DOI-BLM-17M-PO20 2009

OCD Artesla

ATS-09-441

Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

AUG 11 2009

0 OMB No 1004-0136 Expires November 30, 2000

5. Lease Senal No NM-44532

APPLICATION FOR PERMIT TO D	RILL OR REENTER		6. If Indian, Allottee or T	ribe Name	
la Type of Work: X DRILL RE	EENTER		7. If Unit or CA Agreem	ent, Name and No.	
			Lease Name and Well	No.	
b. Type of Well.	Single Zone	Multiple Zone	Sosa Federal #	3H	
2. Name of Operator			9. API Well No	250101	
Yates Petroleum Corporation			30-015-	<u>37910</u>	
3A Address 105 South Fourth Street Artesia, New Mexico 88210	3b. Phone No. (include area code (505) 748-147	_?) ' 1	10. Field and Pool, or Ex Brushy Craw - BCH Wildeat Delaw	ploratory are	
4 Location of Well (Report location clearly and in accordance with an	ny State requirements.*) Pil	of hole 5400'	11 Sec, T., R, M., or B		
At surface 330' FNL and 330' FWL	Surface Hole Location	TVD 5150' mp 89c1'	Section 15, 1	726S-R29E	
	L Bottom Hole Location		***		
14. Distance in miles and direction from nearest town or post office*			12 County or Parish	13. State	
Approximately 35 miles southeast of Carlsbad	<u> </u>		Eddy County	NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig unit line, if any)	16. No. of Acres in lease	17 Spacing Ur	Just dedicated to this well NW/NW SL NE/NE BHL		
18 Distance from proposed location* to nearest well, drilling, completed,	19. Proposed Depth	20 BLM/BIA	Bond No on file		
applied for, on this lease, ft 1100'	5400'		NMB 000434		
21 Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will	Approximate date work will start* 23 Estimated duration			
2932' GL	ASAP		45 days		
	24. Attachments				
The following, completed in accordance with the requirements of Onsho	ore Oil and Gas Order No 1, shall b	e attached to this	form		
l Well plat certified by a registered surveyor	4 Bond to cove	r the operations	unless covered by an existi	ng bond on file (see	
2 A Drilling Plan	Item 20 abov	e)			
3 A Surface Use Plan (if the location is on National Forest System Lan	ds, the 5. Operator cert	fication.			
SUPO shall be filed with the appropriate Forest Service Office.	6 Such other sn authorized of	•	ation and/or plans as may b	e required by the	
25 Signature ,	Name (Printed/Typed)		Dat	e	
y Chran	Cy Cowan	Cy Cowan 6/2/2009			
Regulatory Agent	,				
Land Regulatory Agent					
Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed)	s'	Dat	AUG 4 2009	
Title ACTING FIELD MANAGER	Office	CAR	LSBAD FIELD OFFICE		
Application approval does not warrant or certify that the applicant hold	s legal or equitable title to those righ	its in the subject	lease which would entitle th	e applicant to conduct	
operations thereon		V DDD	OVAL EOD TIMO	VEARS	
Conditions of approval, if any, are attached		APPK	OVAL FOR TWO	ICANO	

Previously approved

Conditions of approval, if any, are attached

Carlsbad Controlled Water Bas

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

Title 18 U S C Section 1001 and Title 43 U S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL Form 3160-5

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No 1004-0137 Expires March 31, 2007

(February 2005) OCD-ARTES BUREAU OF LAND MANAGEMENT Lease Serial No. **SUNDRY NOTICES AND REPORTS ON WELLS** NM-44532 Do not use this form for proposals to drill or reenter an If Indian, Allottee or Tribe Name abandoned well. Use Form 3160-3 (APD) for such proposals. N/A If Unit or CA/Agreement, Name and/o SUBMIT IN TRIPLICATE - Other instructions on page 2. N/A Type of Well Well Name and No X Oil Well Gas Well Other Name of Operator Sosa Federal #3 H API Well No Yates Petroleum Corporation 025575 3a Address Phone No (include area code) 105 South Fourth Street, Artesia, NM 88210 (505) 748-1471 Field and Pool, or Exploratory Area Brushy Draw
WHOCAT Delaware Location of Well (Footage, Sec., T., R., M., or Survey Description) 11 County or Parish, State 330' FNL & 330' FWL, NWNW, 15-T26S-R29E, Surface Hole, (Pilot) Hole 330' FNL & 950' FEL, NENE, 15-T26S-R29E, Bottom Hole Eddy County, NM 12 CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Acidize Deepen Production (Start/Resume) Water Shut-Off Fracture Treat Reclamation Well Integrity Alter Casing Subsequent Report New Construction Recomplete Other Correct Casing Repair Plug and Abandon Temporarily Abandon APD Change Plans Final Abandonment Notice Plug Back Water Disposal Convert to Injection 13 Describe Proposed or Completed Operation Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection) Yates Petroleum Corporation wishes to correct portions of the Drilling Plan & provide a schematic of the 2M BOPE. Attached are corrected pages to be inserted in the APD to correct deficiencies. Thank you.

