N.M. Oil Cons. DIV-Dist. 2 1301 W. Grand Avenue Artesia, NM 88210

Form 3160-3 (February 2005)

UNITED STATES

FORM APPROVED OMB NO. 1004-0137 Expires. March 31,2007

DEPARTMENT OF THE INTERIOR 5. Lease Serial No. APPLICATION FOR PERMIT TO DRILL OR REENTER ARTES NM-33266 6. If Indian, Allottee or Tribe Name Not Applicable 7. If Unit or CA Agreement, Name and No REENTER la. Type of Work: X DRILL 8. Lease Name and Well No. 1b. Type of Well: Oil Well X Gas Well X Single Zone Multiple Zone Huggins Federal #4 9. API Well No. Name of Operator 30 - 005 - 646/5 10. Field and Pool, or Exploratory Yates Petroleum Corporation 025575 3a Address 3b. Phone No. (include area code) Wildcat, Granite 105 South Fourth Street, Artesia, NM 88210 575-748-1471 Location of well (Report location clearly and In accordance with any State requirements.*) 11. Sec, T, R, M., or Blk. And Survey or Area At surface 1400' FNL and 660' FEL, Unit'H Section 15, T5S-R24E At proposed prod. zone 14 Distance in miles and direction from the nearest town or post office* 12. County or Parish 13 State Approximately thirty-three (33) miles northeast of Roswell, NM NM Chaves 17. Spacing Unit dedicated to this well 15. Distance from proposed* 16. No. of acres in lease location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) 660' 160.00 320 acres N/2 18. Distance from proposed location* 19. Proposed Depth 20 BLM/ BIA Bond No. on file to nearest well, drilling, completed, applied for, on this lease, ft. NATIONWIDE BOND #NMB000434 1500 5310' 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Aproximate date work will start* 23. Estimated duration 3951' GL **ASAP** 30 days **ROSWELL CONTROLLED WATER BASIN** 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form: 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by existing bond on file(see A Drilling Plan item 20 above). A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office) 6 Such other site specific information and/ or plans as may be required by the 25. Signature Name (Printed/ Typed) Debbie L. Caffall 10/23/2007 Title Regulatory Agent Approved By (Signature) Name (Printed/ Typed) Date (Orig. Sgd.) Jerry Dutchover Assistant Field Manager. Title 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 to co operations thereon.

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

* (Instructions on page 2)

Previously Attached

C-144 attached

C-102 attached

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

APPROVED FOR 2 YEARS



District I 1625 N. French Dr., Hobbs, NM 88240 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

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

District IV

State of New Mexico

Energy, Minerals & Natural Resources Department

OCD-ARTESIA 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102 Revised October 12, 2005

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL	LOCATION	AND ACREAGE	DEDICATION PLAT

,			WELL LC	CAHO	N AND ACK	EAGE DEDIC	ATION PLA	1	
¹ API Number				² Pool Code	;		³ Pool Nan	ne	
			1	96542			Wildcat, Gra	anite	'
4 Property C	ode	⁵ Property Name				⁶ Well Number			
12386		HUGGINS FEDERAL					4		
⁷ OGRID N	lo.	⁸ Operator Name ⁹ Elevation					Elevation		
025575	ļ			YATE	YATES PETROLEUM CORPORATION 3951'				
					¹⁰ Surface 1	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
н	15	5S	24E	*	1400	NORTH	660	EAST	CHAVES
		L	11 Bo	ttom Ho	le Location If	Different From	n Surface		· · · · · · · · · · · · · · · · · · ·
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres	13 Joint o	r Infill	14 Consolidation	Code 15 Or	rder No.				
320 - N/2									

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.

	The second secon		17 OPERATOR CERTIFICATION 1 hereby certify that the information contained herein is true and complete
			to the best of my knowledge and belief, and that this organization either
	NM-33266	\ \ \ \	owns a working interest or unleased mineral interest in the land including
		,00/11	the proposed bottom hole location or has a night to drill this well at this
		- 	location pursuant to a contract with an owner of such a mineral or working
			interest, or to a voluntary pooling agreement or a compulsory pooling
		660,	Order heretofore entered by the division 10/23/07 Signature Date Debbie L Caffall Printed Name Regulatory Agent Title
	CHARLES THE PARTY OF THE PARTY		18GLIDATEVOD GEDTIEIGATION
			18 SURVEYOR CERTIFICATION
			I hereby certify that the well location shown on this
			plat was plotted from field notes of actual surveys
			made by me or under my supervision, and that the
			same is true and correct to the best of my belief
			Date of Survey
			Signature and Seal of Professional Surveyor.
			REFER TO ORIGINAL PLAT
			Certificate Number
			Communic intilities

PISTRICT 1 P.O. Box 1950, Bobbs, NM 88240

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State of New Mexi

Baargy, Minerale and Satural Secourses Dej. ,t.

Form C-1 Rovised February 10, 11 Instruction on be Submit to Appropriate District Off State Loses - 4 Cog

DISTRICT II F.O. Drewer DD, Artesia, NY 86210

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

D AMENDED REPO

For laure - 3 Cog

DISTRICT III 1600 Ido Brazos Rd., Astec, NM 87410

			MELL LO	CATION	AND ACREA	GE DEDICATION	ON PLAT		
API Number Pool Code Pool Name									
		·	Pecos Slope Abo						
Property C	Property Code Property Name					Well Hu	mpes.		
OGRID No				HUG	GINS FEDERAL			Eleval	-
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		!			Surface Loc				
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YATES PETROLEUM CORPORATION Huggins Federal #4

1400 FNL & 660 FEL Section 15-T5S-R24E Chaves County, New Mexico

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

San Andres	585'	Abo	3545'
Glorieta	1425'	Wolfcamp	4360'
Yeso	1540'	Granite Basement	5160'
Tubb	2910'	TD	5310'

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

Water: 225'-325' Oil or Gas: 5160'

