200 usft/in)

Crescent Directional Drilling

7715 West Industrial Ave, Midland, Tx 79706

Phone: 432-618-1135



PROJECT DETAILS: Eddy, NM (NAD-83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid

Plan: Plan #2 (#10H/OH)
Created By: Adrian Castro Date: 17:59, March 20 2014

Yates Petroleum

Eddy, NM (NAD-83)

Haracz "Amo" Federal

#10H

OH

Plan: Plan #2

Standard Planning Report

20 March, 2014

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Well #10H
Company:	Yates Petroleum	TVD Reference:	RKB @ 3596.5usft (Nomac 22 KB=21.5)
Project:	Eddy, NM (NAD-83)	IMD Reference:	RKB @ 3596.5usft (Nomac 22 KB=21.5)
Site:	Haracz "Amo" Federal	North Reference:	Grid
Well:	#10H	Survey/Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Project:	Eddy, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Haracz "Amo" Federal		
Site Position:		Northing:	440,509.80 usft
From:	Map	Easting:	729,457.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 12' 34.471 N
		Longitude:	103° 43' 30.325 W
		Grid Convergence:	0.32°

Well: #10H						
Well Position	+N/-S	0.0 usft	Northing:	440,509.80 usft	Latitude:	32° 12' 34.471 N
	+E/-W	0.0 usft	Easting:	729,457.00 usft	Longitude:	103° 43' 30.325 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,575.0 usft

Wellbore:	OH		
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Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	3/20/2014	7.32	60.08	48,314

Design:	Plan #2		
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Audit Notes:			
Version:	1	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	179.65

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	
	10,156.6	0.00	0.00	10,156.6	0.0	0.0	0.00	0.00	0.00	0.00	
	10,910.4	90.46	179.65	10,634.0	-481.3	2.9	12.00	12.00	0.00	179.65	
	15,179.2	90.46	179.65	10,600.0	-4,749.8	28.7	0.00	0.00	0.00	0.00	PBHL (Haracz "Amo")
	15,279.2	90.46	179.65	10,599.2	-4,849.8	29.3	0.00	0.00	0.00	0.00	

Planning Report

Database:	Houston-R5000 Database	Local Co-ordinate Reference:	Well #10H
Company:	Yates Petroleum	TVD Reference:	RKB @ 3596.5usft (Nomac 22 KB=21.5')
Project:	Eddy, NM (NAD83)	MD Reference:	RKB @ 3596.5usft (Nomac 22 KB=21.5')
Site:	Haracz "Amo" Federal	North Reference:	Grid
Well:	#10H	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	

Planning Report

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Wellbore:	OH		
Design:	Plan #2		

Planned Survey										
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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	
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,156.6	0.00	0.00	10,156.6	0.0	0.0	0.0	0.00	0.00	0.00	
Proposed KOP: 10156.6 MD, 10156.6 TVD - Build at 12°/100ft to 90.46° INC @ 179.65° AZ										
10,175.0	2.21	179.65	10,175.0	-0.4	0.0	0.4	12.00	12.00	0.00	
10,200.0	5.21	179.65	10,199.9	-2.0	0.0	2.0	12.00	12.00	0.00	
10,225.0	8.21	179.65	10,224.8	-4.9	0.0	4.9	12.00	12.00	0.00	