Engineering Heriew - OK RGH 8/3/09

14 I h	reby certify that the foregoing is true and correct		
Nar	Printed/Typed Titl	e	
	Cy Cowan	Land Regula	tory Agent
Sig	are two	e July 1, 3	3009
	THIS SPACE FOR FED	ERAL OR STATE USE	
Approve	/s/ Don Peterson	Title FIELD MANAGER	Date AUG 4 2009
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon		Office CARLSB	AD FIELD OFFICE

Title 18 U S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United salse fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Care in A Land of religious as the

District I State of New Mexico

Form C-102

1625 N. French Dr., Hobbs, NM 88240 Energy, Minerals & Natural Resources Department Revised October 12, 2005

District II

Submit to Appropriate District Offic

OIL CONSERVATION DIVISION

Submit to Appropriate District Office -State Lease - 4 Copies

1801 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

1220 South St. Francis Dr. Santa Fe, NM 87505 Fee Lease - 3 Copies

District IV

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

□ AMENDED REPORT

			ACREAGE DEDICATION PLAT	
1 API Numl	้ จาาท	2 Pool Code	Brush: Dww. Wildeat Delaware	
4 Property Code	71901	5.5	roperty Name 1	6 Well Number
13760	`	SOSA	•	3 <i>H</i>
7 OGRID No.		8 (perator Name	9 Elevation
025575		YATES PETRO	OLEUM CORPORATION	2932

¹⁰ Surface Location UL or lot no Feet from the North/South lin Feet from the D 15 WEST 26-S 29 - E330 **EDDY** 330 NORTH ${\it B}$ ottom HoleLocation In DifferentFrom Surface UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 15 EAST A 26-S 29-E330 NORTH 950 **EDDY** 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code Order No. 160

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.

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330	PROJECT	AREA	88	17 OPERATORS CERTIFICATION
330' S.L.	S89°11'23"E	4608'	950' BHL	If hereby certify that the information contained herein is frue and complete to the best of my brovoledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including
	PRODUCING	AREA	330'	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 mineral or working interest, or to voluntary pooling agreement or a computacry pooling order heretafore entered by the division.
SURFACE LOCATION (S N = 381663 E = 650998 LAT N32.04878 LON W103.97939 NAD 83 NM EAST	(T.)	APPRO. BOTTOM N = 38 E = 65 LAT N32 LON W(1)	XIMATE PROPOSED (HOLE LOCATION (B.H.) 1605 5108	Signature Coward Printed Name Land Regulatory Agent Refer to Original Plat
-				18 SURVEYOR CERTIFICATION SURFACE LOCATION ONLY 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. Signature and Seal of Professional Surveyor. JUNE 12, 2006
				Date of Superty R. R. F. D. D. MENICO

YATES PETROLEUM CORPORATION Sosa Federal #3H

330' FNL and 330' FWL Surface Hole Location 330' FNL and 950' FEL Bottom Hole Location Section 15-T26S-R29E Eddy County, New Mexico

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

Rustler	330'	Cherry Canyon	3850' Oil
Top of Salt	710'	Brushy Canyon	5120 Oil
Base of Salt	2945'	TD	5400'
Bell Canyon	2970'		

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

Water: 85'

Oil or Gas: Cherry Canyon; Brushy Canyon

3. Pressure Control Equipment: BOPE will be installed on the 9 5/8" casing and rated for 3000 BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout Preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

Yates Petroleum Corporation requests a variance to install a retating head on the surface easing strings when intermediate casing will be set. If a BOP system is required then we wish to install a 2M system and receive a variance to test the system to 1000# using the rig pumps. The test will be held for 30 minutes on each system component. Components to be tested include pipe rams, blind rams, and annular preventer.

