N.M. Oil Cons. DfV-Dist. 2 1301 W. Grand Avenue

Form 3 60-3 (August 1999) Artesia, NM 88210

OMB No. 1004-0136 Expires November 30, 2000

UNITED STATES

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED 5. L

Lease Serial No.

			1111 01752		
APPLICATION FOR PERMIT TO D	MILL ON MELITICITY	AUG 2 9 2005	6. If Indian, Allottee or	Tribe Name	
			7. If Unit or CA Agree	ment Name and No	
1a. Type of Work: X DRILL RE	ENTER R-111-PO	TASH	7. If Offit of CA Agree	nent, Name and No.	
<u> </u>			8. Lease Name and We	11 No. 15601	
b. Type of Well:	Single Zone	Multiple Zone	Llama ALL Fe	•	
2. Name of Operator			9. API Well No.		
Yates Petroleum Corporation 2557				-34297	
3A. Address 105 South Fourth Street	3b. Phone No. (include area coa	le)	10. Field and Pool, or E	xploratory	
Artesia, New Mexico 88210	(505) 748-14	71	Wildcat Bone Spring		
4. Location of Well (Report location clearly and in accordance with an	y State requirements.*)		11. Sec., T., R., M., or I	3lk, and Survey or Area	
At surface 330' FSL an	d 1650' FWL	•	Section 7.	T22S-R31E	
At proposed prod. Zone	ame N		,		
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State	
Approximately 25 miles northeast of Loving, N	ew Mexico		•		
15. Distance from proposed*	16. No. of Acres in lease	17 Specing Un	Eddy County it dedicated to this well	NM NM	
location to nearest property or lease line, ft. 330'	10. No. of Acres in lease	17. Spacing On	it dedicated to this wen		
(Also to nearest drig. unit line, if any)	40		SE/SW		
18. Distance from proposed location* to nearest well, drilling, completed,	19. Proposed Depth	20. BLM/BIA I			
applied for, on this lease, ft.	7850'		585997		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will	start*	23. Estimated duration		
3348' GL	ASAP		45 days		
	24. Attachments	CARLSBAD	CONTROLLED WA		
The following, completed in accordance with the requirements of Onsho	re Oil and Gas Order No. 1, shall b	e attached to this	form:		
1. Well plat certified by a registered surveyor.	4. Bond to cove	r the operations	unless covered by an exist	ing hand on file (see	
2. A Drilling Plan.	Item 20 abov		amos covered by an exist	ing bond on the (see	
3. A Surface Use Plan (if the location is on National Forest System Land		•			
SUPO shall be filed with the appropriate Forest Service Office.			otion and/anulana as	h a	
2	authorized of	=	ation and/or plans as may l	e required by the	
25. Signature	Name (Printed/Typed)		i Da	te	
Un Cawan	Cy Cowan			6/4/04	
Regulatory Agent					
Regulatory/Agent	,				
Approved by (Signature) /s/ Linda S. C. Rundell	Name (Printed/Types)	nda S. C.	Rundell Da	*AUG 18 2005	
Title	Office		<u> </u>		
STATE DIRECTOR NM STATE OFFICE					
Application approval does not warrant or certify that the applicant holds	legal or equitable title to the				
operations thereon.	ickai oi equitable title to those righ				
Conditions of approval, if any, are attached.		APPROV	VAL FOR 1 YI	EAR	
Title 18 U.S.C. Section 1001and Title 43 U.S.C. Section 1212, make it a	crime for any person knowingly ar	d willfully to mal	ce to any department or ag	ency of the United	

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED Sa 17)8.5

Witness Surface & Intermediate Casing

DISTRICT I 1625 M. French Dr., Hobbs, NM 66240 DISTRICT II 811 South First, Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 2040 South Pecheco, Santa Fe, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999 Instruction on back

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code O16053	Pool Name Wildcat Bone Spring			
Property Code	Property No.		Well Number		
	• •	wen Municer			
OGRID No.	LLAMA "ALL" FEDERA		4		
	Operator No		Elevation		
025575	YATES PETROLEUM	3348			
	Surface Lo				

Surface Location

UL or let No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	7	22 S	31E		330	SOUTH	1650	WEST	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
De	dicated Acres	Joint o	r Infill Co	onsolidation (Code On	der No.				
	40		<u>_</u>							

