Form 3160-3 (July 1:592)	DEPARTMEN BUREAU OF	LAND MANA	S INTE GEME	NT 8-7	1993 reyerse si 8/97 - 97	PLICATE	5. LEASE DESIGNATION AND SERIAL NO. NM-045276		
APPL	ICATION FOR P	ERMIT TO	DRIL	L OR DE	EPEN		6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
b. TYPE OF WELL OIL G WELL Z W 2. NAME OF OPERATOR	ILL X	DEEPEN	2 2		7 8 9 70	- <u> </u>	7. UNIT AGREEMENT NAME 3.51 8. FARM OR LEASE NAME, WELL NO Preston Federal 35N Com #23 2//05 9. AM WELL NO.		
3. ADDRESS AND TELEPHONE NO.		~~~~~			<u>- ARTES</u>	16	30-015-29959		
105 South Fou	rth Street, Art	esia, New M	lexic	o 88120 (505) 74	18-1494	10. FIELD AND POOL, OR WILDCAT		
are surface	eport location clearly and	in accordance wi	th any	State requireme	nts.*)	. St. S	Dagger Draw Upper Penn, South		
2230' FNL and		ITE		58.35	028226	Vil V	11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zon Same	le						Section 35, T20S-R24E		
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFIC	· •			12. COUNTY OF PARISH 13. STATE		
Approximately	33 miles south	west of Loo				.	Eddy County New Mexico		
IS. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE I	r		16. N	O. OF ACERS IN	LEASE		OF ACEES ASSIGNED THIS WELL		
(Also to nearest drig 18. DISTANCE FROM FROF	, unit line, if any)	660'	19 P	ROPOSED DEPTH		00 5050	320		
TO NEAREST WELL, D or applied for, on th	RILLING, COMPLETED.					_	RY OB CABLE TOOLS		
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)	NAR THE TOP			1	1.0	22. APPROX. DATE WORK WILL START*		
3680' GR				· · · · · · · · · · · · · · · · · · ·		BASIN	ASAP		
23. 		PROPOSED CASI	NG AN	D CEMENTING	PROGRAM	[
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	DOT	SETTING D			QUANTITY OF CEMENT		
14 3/4"	9 5/8"	36#		1150		TNESS	900 sx circulated		
8 3/4"	7"	23# & 26#		8200			1300 sx as warranted		
Yates Petroleum Corporation proposes to drill and test the Canyon and intermediate formations. Approximately 1150' of surface casing will be set and cement circulated to shut off gravel and cavings. If commercial, production casing will be run and cemented, will perforate and stimulate as needed for production.									
MUD PROGRAM:	0-1150' FW Gel 7200' to 8200'	/LCM; 1150' Cut Brine/	to KCL/	5200' FW; Starch.	5200 '	to 720	0' Cut Brine/KCL;		
BOPE PROGRAM:	BOPE will be APPROVAL SUI GENERAL REQ SPECIAL STIPL ATTACHED	BJECT TO UIREMENTS JLATIONS	AND				ROSWELL		
deepen directionally, give pertin	ent data on subsurface location	s and measured and tr	le vertica	al depths. Give blo	wout prevent	er program, if	new productive zone of property is to drill or any.		
signed Koin	Bearden		т.	andman			DATE August 5, 1997		

(This space for Federal or State office use)

PERMIT NO. ____

APPROVAL DATE

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:

APPROVED ORIG. SGD.) CONT & PERGUS	ADM, MINERALS	
APPROVED EVILLO. JOUR	TITLE	DATE _ 12/5-197

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes 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 united state.

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztee, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088

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State of New Mexico Energy, Miserals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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YATES PETROLEUM CORPORATION								3680.			
		L			10 Sur	ace	Location				
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			¹¹ Bot	tom Hole	e Locati	on Ii	f Different Fro	m Surface			
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YATES PETROLEUM CORPORATION PRESTON FEDERAL 35N COM #23 2230' FSL and 1980' FWL Section 35, T20S-R24E Eddy County, New Mexico

H2S Drilling Operations Plan

Personnel employed at the rig site shall receive training in H2S detection, safe drilling procedures and contingency plans. H2S safety equipment shall be installed and functional 3 days or 500 feet prior to encountering known or probable H2S zone at 3200' feet.

Submitted with the APD is a well site diagram showing:

- 1) Drilling rig orientation, location of flare pit.
- 2) Prevailing wind direction.
- 3) Location of access road.

Primary briefing area will be established 150' from wellbore and up wind of prevailing wind direction. Secondary briefing area will be established 180 degrees from primary briefing area.

A H2S warning sign will be posted at the entrance of the location. Depending on conditions, a green, yellow, or red flag will be displayed.

Green - Normal conditions

Yellow - Potential danger

Red - Danger H2S present

Wind indicators will be placed on location at strategic, highly visible areas. H2S monitors (a minimum of three) will be positioned on location for best coverage and response. H2S concentrations of 10 ppm will trigger a flashing light and 20 ppm will trigger an audible siren.

H2S breathing equipment will consist of:

- 1) 30 minute "pressure demand" type working unit for each member of rig crew on location.
- 2) 5 minute escape packs for each crew member.
- 3) Trailer with a "cascade air system: to facilitate working in a H2S environment for time period greater than 30 minutes.

PRESTON FEDERAL 35N COM #23 Page 2

Breathing equipment will be stored in weather proof cases or facilities. They will be inspected and maintained weekly.

The mud system will be designed to minimize or eliminate the escape of H2S at the rig floor. This will be accomplished through the use of proper mud weight, proper ph control of the drilling fluid and the use of H2S scavengers in the drilling fluid. A mud gas separator will be utilized when H2S has is present in the mud.