- 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	<u>Grade</u>	Coupling	<u>Interval</u>	<u>Length</u>
14 3/4"	9 5/8"	36#	J-55	ST&C	0-500'	500'
7 7/8"	Open Hole-Pilot				750-5400'	5400' TVD
7 7/8"	5 1/2"	17#	HCP-110	LT&C	0-8901'	8901' MD

, see COA

Pilot hole drilled to 5400'. Well will be plugged back with 180' plug on bottom. Then a 400'-500' kick off plug with KOP at approximately 4628'. Well will be kicked off and directionally drilled at 12 degrees per 100' with a 7 7/8" hole to 8901 MD (5150 TVD) where 5 ½" casing will be set and cemented. Penetration point of producing zone will be encountered at 330' FNL & 801' FWL Section 15-26S-29E. Deepest TVD in the well is 5400' in the pilot hole. Deepest TVD in lateral is 5150'.

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

Sosa Federal #3H Page 2

B. CEMENTING PROGRAM:

Surface Casing: 525 sacks 'C' (WT 14.80 YLD 1.32) + 2% CaCL2. TOC is surface.

Production Casing: Stage 1, DVT @5000- TOC-5000'; 975 sacks PecosViLt (WT 13.00

YLD 1.41).

Stage 2; TOC surface; 745 sacks LiteCrete (WT 9.90 YLD 2.34)

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0-500'	Fresh Water/Gel	8.40-9.20	28-32	N/C
500'-5400'	Brine Water	9.90-10.00	28-29	N/C
4628'-8901'	Brine Water (horizontal section	on) 9.90-10.00	28-29	N/C

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: 30' samples to 3000'. 10' samples from 2900' to TD.

Logging: Platform Hals/CMR.

Coring: None.

DST's: As warranted.

Mudlogging: Yes

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

PSI From: 0 Anticipated Max. BHP: 240 TO: 500' From: 500' TO: 5400' Anticipated Max. BHP: 2810 PSI

No abnormal pressures or temperatures are anticipated.

Lost Circulation Zones Anticipated: None

H2S Zones Anticipated: None Anticipated

Maximum Bottom Hole Temperature: 128F.

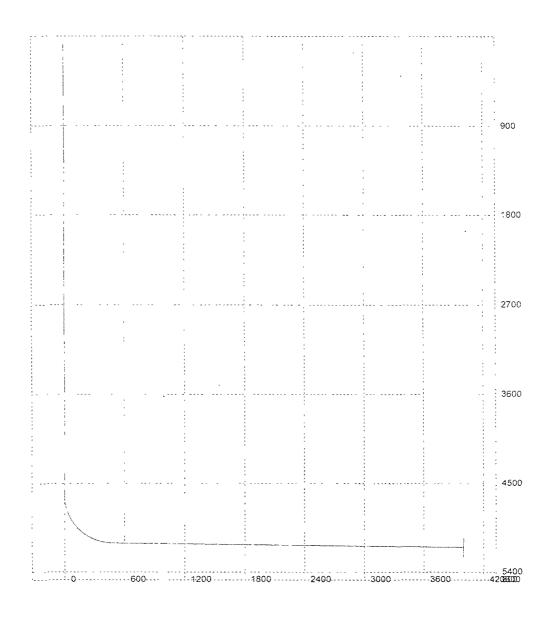
8. ANTICIPATED STARTING DATE:

Plans are to re-enter this well as soon as possible after receiving approval. It should take approximately 30 days to re-enter the well with completion taking another 15 days.

Well is not a re-entry.