Planning Report

Database:	Houston R5000 Database	Local/Co-ordinate Reference:	Well #10H
Company:	Yates Petroleum	TVD Reference:	RKB @ 3596.5usft (Nomac.22 KB=21.5')
Project:	Eddy, NM (NAD-83)	MD Reference:	RKB @ 3596.5usft (Nomac.22 KB=21.5')
Site:	Harcz "Amo" Federal	North Reference:	Grid
Well:	#10H	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)	
10,250.0	11.21	179.65	10,249.4	-9.1	0.1	9.1	12.00	12.00	0.00	
10,275.0	14.21	179.65	10,273.8	-14.6	0.1	14.6	12.00	12.00	0.00	
10,300.0	17.21	179.65	10,297.9	-21.4	0.1	21.4	12.00	12.00	0.00	
10,325.0	20.21	179.65	10,321.5	-29.4	0.2	29.4	12.00	12.00	0.00	
10,350.0	23.21	179.65	10,344.8	-38.6	0.2	38.6	12.00	12.00	0.00	
10,375.0	26.21	179.65	10,367.5	-49.1	0.3	49.1	12.00	12.00	0.00	
10,400.0	29.21	179.65	10,389.6	-60.7	0.4	60.7	12.00	12.00	0.00	
10,425.0	32.21	179.65	10,411.1	-73.5	0.4	73.5	12.00	12.00	0.00	
10,450.0	35.21	179.65	10,431.9	-87.3	0.5	87.3	12.00	12.00	0.00	
10,475.0	38.21	179.65	10,451.9	-102.3	0.6	102.3	12.00	12.00	0.00	
10,500.0	41.21	179.65	10,471.2	-118.3	0.7	118.3	12.00	12.00	0.00	
10,525.0	44.21	179.65	10,489.5	-135.2	0.8	135.2	12.00	12.00	0.00	
10,550.0	47.21	179.65	10,507.0	-153.1	0.9	153.1	12.00	12.00	0.00	
10,575.0	50.21	179.65	10,523.5	-171.9	1.0	171.9	12.00	12.00	0.00	
10,600.0	53.21	179.65	10,539.0	-191.5	1.2	191.5	12.00	12.00	0.00	
10,625.0	56.21	179.65	10,553.4	-211.9	1.3	211.9	12.00	12.00	0.00	
10,650.0	59.21	179.65	10,566.8	-233.0	1.4	233.0	12.00	12.00	0.00	
10,675.0	62.21	179.65	10,579.0	-254.8	1.5	254.8	12.00	12.00	0.00	
10,700.0	65.21	179.65	10,590.1	-277.2	1.7	277.3	12.00	12.00	0.00	
10,725.0	68.21	179.65	10,599.9	-300.2	1.8	300.2	12.00	12.00	0.00	
10,750.0	71.21	179.65	10,608.6	-323.7	2.0	323.7	12.00	12.00	0.00	
10,775.0	74.21	179.65	10,616.0	-347.5	2.1	347.5	12.00	12.00	0.00	
10,800.0	77.21	179.65	10,622.2	-371.7	2.2	371.7	12.00	12.00	0.00	
10,825.0	80.21	179.65	10,627.1	-396.3	2.4	396.3	12.00	12.00	0.00	
10,850.0	83.21	179.65	10,630.7	-421.0	2.5	421.0	12.00	12.00	0.00	
10,875.0	86.21	179.65	10,633.0	-445.9	2.7	445.9	12.00	12.00	0.00	
10,900.0	89.21	179.65	10,634.0	-470.9	2.8	470.9	12.00	12.00	0.00	
10,910.4	90.46	179.65	10,634.0	-481.3	2.9	481.3	12.00	12.00	0.00	
EOC: 10910.4' MD, 10634.0' TVD, 90.46° INC, 179.65° AZ, 481.3' VS										
11,000.0	90.46	179.65	10,633.3	-570.9	3.4	570.9	0.00	0.00	0.00	
11,100.0	90.46	179.65	10,632.5	-670.8	4.1	670.9	0.00	0.00	0.00	
11,200.0	90.46	179.65	10,631.7	-770.8	4.7	770.9	0.00	0.00	0.00	
11,300.0	90.46	179.65	10,630.9	-870.8	5.3	870.9	0.00	0.00	0.00	
11,400.0	90.46	179.65	10,630.1	-970.8	5.9	970.8	0.00	0.00	0.00	
11,500.0	90.46	179.65	10,629.3	-1,070.8	6.5	1,070.8	0.00	0.00	0.00	
11,600.0	90.46	179.65	10,628.5	-1,170.8	7.1	1,170.8	0.00	0.00	0.00	
11,700.0	90.46	179.65	10,627.8	-1,270.8	7.7	1,270.8	0.00	0.00	0.00	
11,800.0	90.46	179.65	10,627.0	-1,370.8	8.3	1,370.8	0.00	0.00	0.00	
11,900.0	90.46	179.65	10,626.2	-1,470.8	8.9	1,470.8	0.00	0.00	0.00	
12,000.0	90.46	179.65	10,625.4	-1,570.8	9.5	1,570.8	0.00	0.00	0.00	
12,100.0	90.46	179.65	10,624.6	-1,670.8	10.1	1,670.8	0.00	0.00	0.00	
12,200.0	90.46	179.65	10,623.8	-1,770.8	10.7	1,770.8	0.00	0.00	0.00	
12,300.0	90.46	179.65	10,623.0	-1,870.8	11.3	1,870.8	0.00	0.00	0.00	
12,400.0	90.46	179.65	10,622.2	-1,970.8	11.9	1,970.8	0.00	0.00	0.00	
12,500.0	90.46	179.65	10,621.4	-2,070.8	12.5	2,070.8	0.00	0.00	0.00	
12,600.0	90.46	179.65	10,620.6	-2,170.8	13.1	2,170.8	0.00	0.00	0.00	
12,700.0	90.46	179.65	10,619.8	-2,270.8	13.7	2,270.8	0.00	0.00	0.00	
12,800.0	90.46	179.65	10,619.0	-2,370.8	14.3	2,370.8	0.00	0.00	0.00	
12,900.0	90.46	179.65	10,618.2	-2,470.8	14.9	2,470.8	0.00	0.00	0.00	
13,000.0	90.46	179.65	10,617.4	-2,570.8	15.5	2,570.8	0.00	0.00	0.00	
13,100.0	90.46	179.65	10,616.6	-2,670.7	16.1	2,670.8	0.00	0.00	0.00	
13,200.0	90.46	179.65	10,615.8	-2,770.7	16.7	2,770.8	0.00	0.00	0.00	
13,300.0	90.46	179.65	10,615.0	-2,870.7	17.3	2,870.8	0.00	0.00	0.00	
13,400.0	90.46	179.65	10,614.2	-2,970.7	18.0	2,970.8	0.00	0.00	0.00	

