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



Form 3160-3

Artesia, NM 88210

FORM APPROVED (April 2004) OMB NO 1004-0137 UNITED STATES Expires March 31,2007 FFB 26 2008 DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT OCD-ARTESIA APPLICATION FOR PERMIT TO DRILL OR REENTER If Indian, Allottee or Tribe Name Not Applicable L. Onicor e A Agreement, Name and No DRILL X REENIER Type of Work Not Applicable 8. Lease Name and Well No. Oil Well X Gas Well Other Type of Well X Single Zone Multiple Zone Applesauce AZR Federal #1 9. API Well No. Name of Operator 30 005-640/4 10 Field and Pool, or Exploratory Yates Petroleum Corporation 3a 3b. Phone No (include area code) Address (575) 748-1471 105 South Fourth Street, Artesia New Mexico 88210 WC Granite 11. Sec, T, R., M, or Blk And Survey or Area Location of well (Report location clearly and In accordance with any State requirements *) ROSWELL CONTROLLED WATER BASIN 500' FNL and 990' FWL, Unit D At surface Section 25, T11S-R27E At proposed prod zone same as above Distance in miles and direction from the nearest town or post office* 12. County or Parish 13. State Approximately 25 miles northeast of Roswell, New Mexico Chaves NM 16. No. of acres in lease Distance from proposed* 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft (Also to nearest drlg. unit line, if any) 1040.00 320 N/2 18 Distance from proposed location* 19. Proposed Depth 20. BLM/ BIA Bond No. on file to nearest well, drilling, completed, 6865' Nationwide Bond #NMB000434 applied for, on this lease, ft. 21 Elevations (Show whether DF. RT, GR, etc.) 22 Aproximate date work will start* Estimated duration 3754' ASAP 30 Days 24 Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No 1 shall be attached to this form 1. Well plat certified by a registered surveyor. 4 Bond to cover the operations unless covered by existing bond on file(see A Drilling Plan. 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 site specific information and/ or plans as may be required by the a authorized officer. Name (Printed/ Typed) Date Debbie L. Caffall 10/18/2007 Title Regulatory Agent Approved By (Signature) (Orig. <u>Sgd.)</u>

Jarry Dutchover

Name (Printed/ Typed)

(Orig. Sgd.)

Title ActingAssistant Field Manager. Office ROSWELL FIELD OFFICE

APPROVED FOR 2 YEARS

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 co operations thereon

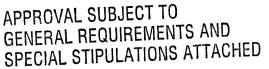
Conditions of approval, if any, are attached.

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

* (Instructions on page 2) Previously attached

C-102 attached

C-144 attached





<u>District I</u>

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210 District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico

Energy, Minerals & Natural Resources Departmen

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

FEB 26 2008 OCD-ARTESIA

Submit to Appropriate District Office

State Lease - 4 Copies

Revised October 12, 2005

Form C-102

Fee Lease - 3 Copies

☐ AMENDED REPORT

•	•	•	WELL LO	OCATIO	ON AND ACR	EAGE DEDIC	CATION PLA	T		
1	ì		? Pool Code 96542 Wc; G1			3 Pool Na	3 Pool Name			
Property C			S Property Name Applesauce AZR Federal					° Well Number 1		
⁷ OGRID 025575			⁸ Operator Name Yates Petroleum Corporation						⁹ Elevation 3754'	
					¹⁰ Surface	Location				
UL or lot no. D	Section 25	Township 11S	1 9	Lot Idn	Feet from the 500'	North/South line North	Feet from the 990'	East/West line West	County Chavez	
•			¹¹ Bo	ottom H	lole Location I	f Different Fro	om 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	¹³ Joint o	r Infill	¹⁴ Consolidation	Code 15	Order No.		<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

9901	NM-106906	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling
	1111 100000	Order heretofore entered by the division Signature Debbie L. Caffall Regulatory Agent Printed Name
	error commence and decounts, 33,678 g. (346643536) which decided the	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat 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. Date of Survey
		Signature and Seal of Professional Surveyor: REFER TO ORIGINAL PLAT Certificate Number