M.D.	Minclination	Azimuth	ART V.D.	N+/S-2	©E+M÷∑√	acd.tcs.才	⊴ToolFace	T.F.Ref [HS/GN]	folio programa de fores y y se est de la companya d
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330			330					"" ""	RUSTLER
710	0	0	710	0	0	0			TOP OF SALT
2945	0	0	2945	0	0	0			BASE OF SALT
2970	0	0	2970	0	0	0			BELL CANYON
3850	0	0	3850	0	0	0			CHERRY CANYON
4628	173.270	2010年 (1988)	4628	134102211		12	90	THE GN-THE	受験で、KOPに対する。
4650	2 64	90	4649.99	0	0 51	12	0	HS	
4675	5 64	90	4674 92	0	2 31	12	0	HS	
4700	8.64	90	4699.73	0	5 42	12	0	HS	
4725	11.64	90	4724 33	0	9.82	12	0	HS	
4750	14.64	90	4748 68	0	15 5	12	0	HS	
4775	17 64	90	4772 69	0	22 45	12	0	HS	***************************************
4800	20 64	90	4796 3	0	30 65	12	0	HS	
4825	23 64	90	4819 46	0	40 07	12	0	HS	
4850	26 64	90	4842.09	0	50 69	12	0	HS	
4875	29.64	90	4864 13	0	62 48	12	0	HS	
4900	32 64	90	4885.53	0	75 4	12	0	HS	
4925	35 64	90	4906.21	0	89.43	12	0	HS	
4950	38 64	90	4926 14	0	104 52	12	0	HS	
4975	41 64	90	4945.25	0	120 64	12	0	HS	
5000	44 64	90	4963.49	0	137 73	12	0	HS	
5025	47 64	90	4980 81	0	155.76	12	0	HS	
5050	50 64	90	4997 17	0	174.66	12	0	HS	
5075	53 64	90	5012 51	0	194 4	12	0	HS	
5100	56 64	90	5026.79	0	214 91	12	0	HS	
5125	59,64	90	5039 99	0	236 14	12	0	HS	
5150	62 64	90	5052.05	0	258 03	12	0	HS	
5175	65 64	90	5062 96	0	280.53	12	0	HS	
5200	68.64	90	5072.67	0	303 56	12	0	HS	
5225	71 64	90	5081 16	0	327 07	12	0	HS	
5250	74 64	90	5088 41	0	350 99	12	0	HS	
5275	77 64	90	5094.4	0	375 26	12	0	HS	
5300	80,64	90	5099 11	0	399,81	12	0	H\$	
5325	83.64	90	5102.53	0	424 57	12	0	HS	
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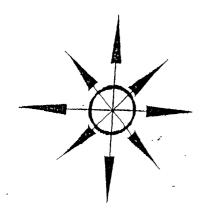
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3D³ Directional Drilling Planner - 3D View Company Yates Petroleum Corporation Well: Sosa Federal #3H

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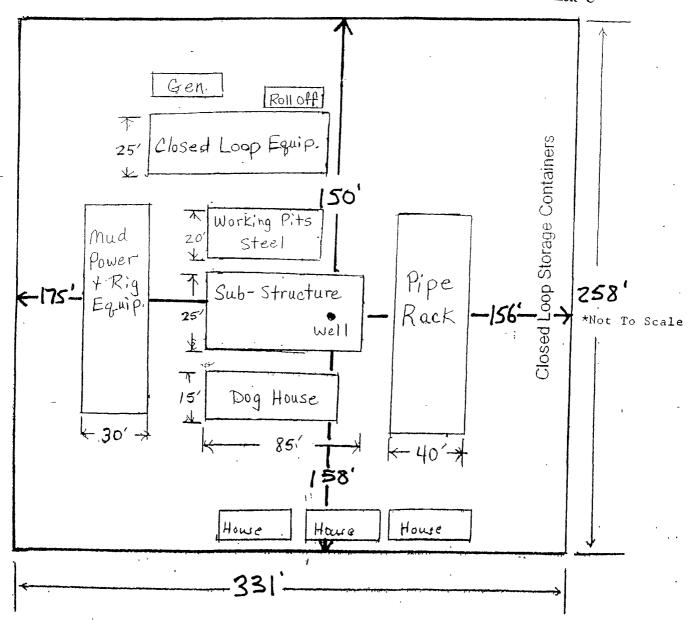


Yates Petroleum Corporation

Location Layout for Permian Basin

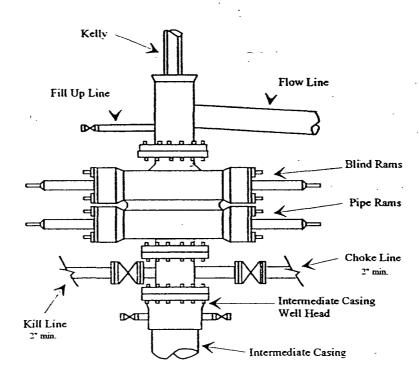
Closed Loop Design Plan

Sosa Federal #3H 330' FNL & 330' FWL, SHL 330' FNL & 950' FEL, BHL Section 15, T26S-R29E Eddy County, New Mexico Exhibit "C"