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

OR A NON-SIANI	ARD UNII HAS BEEN A	APPROVED BY THE DIVISION
		OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and bettef.
		Signature Cy Cowan Printed Name Regulatory Agent Title
		May 24, 2004 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown
		on this plat was platted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my bettef. 4/01/2004 Date Surveyed
NM 81952 N.32°23'58.9" W.103°49'12.8" 3349 3343		Signature Seei Professionel Hairdsyor MEXICO IN MEXICO
0 330' 660' 990' 1650' 1980' 2310'	2310, 1880, 1820,	990' 660' 330' 0'

MARTIN YATES, III 1912 - 1985 FRANK W. YATES 1936 - 1986



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118 TELEPHONE (505) 748-1471

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

June 4, 2004

IMC Carlsbad Potash Company P.O. Box 71 Carlsbad, New Mexico 88221-0071

Attention: Mr. Dan Moorehouse, Chief Mining Engineer

RE: Llama ALL Federal #4

Section 7: Township 22 South, Range 31 East

330' FSL and 1650' FWL Eddy County, New Mexico

Dear Mr. Moorehouse:

Very truly yours,

Yates Petroleum Corporation wishes to place the captioned well on our list for future drilling operations. We are planning to drill this well to a total depth of 7,850' or 100' below the base of the Bone Spring Formation. We have been advised that your company is the owner of certain potash leases in this area. Therefore, we respectfully request that you waive any objections you may have to this proposed well location and so indicate by signing and returning one copy of this letter in the enclosed envelope.

Your favorable consideration of this request will be greatly appreciated. Thank you.

YATES PETROLEUM CORPORATION Llama "ALL" Federal #4

330' FSL & 1650' FWL Section 7, T24S-R31E Eddy County, New Mexico

1. The estimated tops of geologic markers are as follows:

Rustler	480'
Top of Salt	836'
Base of Salt	3820'
Bell Canyon	3920'
Cherry Canyon	4830'
Brushy Canyon	6120'
Bone Spring Lime	7740'
TD	7850'

2. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water: Approx 150' Oil or Gas: 4830'-7850'

3. Pressure Control Equipment: BOPE will be installed on the 13 3/8" casing and rated for 3000 BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout Preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

Auxiliary Equipment:

- A. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.
- 4. THE PROPOSED CASING AND CEMENTING PROGRAM:
 - A. Casing Program: (All New)

<u>Hole</u> Size	Casing Size	Wt./Ft	<u>Grade</u>	Coupling	<u>Interval</u>	Length	1
17 ½"	13 3/8"	48#	H-40	ST&C	0-750'510	750'	-
11"	8 5/8"	32#	J-55	ST&C	0-3900'	3900'	WITNESS WITNESS
7 7/8"	5 1/2"	17#	J-55	LT&C	0-100'	100'	
7 7/8	5 1/2"	15.5#	J-55	LT&C	100'-7500'	7400'	
7 7/8"	5 1/2"	17#	J-55	LT&C	7500'-7850'	350'	

Yates Petroleum Corporation requests a variance to install a rotating head on the surface casing strings when intermediate casing will be set. If a BOP system is required then we wish to install a 2M system and receive a variance to test the system to 1000# using the rig pumps. The test will be held for 30 minutes on each system component. Components to be tested include pipe rams, blind rams, and annular preventor.

Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Joint Strength 1.8

Llama "ALL" Federal #4 Page 2

B. CEMENTING PROGRAM:

Surface casing: Lead with 550 sx Lite (YLD 1.98 WT.12.5) Tail in w/ 200 sx Class "C" + 2% CaCl2 (YLD 1.34 WT 14.8).

Intermediate Casing: Lead with 1000 sx Premium Plus (YLD 1.98 WT 12.5); Tail in w/ 200 sx Premium Plus + 2% CaCl2 (YLD 1.34 WT. 14.8)

Production Casing: TOC 4800' Stage I; 625 sx Super "H" (YLD 1.72 WT. 13.0). DV Tool @3850'. Tail in w/ 100 sx Thixset (YLD 1.42 WT 14.4)

Stage II: Lead w/ 600 sx Interfill 'C' (YLD 2.41 WT 12.0) Tail in w/ 100 sx Class 'C' Neat (YLD 1.34 Wt 14.8).