3. Pressure Control Equipment: BOPE will be installed on the 11 3/4" casing and rated for 2000# BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout Preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

Auxiliary Equipment:

- A. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.
- 4. THE PROPOSED CASING AND CEMENTING PROGRAM:
 - A. Casing Program: (All New)

Hole Size	Casing Size	Size Wt./Ft	<u>Grade</u>	Coupling	Interval	<u>Length</u>
14 3/4"	11 3/4"	42#	H-40	ST&C	0-900'	900'
11"	8 5/8" *	24#	J-55	ST&C	0-1500'	1500'
7 7/8"	5 1/2"	15.5#	, J-55	ST&C	0-5200'	5200'
+ O F/O" -	A					

- * 8 5/8" casing will be set only if lost circulation is encountered.
- 1. Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Tensile Strength 1.80
- 2. Yates Petroleum Corporation requests a variance be granted in requiring the casing and BOPE to be tested to 2000 psi to testing the casing and BOPE to 1000 PSI. The rig pumps will be used to test the casing and BOPE. Rig pumps used in this area cannot safely test above 1000 PSI. We would have to go to the greater expense of hiring an independent service company to do the testing. Also, the maximum shut-in bottom hole pressure is 1100 PSI. Pressure at the surface is much less. Most of the time the Abo formation requires treatment before it flows.

Huggins Federal #4 Page 2

B. CEMENTING PROGRAM:

Surface casing: Cement with 200 sx Lite "C" (Yield 2.0 Wt. 12.5). Tail in with 200 sx "C" + 2% CaCl2 (Yield 1.33, Wt. 15.6). Cement to surface.

Intermediate casing: 300 sx Lite (Yield 2.0, Wt. 12.0). Tail in with 200 sx Class "C" + 2% CaCl2 (Yield 1.33 Wt. 14.8). Intermediate casing if run is with sufficient amount of cement to bring it up at least 200 above shoe.

Production Casing: Cement with 450 sx PVL (Yield 1.34 Wt. 13.0). Cement shall extend upward a minimum of 500 feet above the uppermost perforation.

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
Spud-900'	FW Gel/Paper/LCM	8.6-9.0	32-36	N/C
900'-1500'	FW or Cut Brine	8.4-9.0	29	N/C
1500'-3520'	Brine	10.0-10.2	28	N/C
3520'-5200'	Salt Gel/Starch	9.3-10.2	34-45	<10cc

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: 20' samples out from under surface casing to TD.

Logging: DLL/MSFL, Neutron Density TD to surface casing; with GR/CNL to surface.

Coring: Sidewall. DST's: None.

ABNORMAL CONDITIONS, BOTTOM HOLE PRESSURE, AND POTENTIAL HAZARDS:

Anticipated BHP:

From: 0 To: 900' Anticipated Max. BHP: 375 PSI From: 900' To: TD Anticipated Max. BHP: 2400 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: None.

Maximum Bottom Hole Temperature: 110 F

8. ANTICIPATED STARTING DATE:

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

MULTI-POINT SURFACE USE AND OPERATIONS PLAN YATES PETROLEUM CORPORATION

Huggins Federal #4 1400' FNL & 660' FEL Section 15-T5S-R24E Chaves County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in 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 33 miles northeast of Roswell, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go north of Roswell on Highway 285 for approximately 23 miles to Dona Ana. Turn east on Dona Ana Road and go approximately 7.1 miles, continue northeast on Dona Ana Road and go approximately 4 miles to the Stancell Corral. Continue north for approximately 0.2 of a mile. Turn left and drive approximately 0.6 of a mile to the second well location on the right side of the road. Follow the lease road to the north and cross Huggins Draw. Continue north on road (passing MYCO well sign). Continue north to the Huggins Federal #1 well site on the right. The access road will start here going east.

2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 1300' in length from the point of origin to the southeast corner of the drilling pad. The road will lie in a(n) west to east direction.
- B. The new road will be 14 feet in width (driving surface) and will be adequately drained to control runoff and soil erosion.
- C. The new road will be bladed with drainage on one side. Traffic turnouts may be built.
- D. The route of the road is visible.
- E. Existing roads will be maintained in the same or better condition.

3. LOCATION OF EXISTING WELL:

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

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. There are production facilities on this lease at the present time.

B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive oil, a gas or diesel self-contained unit will be used to provide the necessary power. No power will be required if the well is productive of gas.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with a fresh water system. The water will be obtained from commercial sources and will be hauled to the location by truck over the existing and proposed roads shown in Exhibit A.

SOURCE OF CONSTRUCTION MATERIALS:

Dirt contractor will locate closest pit and obtain any material and permits if needed for construction.

7. METHODS OF HANDLING WASTE DISPOSAL:

A. Drill cuttings will be disposed of in the reserve pits.

B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.

C. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.

D. Oil produced during operations will be stored in tanks until sold.

E. Current laws and regulations pertaining to the disposal of human waste will be complied with.

F. All trash, junk, and other waste materials will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not approved.

8. ANCILLARY FACILITIES: None.

9. WELLSITE LAYOUT:

- A. Exhibit C shows the relative location and dimensions of the well pad, the reserve pits, the location of the drilling equipment, rig orientation and access road approach.
- B. The reserve pits will be plastic lined.
- C. A 400' x 400' area has been staked and flagged.
- D. Pad will be rotated with the pits to the south.

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.

Huggins Federal #4 Page 3

11. SURFACE OWNERSHIP:

Federal surface administered by the Bureau Of Land Management, Roswell, New Mexico.

