

OCD-ARTESIA

Form 3160-5
(August 1999)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

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NM-81953
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/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Surface: 200' FNL & 900' FEL, BHL: 330' FSL & 900' FEL, Section 4, T23S-R31E, Unit Letter (Surface A) (BHL P)		8. Well Name and No. Glow Worm ALX Federal #16H
		9. API Well No. 30-015-36369
		10. Field and Pool, or Exploratory Area Los Mendanos; Delaware
		11. County or Parish, State Eddy, New Mexico

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 Update directional plan
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 recomple 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 permission to change the casing program as per attached:
Cement program to remain as permitted.

It is also requested that the directional plan be updated with 12*/100' build in the curve. With the new directional plan, the kick off point will be 7583'. Penetration point of producing zone encountered at 677' FNL & 900' FEL, Sect. 4, 23S-31E. Directional plan is attached.

COA from APD Extension approved on
8/20/10 still apply.

RECEIVED

DEC 07 2010

NMOCD ARTESIA

Thank-You,

Excess on stage 2 of production string
is only 2% - Additional cement required

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Jeremiah Mullen

Title

Signature

Jeremiah Mullen

Date

Well Planner

November 30, 2010

Approved by

[Signature]

Title

DEC 7 2010

Office

/s/ Dustin Winkler

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.

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)

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE*[Signature]**[Handwritten mark]*

Glow Worm ALX Federal #16H casing

Surface Casing

Drilled w/17 1/2" hole.

0 ft to 580 ft				Make up Torque ft-lbs			Total ft =
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
13.375 inches	48 #/ft	J-55	ST&C		4,330	3,250	5,410
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
740	2,370 psi	433,000 #		744,000 #		12,555	

Setting depth changed to 580' to put surface casing 25' into Rustler.

Approx 550'
Per APDEX
COA

Intermediate Casing

Drilled w/12 1/4" hole.

0 ft to 100 ft				Make up Torque ft-lbs			Total ft =
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
9.625 inches	40 #/ft	J-55	LT&C		5,200	3,900	6,500
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
2,570 psi	3,950 psi	520,000 #		630,000 #		8.75-SD	

100 ft to 3,300 ft				Make up Torque ft-lbs			Total ft =
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
9.625 inches	36 #/ft	J-55	LT&C		4,530	3,400	5,660
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
2,020 psi	3,520 psi	453,000 #		564,000 #		8.765	

3,300 ft to 4,100 ft				Make up Torque ft-lbs			Total ft =
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
9.625 inches	40 #/ft	J-55	LT&C		5,200	3,900	6,500
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
2,570 psi	3,950 psi	520,000 #		630,000 #		8.75-SD	

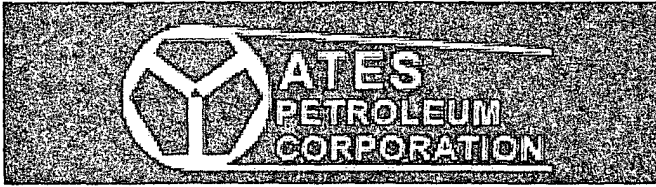
Setting depth changed to 4,100' to ensure we are 100' into Base of Salt.

Production Casing

Drilled with 8 3/4" hole to EOC (8332' MD), then reduce hole to 7 7/8" and drill the lateral to TD (12,598' MD).

0 ft to 12,598 ft				Make up Torque ft-lbs			Total ft =
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
5.5 inches	17 #/ft	P-110	LT&C		4,620	3,470	5,780
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
7,480 psi	10,640 psi	445,000 #		546,000 #		4.767	

With new directional plan, total MD is 12,598'.



Yates Petroleum Corporation

Eddy Co, New Mexico (Nad-83)

Glow Worm ALX Fed #16H

Glow Worm ALX Fed #16H

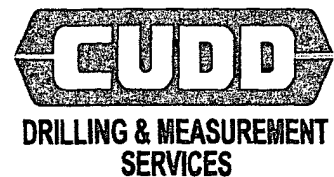
30-015-36369

Lateral #1

Plan: Design #1

Standard Survey Report

30 November, 2010





CUDD Drilling & Measurement Services

Survey Report



Company:	Yates Petroleum Corporation	Local/Co-ordinate Reference:	Site Glow Worm ALX Fed #16H
Project:	Eddy Co, New Mexico (Nad-83)	TVD Reference:	WELL @ 3413.00ft (Original Well Elev)
Site:	Glow Worm ALX Fed #16H	MD Reference:	WELL @ 3413.00ft (Original Well Elev)
Well:	Glow Worm ALX Fed #16H	North Reference:	Grid
Wellbore:	Lateral #1	Survey/Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 2003.21 Single User Db

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

Site:	Glow Worm ALX Fed #16H, Sec 4, T-23S, R-31E		
Site Position:		Northing:	487,946.69 ft
From:	Map	Easting:	713,102.05 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 20' 24.759 N
		Longitude:	103° 46' 37.823 W
		Grid Convergence:	0.30 °

Well:	Glow Worm ALX Fed #16H					
Well Position	+N/-S	0.00 ft	Northing:	487,946.69 ft	Latitude:	32° 20' 24.759 N
	+E/-W	0.00 ft	Easting:	713,102.05 ft	Longitude:	103° 46' 37.823 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	3,413.00 ft	Ground Level:	3,397.00 ft

Wellbore	Lateral #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/30/10	7.74	60.29	48,752