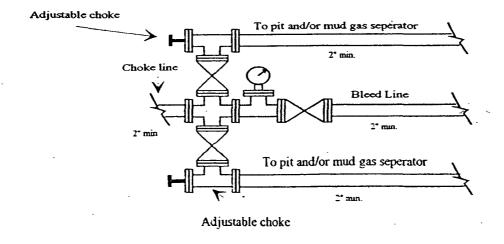


Yates Petroleum Corporation

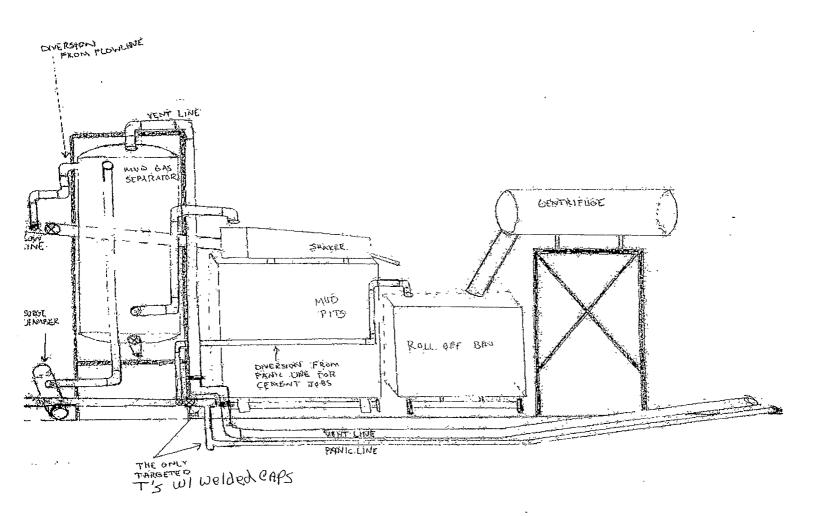
Typical 2,000 psi Pressure System
Schematic
Double Ram Preventer Stack



Typical 2,000 psi choke manifold assembly with at least these minimun features



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



MULTI-POINT SURFACE USE AND OPERATIONS PLAN YATES PETROLEUM CORPORATION

Sosa Federal #3H

330' FNL and 330' FWL Surface Hole Location 330' FNL and 950' FEL Bottom Hole Location Section 15, T26S-R29E Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

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 35 miles southeast of Carlsbad, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go south of Carlsbad on Highway 285 for approximately 28.5 miles to Whitehorn Road (CR-725). Turn east on Whitehorn Road and go approximately 5.6 miles. The proposed well location is on the left side of the county road. No new road will be needed to access the location.

PLANNED ACCESS ROAD:

- A. No new access road will be needed.
- B. N/A
- C. N/A
- D N/A
- E Existing roads will be maintained in the same or better condition.

LOCATION OF EXISTING WELL:

- A. There is drilling activity within a one-mile radius of the wellsite.
- B. Exhibit 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:

The dirt contractor will acquire any materials from the closest source at the time of construction of the well pad.

7. METHODS OF HANDLING WASTE DISPOSAL:

A. A closed loop system will be used to drill this well.

- B. The closed loop system will be constructed, maintained, and closed in compliance with the State of New Mexico, Energy and Natural Resources Department, Oil Conservation Division the "Pit Rule" 19.15.17 NMAC.
- 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:

A buried flow line will be constructed and will follow the same route as the powerline to the Sosa Federal #1 location in the SE/SE/4 of Section 15, T26S-R29E. This project was included with our Sosa Federal #3 APD approved 7/6/06. See attached exhibit.

9. WELLSITE LAYOUT:

A. Exhibit C shows the relative location and dimensions of the well pad, the closed loop mud system, location of the drilling equipment, rig orientation and access road approach. The proposed well location will be approximately 350' x 300'.

B. The closed loop system will be constructed, maintained and closed in compliance with the State of New Mexico, Energy and Natural Resources Department, Oil Conservation Division—the "Pit Rule" 19.15.17 NMAC.

C. A 600' x 600' area has been previously staked and flagged for archaeological purposes; refer to arc report on file.

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: Federal Surface, Administered by Bureau of Land Management, Carlsbad, New Mexico.