5. Mud Program and Auxiliary Equipment:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0-750 510	FW/Native Mud	8.4-8.6	30-32	N/C
510' 750'-3900'	Brine	10.0-10.2	28-30	N/C
3900'-7700'	Cut Brine	8.4-8.6	28	N/C
7700'-7850'	Cut Brine/Starch	8.6-9.0	28-30	<15cc

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Mud will be checked hourly by rig personnel.

6. EVALUATION PROGRAM:

Samples: 10 samples out from under surface casing.

Logging: DLL TD to casing; CNL/FDC TD to casing; CMR TD to casing GR TD to Surface;

DLL w/RXO TD to casing.

Coring: None Anticipated.

DST's: As warranted.

7. Abnormal Conditions, Bottom hole pressure and potential hazards:

Anticipated BHP:

From: TO: 500" O Anticipated Max. BHP: 400 **PSI** 500' From: TO: 3900" Anticipated Max. BHP: 2075 **PSI** From: 3900' TO: 7850' Anticipated Max. BHP: 3675 PSI

No abnormal pressures or temperatures are anticipated.

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: None

Maximum Bottom Hole Temperature: 162 F

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 20 days to drill the well with completion taking another 15 days.

YATES PETROLEUM CORPORATION

Llama "ALL" Federal #4 330' FSL & 1650' FWL Section 7, T24S-R31E Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

Exhibit A is a portion of the BLM map showing the well and roads in the vicinity of the proposed location. The proposed wellsite is located approximately 25 miles northeast of Loving, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go east of Carlsbad on Highway 285 to Highway 31. Go east on Highway 31 to Highway 128 (Jal Highway). Go approximately 10.7 miles to County Road 802 Wipp Road. Turn north on CR-802 and go approximately 3.5 miles to Louis Whitlock Road. Turn north on Louis Whitlock Road and go north for approx. 1.1 miles. Turn west on existing pipeline road and go approx. 1.5 miles to compressor site on right. Turn right here and follow existing lease road for approx. 1.4 miles. The new road will start here going east for approximately 1 of a mile to the southwest corner of the proposed Llama ALL Federal #4 well location.

PLANNED ACCESS ROAD.

- A. The proposed new access will be approximately .3 of a mile in length from the point of origin to the southwest corner of the drilling pad. The road will lie in a west to east direction.
- B. The new road will be 14 feet in width (driving surface) and will be adequately drained to control runoff and soil erosion.
- C. The new road will be bladed with drainage on one side. Traffic turnouts may be built.
- D. The route of the road is visible.
- E. Existing roads will be maintained in the same or better condition.

LOCATION OF EXISTING WELL

- A. There is drilling activity within a one-mile radius of the wellsite.
- B. Exhibit D shows existing wells within a one-mile radius of the proposed wellsite.

Llama "ALL" Federal #4 Page 2

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. There are production facilities on this lease at the present time.

B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive oil, a gas or diesel self-contained unit will be used to provide the necessary power. No power will be required if the well is productive of gas.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with a fresh water system. The fresh water will be obtained from commercial sources and will be hauled to the location by truck over the existing and proposed roads shown in Exhibit A.

6. SOURCE OF CONSTRUCTION MATERIALS:

Dirt contractor will locate closest pit and obtain any permits and materials needed for construction.

METHODS OF HANDLING WASTE DISPOSAL:

A. Drill cuttings will be disposed of in the reserve pits.

B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.

C. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.

D. Oil produced during operations will be stored in tanks until sold.

E. Current laws and regulations pertaining to the disposal of human waste will be complied with.

F. All trash, junk, and other waste materials will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary land fill. Burial on site is not approved.

8. ANCILLARY FACILITIES: None.

9. WELLSITE LAYOUT:

- A. Exhibit C shows the relative location and dimensions of the well pad, the reserve pits, the location of the drilling equipment, rig orientation and access road approach.
- B. The reserve pits will be plastic lined and will face to the north.
- C. A 600' x 600' area has been staked and flagged.

10. PLANS FOR RESTORATION

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have dried and been leveled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled level after they have evaporated and dried.