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Well #10H
Company:	Yates Petroleum	TVD Reference:	RKB @ 3596.5usft (Nomac 22 KB=21.5)
Project:	Eddy, NM (NAD-83)	MD Reference:	RKB @ 3596.5usft (Nomac 22 KB=21.5)
Site:	Haracz "Amo" Federal	North Reference:	Grid
Well:	#10H	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)
13,500.0	90.46	179.65	10,613.4	-3,070.7	18.6	3,070.8	0.00	0.00	0.00
13,600.0	90.46	179.65	10,612.6	-3,170.7	19.2	3,170.8	0.00	0.00	0.00
13,700.0	90.46	179.65	10,611.8	-3,270.7	19.8	3,270.8	0.00	0.00	0.00
13,800.0	90.46	179.65	10,611.0	-3,370.7	20.4	3,370.8	0.00	0.00	0.00
13,900.0	90.46	179.65	10,610.2	-3,470.7	21.0	3,470.8	0.00	0.00	0.00
14,000.0	90.46	179.65	10,609.4	-3,570.7	21.6	3,570.8	0.00	0.00	0.00
14,100.0	90.46	179.65	10,608.6	-3,670.7	22.2	3,670.8	0.00	0.00	0.00
14,200.0	90.46	179.65	10,607.8	-3,770.7	22.8	3,770.8	0.00	0.00	0.00
14,300.0	90.46	179.65	10,607.0	-3,870.7	23.4	3,870.8	0.00	0.00	0.00
14,400.0	90.46	179.65	10,606.2	-3,970.7	24.0	3,970.8	0.00	0.00	0.00
14,500.0	90.46	179.65	10,605.4	-4,070.7	24.6	4,070.8	0.00	0.00	0.00
14,600.0	90.46	179.65	10,604.6	-4,170.7	25.2	4,170.7	0.00	0.00	0.00
14,700.0	90.46	179.65	10,603.8	-4,270.7	25.8	4,270.7	0.00	0.00	0.00
14,800.0	90.46	179.65	10,603.0	-4,370.7	26.4	4,370.7	0.00	0.00	0.00
14,900.0	90.46	179.65	10,602.2	-4,470.7	27.0	4,470.7	0.00	0.00	0.00
15,000.0	90.46	179.65	10,601.4	-4,570.7	27.6	4,570.7	0.00	0.00	0.00
15,100.0	90.46	179.65	10,600.6	-4,670.6	28.2	4,670.7	0.00	0.00	0.00
15,179.2	90.46	179.65	10,600.0	-4,749.8	28.7	4,749.9	0.00	0.00	0.00
Cross 330' Hardline: 15179.2' MD, 10600.0' TVD									
15,200.0	90.46	179.65	10,599.8	-4,770.6	28.8	4,770.7	0.00	0.00	0.00
15,279.2	90.46	179.65	10,599.2	-4,849.8	29.3	4,849.9	0.00	0.00	0.00
TD: 15279.2' MD, 10599.2' TVD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
hit/miss target									
Shape									
PBHL (Haracz "Amo" Fe	0.00	0.00	10,600.0	-4,749.8	28.7	435,759.98	729,485.70	32° 11' 47.467 N	103° 43' 30.304 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,156.6	10,156.6	0.0	0.0	Proposed KOP: 10156.6' MD, 10156.6' TVD
10,156.6	10,156.6	0.0	0.0	Build at 12"/100ft to 90.46° INC @ 179.65° AZ
10,910.4	10,634.0	-481.3	2.9	EOC: 10910.4' MD, 10634.0' TVD, 90.46° INC, 179.65° AZ, 481.3' VS
15,179.2	10,600.0	-4,749.8	28.7	Cross 330' Hardline: 15179.2' MD, 10600.0' TVD
15,279.2	10,599.2	-4,849.8	29.3	TD: 15279.2' MD, 10599.2' TVD

Conditions of Approval

Contingency DV tool at 2500-3000'

1. The minimum required fill of cement behind the **9-5/8** inch 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.