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been dated by communitization, unitization, force-pooling, etc? Yes			All dista	nces must be fr	om the outer	boundaries of	the Section.			
D 25 11-5 27-E Chaves		EXPLORATION	CO.		Lease	Federa 1-I	New-Rumet	i Jed.	Well No.	68860
Sound Level Dies: Promising North Ine and 990 test from the Vest Ine Sound Level Dies: Promising From the Plat Ine Sound Level Dies: Promising From the Plat Ine Sound Level Dies: Promising From the Plat Dies of Plat Ine Sound Level Dies Dies of Plat Ine Sound Level Dies Dies of Plat Ine Dies Dies of Dies Dies Dies Dies Dies Dies Dies Dies	<u></u>	I	Township	11-5	Range	27-E	County	Chaves		:
Doubleton Formation 3751 Doubline the acreage dedicated to the subject well by colored pencil or hacher marks on the plat below. If more than one lease is dedicated to the well, outline each aptition of the plat below. If more than one lease of different ownership is dedicated to the well, have file interests of all owners here dated by communitization, unitization, force-pooling, etc? O. C. D. Yes No II answer is "yes," type of consolidation which have actually been consolidated. Use reverthis form if necessary. No allowable will be assigned to the well until all interests have been consolidated (by communitization) or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the sion. CERTIFICATION I hereby certify that the infentioned herein is true and consolidated. Use reverting from the position of the po			North		990			West		
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YATES PETROLEUM CORPORATION Applesauce "AZR" Federal #1 500' FNL and 990' FWL Section 25-T11S-R27E Chaves County, New Mexico

Yates Petroleum Corporation plans to re-enter this well originally drilled by Maxus Exploration Company as the Newkumet Federal #1 and abandoned August 25 1987. Yates' olan is to re-enter the well with a pulling unit to drill out the compant of the metric of 8.60° . The hole will be circulated clean then a string of $4.1/2^{\circ}$ casing will be run to TD and cemented to 4000° +/-. The well will be completed with a pulling unit and the formations to be completed will probably be the Penn Sand at 6,600°, the Cisco at 6,310° or the Wolfcamp at 6,090°.

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

San Andres	1483'	Oil Pay
Glorieta	2680'	•
Tubb	4147'	
Abo	4921'	Gas Pay
Wolfcamp	5243'	Gas Pay
Penn	6353'	•
Mississippian	6600'	
Devonian	6800'	Gas Pay
TD	6865'	•

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

Water: 150'-500'

Oil or Gas: All potential zones.

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)

Hole Size	Casing Size	Wt./Ft	Grade	Coupling	Interval
17 1/2	13 3/8"	48#	H-40	ST&C	0-389'
12 1/4"	8 5/8"	24#	K-55	ST&C	0-1840'
7 7/8"	4 1/2"	11.60#	N-80	LT&C	0-6865'

Applesauce "AZR" Federal #1 Page 2 \, \tag{*}

- 1. Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Tensile Strength 1.8
 - A. CEMENTING PROGRAM:

Surface Casing: 420 sx in place

Intermediate Casing: 580 sx in place - intermediate casing is cement shall extend upward

a minimum of 500 feet above the uppermost perforation.

Froudulation Casing, 1,000 sx.

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

This well will be drilled with a brine system.

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, W/NGT TD-Surf csg; with CNL/GR up to Surf; DLL/MS

FL TD-Surf csg: BHC Sonic TD-SURF CSG

Coring: None

DST's: As warranted.

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

Anticipated BHP:

From: 0 TO: 900' Anticipated Max. BHP: 375 PSI From: 900' TO: 6865' Anticipated Max. BHP: 2500 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: None Anticipated

Maximum Bottom Hole Temperature: 110 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 Applesauce "AZR" Federal #1 500' FNL and 990' FWL

Section 25-T11S-R27E Chaves 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 renabilitating 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 Roswell, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go east of Roswell on Highway 380 approx. 16 miles to Aleut Road. Turn right (South) and drive approx. 5.9 miles on main rd. (Continue south past Rock House Ranch sign.) Turn left (East) on lease road in front of Cooper Cattle Company sign and gate. Drive East approximately 0.8 of a mile (past dirt pit). Continue East at intersection. Drive approx. 0.6 of a mile to gate. Pass gate and drive on road approx. 0.7 of a mile to the Southwest corner of the location.

PLANNED ACCESS ROAD:

No new access road needed since there is an existing road to the location.

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.

