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

Form 3160-3 (August 1999) Artesia, NM 88210

UNITED STATES

OMB No. 1004-0136 Expires November 30, 2000

DEPARTMENT OF THE	INTERIOR	REC	CEIVED	5. Lease Serial No.		
BUREAU OF LAND MANAGEMENT SEP ~ 9 2005				NMNM82904		
APPLICATION FOR PERMIT TO		6. If Indian, Allottee or Tribe Name				
APPLICATION FOR PERMIT TO		/FFIAI FÉLICIE	MINTERIA		pplicable	
1a. Type of Work: X DRILL R	EENTER	A TO SZZZ DO	rash	7. If Unit or CA Agr	reement, Name and No.	
	SECREI	'ARY'S PO	1110-	1	1974	
				8. Lease Name and	Well No. 11974	
b. Type of Well: Oil Well Gas Other Well	لعا	Single Zone	Multiple Zone		LN Fedéral 14	
2. Name of Operator	20	575		9. API Well No.	- 7 7	
Yates Petroleum Corporation				30-015-34335		
3A. Address 105 South Fourth Street	3b. Phone N	No. (include area cod	•	10. Field and Pool, or Exploratory		
Artesia, New Mexico 88210		(505) 748-147	71		Deleware South	
4. Location of Well (Report location clearly and in accordance with a	any State requir	ements.*)			or Blk, and Survey or Area	
At surface SESW 330 FSL	2310 FWL	, Unit N		Sec 6 T24S R31E Mer NMP		
	e as above			SME: BLM		
14. Distance in miles and direction from nearest town or post office*				12. County or Parish		
Approximately 24 miles NE of Loving NM				EDDY	New Mexico	
15. Distance from proposed* location to nearest	16. No. of	Acres in lease	17. Spacing Ur	nit dedicated to this wel	1	
property or lease line, fl. (Also to nearest drig. unit line, if any)		688.29		40.00		
18. Distance from proposed location* to nearest well, drilling, completed,	19. Propos	19. Proposed Depth		20. BLM/BIA Bond No. on file		
applied for, on this lease, ft.	8	200 MD		NM-2811	i	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	22. Approximate date work will start*		23. Estimated duration		
3459 GL						
	24. At	24. Attachments CARLSBAD CONTROLLED WATER BASIN				
The following, completed in accordance with the requirements of Onsl	nore Oil and Ga	s Order No. 1, shall b	e attached to this	form:		
1. Well plat certified by a registered surveyor.		4. Bond to cove	er the operations	unless covered by an e	existing bond on file (see	
2. A Drilling Plan.		Item 20 abov	-	•	`	
3. A Surface Use Plan (if the location is on National Forest System La	nds, the	the 5. Operator certification.				
SUPO shall be filed with the appropriate Forest Service Office.		1		nation and/or plans as m	nay be required by the	
,		authorized of	=			
25. Signature	Na	me (Printed/Typed)	- · · · · · · · · · · · · · · · · · · ·		Date	
Dollie S. Callack	De	ebbie L. Caffall			7/14/2005	
Title: $\mathcal{V}\mathcal{U}$						
Regulatory Technician/Land Department						
Approved by (Signature)	Na	me (Printed/Typed)			Date	
B/ Janice L. Camby		Janus	ul. (a	andor	AUG 26 2005	
ACTING STATE DIRECTOR	loti	ice	NM STA	TE OFFICE		
Application approval does not warrant or certify that the applicant hole	ds legal or equit	able title to those righ	nts in the subject	lease which would entit	tle the applicant to conduct	
operations thereon.		Ü				
Conditions of approval, if any, are attached.			APPRO	VAL FOR 1	YEAR	

*(Instructions on reverse)

Previously Approved

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

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

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

WITNESS 133/8" Coment Job

Adl

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

District II 811 South First, Artesia, NM 88210

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Submit to Appropriate District Office