12. OTHER INFORMATION:

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

13. OPERATOR'S REPRESENTATIVE:

A. Through A.P.D. Approval:

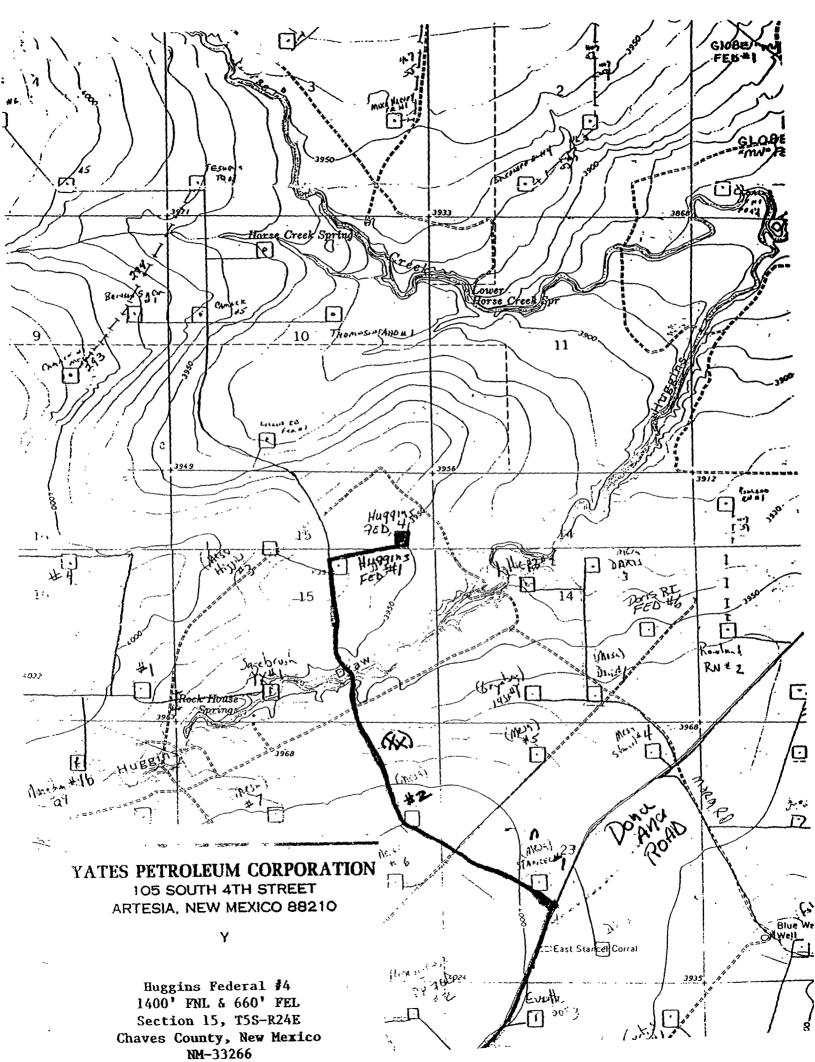
Debbie L. Caffall Regulatory Agent Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (575) 748-1471 B. Through Drilling Operations,
Completions and Production:
Ray Stall
Operations Manager
Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210
Phone (575) 748-1471

CERTIFICATION YATES PETROLEUM CORPORATION

Huggins Federal #4

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

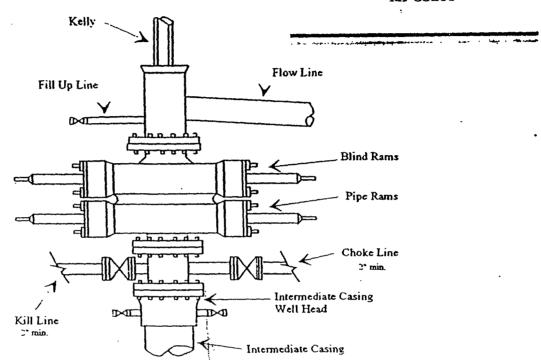
Executed this 23rd day of October	, <u>2007</u>			
Printed Name Debbie L. Caffall				
Signature Colon a Gray	,			
Position Title Regulatory Agent				
Address_105 South Fourth Street, Artesia, NM 882	10			
Telephone <u>575-748-4376</u>				
Field Representative (if not above signatory)_Jim K	rogman			
Address (if different from above) Same				
Telephone (if different from above) <u>575-748-4215</u>				
E-mail (optional) debbiec@ypcnm.com				