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 nearest pit and obtain any permits and materials needed for construction.

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

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.

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:

Thomas S. Cooper Las Cruces, New Mexico

A surface agreement has been reached with Mr. Cooper

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.

13. OPERATOR'S REPRESENTATIVE:

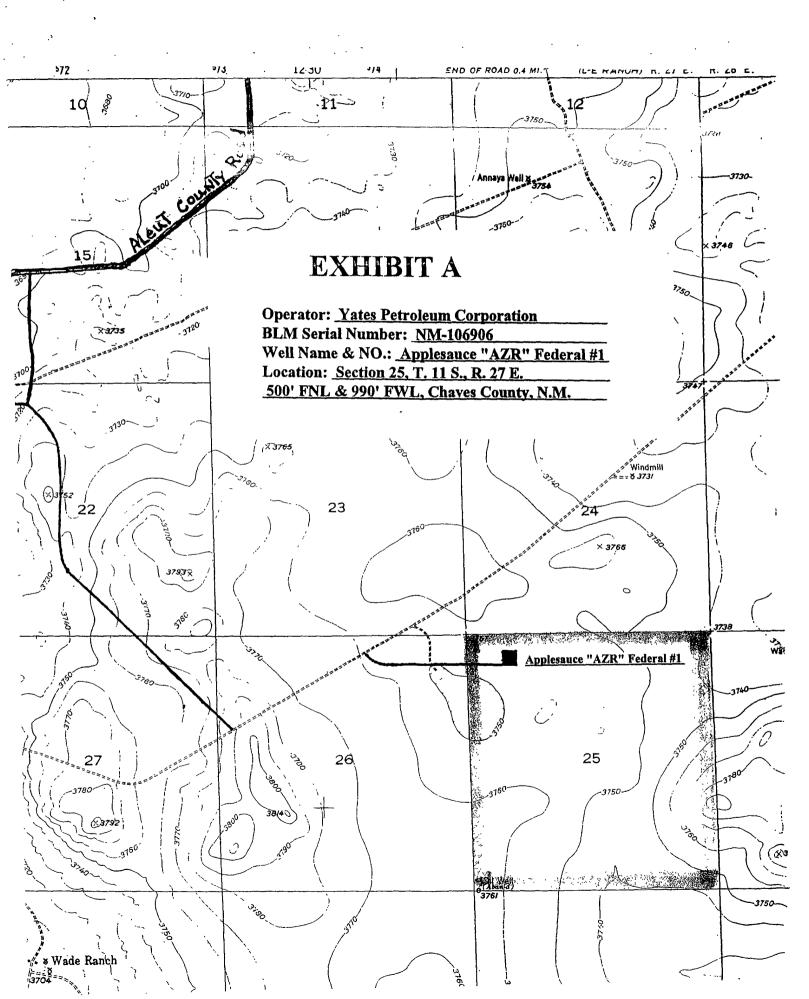
- A. Through A.P.D. Approval:
 Debbie L. Caffall, Permit Agent
 Yerns Petroleum Corporation
 105 South Fourth Street
 Artesia, New Mexico 88210
 Phone (575) 748-1471
- B. Through Drilling, Completions & Prod. Ray Stall. Operations Manager Yards Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (575) 748-1471

