New Mexico G	li Cava					
(August 1999) UNITED STATE DEPARTMENT OF THE	1025 N. French Kluder				4-0136 r 30, 2000	
APPLICATION FOR PERMIT TO D	RILL OR RE	ENTER		6. If Indian, Allottee or Tri	be Name	
1a. Type of Work: X DRILL RE	EENTER			7. If Unit or CA Agreemen Not Applic	t, Name and No.	
b. Type of Well: Y Oil Well Gas Other Well		Single X	Multiple Zone	8. Lease Name and Well N Amazing BAZ	o. #2 Federal 3.0801	
2. Name of Operator Yates Petroleum Corporation 25575	To: N			9. API Well No. 30 - 025 10. Field and Pool, or Explo	- 37011	
3A. Address 105 South Fourth Street Artesia, New Mexico 88210		(include area code (505) 748-147	·		on Ridge Pelawar	
At surface 600' FNL and 1980	<i>V</i>					
14. Distance in miles and direction from nearest town or post office*		a Now Movie	~~	Section 21, T2 12. County or Parish Lea	13. State	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	lease line, ft. rest drig. unit line, if any) 1760		17. Spacing Un	Unit dedicated to this well 40 A Bond No. on file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3702' GL	22. Approxim	900' late date work will ASAP		NM-2811 23. Estimated duration 30 Days Controlled Water Basis		
The following, completed in accordance with the requirements of Onshe	24. Attacore Oil and Gas C			form:		
1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office. 4. Bond to cover the operations unless covered by an existing bond on file (some plan is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Surface Use Plan (if the location is on National Forest System Lands, the Sur						
25. Signature Clifth R. May Title:	1	e (Printed/Typed) on R. May		Hobbs OCD Date	10/12/04	
Regulatory Agent/Land Department Approved by (Signature)	Name	e (Printed/Typed)		SSS72828		
Title Russ Saransan ACTING FIELD MANAGER	Office	Kus	SBAD F	ELD OFFICE	_ 7 DEC 2004 V	
Application approval does not warrant or certify that the applicant hold operations thereon. Conditions of approval, if any, are attached.	s legal or equitab	le title to those righ	-	lease which would entitle the ROVAL FOR 1	applicant to conduct	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations as				ake to any department or agen	cy of the United	

*(Instructions on reverse)

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED
Previous

Previously Approved

District I

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico

Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

<u>District II</u>

811 South First, Artesia, NM 88210

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

District III

1000 Rio Brazos Rd., Aztec, NM 87410

Santa Fe, NM 87505

State Lease - 4 Copies

Fee Lease - 3 Copies

AMENDED REPORT

District IV

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

WELL.	LOCATION	AND ACR	FAGE DED	ICATION PLAT
77122				

API Num		Pool Code	³ Pool Name	
30- 025-37011		39366	East Livingston Ridge Delaware	
⁴ Property Code	1	Property Name Amazing BAZ Federal		⁶ Well Number
3080				2
OGRID No.		8 Operator Name		Elevation
025575		Yates Petroleum Corporation		3702'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	21	225	32E		600	North	1980	West	Lea
			- 44						

¹¹ 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
Dedicated Acres 40 13 Joint or Infill 14 Consolidation Code 15 Order 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

1980'	3698 3697 3694 3695	← NM-90	I hereby of true and of belief. Signature	ERATOR CERTIFICATION ertify that the information contained herein is complete to the best of my knowledge and R. May
			Printed Nan Regule Title 10/12, Date	atory Agent /2004
			I hereby c was plotte me or und and corre	VEYOR CERTIFICATION ertify that the well location shown on this plat d from field notes of actual surveys made by er my supervision, and that the same is true ct to the best of my belief. O ORIGINAL PLAT vey
			Signature a Certificate 1	nd Seal of Professional Surveyor.