Sosa Federal #3H Page 3

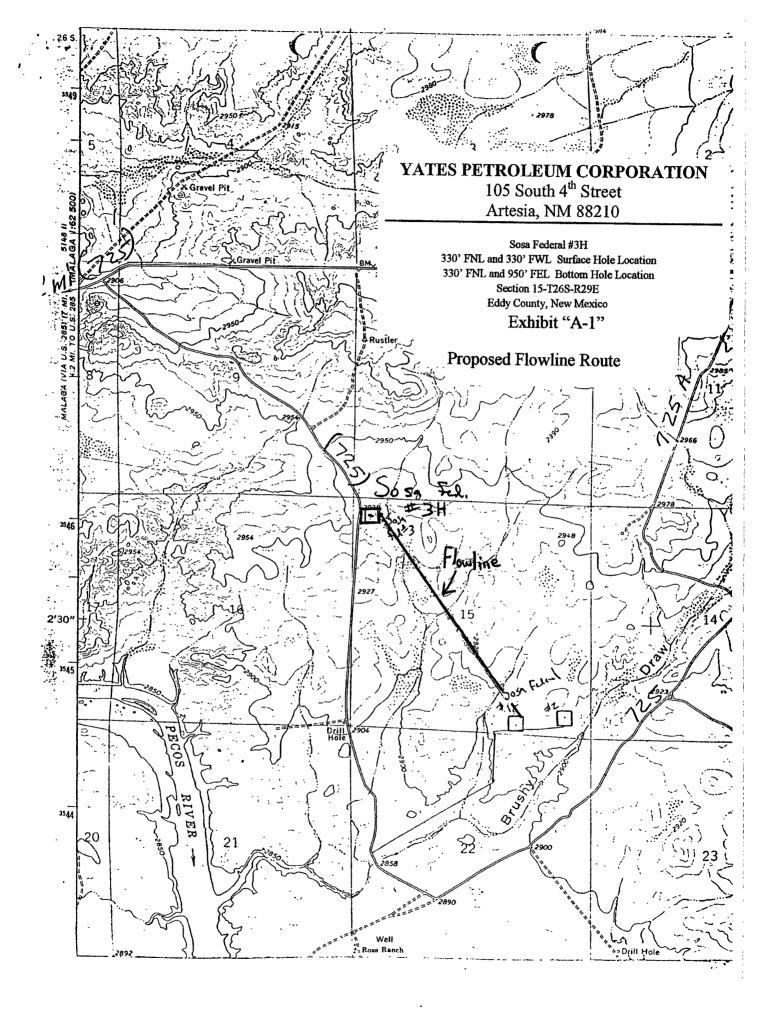
12. OTHER INFORMATION:

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

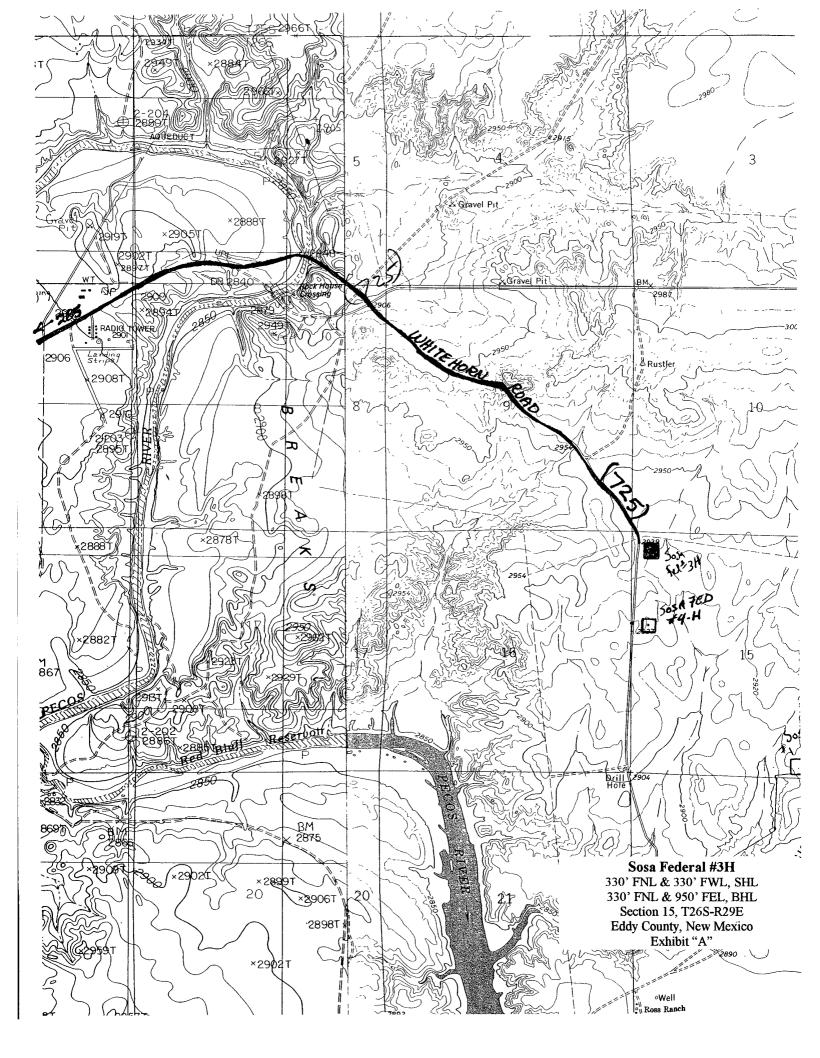
CERTIFICATION YATES PETROLEUM CORPORATION Sosa Federal #3H

