Resubmittel

N.M. Oil Cons. DIV-Dist. 2

1301 W. Grand Avenue

Form 3160-3 (August 1999) RECEIVED

Artesia, NM 88210

OMB No. 1004-0136 Expires November 30, 2000

SEP 1 4 2005

OCD-ADEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

5. Lease Serial No. NM-045276

DOLICATION FOR REDMIT TO DOLL OR RECNTER	6. If Indian, Allottee or Ti

APPLICATION FOR PERMIT TO D	RILL OR REENTER		6. If indian, Affortee of 1	noe Name
1a. Type of Work: X DRILL RE	ENTER		7. If Unit or CA Agreeme	ent, Name and No.
_			1734	9
	— —		8. Lease Name and Well	No. 17340
b. Type of Well: Oil Well Gas Other Well	Single Zone	Multiple Zone	Diamond AKI F	ederal #5
2. Name of Operator			9. API Well No.	
Yates Petroleum Corporation 253	<u> </u>		30-015-	32990
3A. Address 105 South Fourth Street	3b. Phone No. (include area code	e)	10. Field and Pool, or Ex	oloratory
Artesia, New Mexico 88210	(505) 748-147	1 √ N Ωe 3		
4. Location of Well (Report location clearly and in accordance with an	y State requirements.*)		11. Sec., T., R., M., or Bl	k, and Survey or Area
At surface 990' FNL and 6	660' FWL, Unit D			
At proposed prod. Zone	ame		Section 34, T20	S-R24E
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State
Approximately 30 miles SW of Artesia, New Mexic	ю.		Eddy County	NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of Acres in lease	17. Spacing Ur	it dedicated to this well	
• • •	2189.42	20 2114211	320 acres, W/2	2
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 3000'	19. Proposed Depth 20. BLM/BIA Bond No. on file NM-2811			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will	start*	23. Estimated duration	
3751'	ASAP		30 da	iys
	24. Attachments	Carlsbad Co	ntrolled Water Beel	79
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 existing	ng bond on file (see
2. A Drilling Plan.	Item 20 abov	re).		
3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification.				
SUPO shall be filed with the appropriate Forest Service Office).	6. Such other sit authorized of	-	ation and/or plans as may be	e required by the
26. Signature	Name (Printed/Typed)	7.700	Date	
Occiled. La videle M	Debbie L. Caffall	 ,	ļ	8/9/2005
Regulatory Technician/Land Department				
Approved by (Signature) /S/ Joe G. Lara	Name (Printed/Typed)	/s/ Joe G.	Lara	SEP - 9 2005

/s/ Joe G. Lara /s/ Joe G. Lara

Office

CARLSBAD FIELD OFFICE

Application approval 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.

Conditions of approval, if any, are attached.

CTINGFIELD MANAGER

APPROVAL FOR 1 YEAR

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.

*(Instructions on reverse)

Previously Approved

C-144 attached

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPLILATIONS ATTACHED

WITNESS 958" CEMENT JUS

1625 N. French Dr., Hobbs, NM 88240

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Line gy, 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

District III

Santa Fe, NM 87505

State Lease - 4 Copies
Fee Lease - 3 Copies

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

AMENDED REPORT

1 /	Pl Number			² Pool Code		ACREAGE DEDICATION PLAT Pool Name			
			1		<u> </u>		Wildcat M	опож	
⁴ Property C	ode				⁵ Property !	Property Name			
					DIAMOND AK	I FEDERAL		l	, 5
OGRID N	io	···		-	⁶ Operator l	Name			, Elevation
02557	5	Yates Petro			es Petroleum	roleum Corporation 3751'			
				,	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
D	34	20\$	24E		990	North	660	West	Eddy
			¹¹ B	ottom Ho	ole Location I	f Different From	n Surface		
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 320	¹³ Joint o	r Infill ¹⁴ C	ensolidation	Code 15 O	rder No.				

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 8 660 Cy Cowen Regulatory Agent 8/5/2003 NM-045276 18SURVEYOR CERTIFICATION I hereby certify that the well location shown on this pla 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. REFER TO ORIGINAL PLAT Date of Survey Signature and Seal of Professional Surveyor. Certificate Number

District 1 1825 N. French Dr., Hobbs, NM 88240

District II .