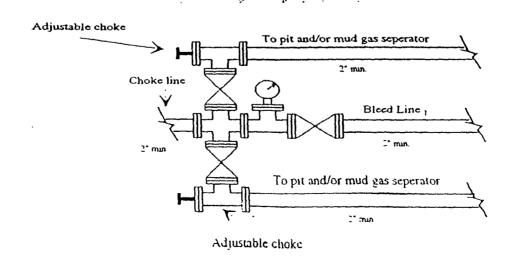
rates Petroleum Corporation

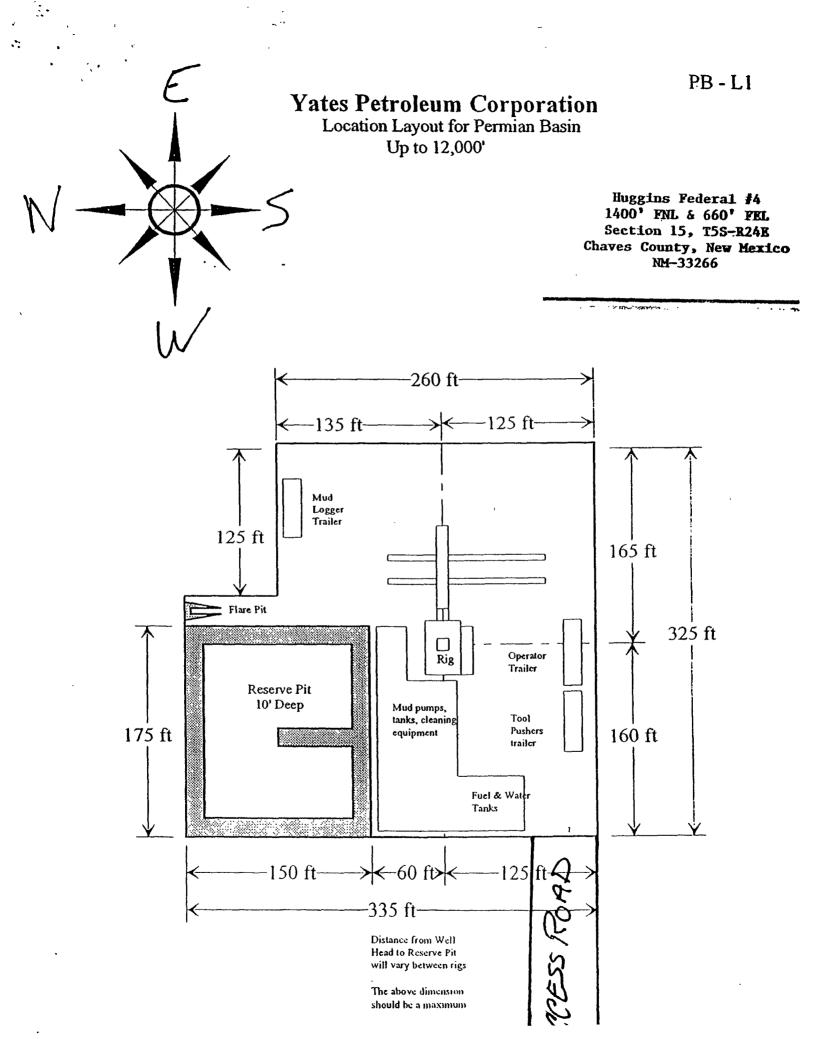
Typical 2,000 psi Pressure System
Schematic
Double Ram Preventer Stack

Huggins Federal #4
1400' FNL & 660' FEL
Section 15, T5S-R24E
Chaves County, New Mexico
NM-33266

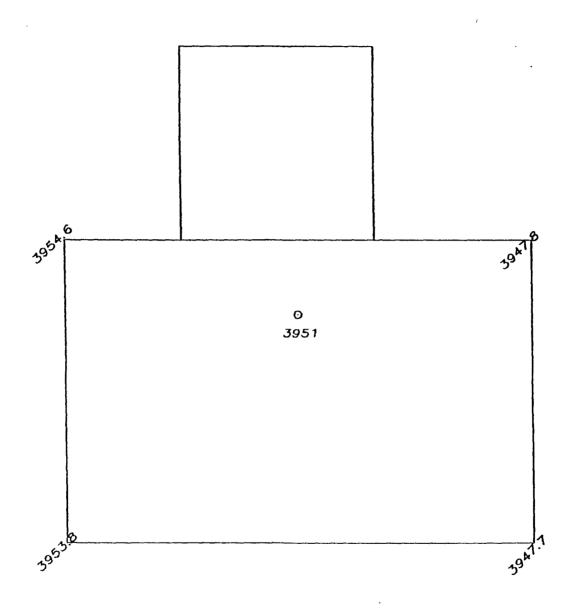


Typical 2,000 psi choke manifold assembly with at least these minimun features





YATLS PETROLEUM CORPORATION HUGGINS FEDERAL 4 1400/N & 660/E S. GIION 15, TOWNSHIP 5 SOUTH, RANGE 24 EAST, NMPM, CHAVES COUNTY, NEW MEXICO.



THE PREPARATION OF THIS PUBLICAND, THE PERFORMANCE OF THE SURVEY UPON WHICHOIT IS BASED, WERE DONE UNDER MY DIRECTION AND THE PLAY ACQUIRATERY DEPOSITS THE RESULTS OF SAID SURVEY AND MEET THE REDUNE MENTS OF THE STANDARDS FOR LAND SURVEYS IN NEW MEXICO AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVETORS.

50' 10 50' 100'

YATES PETROLEUM CORF

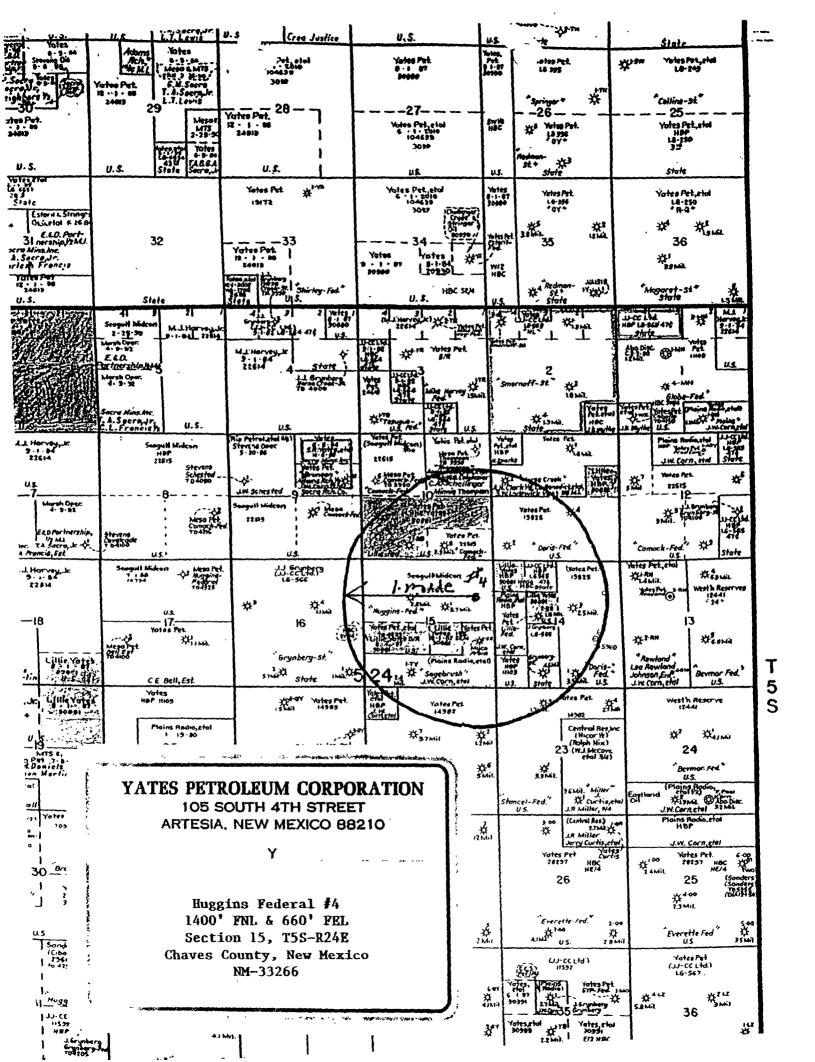
WELL PAD PLAN VIEW ON THE YATES HUGGINS FEDERAL 1/4 LOCATED 1400/N AND 650/E OF SECTION 15, TOWNSHIP 5 SOUTH, RANGE 24 EAST, NMPM, CHAVES COUNTY, NEW MEXICO.