Drilling experience has shown that wells in developmental areas, (i.e. Dagger Draw, Livingston Ridge Delaware, and Lusk Delaware) are normally pressured and don't experience either H2S kicks or loss of returns. Due to these circumstances, we request exceptions to the rule requiring flare line with remote lighter and choke manifold with minimum of one remote choke. This equipment would be provided on exploratory wells or wells with the known potential for H2S kicks. Additionally, a SO2 monitor would be positioned near the flare line, and a rotating head utilized.

The drill string, casing, tubing, wellhead, blowout preventers and associated lines and valves will be suitable for anticipated H2S encounters.

Radio and or mobile telephone communication will be available on site. Mobile telephone communication will be available in company vehicles.

Drill stem testing to be performed with a minimum number of essential people on location. They will be those necessary to safely conduct the test. If H2S is encountered during a drill stem test, essential personnel will mask up and determine H2S concentration. The recovery will then be reversed to flare pit. Pulling of test tools will be conducted in a safe manner.

YATES PETROLEUM CORPORATION Preston Federal 35N Com. #23 2230' FNL and 1980' FWL Sec.35,-T20S-R24E Eddy County, New Mexico

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

San Andres	600'
Glorietta	2100'
Bone Spring	3500'
Wolfcamp	5950′
Canyon	7450′
TD	8200′

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

Water: 250'-350' 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)

<u>Hole Size</u>	Casing Size	<u>Wt./Ft</u>	<u>Grade</u>	<u>Coupling</u>	Interval
14 3/4″ 8 3/4″	9 5/8" 7″	36# 23# 26#	J-55 J-55	ST&C LT&C	0-1150' 0- 8200 ' 400'
8 3/4″	7" 국"	26# 23# 26#	N 80 J-55 J-55		$\frac{7450'-8200}{5900}$,400-5700'
um Casina E	Design Easteret		N-80	LIEU	7900-8200

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

B. CEMENTING PROGRAM:

Surface casing: 700 sx H, 12% Thicksad, 10# Gilsonite, 1/2# Celloseal, 2% CaCl2. tail with 200 sx C, 2% CaCl2.

Production Casing: 500 sx H, 5# CSE, 5# Gilsonite, 1/4# Celloseal.

2nd Stage: 750 sx Lite, 5# Salt, 5# Gilsonite, 1/4# Celloseal. Tail with 100 sx H.

Preston Federal 35N Com. 23 Page 2

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-1150′	FW Gel/LCM	8.3 - 8.6	30	N/C
1150' -5200'	FW	8.3 - 8.6	28	N/C
5200'-7200'	Cut Brine/KCL	9.0 - 9.2	29	N/C
7200'-8200' 0	Cut Brine/KCL/Starch	9.2 - 9.0	30 - 34	10cc or less

1

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, DLL w/RXO. Coring: None DST's: As warranted.

7. ABNORMAL CONDITIONS, BOTTOM HOLE PRESSURE, AND POTENTIAL HAZARDS:

Anticip	bated BHP:		
From:	0	TO:	1150'
From:	1100'	TO:	8200'

Anticipated Max. BHP: 450 PSI Anticipated Max. BHP: 3000 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: Canyon.

Maximum Bottom Hole Temperature: 142 F

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 25 days to drill the well with completion taking another 20 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN Yates Petroleum Corporation Preston Federal 35N Com. #23 2230' FNL AND 1980' FWL Sec. 35, T20S-R24E Eddy County, New Mexico

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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 33 miles South west 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 approximately 8.5 miles then turn south and go approximately 3.6 miles on Sawbuck Road. Go south on caliche road for approximately 3 miles. Turn east for 1/10th of a mile to the location.

- 2. PLANNED ACCESS ROAD:
 - A. No new road needed.
- 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.
- 5. LOCATION AND TYPE OF WATER SUPPLY:
 - A. It is planned to drill the proposed well with a fresh water system. The 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 material needed for construction.

Preston Federal 35N Com. #23 Page 2

7. 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.
 - C. A 400' x 400' 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.
- 11. SURFACE OWNERSHIP: 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.

Preston Federal 35N Com. #23 Page 3

13. OPERATOR'S REPRESENTATIVE:

A. Through A.P.D. Approval:

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

> Brian Collins, 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.

8/5/97



YATES PETROLEUM CORPORATION

Yates Petroleum Corporation 105 SOUTH 4th STREET ARTESIA, NEW MEXICO 88210



typical choke manifold assumby for 34 rated working pressure service-surface installation

EXHIBIT B

THE FOLLOWING CONSTITUES THE MINIMUM BLOWOUT PREVENTER REQUIREMENTS FOR 3000 PSI WP SYSTEMS

- All preventers to be hydraulically operated with secondary manual controls installed prior to drilling out from under casing.
- 2. Choke outlet to be a minimum of 3" diameter.
- 3. Kill line to be of all steel construction of 3" minimum diameter.
- 4. All connections from operating manifolds to preventers to be all steel. Hole or tube to be a minimum of one inch in diameter.
- 5. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate the B.O.P.'s.
- 6. All connections to and from preventer to have a pressure rating equivalent to that of the B.O.P.'s.
- 7. Inside blowout preventer to be available on rig floor.
- 8. Operating controls to be located a safe distance from the rig floor.
- 9. Hole must be kept filled on trips below intermediate casing.

YATES PTROLEUM COR DRATION

Yates Petroleum Corporation 105 SOUTH 4th STREET ARTESIA, NEW MEXICO 88210

Preston Federal 35N Com. #23 2230' FNL and 1980' FWL Section 35, T20S-R24E Eddy County, New Mexico NM-045276



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