811 South First, Artesia, NM 88210

District III 1900 Rio Brazos Rd., Aziec, NM 87410

2049 South Pacheco, Santa Fe, NM 87505

District IV

State of New Mexico Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

Form C-102 Revised March 17, 1999

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

	AMENDED REPORT
ELL LOCATION AND ACREAGE DEDICATION PLAT	

API Number		Pool Code	Pool Name		
			Wildcat Morrow		
Property Code		77	operty Name		Well Number
	DIAMO	OND AKI FEDERAL	·	··	5
OGRID No.		¹ O _I	perator Name		Elevation
025575	YATE	S PETROLEUM CORPO	RATION	:	3751.
		10			

Surface Location UL or lot no. Feet from the East/West Une EDDY D 34 20-S 24-B 990 NORTH 660 WEST

11 Bottom Hole Location If Different From Surface Feet from the North/South Bo Peet from the East/West Ha Dedicated Acres Joint or Infill Consolidation Code Order No. 320.00

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL AL INTERESTS HAVE BEEN CONSOLIDATED OR A

`	NON-STANE	DARD UNIT HAS BEE	N APPROVED BY TI	HE DIVISION
16	and the second second second second	,		"OPERATOR CERTIFICATION
				I hereby certify that the information contained herein is true and
Q		,		complete to the best of my knowledge and belief
066				<u>_</u>
660'				
		· •		Co Comou
NM-0425	76		:	Signature CV Cowan
10111010	<i>/</i> S			Drinand Name
·			,	Regulatory Agent
				Title July 19, 2001
			·	Date
				"SURVEYOR CERTIFICATION
	·			I hereby certify that the well location shown on this plat was
				ploned from field notes of actual surveys made by me
				or under my supervision, and that the same is true and correct
Samuel	·		•	to the best of my belief.
Diamond AKI 0 16042				лих 2 <u>2</u> 2001
0 7ED\$2				
				Date of Supply N. R. R. E.D. Separate and Control of Co
•			·	MEN MENO
			*	
				REG (5412) 54
ł				AND SOLVE
			1	Central NO. RESELS NO. 54AZ
	,			**OFESSION

YATES PETROLEUM CORPORATION Diamond AKI Federal #5

990' FNL & 660' FWL Sec. 34-T20S-R24E Eddy County, New Mexico

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

San Andres	570'	Canyon Dolomite	7670'
Glorietta	2060'	Strawn	8200'
Bone Spring	3580'	Atoka	8820'
Wolfcamp	5640'	Morrow	8990'
Cisco Canyon	7520'	TD	9500'

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

Water:

Approx 200' - 300'

Oil or Gas: All Potential Zones

3. Pressure Control Equipment: BOPE will be installed on the 9 5/8" 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)

Hole Size	Casing Size	Wt./Ft	<u>Grade</u>	<u>Thread</u>	<u>Interval</u>	Length
14 ¾"	9 5/8"	36#	J-55	ST&C	0-1100'	1100'
8 3/4"	7"	26#	J-55	LT&C	0-400'	400'
8 3/4"	7"	23#	J-55	LT&C	400'-5200'	4800'
8 3/4"	7"	26#	J-55	LT&C	5200'-7300'	2100'
8 3/4"	7"	26#	N-80	LT&C	7300'-9500'	2200'

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

Diamond AKI Federal #5 Page 2

B. CEMENTING PROGRAM:

Surface casing: 200 sx Thixad + 1% CaCl2 + 10#/sx Gilsonite+ 1/4# Celloflake (YLD 1.52, WT 14.6). 800 sx Lite "C" (YLD 2.0, WT 12.5). Tail in w/200 sx C+2% CaCl2 (YLD 1.34, WT 14.8).

Production Casing: Lead w/750 sx Lite "H" (YLD 1.99, WT 12.4). Tail in w/400 sx super 'C' modified. (YLD 1.57, WT 13).

5. Mud Program and Auxiliary Equipment:

<u>Interval</u>	<u>Type</u>	Weight	Viscosity	Fluid Loss
Spud to 1100'	FW Gel/LCM	8.3-8.6	30	N/C
1100'-5200'	FW	8.3-8.6	28	N/C
5200'-7400'	Cut Brine	9.0-9.2	29	N/C
7400'-8000'	Cut Brine/Starch	9.0-9.3	30-34	N/C
8000'-9500'	Salt Gel/Starch	9.3-9.8	32-36	<10cc

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 from 3500' to TD.

