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RESUBMITTAL

OCD-HOBBS

Form 3160-3 (August 2008)

JAN 2 1 2010 HOBBSOCD

UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT OMB NO. 1004-0137

	LAPITOS	July	J.,
Lease Ser	al No		

FORM APPROVED

			11172 / 0	
APPLICATION FOR PERMIT TO DRILL OR R	6.	If Indian, Allottee or Tribe	: Name	
			N/A	
		7.	If Unit or CA Agreement,	Name and No.
1a. Type of Work: X DRILL REENTER			N/A	,
	8.	Lease Name and Well No.	<3080	
1b. Type of Well: X O1 Well Gas Well Other Single Z	Cone	Amazing BAZ Fo		
2. Name of Operator		9.	API Well No.	
Yates Petroleum Corporation 025575			30-025-3	9659
	nclude area code)	10	Field and Pool, or Explora	tory/2/22
Sa Address	nesuae urea coney	1.0.	Tions and Con, or Empress	~ 34 566
105 South Fourth Street, Artesia, NM 88210	575-748-1471		Livingston Ridge, De	laware, East
4. Location of well (Report location clearly and In accordance with any State rea	quirements.*)	11.	Sec., T., R, M., or Blk. A	nd Survey or Area
At surface		ŀ		
1980' FSL and 1980' FEL, Unit			Section 19, T22	S-R32E
At proposed prod zone	١,	•		~
same as above			G . B 1	112 00
14. Distance in miles and direction from the nearest town or post office*		12.	County or Parish	13. State
Approximately thirty five (35) miles northeast of Loving, No	ew Mexico		Lea County	NM
	of acres in lease	17. Spacing	Unit dedicated to this wel	1
location to nearest		:		
property or lease line, ft.				
(Also to nearest drlg. unit line, if any) 1000'	1760.00		40 Acres	
18 Distance from proposed location* 19 Prop	oosed Depth	20 BLM/ I	BIA Bond No. on file	
to nearest well, drilling, completed,				
applied for, on this lease, ft	8700'	N	ATIONWIDE BOND #N	MB000434
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Apr	oxımate date work wıl	l start*	23. Estimated duration	
	1 C 1 D		20.1	
3615' GL	ASAP		30 da	ys
	chments			
The following, completed in accordance with the requirements of Onshore Oil and	Gas Order No 1 shall	be attached to	this form	
Well plat certified by a registered surveyor		operations ur	iless covered by existing be	ond on file(see
2. A Drilling Plan.	item 20 above)			
3. A Surface Use Plan (if the location is on National Forest System Lands, the	5 Operator certificat		41	
SUPO must be filed with the appropriate Forest Service Office)	BLM	ecilic informa	tion and/ or plans as may b	be required by the
			ID-44	
25 Signature Cy Cowan			Date	11/11/2009
Title				
Land Regulatory Agent				

Approved By (Signature

Name (Printed/ Typed) /s/ Don Peterson

JAN 1 5 2010

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 holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights are the subject lease which would entitle the applicant holds legal or equitable title to those rights are the subject lease which would entitle the applicant holds legal or equitable title to those rights are the subject lease which would entitle the applicant holds are the subject lease which would entitle the applicant holds are the subject lease which would entitle the applicant holds are the subject lease which we have the operations thereon

Office

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 wilfully 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