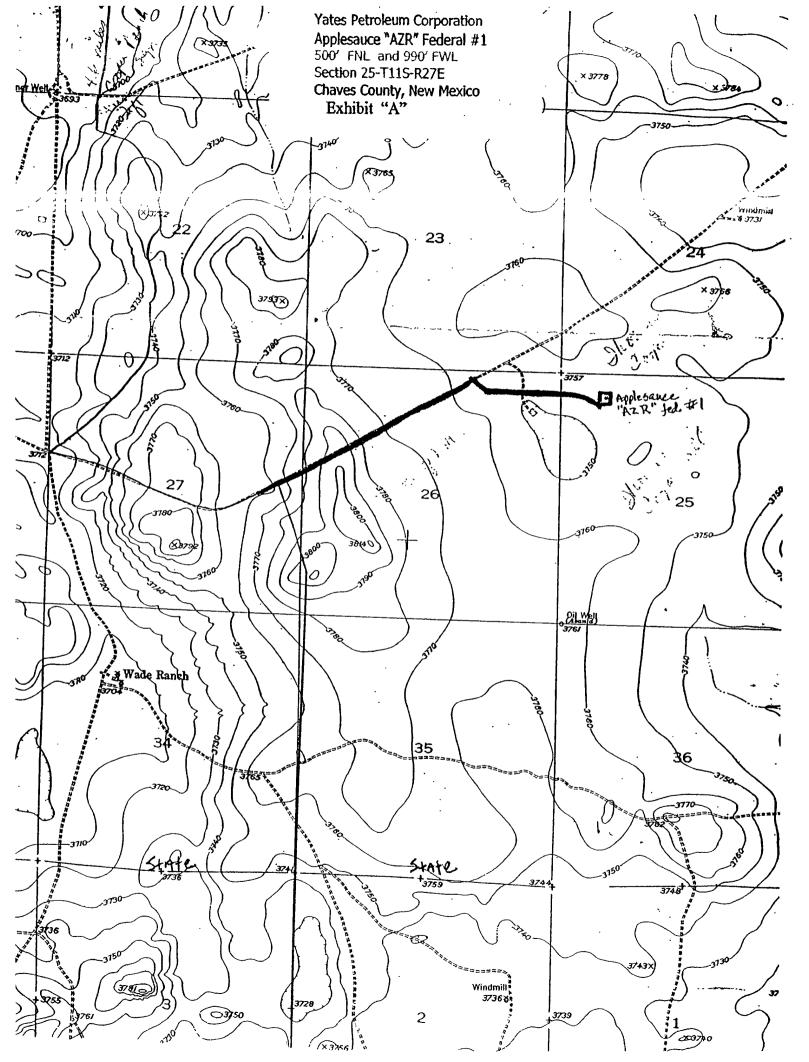
CERTIFICATION YATES PETROLEUM CORPORATION

Applesauce AZR Federal #1

Thereby cartify that I are someone under my direct supervision, has a meneated the drill site and access route proposed neron, that I am familiar with the conditions which currently exist, that I have full knowledge of state and federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this	<u>18th</u>	day of _	October			
Printed Name Debbi	e L. Caffa	all				
Signature	Le Cil	or fel	g-Caf	Soul		
Position Title Re	gulatory			20		
Address 105 South			a, NM 88210			
Telephone 575-					_	
Field Representative			ory) Jim Krog	man		
Address (if different	`		,		_	
Telephone (if different from above) <u>575-748-4215</u>						
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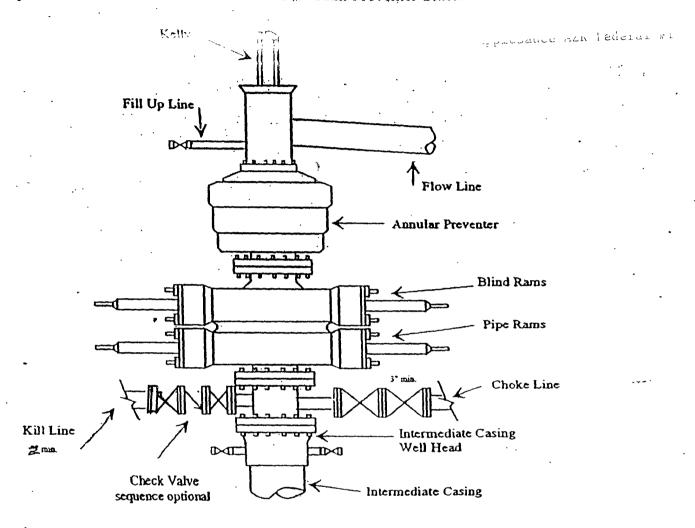