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	2nd	day of	June	, <u>2009</u>
Printed Name C	y gowan)		
Signature	4	mar		
Position Title	Land Re	egulatory Ager	nt	
Address 105 Sc	uth Four	th Street, Arte	sia, NM 88210	
Telephone 575-7	748-4372		1111	
E-mail (optional)	cy@yate	espetroleum.co	om	
Field Representa	ative (if n	ot above signa	atory) <u>Tim Bus</u>	sell
Address (if differ	ent from	above) Sa	ame	
Telephone (if diff	ferent fro	m above) <u>575</u>	-748-4221	
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PECOS DISTRICT CONDITIONS OF APPROVAL

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OPERATOR'S NAME:	YATES PETROLEUM CORPORATION
LEASE NO.:	NM044532
WELL NAME & NO.:	SOSA FEDERAL #3H
SURFACE HOLE FOOTAGE:	0330' FNL & 0330' FWL
BOTTOM HOLE FOOTAGE	0330' FNL & 0950' FEL
LOCATION:	Section 15, T. 26 S., R 29 E., NMPM
COUNTY:	Eddy County, New Mexico

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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.

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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 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.

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)

Cave and Karst

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

The pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the pad. All sides will be bermed.

Tank Battery Liners and Berms:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5972 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 APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall stockpile the topsoil of the well pad. The topsoil to be stripped is approximately 6 inches in depth. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. RESERVE PITS

Tanks are required for drilling operations: No Pits.

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

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 Carlsbad Field Office at (575) 234-5972.

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 needs.

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

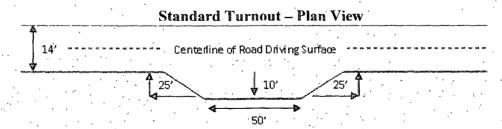
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

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:

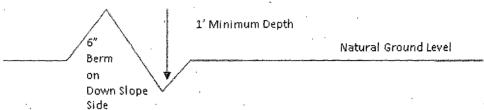


Drainage

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: 400'/4% + 100' = 200' lead-off ditch interval **Culvert Installations**

Appropriately sized culvert(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 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.

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

Fence Requirement

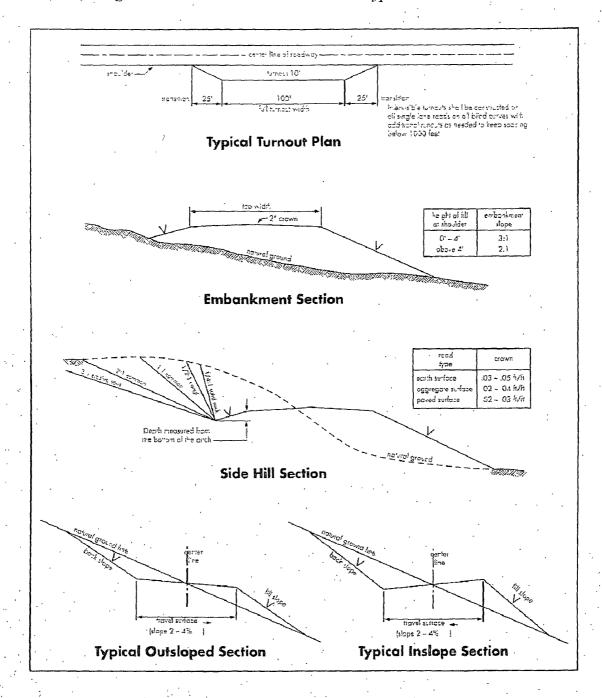
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

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



VII. DRILLING

A. DRILLING 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 Cementing of all casing strings
- c. BOPE tests
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
- 1. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

B. CASING

Changes to the approved APD casing 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 surface casing per Onshore Order 2.III.B.1.f.