1900 Rio Brazos Rd., Aztec. NM 87410

Santa Fe, NM 87505

State Lease - 4 Copies

District IV

District III

Fee Lease - 3 Copies

1220 S. St. Francis	Dr., Santa F			•					MENDED REPOR
		V	ELL LO	OCATIO	N AND ACR	EAGE DEDIC	ATION PLA	<u>r</u>	
1	API Number	•		Pool Code	_	, 0	Pool Na	 -)
⁴ Property (Code			5381	5 Property	and Dire	sj Dala u	7700	Well Number
•			ADELINE ALN FEDERAL						14
OGRID!	Va.		7		⁸ Operator	Name			* Elevation
02557	5	Yates Petroleum Corporation 3459					3459'		
٠					¹⁰ Surface	Location			
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
N	6	245	31E					Eddy	
			¹¹ B	ottom Ho	ole Location l	f Different From	n Surface		
UL or lot no.	Section	Township	Range	· Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
¹³ Dedicated Acres 40	²⁵ Joint e	rinfill ^M C	ensolidation	Code Is On	rder No.	<u> </u>		L.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·

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** hereby certify that the information contained herein is Regulatory Agent 6/11/2003 18SURVEYOR CERTIFICATION hereby certify that the well location shown on this plat as plotted from field notes of actual surveys made by e or under my supervision, and that the same is true and correct to the best of my belief. REFER TO ORIGINAL PLAT Date of Survey Signature and Seat of Professional Surveyor. NM-82904 2310 Certificate Number

STRUCT II DISTRICT III 1000 Mie Brance Md.; Auton, 10f 87410 DISTRICT IV

- 2310'-

State of New Mexico

Form C-102 d March 17, 1999 State Lease — 4 Copies Fee Lease — 3 Copies

OIL CONSERVATION DIVISION P.O. Box 2088

STRICT IV 10 South Paches	oo, Santa Pe	, HIL 87505	•	Santa F		Box 2 Mexic	088 o 87504-2088		D AMENDED	REPORT
	·	1	WELL LO	CATION	AND	ACREA	GE DEDICATION	ON PLAT	, 	
API	Number			Pool Code		1	· · · · · · · · · · · · · · · · · · ·	Pool Name		
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Property (Code	1			_	erty Ran			Well M	mper
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6 or lot No.	Section	Township	Range	lot ldn		ome the	North/South Has	Fest from the	East/West line	County
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L or lot No.	Section	Township	Phonge	Let Ma		om the	North/South Hos	Feet from the	East/Vest Hos	County
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Dedicated Acre	-1	1 -	L	<u> </u>	der No.	-	<u> </u>	<u> </u>	<u> </u>	<u> </u>
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								- Signature A	CANA CO.	
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YATES PETROLEUM CORPORATION Adeline "ALN" Federal #14

330' FSL & 2310' FWL Sec. 6-T24S-R31-E Eddy County, New Mexico

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

Rustler	580'
Top of Salt	950'
Base of Salt	3950'
Bell Canyon	4178'
Cherry Canyon	5200'
Brushy Canyon	6840'
Bone Spring Lime	8050'
TD .	8200'

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

Water:

Approx 150'

Oil or Gas:

Canyon 5182' and Bone Spring 8032'

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.
- THE PROPOSED CASING AND CEMENTING PROGRAM:
 - A. Casing Program: (All New)

<u>Hole Size</u>	Casing Size	Wt./Ft	<u>Grade</u>	Coupling	Interval	Length
17 1/2"	13 3/8"	48#	H-40	ST&C	0-890'	890'
11"	8 5/8"	32#	J-55	ST&C	0-4100'	4100'
7 7/8"	5 1/2"	17#	J-55	LT&C	0-100'	100'
7 7/8"	5 1/2"	17#	L-80	LT&C	100'-6900'	6800'
7 7/8"	5 1/2"	17#	J-55	LT&C	6900'-8200'	1300'

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

Adeline "ALN" Federal #14 Page 2

B. **CEMENTING PROGRAM:**

Surface casing: 250 sx Lite (YLD 1.96 WT.12.5) Tail in w/ 200 sx Class "C" + 2% CaCl2 WITNESS (YLD 1.34 WT 14.8). WITNESS

Intermediate Casing: 1150 sx Lite (YLD 2.5 WT 11.9); Tail in w/ 250 sx "C" w/ 2% CaCl2

(YLD 1.34 WT. 14.8)

Production Casing: Circulate cement to the surface.