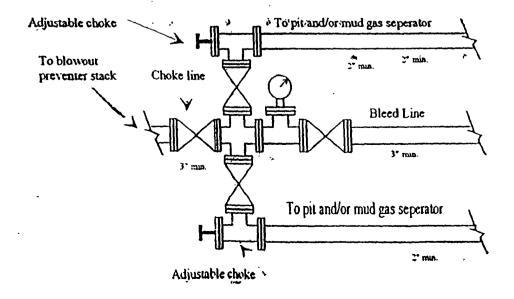


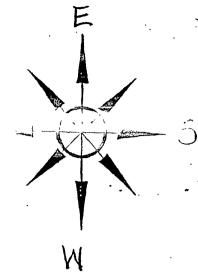
Yates Petroleum Corporation

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

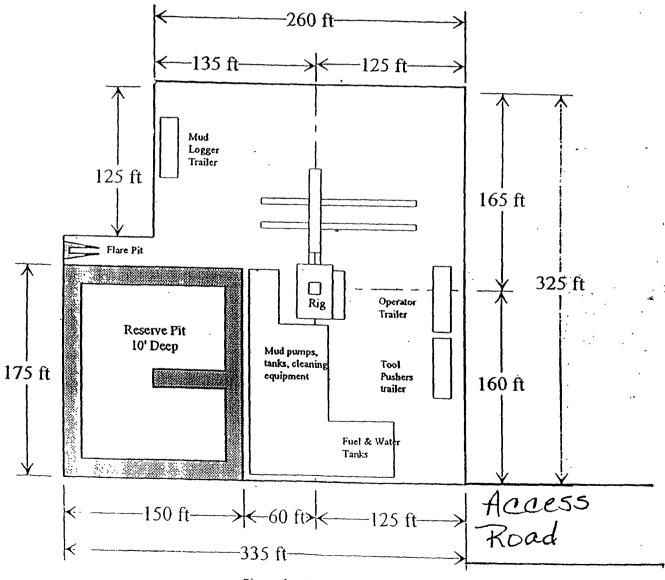




Yates Petroleum Corporation Location Layout for Permian Basin

Up to 12,000'

Yates Petroleum Corporation Applesauce "AZR" Federal #1 500' FNL and 990' FWL Section 25-T11S-R27E Chaves County, New Mexico Exhibit "C"



Distance from Well Head to Reserve Pit will vary between ries

The above dimension should be a maximum

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<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
<u>District II</u>
1301 W. Grand Ayenue, Artesia, NM 88210
District III

1000 Rib Brazos Road, Aztec, NM 87410

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

State of New Mexico Energy Minerals and Natural Resources

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Form C-144 March 12, 2004

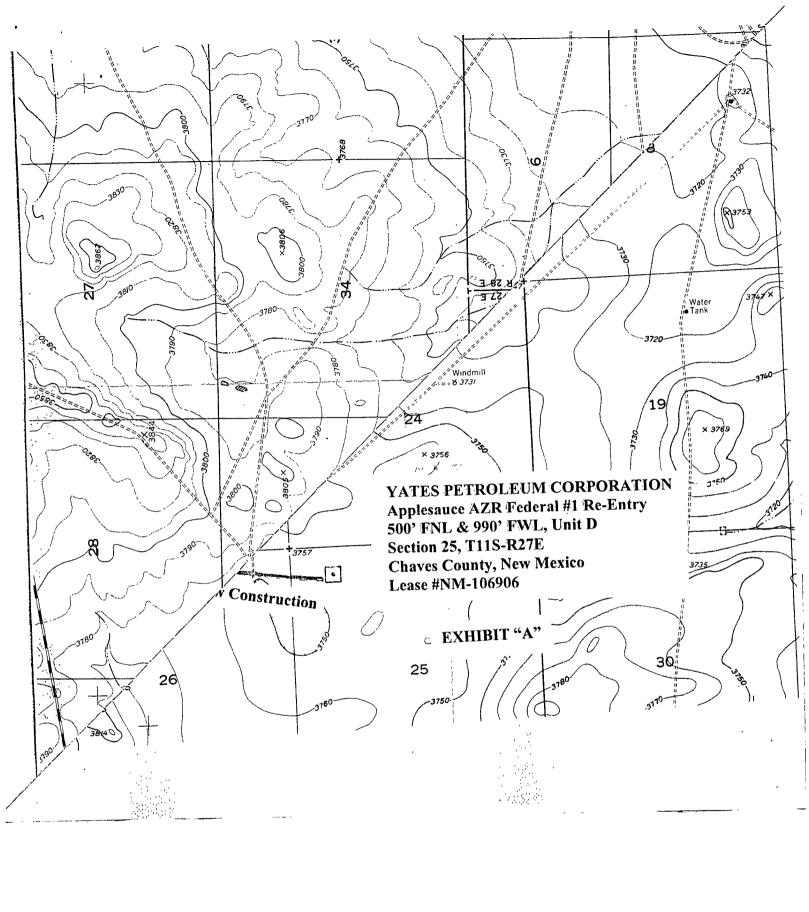
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit to appropriate NMOCD District Office.