Previously Approved

CARLSBAD CONTROLLED WATER BASINA PPROVAL SUBJECT TO

SEE ATTACHED FOR CONDITIONS OF APPROVAL



GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

DISTRICT IV HOBBSOCH 2040 South Pacheco, Santa Pe, NM 67506

DISTRICT III

JAN 21 2010

Energy, Minerals and Natural Resources Department

Instruction on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

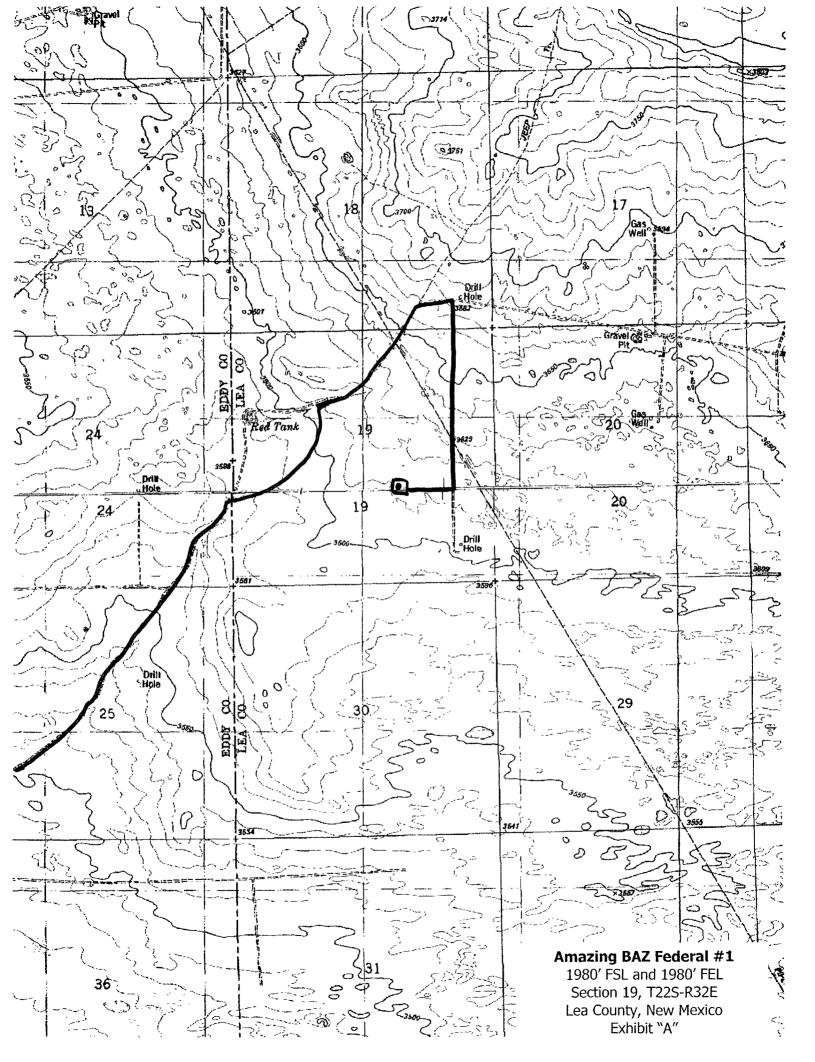
ADE	Number			Pool Code			Pool Name			
30-025-39659		59				East Livingston Ridge Delaware				
Property Code Property Name						Well No	mber			
30901 Amazing BAZ Federal						1				
OGRID No. 25575 Operator Na. YATES PETROLEUM C				Operator Nam PETROLEUM CO			3615	ion 		
					Surface Loc	ation				
UL or lot No.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County	
1	10	225	32F		1980	SOUTH	1980	EAST	LEA	