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 compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual 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.

HIGH CAVE/KARST – CONTINGENCY CASING WILL BE REQUIRED IF LOST CIRCULATION OCCURS WHILE DRILLING THE SURFACE HOLE. THE SURFACE HOLE WILL HAVE TO BE REAMED AND A LARGER CASING INSTALLED OR ANOTHER CASING STRING WILL BE REQUIRED INSIDE THE 9-5/8" CASING. IF LOST CIRCULATION OCCURS WHILE DRILLING THE 7-7/8" HOLE, THE CEMENT PROGRAM FOR THE 5-1/2" CASING WILL NEED TO BE MODIFIED AND THE BLM IS TO BE CONTACTED PRIOR TO RUNNING THE CASING. A MINIMUM OF TWO CASING STRINGS CEMENTED TO SURFACE IS REQUIRED IN HIGH CAVE/KARST AREAS. THE CEMENT MUST BE A SOLID SHEATH THEREFORE, ONE INCH OPERATIONS WILL NOT BE PERMITTED. A DV TOOL WILL BE REQUIRED.

Possible lost circulation in the Salado and Delaware Mountain Groups. Possible brine and water flows in the Salado Group.

- 1. The 9-5/8 inch surface casing shall be set at approximately 500 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If the salt is encountered at a shallower depth, the casing is to be set a minimum of 25 feet above the salt.
 - 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 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 is to include the lead cement slurry.
 - 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 compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Pilot hole plugging procedure approved as written with the additional requirement that the bottom plug be tagged. The BLM is to be contacted (575-361-2822) prior to tag of bottom plug. Tag depth to be reported on subsequent sundry with spud/casing details.

Centralizers required on horizontal leg, must be type for horizontal service and minimum of one every other joint.

- 2. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - a. First stage to DV tool, cement shall:
 - Cement to circulate. If cement does not circulate, contact the appropriate BLM office, before proceeding with second stage cement job.
 - b. Second stage above DV tool, cement shall:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 3. 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 **2000 (2M)** psi.
- 3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. 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.
 - d. 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.

D. DRILL STEM TEST

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

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VIII. PRODUCTION (POST DRILLING)

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

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 Shale Green, Munsell Soil Color Chart # 5Y 4/2

B. PIPELINES

BLM LEASE NUMBER NM-44532

COMPANY NAME <u>Yates Petroleum Corporation</u>
WELL NO. & NAME <u>Sosa Fed #3H</u>

BURIED PIPELINE STIPULATIONS

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A

copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

- 5. All construction and maintenance activity will be confined to the authorized right-of-way.
- 6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
- 7. Blading of all vegetation will be allowed. Blading is defined as the complete removal of brush and ground vegetation. Clearing of brush species will be allowed. Clearing defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface. In areas where blading and/or clearing is allowed, maximum width of these operations will not exceed 35 feet
- 8. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 9. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in row, piles, or berms, unless otherwise approved by the Authorized Officer. A berm will be left over the ditch line to allow for settling back to grade.
- 10. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 11. The holder will reseed. Seeding will be done according to the attached seeding requirements, using the following seed mix.

() seed mixture 1	•	(X) seed mixture 3
() seed mixture 2	,	() seed mixture 4

- 12. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2.
- 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

- 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
- 15. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder 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 will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

IX. 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.

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.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used for road repairs, fire walls or for building other roads and locations. 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.

Seed Mixture 3, for Shallow Sites

The holder shall 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 <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. 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 planted using a drill 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 are planted first). 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 raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding 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 planted in pounds of pure live seed* per acre:

Species	lb/acre
Plains Bristlegrass (Setaria magrostachya)	1.0
Green Spangletop (Leptochloa dubia)	.2.0
Side oats Grama (Bouteloua curtipendula)	5.0

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed (Insert Seed Mixture Here)

X. 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 agreement.