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505 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

		,	MEIT TO	CATION	AND ACRE	AGE DEDICATI	ON PLAT		
API	API Number			Pool Code		Pool Name			
		····	<u> </u>				ngston Ridge		
Property (···		Propert AMAZING "BAZ" FED					Well Nu	2
025575	.			YATES	Operator No PETROLEUM (3702	ion '
					Surface Lo	cation			
UL or lot No.	Section	Township	Range	Lot lớn	Peet from the	North/South line	Feet from the	East/West line	County
c	21	225	32E	<u> </u>	600	NORTH	1980	WEST	LEA
UL or lot No.	Section	Township	Bottom	Hole Loc	eation If Diff	Ferent From Sur	face Feet from the	East/West line	County
1									
Dedicated Acres	Joint o	or Infill Co	meolidation	Code Or	der No.				
	WARLE 1	WILL BR A	SSIGNED '	TO THIS	COMPLETION	UNTIL ALL INTE	RESTS HAVE BI	EEN CONSOLIDA	\TED
NO ALEX						APPROVED BY		22.1 007.00222.	
							OPERATO	OR CERTIFICAT	TON
		3698	3697					y certify the the in	
	1980, —				- NM-90		contoined heret	n is true and compl stedge and belief.	-
]				`				stage one stary.	
		3694	3695		Ì		$ \cap () \cdot $	F P M	10
		N.32°2 W.103°	2'57.9" '40'54.5"				Signature	<u>~ 17. 00</u>	1ay
							Clifton		
							Printed Nam	e ory Agent	
	İ			1			Title		
							10/3/20 Date	02	
	i			,		·	SURVEYO	OR CERTIFICAT	TION
							711	y that the well locat	
				İ				as plotted from field made by me or	-
				1			supervison a	at that the same is to best of my belie	true and
									-
							Date Survey	9/26/2002	
							11		
							Signature & Professional	MEXICONE	
							THE ALL	~~~~~)
							II BOAS	640) 6 2	/
							Correspondo N	to. Hersahal S. Mae	RLS 3640
}					-		788	to. Hersone 15 Janes 5-3 NO COMPAN	
		L		<u> </u>			GENERAL	COMPAI	¥7

YATES PETROLEUM CORPORATION Amazing "BAZ" Federal #2 600' FNL and 1980' FWL Section 21-T22S-R32E Lea County, New Mexico

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

Rustler	890'	Cherry Canyon	5690'
Top of Salt	990,	Brushy Canyon	6970'
Base of Salt	4400'	Bone Spring	8630'
Bell Canyon	4760'	TD	8900'

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

Water: 250' Oil or Gas: 8630'

1. 3. Pressure Control Equipment: A diverter will be installed on the 13 3/8" casing. BOPE will be installed on the 8 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.
- THE PROPOSED CASING AND CEMENTING PROGRAM:
 - A. Casing Program: (All New)

Hole Size	Casing Size	Wt./Ft	Grade	Coupling	Interval	Length
17 1/2"	13 3/8"	48#	H-40	ST&C	0-850'915	.850' 915
11"	8 5/8"	32#	J-55	ST&C	0-4550'	4550'
7 7/8	5 ½"	17#	J-55	LT&C	0-100'	100'
7 7/8	5 ½"	15.5#	J-55	LT&C	100-6800'	6700'
7 7/8	5 ½"	17#	J-55	LT&C	6800-8900'	2100'

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

Amazing "BAZ" Federal #2

Page 2

A. CEMENTING PROGRAM:

Surface Casing: Lead w/250 sx Lite (YLD 1.96 WT 12.5) Tail in w/ 200 sx

Class C + 2% CaCl2 (YLD 1.34 WT 14.8).

Intermediate Casing: Lead w/1150 sx Lite (YLD 2.5 WT 11.9) Tail in w/250 sx C +

2% CaCl2 (YLD 1.34 WT 14.8).

Production Casing: 1st Stage: Lead w/550 sx Super H (YLD 1.67 WT 13). DV tool

@ 4500'. Tail in w/50sx Thixset (YLD 1.4 WT 14.4). TOC

Stage 1 approx. 6200'.

2nd Stage: Lead w/350 sx Lite (YLD 2.5 WT 11.9). Tail in w/50 sx Premium (YLD 1.3 WT 14.8). Cement for Stage 2 will

be circulated.

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-850'	FW/Native Mud	8.6-9.2	28-36	N/C
850'-4550'	Brine	10.0-10.2	28	N/C
4550'-6900'	Cut Brine	8.6-9.1	28	N/C
6900'-TD	Cut Brine/Starch	8.6-9.1	28-32	<15

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: Every 10' from 5000' to TD.