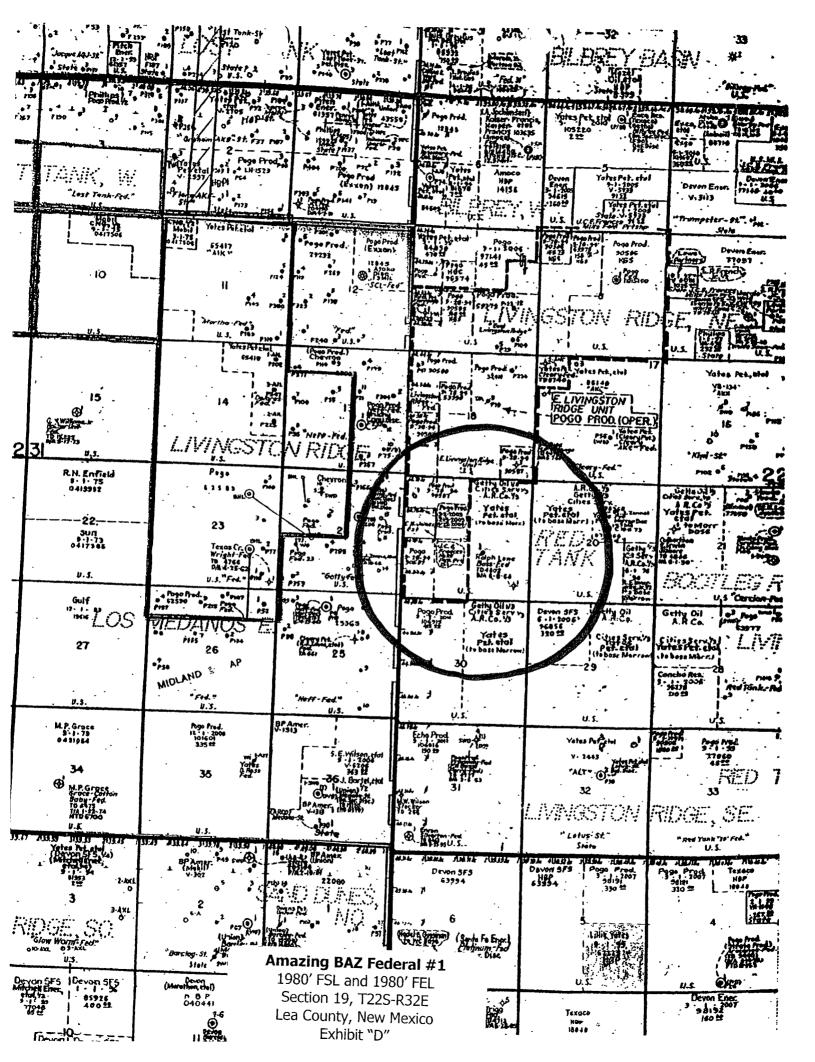
32E | 1980 | SOUTH

Bottom Hole Location If Different From Surface										
UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County	
			İ							
Dedicated Acr	es Joint	r Infill (Consolidation	Code Or	der 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

NM-90 →	N.32-22'30.8' W.103*42'42.3" 3616 3610	1980°	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature Cy Cowan Printed Name Land Regulatory Agent Title 11/12/09 Date 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 supervison, and that the same is true and correct to the best of my belief.
NM-90 →	W.103°42'42.3" 3616 3610	1980° ————	Date 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 supervison, and that the same is true and correct to the best of my belief.
	1980,		Date Surveyed Signature Seal of Professional Sinveyor/ MEXICO Certificate No. Herschel Sins RLS 3640 GENERAL SISHONHING COMPANY





YATES PETROLEUM CORPORATION Amazing BAZ Federal #1

1980' FSL and 1980' FEL Section 19-T22S-R32E Lea County, New Mexico

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

Rustler	770'	Cherry Canyon	5580'
Top of Salt	890'	Brush Canyon	6850'
Base of Salt	4300'	Bone Spring	8570'
Bell Canyon	4660'	TD	8700'

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

Water: 250'-Oil or Gas: 8570'

3. Pressure Control Equipment: BOPE 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.
- 4. THE PROPOSED CASING AND CEMENTING PROGRAM:

A. Casi	ing Program: (Al	l New)				
Hole Size	Casing Size	Wt./Ft	<u>Grade</u>	Coupling	<u>Interval</u>	<u>Length</u>
17 1/2"	13 3/8"	48#	H-40	ST&C	0-850'	850'
11"	8 5/8"	32#	- 155	ST&C	0-4450	4450
7 7/8"	5 1/2"	17#	J-55	LT&C	0-100'	100'
7 7/8"	5 1/2"	15.5#	J-55	LT&C	100-6800'	6700'
7 7/8"	5 1/2"	. 17#	J-55	LT&C	6800-8700'	1900'

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

1st Intermediate

1st segment	4,450 ft to	4,200 ft	Make up Torq	ue ft-lbs	Total ft =	250
O.D	Weight	Grade Threa	ds opt. min.	mx.		
8.625 inches	32 #/ft	HCK-55 ST8	C 2440 1830	3050		
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
4,130 psi	3,930 psi	497 ,000 #	503 ,000 #	7.875-SD		

2nd segment	4,200 ft to	2,100 ft	Make up Torque ft-lbs	Total ft = 2,100
O.D.	Weight	Grade Threads	opt. min. mx.	
8.625 inches	32 #/ft	J-55 ST&C	3720 2790 4650	
Collapse Resistance	Internal Yield	Joint Strength	Body Yield Drift	
2,530 psi	3,930 psi	372 ,000 #	503 ,000 # 7.875-SI	5 .

	3rd segment	2,100 ft to	100	ft	М	ake up Torque	ft-lbs	Total ft =	2,000
Γ	OD	Weight	Grade	Threads	opt.	min	mx.		1 1110 (1110 0 1 0 1 1 0 1 1 0 1 0 1 0 1
L	8.625 inches	24 #/ft	J-55	ST&C	4970	3020	6210		
- (Collapse-Resistance—	Internal-Yield;	Joint-St	rength	Body	Yield	Drift		
L	1,370 psi 2,950 psi		244	,000 #	38	31 ,000 #	7.972		

4th segment	100 ft to	0 ft	Make up Torque ft-lbs	Total ft = 100
O D.	Weight	Grade Threads	opt. min. mx.	
8.625 inches	32 #/ft	J-55 ST&C	3720 2790 4650	
Collapse Resistance	Internal Yield	Joint Strength	Body Yield Drift	
2,530 psi	3.930 psi	372 ,000 #	503 ,000 # 7.875-SD	

B. **CEMENTING PROGRAM:**

Surface casing: Lead with 250 sx C Lite (WT 12.5 YLD 1.96). Tail in with 200 sx Class "C" + 2% CaC12 (WT 14.8 YLD 1.34). TOC-Surface.