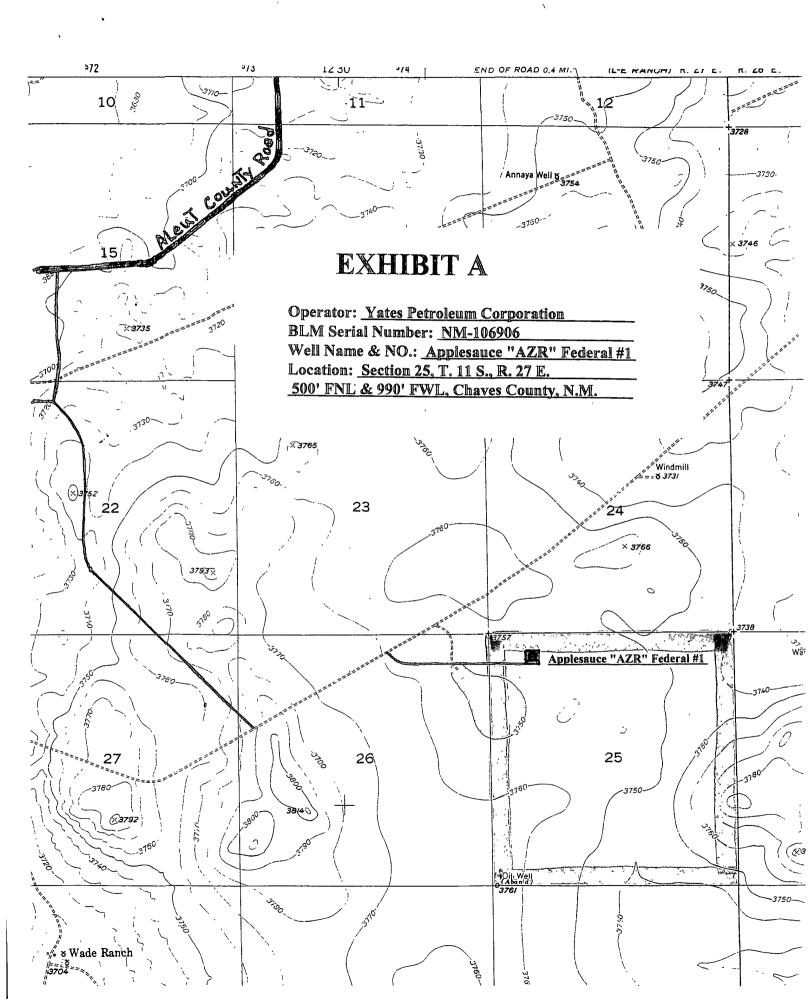
For downstream facilities, submit to Santa Fe office

105 South Fourth Street, Artesia, NM 88210

Pit or Below-Grade Tank Registration or Closure

The Company of the Co Type of action Registration of a pit or below-grade tank X Closure of a pit or below-grade tank Telephone: 505-748-4376 e-mail address: debbiec@ypcnm.com Operator: Yates Petroleum Corporation Address: 104 South 4th Street, Artesia, New Mexico 88210 Facility or well name: Applesauce AZR Federal #1 API #: 30-005-62532 U/L or Qtr/Qtr NWNW Sec 25 T 11S R 27E County: Chayes Latitude Longitude NAD 1927 🗌 1983 🗍 Surface Owner Federal 💆 State 🗍 Private 🗍 Indian 🗍 Pit Below-grade tank Volume: ____bbl Type of fluid: ____ Type: Drilling Production Disposal Construction material: Lined D Unlined Double-walled, with leak detection? Yes \(\partial\) If not, explain why not. Liner type: Synthetic Thickness 12 mil Clay Volume Less than 50 feet (20 points) RECEIVED Depth to ground water (vertical distance from bottom of pit to seasonal high 50 feet or more, but less than 100 feet (10 points) water elevation of ground water.) NOV 0 1 2004 100 feet or more (0 points) OCD-AHTERIA Yes (20 points) Wellhead protection area: (Less than 200 feet from a private domestic No (0 points) water source, or less than 1000 feet from all other water sources.) Less than 200 feet (20 points) Distance to surface water: (horizontal distance to all wetlands, playas, 200 feet or more, but less than 1000 feet (10 noints) irrigation canals, ditches, and perennial and ephemeral watercourses) 1000 feet or more (0 points) Ranking Score (Total Points) If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: onsite offsite from If offsite, name of facility . (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No 🗌 Yes 🔲 If yes, show depth below ground surface ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations. I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines 🔲, a general permit 🔼, or ap (attached) alternative OCD-approved plan 🔲. Date: 10/29/2004 Printed Name/Title Robert Asher/Regulatory Agent Signature Your certification and NMOCD approval of this application/closure does not relieve the operator of hability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations. Tild Sep P Printed Name/Title