Logging: Platform HALS, CMR
Coring: None anticipated
DST's: As warranted.

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

Anticipated BHP:

From: 0 TO: 850' Anticipated Max. BHP: 400 PSI From: 850' TO: 4550' Anticipated Max. BHP: 2000 PSI Anticipated Max. BHP: 4400 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: None. STIPS REPORT

Maximum Bottom Hole Temperature: 140 F

8. ANTICIPATED STARTING DATE:

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

MULTI-POINT SURFACE USE AND OPERATIONS PLAN YATES PETROLEUM CORPORATION

Amazing "BAZ" Federal #2 600' FNL and 1980' FWL Section 21-T22S-R32E Lea 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 well site is located approximately 35 miles northeast of Loving, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Take Hwy 62/180 east out of Carlsbad, NM to the Half Way Watering Hole. Continue east approx. 0.7 of a mile to Campbell Rd. (C-29). Turn south and go approx. 13.7 miles to sign for Conoco Southeast New Mexico Operating Unit, Bootleg Compressor Station. Turn east and follow road approx. 4.0 miles (main road curves south). The new access starts here and goes east approx. 0.3' of a mile to the southwest corner of pad.

2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 1500' in length from the point of origin to the southwest corner of the drilling pad. The road will go easterly 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 both sides. One traffic turnout will be built.
- D. The route of the road is visible.

3. LOCATION OF EXISTING WELL:

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

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.

Amazing "BAZ" Federal #2 Page 2

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:

It will be the responsibility of the dirt contractor to locate a pit of his choice.

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 landfill. Burial on site is not approved.

8. ANCILLARY FACILITIES: None required.

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 constructed under Yates Petroleum Corporation approved general plan.
- 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 well site 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: Federal Surface administered by BLM.

Amazing "BAZ" Federal #2 Page 3

12. OTHER INFORMATION:

- A. Topography: Refer to the existing archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, and historical and cultural sites.
- B. The primary surface use is for grazing.

13. OPERATOR'S REPRESENTATIVE:

A. Through A.P.D. Approval: B. Clifton R. May, Regulatory Agent Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

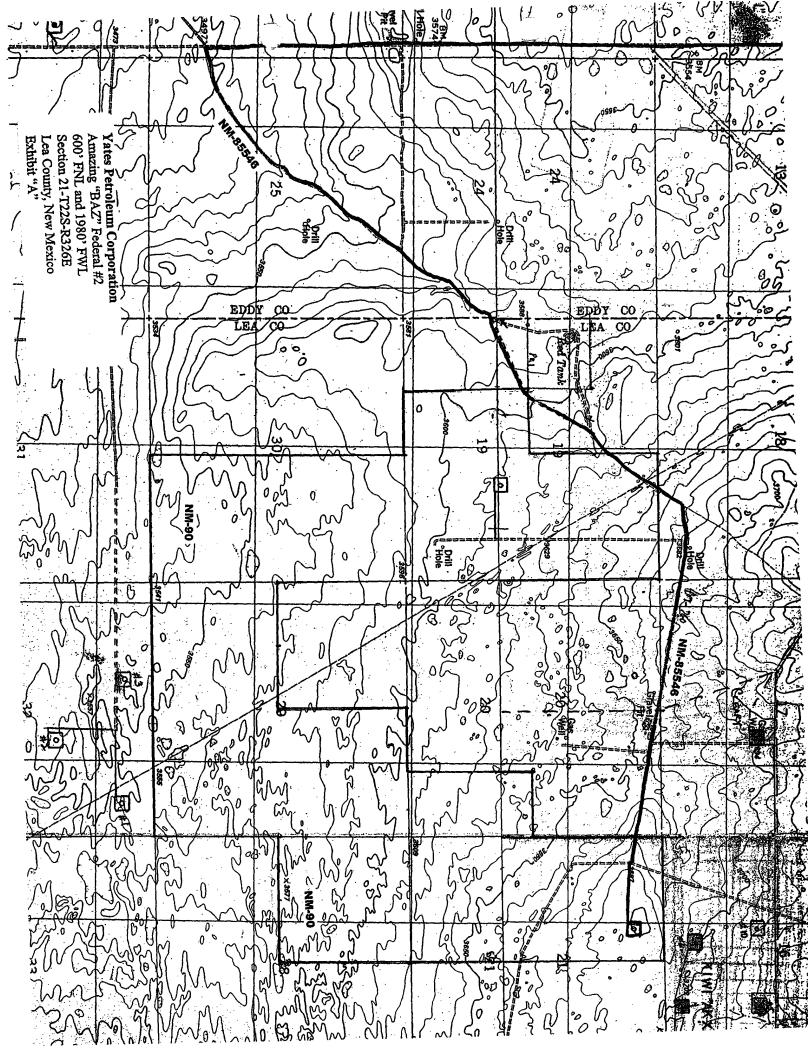
Through Drilling, Completions & Prod. Pinson McWhorter, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