Intermediate Casing: Lead with 1150 sx Lite (WT 11.9 YLD 2.5)Tail in with 250 sx C + 2% CaC12 (WT 14.8 TLD 1.34). TOC-Surface.

Production Casing: 1st Stage: Lead with 550 sx Super H (WT13 YLD 1.67) DV tool

@ 6200'. Fair in with 50 9x Thix cot (WF14-4-YLD4-4) TOC

Removed Per. O Derator Stage 1 approximately 6200'.

& Stage. Lead with 350 sx Lite (WT 11.9 YLD 2.5) Tail in with

50 sx Premium (WT 14.8 YLD 1.3) Cement for Stage 2 will be

Overlup 200, Per Operator 1-11-10

MUD PROGRAM AND AUXILIARY EQUIPMENT: 5.

Interval	<u>Type</u>	<u>Weight</u>	Viscosity	Fluid Loss
0-850'	FW/Native Mud	8.2-9.2	28-36	N/C
850'-4450'	Brine	10.0-10.2	28	N/C
4450'-6800''	Cut Brine	8.6-9.1	28	N/C
6800'-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' form 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:

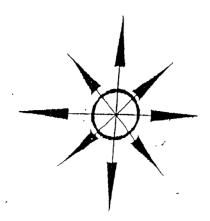
From: 0 TO: 850' Anticipated Max BHP: 400 **PSI** From: 850' TO: 4450' Anticipated Max. BHP: 2000 PSI From: 4450' TO: TD Anticipated Max. BHP: 4400 PSI

No abnormal pressures or temperatures are anticipated.

Lost Circulation Zones Anticipated: None H2S Zones Anticipated: None Anticipated Maximum Bottom Hole Temperature: 140 F

ANTICIPATED STARTING DATE: 8.

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.



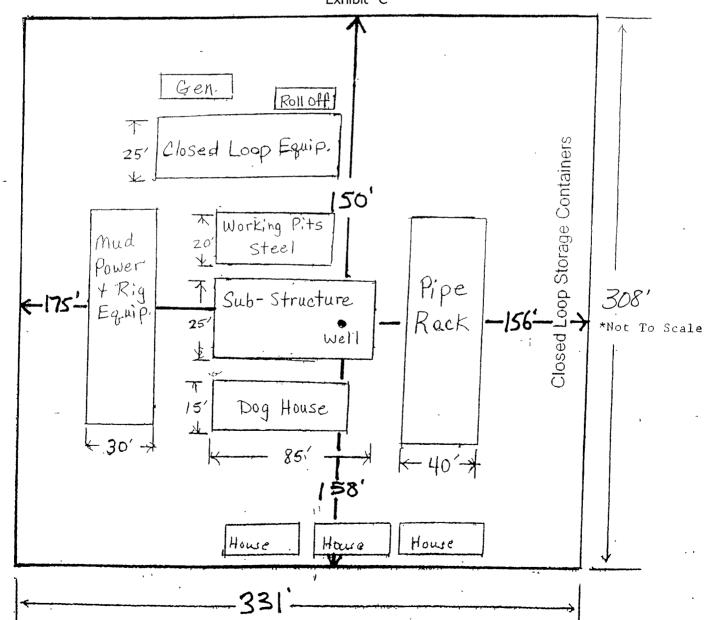
Yates Petroleum Corporation

Location Layout for Permian Basin

Closed Loop Design Plan

Amazing BAZ Federal #1

1980' FSL and 1980' FEL Section 19, T22S-R32E Lea County, New Mexico Exhibit "C"