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	179.62

Survey Tool/Program	Date	11/30/10		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
0.00	7,400.00	Design #1 (Lateral #1)	NS-GYRO-MS	North sensing gyrocompassing m/s
7,400.00	12,598.52	Design #1 (Lateral #1)	Cudd MWD	Cudd MWD - Standard

Planned Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(ft)	(ft)	Section	Rate	Rate	Rate
(ft)			(ft)			(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
554.00	0.00	0.00	554.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
580.00	0.00	0.00	580.00	0.00	0.00	0.00	0.00	0.00	0.00
13 3/8" Casing									
3,977.00	0.00	0.00	3,977.00	0.00	0.00	0.00	0.00	0.00	0.00
Base of Salt									
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8" Casing									
4,280.00	0.00	0.00	4,280.00	0.00	0.00	0.00	0.00	0.00	0.00
Bell Canyon									



CUDD Drilling & Measurement Services

Survey Report



Company:	Yates Petroleum Corporation	Local Co-ordinate Reference:	Site Glow Worm ALX Fed #16H
Project:	Eddy Co, New Mexico (Nad-83)	TVD Reference:	WELL @ 3413.00ft (Original Well Elev)
Site:	Glow Worm ALX Fed #16H	MD Reference:	WELL @ 3413.00ft (Original Well Elev)
Well:	Glow Worm ALX Fed #16H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 2003.21 Single User Db

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,240.00	0.00	0.00	5,240.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
6,962.00	0.00	0.00	6,962.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
7,582.53	0.00	0.00	7,582.53	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Build 12"/100'									
7,843.85	31.36	179.62	7,831.00	-69.74	0.46	69.74	12.00	12.00	0.00
Brushy Canyon Marker									
8,332.54	90.00	179.62	8,060.00	-477.46	3.15	477.47	12.00	12.00	0.00
EOC - Hold 1:90.0° @ A: 179.62°									
12,598.52	90.00	179.62	8,060.00	-4,743.34	31.29	4,743.45	0.00	0.00	0.00
PBHL - TD (GWALXF#16H)									

Design Targets

Target Name	-hit/miss target	-Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL - TD (GWALXF#1			0.00	0.00	8,060.00	-4,743.34	31.29	483,203.36	713,133.35	32° 19' 37.820 N	103° 46' 37.746 W
- plan hits target center											
- Point											

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
580.00	580.00	13 3/8" Casing	13-3/8	17-1/2
4,100.00	4,100.00	9 5/8" Casing	9-5/8	12-1/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
554.00	554.00	Rustler		0.00	
3,977.00	3,977.00	Base of Salt		0.00	
4,280.00	4,280.00	Bell Canyon		0.00	
5,240.00	5,240.00	Cherry Canyon		0.00	
6,962.00	6,962.00	Brushy Canyon		0.00	
7,843.85	7,831.00	Brushy Canyon Marker		0.00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates	+N/-S (ft)	+E/-W (ft)	Comment
7,582.53	7,582.53		0.00	0.00	KOP - Build 12"/100'
8,332.54	8,060.00		-477.46	3.15	EOC - Hold 1:90.0° @ A: 179.62°



CUDD Drilling & Measurement Services

Survey Report



Company: Yates Petroleum Corporation
Project: Eddy Co, New Mexico (Nad-83)
Site: Glow Worm ALX Fed #16H
Well: Glow Worm ALX Fed #16H
Wellbore: Lateral #1
Design: Design #1

Local Co-ordinate Reference: Site Glow Worm ALX Fed #16H
TVD Reference: WELL @ 3413.00ft (Original Well Elev)
MD Reference: WELL @ 3413.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Checked By: _____ Approved By: _____ Date: _____



Project: Eddy Co. New Mexico (N14-33)
Site: Glow Worm ALX Fed #16H
Well: Glow Worm ALX Fed #16H
Wellbore: Lateral #1
Design: Design #1

SECTION DETAILS

Sec	MD	PC	ATI	TVD	+N/S	+E/W	CLAS	TS-SEC	VS-SEC	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	7582.53	0.00	0.00	7582.53	0.00	0.00	0.00	0.00	0.00	
3	8332.54	90.00	179.62	8060.00	-477.46	3.15	12.00	178.62	477.47	
4	12568.52	90.00	179.62	8060.00	-4743.34	31.28	0.00	0.00	4743.46	PBHL - TD (GVALXF#16H)

ANNOTATIONS

TVD	MD	Annotation
7582.53		KOP - Build 127100'
8060.00		EOC - Hold 190.0' @ A: 178.62°

PROJECT DETAILS: Eddy Co. New Mexico (N14-33)

Geologic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELLBORE TARGET DETAILS (MAP COORDINATES AND LAT/LONG)

Name	TVD	+N/S	+E/W	Nothing	Eastings	Northings	Latitude	Longitude	Shape
PBHL - TD (GVALXF#16H)	8060.00	-4743.34	31.28		483203.26	713133.35	32° 12' 37.820 N	103° 46' 37.746 W	Point

WELL DETAILS: Glow Worm ALX Fed #16H

Ground Level		3397.00					
WELL @ 3413.00ft (Original Well Elev)							
+N/S	+E/W	Nothing	Eastings	Latitude	Longitude	Slot	
0.00	0.00	487946.66	713102.05	32° 20' 24.759 N	103° 46' 37.823 W		

Plan Design #1 (Glow Worm ALX Fed #16H Lateral #1)

Created By: Mike Stanley	Date: 10/10/November 30/2010
Checked: _____	Date: _____
Reviewed: _____	Date: _____
Approved: _____	Date: _____