Stage I; 250 sx Super "H" (YLD 1.67 WT. 13.0).

Stage II: Lead w/200 sx Lite (YLD 2.0 WT 12.0) Tail in w/ 200 sx

Super "H" (Yld 1.67 Wt 13.0). DV tool at 6500'.

5. Mud Program and Auxiliary Equipment:

<u>Interval</u>	Type	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0-890'	FW/Native Mud	8.6-9.2	28-36	N/C
890'-4100'	Brine	10.0-10.2	28	N/C
4100'-6500'	Cut Brine	8.6-9.1	28	N/C
6500'-8200 '	Cut Brine/Starch	8.6-9.1	28-32	<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: CNL/LDT TD to casing; GR w/CNL to Surface; DLL x/RXO TD to casing.

Coring: None Anticipated. DST's: As warranted.

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

Anticipated BHP:

From: 0 TO: 750' Anticipated Max. BHP: 300 **PSI** From: 750' 4100" TO: Anticipated Max. BHP: 1790 PSI 4100' TO: From: 8200' Anticipated Max. BHP: 4740 PSI

No abnormal pressures or temperatures are anticipated.

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: None

Maximum Bottom Hole Temperature: 198 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.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN Yates Petroleum Corporation

Adeline "ALN" Federal #14 330' FSL & 2310' FWL Sec. 6-T24S-R31-E 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.

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 24 miles northwest 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 12 miles to County Road 787 (Twin Wells Road). Turn south and go approximately 4 miles. The new road will start here going west to the well location.

PLANNED ACCESS ROAD.

- A. The proposed new access will be approximately 0.2 of a mile in length from the point of origin to the northeast corner of the drilling pad. The road will lie in an east to west 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.

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.

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



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SECRETARY
DENNIS G. KINSEY
TREASURER

S. P. YATES

105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (505) 748-1471

July 14, 2005

Attention: Mr. Dan Morehouse, Chief Mining Engineer Mosaic Potash Carlsbad Inc. P.O. Box 71 Carlsbad, New Mexico 88221-0071

RE:

Adeline ALN Federal #14

Section 6: Township 24 South, Range 31 East

330' FSL and 2310' FWL Eddy County, New Mexico

Dear Mr. Morehouse:

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 8,200' or 100' below the base of the Delaware 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.

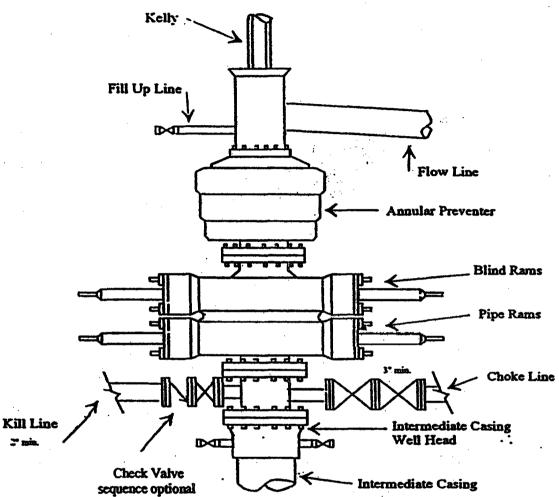
Your favorable consideration of this request will be greatly appreciated. Thank you.

Very truly yours,	
YATES PETROLEUM CORPORATION	
Cy Cowan Covan	
Regulatory Agent	
□ NO OBJECTION OFFERED	☐ OBJECTION OFFERED
Mosaic Potash Carlsbad Inc.	Mosaic Potash Carlsbad Inc.
By:	By:
Title:	Title:
Date:	Date:

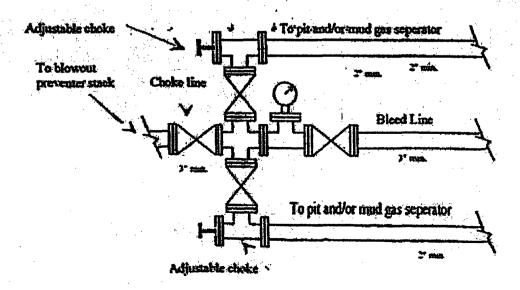


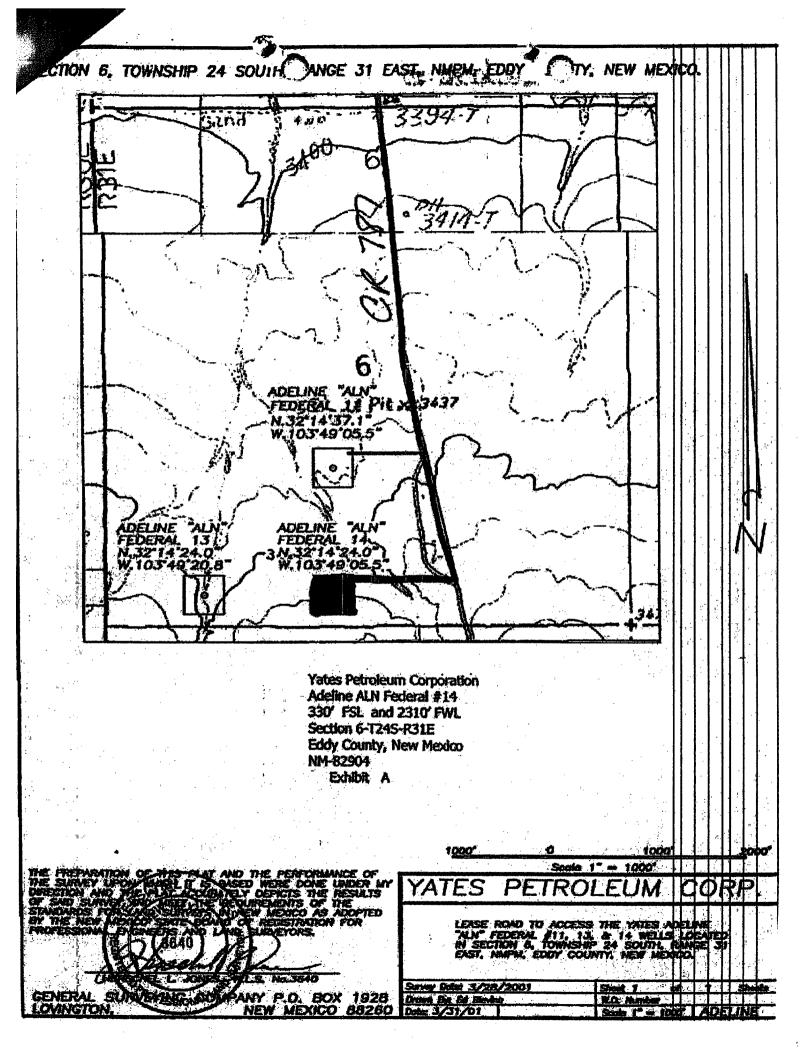


Typical 3.000 psi Pressure System Schematic Annular with Double Ram Preventer Stack



Typical 3,000 psi choke manifold assembly with at least these minimum features





CONDITIONS OF APPROVAL - DRILLING

Operator's Name:

YATES PETROLEUM CORPORATION

Well Name & No.

14 - ADELINE ALN FEDERAL

Location: Lease: 330 FSL & 2310' FWL - SEC 6 - T24S - R31E - EDDY COUNTY

NM-82904

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Roswell Field Office, 2909 West Second St., Roswell NM 88201, (505) 627-0272 for wells in Chaves and Roosevelt Counties; the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 234-5909 or (505) 361-2822 (After hours) - for wells in Eddy County; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

......

- A. Spudding
- B. Cementing casing: 13-3/8 inch 8-5/8 inch 5-1/2 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.

II. CASING:

- 1. The <u>13-3/8</u> inch surface casing shall be set <u>at a minimum of 890 feet</u>, below usable water 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 salt protection casing is <u>circulate cement to the surface.</u>
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is cement shall extend upward a minimum of 500 feet above the uppermost hydrocarbon bearing interval.

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 **13-3/8** 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) required for drilling the surface and intermediate casing shall be **2000** psi. Minimum working pressure of the blowout preventer and related equipment (BOPE) required for drilling below the **8-5/8** inch intermediate casing shall be **3000** psi.
- 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.