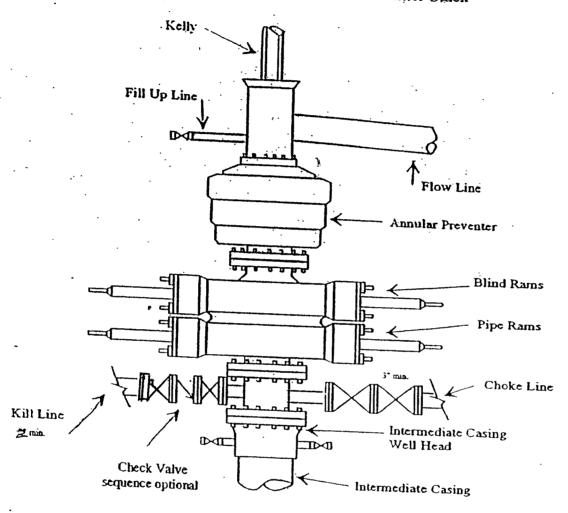




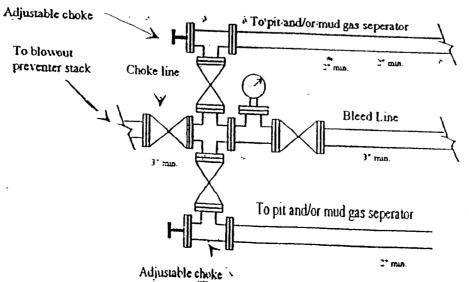
Yates Petroleum Corporation

BOP-3

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

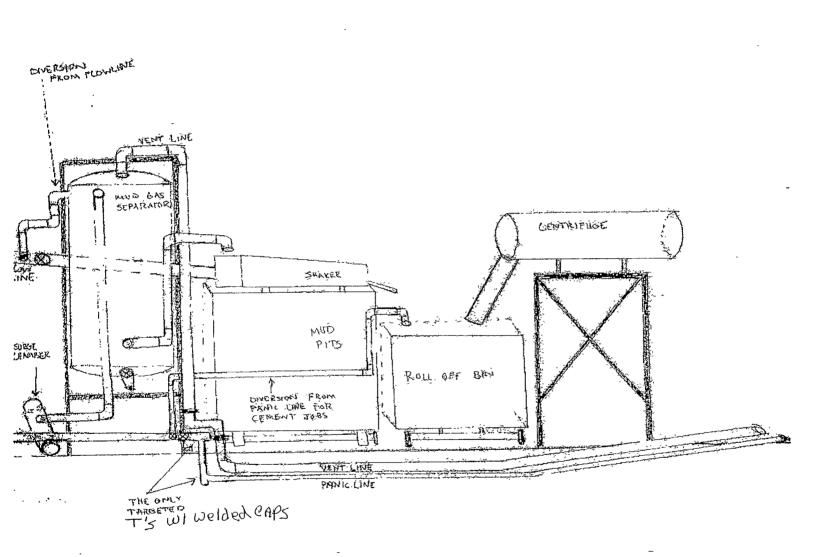


Typical 3,000 psi choke manifold assembly with at least these minimum features



Amazing BAZ Federal #1 1980' FSL and 1980' FEL Section 19, T22S-R32E Lea County, New Mexico Exhibit "B"

YATES PETROLEUM CORPORATION Piping from Choke Manifold to the Closed-Loop Drilling Mud System



Amazing BAZ Federal #1 1980' FSL and 1980' FEL Section 19, T22S-R32E Lea County, New Mexico Exhibit "C-1"

Yates Petroleum Corporation

105 S. Fourth Street Artesia, NM 88210

Hydrogen Sulfide (H₂S) Contingency Plan

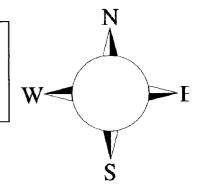
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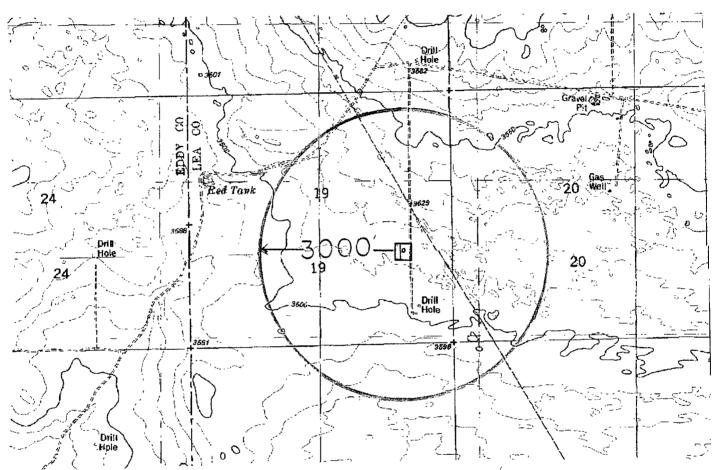
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Amazing BAZ Federal #1 1980' FSL, 1980' FEL Section 19, T-22S, R-32E Lea County, NM

Amazing BAZ Federal #1 Location
This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.