GENERAL SURVEYING COMBANY P.O. BOX 1928 LOVINGTON, NEW MEXICO 88260

 Survey Date:
 1/05/2000
 Sheet 1
 of 1
 Sheets

 Drawn By:
 Ed Blevins
 W.O. Number

 Date:
 1/05/00
 Scale 1° = 50°
 HUGGINS



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

State of New Mexico 'Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 7W

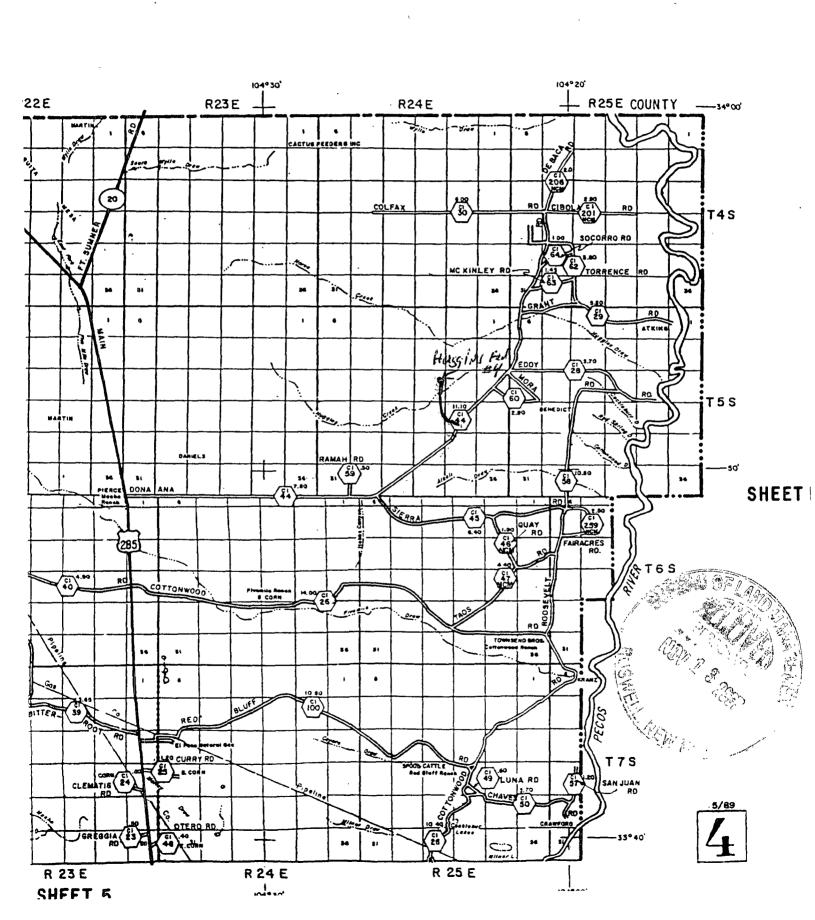
Form C-144 March 12, 2004

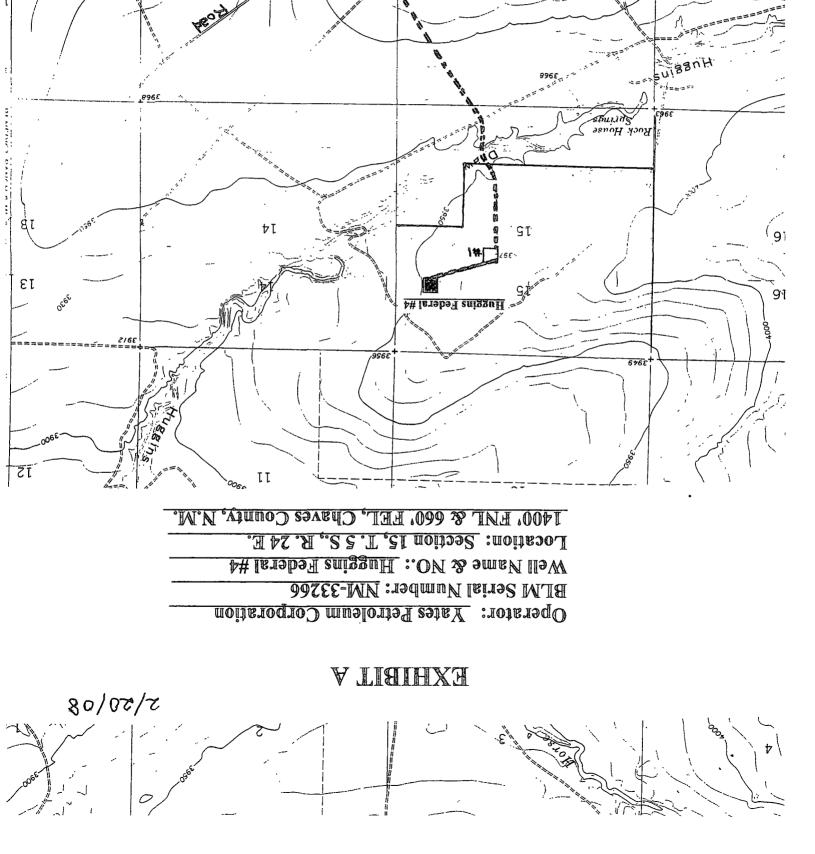
For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