Llama "ALL" Federal #4 Page 3

- 11. SURFACE OWNERSHIP: Federal surface, Administered by the Bureau of Land Management, Carlsbad, New Mexico.
- 12. OTHER INFORMATION:
 - A. Topography: Refer to the existing archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
 - B. The primary surface use is for grazing.
- OPERATOR'S REPRESENTATIVE
 - A. Through A.P.D. Approval:Cy Cowan, Regulatory Agent

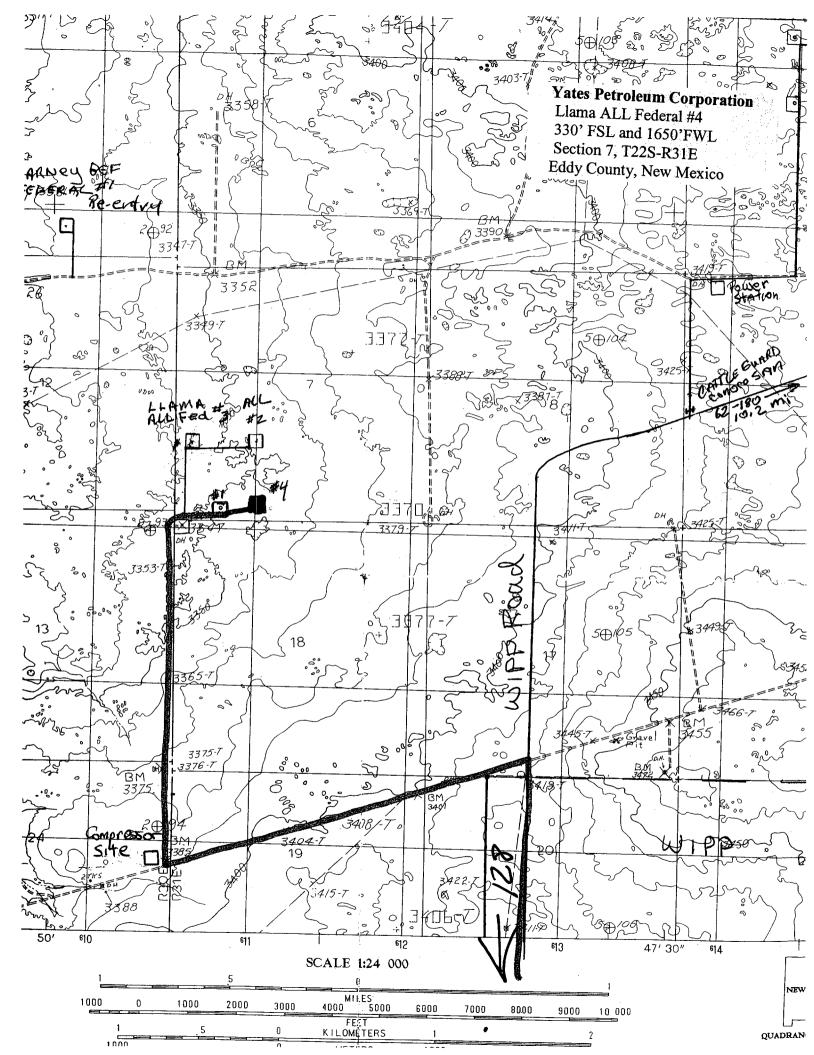
Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471 B. Through Drilling Operations,
Completions and Production:
Pinson McWhorter, Operations Manager
Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210
Phone (505) 748-1471

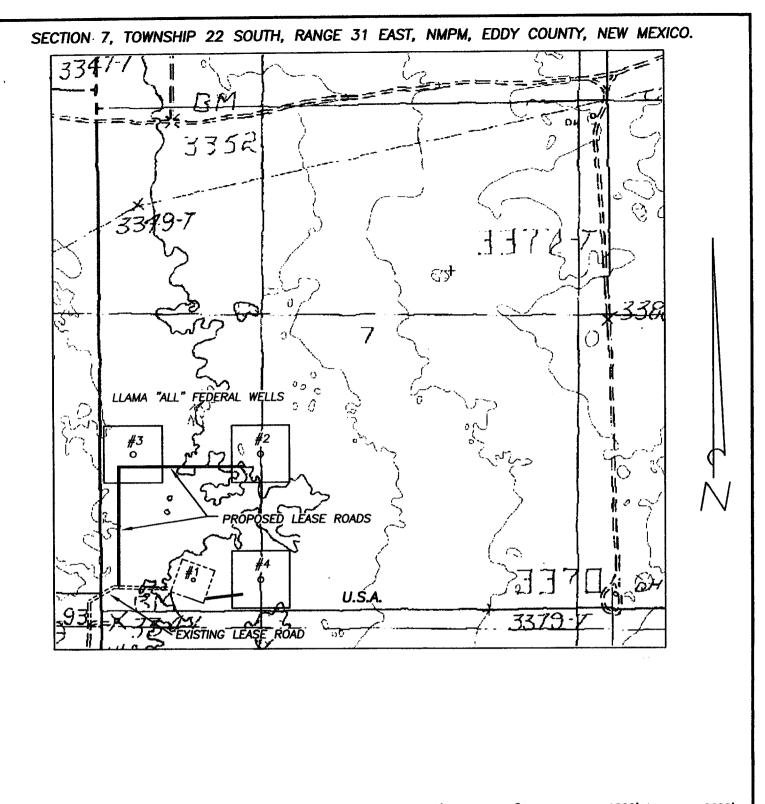
14. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and , that the work associated with the operations proposed herein will be performed by Yates Petroleum Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