Assumed 100 ppm ROE = 3000' 100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

In the case of a release of gas containing H₂S, the first responder(s) must isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally the first responder(s) must evacuate any public places encompassed by the 100 ppm ROE. First responder(s) must take care not to injure themselves during this operation. Company and/or local officials must be contacted to aid in this operation. Evacuation of the public should be beyond the 100 ppm ROE.

All responders must have training in the detection of H₂S, measures for protection against the gas, equipment used for protection and emergency response. Additionally, responders must be equipped with H₂S monitors and air packs in order to control the release. Use the "buddy system' to ensure no injuries during the response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

YPC personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. YPC Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Yates Petroleum Corporation Phone Numbers

YPC Office	(575) 748-1471
Paul Ragsdale/Operations Manager	
Ron Beasley/Production Manager	(575) 748-4210
Wade Bennett/Prod Superintendent	(575) 748-4236
Mike Lankin/Drilling	(575) 748-4222
Paul Hanes/Prod. Foreman/Roswell	(575) 624-2805
Tim Bussell/Drilling Superintendent	(575) 748-4221
Artesia Answering Service	(575) 748-4302
(During non-office hours)	
Agency Call List	
Lea County (575)	
Hobbs	
State Police	746-2703
City Police	746-2703
Sheriff's Office	
Ambulance	911
Fire Department	
LEPC (Local Emergency Planning Committee)	746-2122
NMOCD	
Lovington	
State Police	885-3137
City Police	
Sheriff's Office	
Ambulance	
Fire Department.	
LEPC (Local Emergency Planning Committee)	
US Bureau of Land Management	
US Bureau of Land Management	667-0544
New Mexico Emergency Response Commission (Santa Fe)	(505)476-9600
24 HR	(505) 827-9126
New Mexico State Emergency Operations Center	(505) 476-9635
National Emergency Response Center (Washington, DC)	(800) 424-8802
-Other	
Boots & Coots IWC1-800-256-9688 or (281) 931-8884	
Cudd Pressure Control(915) 699-0139 or (915) 563-3356	
Halliburton(505) 746-2757	
B. J. Services(505) 746-3569	
Flight For Life -4000 24th St, Lubbock, TX(8	306) 743-9911
Aerocare -Rr 3 Box 49f, Lubbock, TX(3	806) 747-8923
Med Flight Air Amb 2301 Yale Blvd SE #D3, Albuq, NM(505) 842-4433
S B Air Med Svc 2505 Clark Carr Loop SE, Albuq, NM(5	505) 842-4949
D D III Mod D to 2000 Citate Care Doop DE, though the comment	

CERTIFICATION YATES PETROLEUM CORPORATION Amazing BAZ Federal #1

I hereby certify that I or the company I represent, have inspected the drill site and access route proposed herein; that the company I represent is familiar with the conditions which currently exist; that 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 the company I represent is 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 12th day of November, 2009
Printed Name Cy Cowary
Signature Cy Corra
Position Title Land Regulatory Agent
Address_105 South Fourth Street, Artesia, NM 88210
Telephone <u>575-748-4372</u>
E-mail (optional) cy@yatespetroleum.com
Field Representative (if not above signatory) Tim Bussell
Address (if different from above) Same
Telephone (if different from above) 575-748-4221
E mail (ontional)

PECOS DISTRICT CONDITIONS OF APPROVAL

 OPERATOR'S NAME:	Yates Petroleum Corporation
LEASE NO.:	
WELL NAME & NO.:	Amazing BAZ Federal # 1
SURFACE HOLE FOOTAGE:	1980' FSL & 1980' FEL
BOTTOM HOLE FOOTAGE	Same
LOCATION:	Section 19 T. 22S S., R 32 E., NMPM
COUNTY:	Lea County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

I. 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.

II. 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.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working of 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 contection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. 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.

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken: Oil and gas acceptable in least prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, and as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no room antiling will be allowed within up to 200 meters of leks known at the time of penciliting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 15 db in, samed at 30 feet from the nource of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsoad Field Office at 575-234-5972.

VI. CONSTRUCTION

A. NOTUTCATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Hebbs Field Station at (575) 393-3612 at least 3 working days prior to commencial construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

- B. v-DCOR DIRECTION: __East_____
- C. TOPSOL

The operator shall stockpile the topsoil in a low profile manner in order to prevent wind/water erosion of the topsoil. The topsoil will be used for interim and final reclamation.