105 South Fourth Street, A	vtesia.	NM :	88210
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Pit or Below-Grade	<u>l'ank Registration or Closure</u>
or helow-grade tank covered by	a "general plan"? Ves 🗹 CheckBox1

Is pit or below-grade tank covered	d by a "general plan"? Yes 🗹 CheckBoxl		
Type of action: Registration of a pit or b Operator: Yates Petroleum Corporation Telephon Address: 104 South 4 th Street, Artesia, New Mexico 88210 Facility or well name: Huggins Federal #4 API #: 30-005-636 County: Chaves Latitude Longitude	e: <u>505-748-4376</u> e-mail address: <u>debbiec@yr</u>	cnm.com	Private Indian
Pit Type: Drilling Production Disposal Workover Emergency Lined Unlined Liner type: Synthetic Thickness 12 mil Clay Volume bbl	Below-grade tank Volume:bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes	_	RECEIVED
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points)	NOV 0 3 2004
Wellhead protection area: (Less than 200 feet from a private domestic vater source, or less than 1000 feet from all other water sources.)	Yes No	(20 points)	
Distance to surface water: (horizontal distance to all wetlands, playas, rrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)	
	Ranking Score (Total Points)	20	
If this is a pit closure: (1) attach a diagram of the facility showing the pit's onsite offsite If offsite, name of facility late. (4) Groundwater encountered: No Yes If yes, show depth beloe liagram of sample locations and excavations. hereby certify that the information above is true and complete to the best of cen/will be constructed or closed according to NMOCD guidelines, ate: 11/3/2004 inted Name/Title Robert Asher/Regulatory Agent our certification and NMOCD approval of this application/closure does not herwise endanger public health or the environment. Nor does it relieve the gulations.		ple results. (5) Attach me above-described pi OCD-approved plan of the pit or tank conta	emediation start date and end soil sample results and a tor below-grade tank has
nted Name/Title As a condition of approval, if during construction water is encountered of if water seeps in pits after construction the OCD MUST BE CONTACTED IMMEDIATELY	a detailed closure pl must be filed before	<u>an</u>	





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PECOS DISTRICT - RFO CONDITIONS OF APPROVAL

2/20/08

OPERATORS NAME: Yates Petroleum corporation

LEASE NO.: <u>NM-33266</u>

WELL NAME & NO: Huggins Federal #4

SURFACE HOLE FOOTAGE: 1400' FNL & 660' FEL LOCATION: Section 15, T. 5 S., R. 24 E., NMPM

COUNTY: Chaves County, New Mexico

GENERAL PROVISIONS

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

I. PERMIT EXPIRATION

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

II. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

III. NOXIOUS WEEDS

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

IV. CONSTRUCTION

A. NOTIFICATION:

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

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

B. TOPSOIL:

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. The soil shall be stockpiled on the southeast corner of the well pad.

C. RESERVE PITS:

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

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

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

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

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

D. FEDERAL MINERAL MATERIALS PIT:

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

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

E. WELL PAD SURFACING:

Surfacing of the well pad is not required.

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

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

F. ON LEASE ACCESS ROADS:

Road Width

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

Surfacing

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

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

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

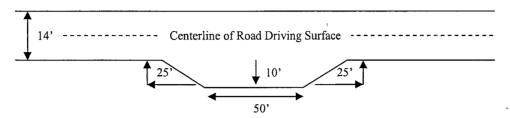
Crowning

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

Turnouts

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

Standard Turnout - Plan View

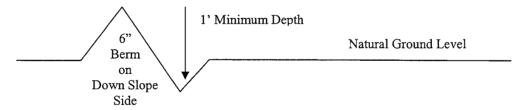


Drainage

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

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

Cross Section Of Typical Lead-off Ditch



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

Formula For Spacing Interval Of Lead-off Ditches

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

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

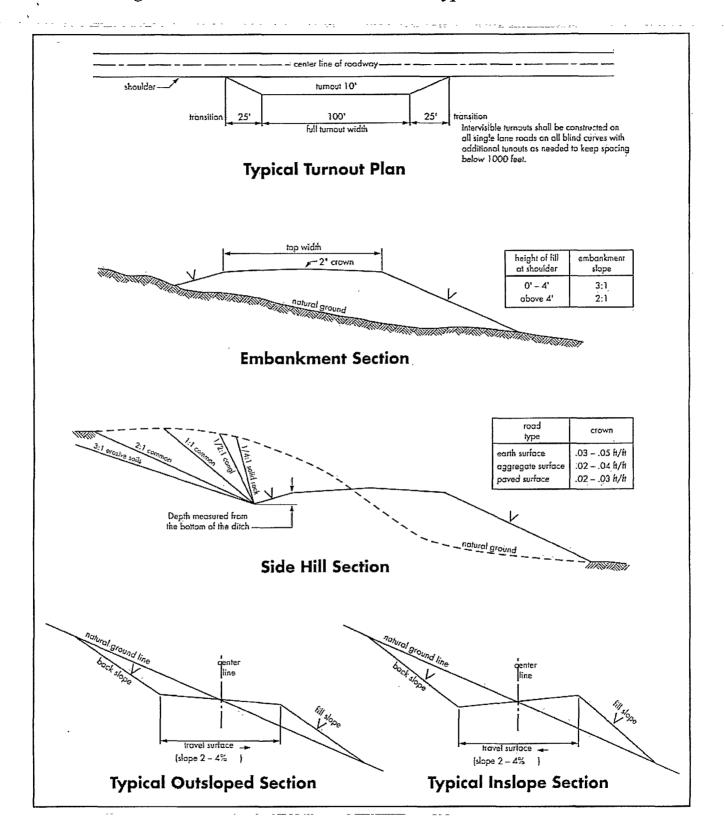
Public Access

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

Special Requirement

A. Precautionary measures shall be taken by the holder during construction and/or renovation on existing access road(s) to protect the existing gas pipeline(s) that parallel the existing access road(s). The holder shall be held responsible for any damage to the existing gas pipelines. If the gas pipelines are ruptured and/or damaged the holder shall immediately cease construction operations and repair the pipeline(s). The holder shall be held liable for any unsafe construction operations that threaten human life and/or cause the destruction of equipment.