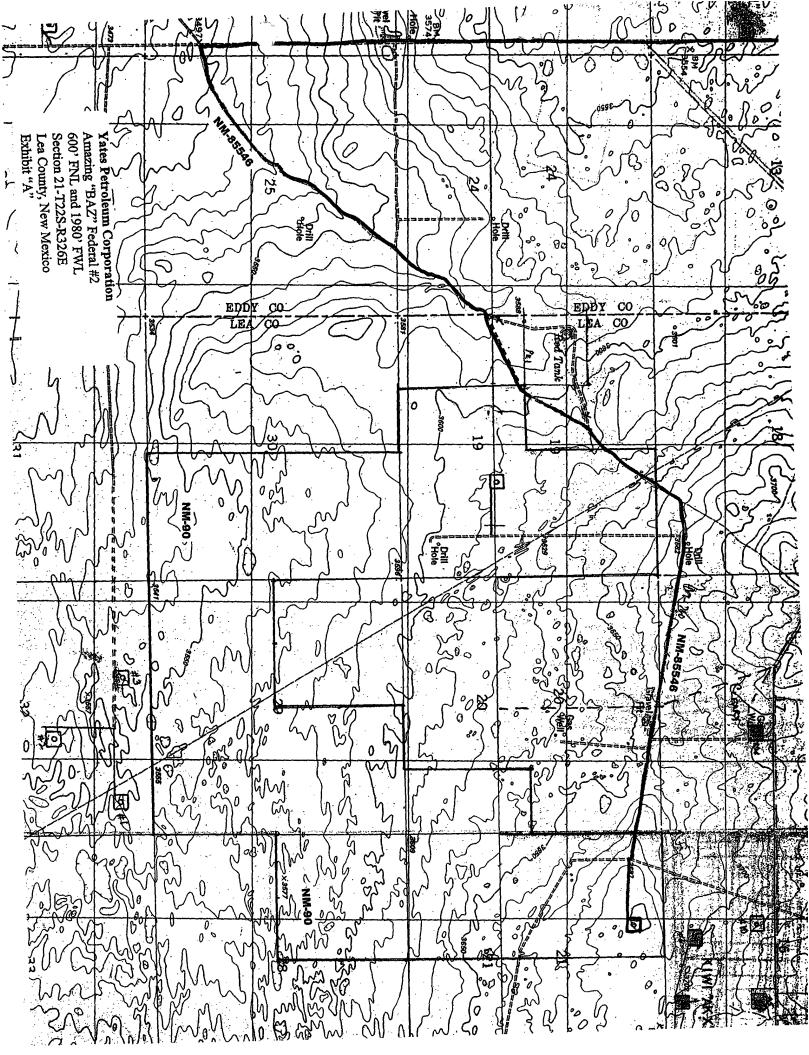
14. CERTIFICATION:

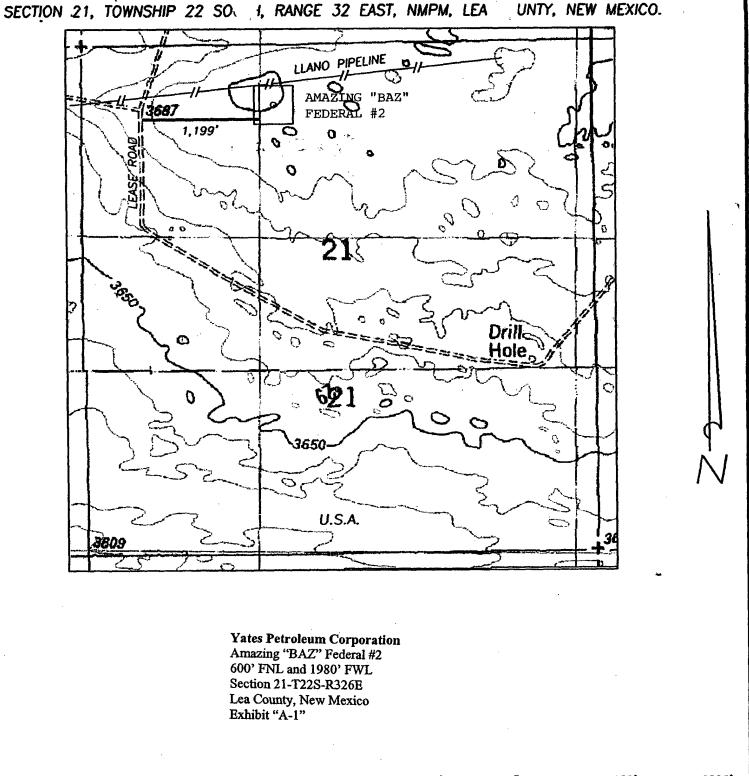
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and, that the work associated 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.