D. CLUSED LOOP SYSTEM

Tanks are required for driffling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

E. FLOREAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Calisised Eleld Office at (575) 234-5972.

F. 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 pail shall be constructed in a manner which creates the smallest possible surface distarbance consistent with safety and operational needs.

G. ON LUMBER *CORSE ROADS

Road Wide

The access toad 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 part, the surfacing material may be required to be removed as for the contentation.

Where possible, no iroprovements 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 name deemed necessary. Surfacing may be required in the event the road deteriorates, anodes, 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 notice to the

Crowning

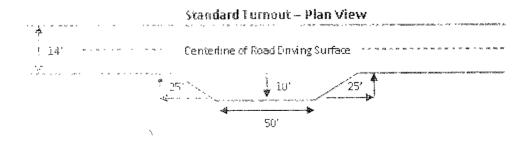
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Dischang

Ditching snak be required on both sides of the road.

Turnouss

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. Furnouts thair conform to the following diagram:



Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outslooing 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 term shall be on the down-slope side of the lead-off ditch.

Cro s Section of a 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 - O 1 a 4% road slope that is 400 feet long, the water flow shall drain water into a read-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 1%; and slope:
$$\frac{400}{4\%}$$
 + 100' = 200' lead-off ditch interval

Culvert Vista Is tions

Appropriately sized culver(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any exicting 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.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

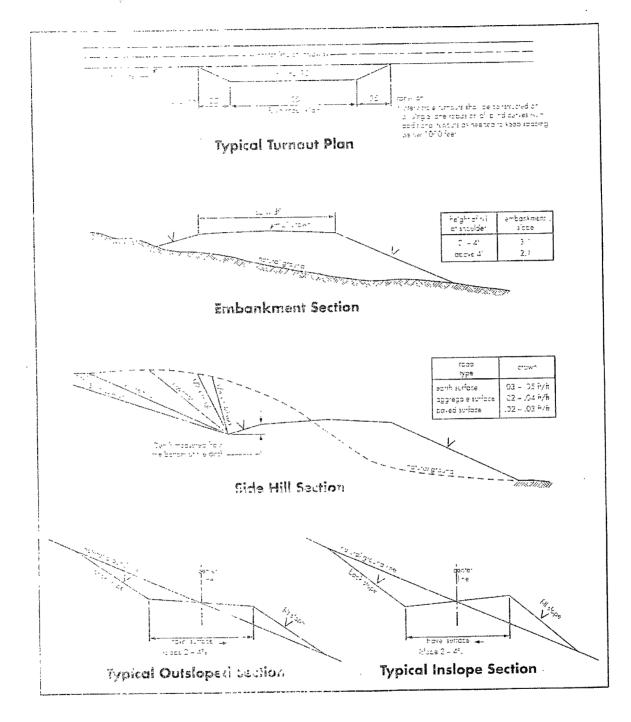
Where every in equire I across a fence line the fence shall be braced and tied off on both sides of the past agreeay of once cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any sence(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



VII. DRIELENG

A. BRELLING OPERATIONS REQUIREMENTS

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 Cemerting of all casing strings
- BOPE tests
 - Der County
 Lal the Hoobs Frenc Station, 414 West Taylor, Hobbs NM 88240, (570) 393-3612
- 1. A Hydrogen Sulfide (H2S) Drilling Plan should be activated 500 feet prior to drilling into the Delaware formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- 2. Unless the production easing has been run and cemented or the well has been properly plagged, the drilling rig shall not be removed from over the hole without prior approval.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, anobstructed, readily accessible to the driller and will be operational at all dimes 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.
- 4. The record of the drilling rate along with the CAL/GR/N well log run from TD to surface will be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Sall are to be recorded on the Completion Report.

B. CASHIL

Changes to the approved APD easing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on sarface casing per Onshore Order 2.III.B.1.f.

Walt on come of (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 compressive strength, whichever is greater for all rusing strings. Provide compressive strengths including hours for read required 160 pounds compressive strength prior to cementing each casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possible A. . and beine flows in the Saludo and Castile groups. Possible lost circulation in the Delaware and Bone Springs.