Logging: Platform Express, Possible FMS, Rotary Sidewall cores.

Coring: AS warranted.

DST's: As warranted, possible in Morrow.

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

From: O TO: 1100' Anticipated Max. BHP: 500 PSI From: 1100' TO: 9500' Anticipated Max. BHP: 4700' PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: None

Maximum Bottom Hole Temperature: 165° 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 10 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN Yates Petroleum Corporation Diamond AKI Federal #5

990' FNL & 660' FWL Sec. 34-T20S-R24E 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 30 miles southwest of Artesia, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go south of Artesia on Highway 285 to Rock Daisy Road. Turn west for approx. 8.5 miles then turn south and go approx. 3.6 miles on Sawbuck Road. Go south on caliche road for approx. 2 miles, turn west and go approx. 1 mile, turn northwest on two-track road for approx. 0.5 of a mile. The new road will start here.

PLANNED ACCESS ROAD.

- A. The proposed new access will be approximately 200 feet in length from the point of origin to the southwest corner of the drilling pad. The road will lie in a southeast northwest 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 turnout may be built.
- D. The route of the road is visible.
- E. Existing roads will be maintained in the same or better condition.

3. 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.

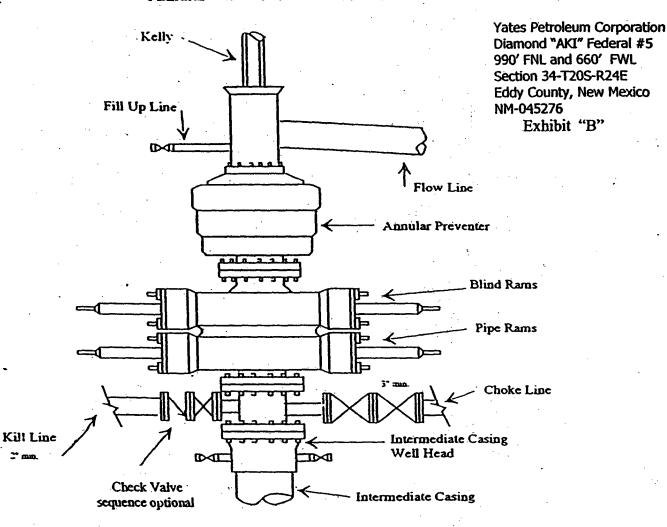
4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- 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.

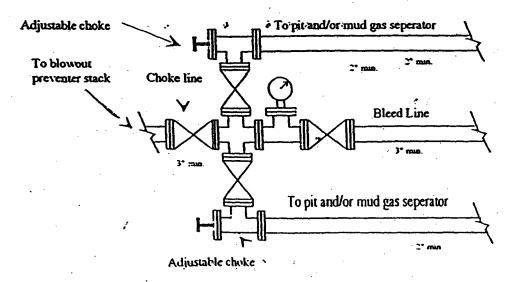




Typical 3,000 psi Pressure System
Schematic
Annular with Double Ram Preventer Stack



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



CONDITIONS OF APPROVAL - DRILLING

Operator's Name:

YATES PETROLEUM CORPORATION

Well Name & No.

5 - DIAMOND AKI FEDERAL

Location:

990' FNL & 660' FWL - SEC 34 - T20S - R24E - EDDY COUNTY

Lease:

NM-045276

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: 9-5/8 inch 7 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>9-5/8</u> inch surface casing shall be set at <u>1100 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 _7_ inch production casing is <u>cement shall extend</u> 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 <u>9-5/8</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) is 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.
- BOPE must be tested prior to drilling into the Wolfcamp Formation by an independent service company.

IV. DRILLING MUD:

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** Formation, and shall be used until production casing is run and cemented. Monitoring equipment shall consist of the following:

- 1. Recording pit level indicator to indicate volume gains and losses.
- 2. Mud measuring device for accurately determining the mud volumes necessary to fill the hole during trips.
- 3. Flow-sensor on the flow line to warn of abnormal mud returns from the well.