Figure 1 - Cross Sections and Plans For Typical Road Sections



V. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

- 1. The Bureau of Land Management (BLM) is to be notified 24 hours at (505) 627-0205 in sufficient time for a representative to witness:
- a. Spudding
- b. Cementing casing: <u>11-3/4</u> inch <u>8-5/8</u> inch (if set) <u>5-1/2</u> inch
- 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.
- 3. Include the API No. assigned to well by NMOCD on the subsequent report of setting the first casing string.

B. CASING

- 1. The <u>11-3/4</u> inch surface casing shall be set <u>at approximately 900 feet</u> and cemented to the surface
- a. If cement does not circulate to the surface, the BLM Roswell Field Office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin or 500 pounds compression strength, whichever is greater. (This is to include the lead cement).
- c. Wait on cement (WOC) time for a remedial job will be a minimum of <u>4</u> hours after bringing cement to surface or 500 pounds compression strength, whichever is greater.
- d. If cement falls back, remedial action will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the <u>11-3/4</u> inch intermediate casing <u>if set at approximately 1500 feet</u> is <u>sufficient to tie back 200 feet into the 11-3/4 inch surface casing set at approximately 900 feet</u>. If cement does not circulate see B.1.a-d above.
- 3. Minimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>sufficient to tie back</u> <u>500 feet above the uppermost perforation in the pay zone.</u>

C. PRESSURE CONTROL

1. Before drilling below the <u>11-3/4</u> inch surface casing, the blowout preventer assembly shall consist of a minimum of One Annular Preventer or Two Ram-Type Preventers and a Kelly Cock/Stabbing Valve.

- 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be **2000** psi.
- 3. The BOPE shall be installed before drilling below the <u>11-3/4</u> inch surface casing and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- a. The results of the test shall be reported to the BLM Roswell Field Office at 2909 West Second Street, Roswell, New Mexico 88201-1287.
- b. Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- c. Testing must be done in a safe workman like manner. Hard line connections shall be required.
- 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.
- e. The requested variance to test the BOPE to the reduced pressure of <u>1000</u> psi <u>prior to drilling</u> <u>below the 11-3/4 inch surface casing set at approximately 900 feet</u>, using the rig mud pumps is approved.

VI. PRODUCTION

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Containment Structures

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, Olive Drab, Munsell Soil Color Chart 18-0622 TPX.

VII. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. INTERIM RECLAMATION

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

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

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

B. RESERVE PIT CLOSURE

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

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

CP-2 Loamy Ecological Site

Common Name and Preferred Variety		Pounds of Pure Live Seed Per Acre
Blue grama, var. Lovington	(Bouteloua gracilis)	4.00 lbs.
Sideoats grama,	(Bouteloua curtipendula)	1.00 lb.
var. Vaughn or El Reno		
Sand dropseed	(Sporobolus cryptandr	rus) 0.50 lb.
Vine mesquite	(Panicum obtusum)	1.00 lb.
Plains bristlegrass	(Setaria macrostachya)	1.00 lb.
Indian blanketflower	(Gaillardia aristata) 0.5	
Desert or Scarlet	(Sphaeralcea ambigua)	
Globemallow	or (S. coccinea)	1.00 lb.
TOTAL POUNDS PURE L	IVE SEED PER ACRE	9.00 lbs.

If one species is not available, increase ALL others proportionately. Certified Weed Free Seed. A minimum of 4 species is required, including 1 forb species.

VIII. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

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



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Roswell Field Office
2909 West Second Street
Roswell, New Mexico 88201

2/20/08

Page 1 of 5

ROSWELL FIELD OFFICE -BLM BLM Serial Number: NM-33266 Company Name: Yates Petroleum Corporation

Well Name and Number: Huggins Federal #4

BURIED PIPELINE STIPULATIONS FOR THE ROSWELL FIELD OFFICE, BLM.

A. THE APD AND/OR THE SUNDRY NOTICE WAS USED FOR THE ON-LEASE BURIED PIPELINE CONSTRUCTION.

- 1. The APD and/or Sundry Notices And Reports On Wells can act, to the extent possible, as an application for the on-lease construction of the buried pipeline on Federal surface lands. In combination with the approved APD, the following standard terms and conditions are hereby attached to the APD/SN on-lease authorization.
- B. The holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer, BLM.
- 1. The BLM shall administer compliance and monitor construction of the pipeline. Notify **Richard G.**Hill at least 3 working days (72 Hours) prior to commencing construction of the pipeline. Roswell Field Office number (505) 627-0247.

2. PIPELINE CONSTRUCTION:

- A.) The entire length of pipeline shall be buried in a trench 36 inches deep.
- B.) The pipeline shall be constructed 25 feet from the centerline of the access road.
- C.) The pipeline shall parallel the access road and shall be constructed on the south side of the road.
- D.) The holder shall consult with the Authorized Officer if the depth cannot be accomplished due to rock outcropping, or if the soils are not deep enough.