10/12/2004

Regulatory Agent



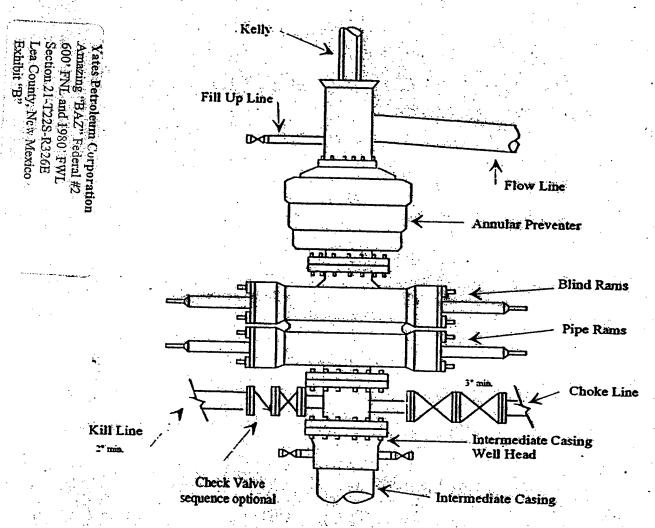




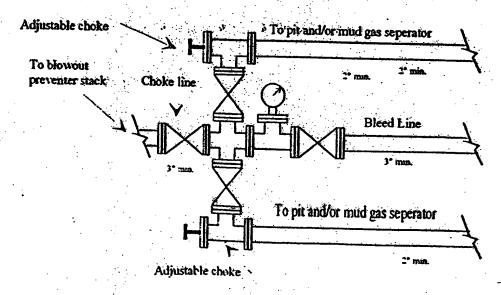
2000 1000 Scale 1" = 1000" THE PREPARATION OF THIS PLAT AND THE PERFORMANCE OF THE SURVEY UPON WHICH IT IS BASED WERE DONE UNDER MY DIRECTION AND THE PLAT ACCURATELY DEPICTS THE RESULTS OF SAID SURVEY AND MEET THE REQUIREMENTS OF THE STANDARDS TOP LAND SURVEYS IN NEW MEXICO AS ADOPTED BY THE NEW MEXICO STANDARDS TOP LAND SURVEYS IN NEW MEXICO AS ADOPTED BY THE NEW MEXICO STANDARD SERVEYS IN FOR PROFESSIONAL ENGINEERS AND SURVEYS SURVEYS TO THE NEW MEXICO STANDARD SURVEYS TO THE NEW MEXICO STANDARD SURVEYS TO THE NEW MEXICO STANDARD SURVEYS TO THE NEW MEXICO STANDARD SURVEYS TO THE NEW MEXICO STANDARD SURVEYS TO THE NEW MEXICO STANDARD SURVEYS TO THE NEW MEXICO AS ADOPTED BY THE NEW MEXICO STANDARD SURVEYS TO THE NEW MEXICO AS ADDRESSIONAL ENGINEERS AND SURVEYS TO THE NEW MEXICO AS ADDRESSIONAL ENGINEERS AND SURVEYS TO THE NEW MEXICO AS ADDRESSIONAL ENGINEERS AND SURVEYS TO THE NEW MEXICO AS ADDRESSIONAL ENGINEERS AND SURVEYS TO THE NEW MEXICO AS ADDRESSIONAL ENGINEERS AND SURVEYS TO THE NEW MEXICO AS ADDRESSIONAL ENGINEERS AND SURVEYS TO THE NEW MEXICO AS ADDRESSIONAL ENGINEERS AND SURVEYS TO THE NEW MEXICO AS ADDRESSIONAL ENGINEERS AND SURVEYS TO THE NEW MEXICO AS ADDRESSIONAL ENGINEERS. PETROLEUM YATES CORP. LEASE ROAD TO ACCESS THE YATES
WELL, LOCATED IN SECTION 21, TOWNSHIP 22 SOUTH,
RANGE 32 EAST, NIMPM, LEA COUNTY, NEW MEXICO. 0.3640 Survey Date: 9/26/2002 Sheet 1 P.O. BOX BOX 1928 GENERAL Drawn By: Ed Blevin Date: 9/26/02 W.O. Number LOVINGTON, Scale 1" = 1000" GRACE 3 OFESSIONAL!