PECOS DISTRICT - RFO CONDITIONS OF APPROVAL

OPERATORS NAME: Yates Petroleum Corporation

LEASE NO.: <u>NM-106906</u>

WELL NAME & NO: <u>Applesauce "AZR" Federal #1</u> SURFACE HOLE FOOTAGE: <u>500' FNL & 990' FWL</u> LOCATION: <u>Section 25, T. 11 S., R. 27 E., NMPM</u>

COUNTY: <u>Chaves County, New Mexico</u>

GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

I. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD (Filing of a Sundry Notice is required for this 60 day extension).

II. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

III. -NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations (access road and/or well pad). Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

IV. CONSTRUCTION

A. NOTIFICATION:

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Roswell Field Office at (505) 627-0247 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved Application for Permit to Drill and Conditions of Approval on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL:

There is no measurable soil on this well pad to stockpile. No topsoil stockpile is required.

C. RESERVE PITS:

The reserve pit shall be constructed and closed in accordance with the NMOCD rules.

The reserve pit shall be constructed 175' X 150' on the NORTH side of the well pad.

The reserve pit shall be constructed, so that upon completion of drilling operations, the dried pit contents shall be buried a minimum depth of three feet below ground level. Should the pit content level not meet the three foot minimum depth requirement, the excess contents shall be removed until the required minimum depth of three feet below ground level has been met. The operator shall properly dispose of the excess contents at an authorized disposal site.

The reserve pit shall be constructed and maintained so that runoff water from outside the location is not allowed to enter the pit. The berms surrounding the entire perimeter of the pit shall extend a minimum of two (2) feet above ground level. At no time will standing fluids in the pit be allowed to rise above ground level.

The reserve pit shall be fenced on three (3) sides during drilling operations. The fourth side shall be fenced immediately upon rig release.

D. FEDERAL MINERAL MATERIALS PIT:

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Roswell Field Office at (505) 627-0236.

E. WELL PAD SURFACING:

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational need.

F. ON LEASE ACCESS ROADS:

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

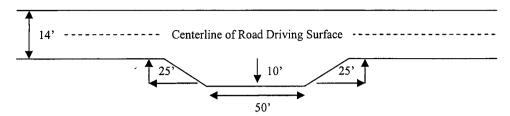
Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

Standard Turnout - Plan View

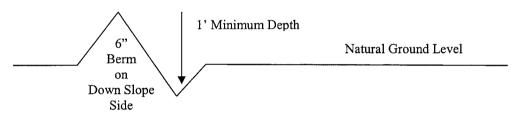


Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section Of Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula For Spacing Interval Of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