- E.) The operations shall be contained within the perimeters of the archaeological surveyed areas.
- 3. The holder shall conduct all activities associated with the construction, operation, and removal of the pipeline within the authorized limits of the pipeline corridor, **not to exceed 20 feet**. The holder shall consult with the Authorized Officer prior to utilizing more surface then the allowable limits of the pipeline corridor or for approval of any changes that are made to the pipeline route.
- 4. Clearing and/or blading of all vegetation shall be allowed. Clearing is 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 to reap the vegetation. Blading is defined as the complete removal of brush and ground vegetation. Where blading and/or clearing is allowed, the maximum surface disturbance width of these operations shall not exceed 20 feet.
- 5. The pipeline shall be buried under all roads. The holder shall bury the pipeline 48 inches deep and 30 feet across all road crossings. The pipeline shall be buried 48 inches deep in order for the buried pipeline to be covered with a layer of soil 45 inches in depth between the top of the pipeline and the road surface level. The width of maximum disturbance on all roads is 30 feet and in order to secure that the buried pipeline is protected from maintenance and/or renovation work on the roads, the holder is required to start and end construction of the buried pipeline outside the perimeters of the road width maximum disturbance. The holder shall consult with the Authorized Officer if the depth cannot be accomplished due to rock outcropping, or if the soils are not deep enough.
- 6. The approval of this APD/SN for pipeline construction does not in any way imply or approve any other on-lease, off-lease, or off-unit action(s). It is the responsibility of the holder to obtain other approval(s) such as rights-of-way from the Roswell Field Office or other agencies, including private surface landowner(s).
- 7. 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 authorization.
- 8. 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 U.S.C. 2601, et. seq.) with regard to any toxic substances that are used, generated by, or stored on the pipeline corridor. (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.

- 9. 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 pipeline corridor (unless the release or threatened release is wholly unrelated to the holder's activity on the pipeline corridor). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 10. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any gas, or other pollutant should be discharged, impacting Federal lands, the control and total removal, disposal, and cleaning up of such pollutants, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on, or affecting Federal lands, or to repair all damages to Federal lands resulting therefrom, the Authorized Officer may take such measures as deemed necessary to control and cleanup 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 the holder of any liability or responsibility.
- 11. The holder shall minimize disturbance to existing fences and other improvements or facilities on public lands. When necessary to pass through a fence line, the fence will 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. The holder is required to promptly repair impacted improvements or facilities to at least their former state. The holder shall contact the owner of any improvements or facilities prior to disturbing them.
- 12. Vegetation, soil, and rocks left as a result of the pipeline construction, or maintenance activity will be randomly scattered over the project area and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. An earthen berm is approved to be left over the ditch line to allow for the trench settling back to grade.
- 13. In those areas where erosion control structures are required to stabilize soil conditions, the holder shall install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound management practices. Any earth work not specifically granted by this authorization shall require prior approval by the Authorized Officer.
- 14. The holder shall seed all surface disturbed by the pipeline construction activities. Seeding is required on the disturbed areas and the seed mixture was determined by the Roswell Field Office for the Desired Plant Community on this pipeline project.
- A. Desired Plant Community seed mixture to be planted in pounds of pure live seed per acre:

		1 480 1 61 6
BLUE GRAMA, var. Lov	ington (Bouteloua gracilis)	4.0 Lbs.
SIDEOATES GRAMA (Bouteloua curtipendula)	1.0 Lb.
Var. Vaughn or El Reno		
SAND DROPSEED (Spc	orobolus cryptandrus)	0.5 Lb.
VINE MESQUITE (Panie	cum obtusum)	1.0 Lb.
PLAINS BRISTLEGRAS	S (Setaria macrostachya)	1.0 Lb.
INDIAN BLANKETFLO	WER (<u>Gaillardia aristata</u>)	0.5 Lb.
DESERT or SCARLET (_	Sphaeralcea ambiggua or	
GLOBEMALLOW S	S. coccinca)	<u>1.0 Lb.</u>
	Pure live seed per acre =	9.0 Lbs.

NM-33266

Page 4 of 5

Exhibit E

Huggins Federal #4

- B. The recommended time to seed is from June 15th through September 15th. The optimum seeding time is in mid-July. Successive seeding should be done either late in the fall (Sept. 15th Nov. 15th, before freeze up) or early as possible the following spring to take advantage of available ground moisture. However, the holder may seed immediately after completing the surface disturbing activities.
- E. The holder shall be responsible for the establishment of vegetation on the pipeline route. Evaluation of vegetation growth will not be made before the completion of the first growing season after seeding. The Authorized Officer reserves the right to require reseeding at a specific time if seed does not germinate after one growing season. Waiver of this requirement would be considered if diligent attempts to revegetate the disturbed areas have failed and the Authorized Officer determines that further attempts to replant the disturbed area is futile.
- 15. All above-ground structures (e.g.: meter houses, above ground pipelines, and related appurtenance, etc.) 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 a color which simulates "Standard Environmental Colors" designated by the Rocky Mountain Five-State Interagency Committee. The color selected for this project is <u>Carlsbad Canyon</u> (formerly sandstone brown), Munsell Soil Color Chart Number 2.5Y 6/2.
- 16. The holder shall post signs designating a pipeline crossing at the following locations: the points of origin and completion, or entry to and exit from public lands, at all road crossings. These signs shall be posted in a permanent, conspicuous manner, and shall be maintained in a legible condition until the pipeline no longer services the well and is removed.
- 17. The holder shall not use the pipeline corridor as a road except during periodic routine maintenance work as determined necessary by the Authorized Officer. The pipeline corridor shall not be used for any other purposes than for what it was hereby approved. The holder shall consult with the Authorized Officer if the disturbed areas are used for other reasons than for maintenance purposes. The holder shall take whatever steps are necessary to ensure that the pipeline corridor is not used as a roadway.

- 18. Any cultural and/or paleontological resource (i.e.: historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on Federal land shall be immediately reported to the Authorized Officer. The 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 that shall be taken to prevent the loss of significant cultural or scientific values. The holder shall be responsible for the cost of evaluation of any cultural and/or paleontological resources that are discovered. Any decision as to the proper mitigation measures shall be made by the Authorized Officer after consultation with the holder.
- 19. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of the project work, the holder shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The holder or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes. Any unauthorized collection or disturbance of cultural resources may result in a shutdown order by the Authorized Officer.

20. Special Stipulations: NONE