6/4/04

Regulatory Agent





THE PREPARATION OF THIS PLAT AND THE PERFORMANCE OF THE SURVEY UPON WHECH IT IS BASED WERE BONE UNDER MY DIRECTION AND THE PLAT ACCURATELY DEPICTS HE RESULTS OF AND SURVEY AND MET THE REQUIREMENTS OF THE STRENGTH SOND SURVEYS IN NEW MEXICO AS ADDIFIED BY THE MEN MEXICO SINCE SOUTH REGISTRATION FOR PROFESSIONAL PREPARE SINCE SINCE SOUTH REGISTRATION FOR PROFESSIONAL PREPARE SINCE SI

GENERAL SURVEYING GOMPANY P.O. BOX 1928 LOVINGTON, OFESSIONAL NEW MEXICO 88260

 Survey Date: 4/01/2004
 Sheet 1 of 1 Sheets

 Drawn By: Ed Blevins
 W.O. Number

 Date: 4/01/04
 Scale 1" = 1000' LLAMA 2,3,4

BLM Lease Number: NM-81952

Well Name & Number: Llama ALL Federal #4

Location: 330 FSL & 1650 FWL, Sec. 7, T. 22S., R. 31E.

Operator: Yates Petroleum Corporation

SPECIAL CONDITION OF APPROVAL

Your proposed well location falls within 330 feet of the Department of Energy's (DOE) Waste Isolation Pilot Plant (WIPP) boundary.

In accordance with 43 CFR 3162.4-2 and pursuant to a Memorandum of Understanding (MOU) between BLM & DOE, the operator is required to submit daily drilling reports (including borehole deviation survey results) by facsimile to Mr. Gene Valett of DOE's WIPP Office [FAX #: (505) 234-7113; Phone #: (505) 234-7553] and Mr. Harold Johnson DOE's WIPP Office [FAX #: (505) 234-7061; Phone #: (505) 234-7349].

The operator is also required to perform a directional survey to establish bottomhole location on wells that experience deviation averages of more than five degrees from vertical in any 500-foot interval.

CONDITIONS OF APPROVAL - DRILLING

Operator's Name:

Yates Petroleum Corporation

Well Name & No.

Llama ALL Federal #4

Location:

330' FSL, 1650' FWL, Section 7, T. 22 S., R. 11 E., Eddy County, New Mexico

Lease: NM-81952

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I. DRILLING OPERATIONS REQUIREMENTS:

- 1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County in sufficient time for a representative to witness:
 - A. Well spud
 - B. Cementing casing: <u>13-3/8</u> inch <u>8-5/8</u> inch <u>5-1/2</u> inch
 - C. BOP tests
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 3. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15-day time frame.
- 4. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.
- 5. Gamma-Ray/Neutron logs shall be run from the base of the Salado formation to the surface; cable speed not to exceed 30 feet per minute.

II. CASING:

- 1. The 13-3/8 inch surface casing shall be set at approximately 510 feet or 25 feet into the top of the Rustler Anhydrite and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.
- 2. The minimum required fill of cement behind the <u>8-5/8</u> inch intermediate casing is <u>to be circulated to the surface</u>.
- 3. The minimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>to be circulated to the surface</u>.

III. PRESSURE CONTROL:

- 1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the <u>13-3/8</u> inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be **2000** psi. Testing to 1000 psi with rig pumps is approved.
- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.

- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.

6/8/04 acs