Cattleguards

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

Fence Requirement

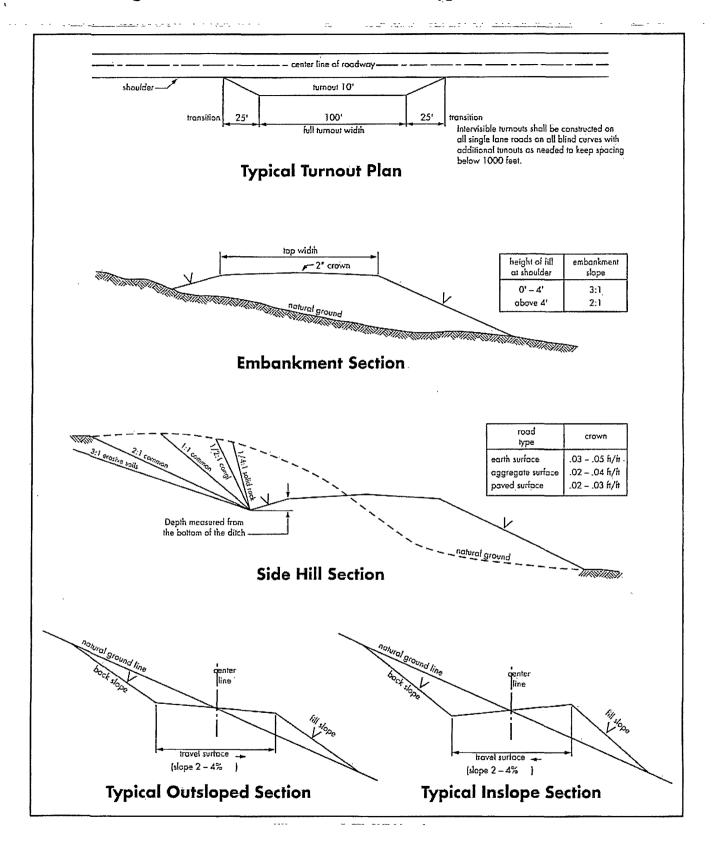
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Figure 1 - Cross Sections and Plans For Typical Road Sections



V. - DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

- 1. Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201. 24 hour at (575) 627-0205.
- 2. The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:
- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests
- 3. A Hydrogen Sulfide (H2S) Drilling Plan is not required for this wellbore.
- 4. 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.
- 5. When floor controls are required, (3M or Greater) controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 6. Gamma-Ray/Neutron logs shall be run from the base of the Salado formation to the surface. The logs shall be run at a speed which allows the logs to be legible and no faster than manufactures of the logging tools recommended speed. (R-111-P area only)

B. CASING

- 1. The 13 \(^3\)/8 inch surface casing exist and is set at 389 ft and is cemented to the surface.
- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compression strength, whichever is greater. (This is to include the lead cement).
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compression strength, whichever is greater.
- d. If cement falls back, remedial action will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 8 % inch intermediate casing exist and is set at 1840 ft. and circulated to surface. If cement does not circulate see B.1.a-d above.

- 3. The minimum required fill of cement behind the 4 1/2 inch production casing is to set TOC at least 500 ft above any potential bearing H-C formations.
- a. If cement does not circulate, contact the appropriate BLM office for approval of remedial action.
- b. If cement is required to tie-back into previous casing string, a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2,000 psi.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 8 % intermediate casing shoe shall be 3,000 psi.
- a. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
- b. The tests shall be done by an independent service company.
- c. The results of the test shall be reported to the appropriate BLM office.
- d. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
- f. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILL STEM TEST (optional)

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

VI. PRODUCTION

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

. . . .

Containment Structures

C * *

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <u>Olive Drab, Munsell Soil Color Chart 18-0622 TPX</u>.

VII. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

During the life of the development, all disturbed areas not needed for active support of production operations should undergo "interim" reclamation in order to minimize the environmental impacts of development on other resources and uses.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used in road repairs, fire walls or for building other roads and locations. In addition, in order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

B. RESERVE PIT CLOSURE

At the time reserve pits are to be reclaimed, operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

The reserve pit, when dried and closed, shall be recontoured, all trash removed, and reseeded as follows:

SAND BLUESTEM, var. Woodard (Andropogon hallii)	2.0 Lbs.
LITTLE BLUESTEM var. Pastura (Andropogon scoparius	_) 1.0 Lb.
SIDEOATES GRAMA (Bouteloua curtipendula)	1.5 Lbs.
var. Vaughn or El Reno	
SAND DROPSEED (Sporobolus cryptandrus)	0.33 Lb.
PLAINS BRISTLEGRASS (Setaria macrostachya)	2.0 Lbs.
DESERT or SCARLET (Sphaeralcea ambiggua or	
GLOBEMALLOW S. coccinca)	0.67 Lb.
BUCKWHEAT (Eriogonnum spp.)	1.5 Lbs.
Pure live seed per acre =	9.0 Lbs.

Certified Weed Free Seed. If one species is not available, increase ALL others proportionately. Use No Less than 4 species, including one forb. No less than 9.00 pounds pls per acre shall be applied

VIII. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the Private Surface Land Owner agreements.