ates Petroleum Corpora

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

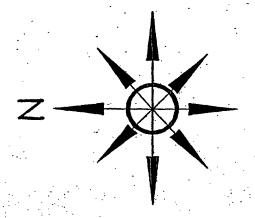


Typical 3,000 psi choke manifold assembly with at least these minimum features

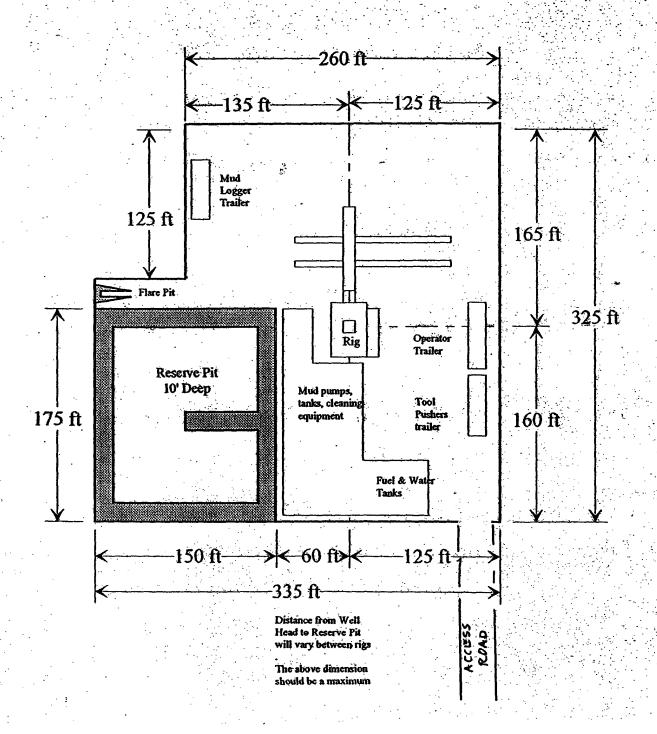


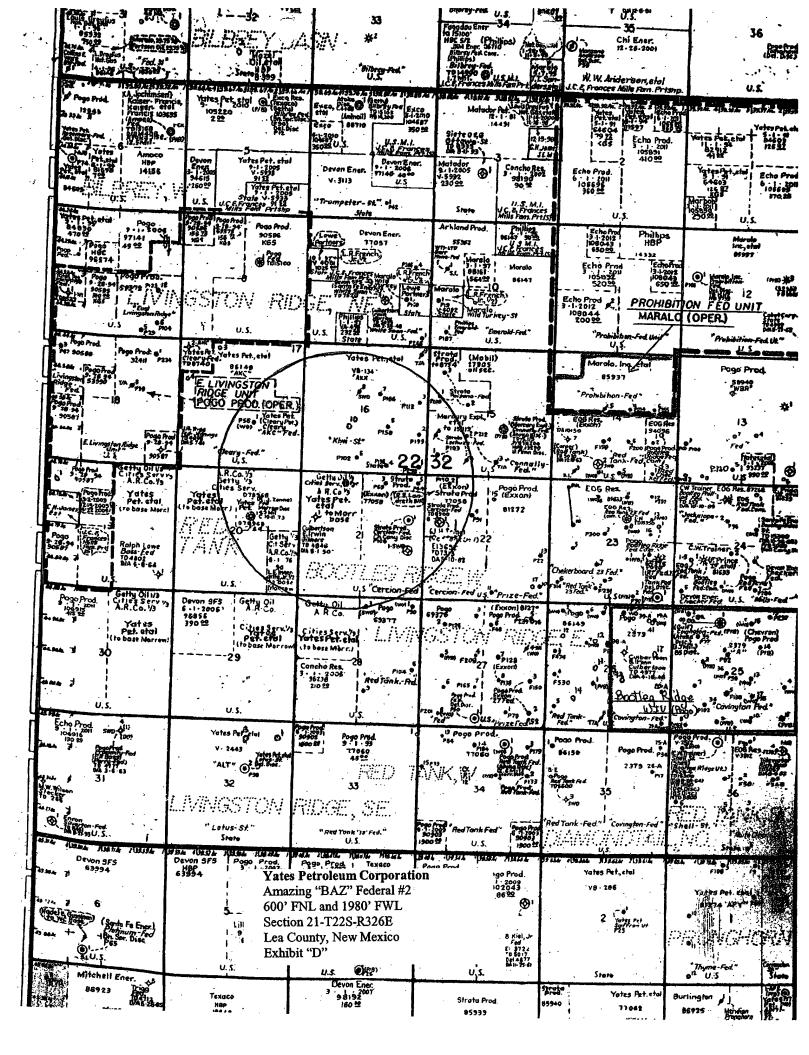


Location Layout for Permian Basin Up to 12,000'



Yates Petroleum Corporation Amazing "BAZ" Federal #2 600' FNL and 1980' FWL Section 21-T22S-R326E Lea County, New Mexico Exhibit "C"





District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-144 March 12, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes XX No

Type of action: Registration of a pit of	below-grade tank A Closure of a pit of below-grad	ctank []			
Operator: Yates Petroleum Corporation Teleph Address: 105 South 4th Street, Artesia, NM 88210 Facility or well name: Amazing BAZ Federal #2 API #: 36.025.37/COunty: Lea Latitude N32.2257.9 Longitude W103.4054.5 NAD: 192					
Pit Type: Drilling X Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined XX Unlined ☐ Liner type: Synthetic XX Thickness 12 mil Clay ☐ Volume 24,000 bbl	Below-grade tank Volume:bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes				
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)			
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points)			
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)			
	Ranking Score (Total Points)	0 Points			
If this is a pit closure: (1) attach a diagram of the facility showing the pit's onsite offsite If offsite, name of facility date. (4) Groundwater encountered: No Yes If yes, show depth below diagram of sample locations and excavations. I hereby certify that the information above is true and complete to the best of the been/will be constructed or closed according to NMOCD guidelines , a	. (3) Attach a general description of remedial action we ground surfaceft. and attach sample my knowledge and belief. I further certify that the a	n taken including remediation start date and end results. (5) Attach soil sample results and a bove-described pit or below-grade tank has			
Date: October 12, 2004 Printed Name/Title Clifton R. May/Regulatory Agent Signature Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the oregulations.	relieve the operator of liability should the contents of the operator of its responsibility for compliance with any of	he pit or tank contaminate ground water or ther federal, state, or local laws and/or			
Approval: Date: Printed Name/Title	ORIGINAL SIGNED BY PAUL F. KAUTZ SignaturPETROLEUM ENGINEER				