- 1. The 12% is not an low coping shall be soon approximately 850 feet (a minimum of 25 to 15 to the Russler Archydrife and above the salt) and cemented to the surface. Additional coment may be needed. Excess cement calculates to only 19%.
 - a. If coment does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature on may with a surface reg reacous with be used or a cement bond log shall be run to verify the top of the coment. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours the completing to coment job
 - 5. Walt on cement (NOC) time for a primary cement job is to include the least remeat shurry.
 - wait on cement (WOC) time for a remedial job will be a minimum of 4 hours often bringing content to surface of 500 pounds compressive strength, whichever is greater.
 - d. It coment falls back, remediat cementing will be done prior to drilling out that
- 2. The minimum required file of cement beaind the 8-3/8 inch intermediate easing is:
 - [6] Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 3. The minimum required first of cemera behind the 5-1/2 inch production casing is:
 - a. First stage to DV tool, cement shall:
 - Element to corollate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job.

- In the advantage where DV tool, coment shall:
- (X) (expended the hook at lease 200 feet into previous casing string. Operator wall on said, not not of at writington.
- 4. It hardband drill pipe is reasted 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 parger dismoster than the tool joims of the drill pipe will be installed prior to continuing aritling operations.

C. PRESCURE CONTINUE

All blowest, where the Europe 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. Fining from choice manifold to flare to be as straight as possible.

- 1. All bios our pievotter (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. Minute to working pressure of the blowout preventer (BOP) and related equipment (BCP) required for drilling below the surface casing shoe shall be 3000 (3M) psi.
 - n. How surface casing only: If the BOP/BOFE is to be tested against casing, the way on content (WOO) time for that busing is to be met (see WOC statement as start of casing section).
- 3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. I thing our Chiana BOP installation will not be initiated until the cement has the distance of the prime in a water basin and 12 hours in the potash areas. This other will start effect the centent plug is bumped. Testing the BOP/BOPE two countries, mence after meeting the above conditions plus the BOP includation has e.
 - b. The tests shall be done by an independent service company utilizing a test
 - c. The results of the test shall be reported to the appropriate BLM office.
 - a. The ests are recalled to be recorded on a calibrated test chart. A copy of the set of the service company test of ill the manifecture the apprentiate RLM office.

2. The LOP/BOTE test shall include a low pressure test from 250 to 300 psi.

The test will be 'est block minimum of 10 minutes if test is done with a test

The 20030 relative without a test plug.

D. Driver of great for t

If drill stem trans are purformed. Onshore Order 2.III.D shall be followed.

DHW 5108:10

VIII. PRODECTION (POST DRILLING)

A. WELL STEN CHURES & FACILITIES

Placement of Promission Facilities

Production the little at our disc placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Etructures

The containment structure shall be constructed to hold the capacity of the entire contents of the large to task, plus 24 hour production, taless more stringent protective requirements at a deemed accessary by the Authorized Officer.

Painting Restrictment

All above-ground structures inducting meter housing that are not subject to safety requirements, built be painted a flat non-collective paint color. Shale Green, Monsell Soil Color Chart # 5Y 4/2

IX. INTERNATION

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 manager of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management operators (tim Amos: 575-234-5909) to devise the best strategies to reduce the size of the function. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclanation, the removal of caliche is important to increasing the success of revegetating if a sit. Removal, caliche that is free of contaminants may be used for road repairs, fire we see for building other roads and locations. In order to operate the well or complete with the approximations it may be necessary to drive, park and operate on restored interim vegetation within the previously disjurbed 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.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed making provided below.

Upon completion of intermined amation, the operator shall submit a Sundry Notices and Reports on which Sal requests Report of Reciamation (Form 3160-5).

X. FINAL ABANDONNENT & RECLAMATION

At final absorbances, well locations production facilities, and access roads must undergo 'free rec'amation so that the character and productivity of the land are restored.

Earthwork per man regionastich must be completed within six (6) months of well plugging. All peds, pits, tacility locations and roads must be reclaimed to a satisfactory revegetated, satisfied and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all distanced areas have been satisfactorily prepared; these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be reported anti-revogetation is successful, as determined by the BLM.

Operators shad contact a BluM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Reed Miniture for LPC Sand/Shinnery Sites

The holder the seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the replace of seed will be done in accordance with State law(s) and this is nine (9) no this prior to nurchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be prested using a crili equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and the planted that). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be taken or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be routiled. The deeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be prented in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Edishegrass Land Blues am Little Thuestom Big Islanssem Plains Corcopsis Sand Diopseed	5Tos/A 5los/A 3Hbs/A 6Hbs/A 2Hbs/A Ubs/A
•	

^{**}Four-winged Saltbush

Pounds of scad a parcent purity at percent germination = pounds pure live seed

⁵lbs/A

^{*} This are used around well pads and other areas where caliche cannot be removed.

^{*}Pounds or care tive tead: