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

FEB - 2 2009



Form 3160-3					FORM APPRO	
(August 2008)	7.0				OMB NO. 100	
UNITED STATE				_	Expires: July 3	1, 2010
DEPARTMENT OF THE				5	Lease Serial No	
BUREAU OF LAND MAN					NM-10690	
APPLICATION FOR PERMIT TO D	ORILL OR	REENTER		6.	If Indian, Allottee or Tribe	e Name
la Type of Work X DRILL	REENTER			7.	If Unit or CA Agreement,	Name and No
				8.	Lease Name and Well No.	
1b. Type of Well Oil Well X Gas Well Other 2 Name of Operator	Single	Zone Multiple 2	Zone	9	API Well No.	Federal #2 36 (
2 Name of Operator	ال.			1		೧೯೩೩
Yates Petroleum Corporatio	,			ے ا	<u>30-005-64</u>	<u>080</u>
3a. Address	3b. Phone No	. (include area code)		10.	Field and Pool, or Explora	itory
105 South Fourth Street, Artesia, NM 88210		505-748-1471			Wildcat Deve	onian
4 Location of well (Report location clearly and In accordance	with any State		1	11.	Sec., T., R., M, or Blk. A	
At surface		,	1		, , ,	1
370' FNL and 660'	FEL Unit A N	NENE/4			Section 11, T12	V S-D26F
At proposed prod zone					Section 11, 112	S-REUE
	Same			1	G t P T	I 12 O
14 Distance in miles and direction from the nearest town or post	office*			112	County or Parish	13. State
Approximately 20 miles southeast of F	Roswell, New I	Mexico.		1	Eddy County	New Mexico
15. Distance from proposed*	16 N	lo. of acres in lease	17 Sp	pacing	Unit dedicated to this we	11
location to nearest						
property or lease line, ft						
(Also to nearest drlg unit line, if any) 370'		640.00			N/2 320 acres	
18. Distance from proposed location*	19. P	roposed Depth	20 B	LM/ E	BIA Bond No. on file	
to nearest well, drilling, completed,	'					
applied for, on this lease, ft 670'		6,600'		N	ATIONWIDE BOND #N	MB000434
21. Elevations (Show whether DF, KDB, RT, GL, etc)	22. P	proximate date work wi	II start*		23 Estimated duration	
3688' GL		As soon as approv	ed.		45da	ys
	24. A	ttachments			OSWELL CONTROLLED \	MATER RASIN
The following, completed in accordance with the requirements of	Onshore Oil ar	nd Gas Order No. 1 shall	be attac			WALLET DI COLO
Well plat certified by a registered surveyor		4 Bond to cover the	oneratio	one ur	iless covered by existing b	and an file(see
2 A Drilling Plan		item 20 above).	орегин	J115 U1.	ness covered by existing b	ond on me(see
3 A Surface Use Plan (if the location is on National Forest Syst	em Lands, the	,	tion.			
SUPO must be filed with the appropriate Forest Service Office			ecific in	forma	tion and/ or plans as may l	be required by the
		BLM				
25. Signature	Name (Printe	d/ Typed)			Date	
CH AWAI	1		СуС	owan		12/22/2008
Title	1					
Regulatory Agent						
Approved By (Signature)	Name (Printe	d/Typed)	aal OV	lan	2.5 Date	, Δ,
/S/ Angel Mayes		^{d/Typed)} /S/Any	yei or	Lugi	IAAA	J 2 R 2009
Title Assistant Field Manager,	Office				[Q/A!	4 K O LUO
Lands And Minerals		WELL FIELD OF	arce.		APPROV	ED FOR 2 YEARS
Application approval does not warrant or certify that the applicant				he sub	nect lease which would en	title the applicant to co
operations thereon		· · · · · · · · · · · · · · · · · · ·	B		Jeer reade miner weare en	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Conditions of approval, if any, are attached		•				
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mal	ke it a crime fo	r any person knowingly	and wilf	ully to	make to any department	or agency of the United
States any false, fictitious or fraudulent statements or representation		,		,	, F	5 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
* (Instructions on page 2)	~	-			UD IEATTA	
MEAD WATER BASIN	AN.	APPF .	AVO	LS	UBJECT TO	
and the second s	1 1	` GFNI	ERAI	RF	QUIREMENTS.	ONA
054	1					
CEMENT BEHIND THE 87		STEU	JAL) II	P ULATION S ATT	AVIILL
CASHG MUST IN CIRCULATED W	IINE	SS				
		-				

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease — 4 Copies Fee Lease — 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Astec, NM 87410

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87506 OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

□ AMENDED REPORT

	WELL LOCATION AND AC	REAGE DEDICATION PLAT	□ AMENDED REPORT
API Number Q C	Pool Code	Pool Name	
30-005-640		Wildcat Devonia	an
Property Code	Property	Name	Well Number
36160	TOUCHDOWN "BJC" FEDERAL		
OGRID No.	Operator	Name	Elevation
025575	YATES PETROI	LEUM CORP.	3688'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<u>A</u>	11	12 S	26 E		370	NORTH	660	EAST	CHAVES

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infili Co	onsolidation (ode Or	der No.				
320		1							

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

NM-106905	SURFACE LOCATION Lat - N33*17*54.38" Long - W104*18*16.60" SPC- N.: 836119.669 E.: 550116.666 (NAD-83)	3679.8' 3690.0' 660' 3685.4' 3699.2'	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organisation either owns a working interest or unleased mineral interest in the land tnotuding the proposed bottom hole 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 after heretofore entered by the division. 12/22/0 Signature Date Cy Cowan Printed Name
			I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief. NOVEMBER 2008 Date Surveyor Signature & Same 12 True and Professional Surveyor Basin surveys



YATES PETROLEUM CORPORATION Touchdown BJC Federal #2

370' FNL and 660' FEL, Unit A (NENE) Section 11-T12S-R26E Chaves County, New Mexico

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

Glorieta	2194'	None	Wolfcamp B	5019' Gas
Tubb	3556'	None	Strawn	5918' Gas
ABO	4296'	Gas	Silurian-Devonian	6110' Oil or Gas
Wolfcamp	4780'	Gas	TD	6600' None

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

Water:

130'

Oil or Gas: Abo through Silurian Devonian Formations. Please note above.

- 3. Pressure Control Equipment: BOPE will be installed on the 8 5/8" casing and rated for 3000# BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings, which are set and cemented in place. Blowout Preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.
- 4. 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.
- 5. THE PROPOSED CASING AND CEMENTING PROGRAM:
 - A. Casing Program: ALL NEW CASING

<u>Hole Size</u>	Casing Size	Wt./Ft	<u>Grade</u>	<u>Coupling</u>	<u>Interval</u>	<u>Length</u>
12 1/4"	8 5/8"	24.0#	J-55	ST&C	0-1100'	1100'
7 7/8"	5 1/2"	15.5#	J-55	LT&C	0-6600'	6600'

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

Yates Petroleum Corporation requests a variance to install a rotating head on the surface casing 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 500# 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.

B. CEMENTING PROGRAM:

Surface Casing: 350 sacks 'C' Lite" (WT 12.0 YLD 2.0). Tail with 200 sacks Class 'C' (WT 14.8 YLD 1.32). Cement to Surface.

Production Casing: Lead in with 400 sacks Lite Crete (WT 9.8 YLD 2.92). Tail in with 700 sacks Pecos VILt (WT 13.0 YLD 1.41). Cement circulated to 600'.

6. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	Weight	<u>Viscosity</u>	Fluid Loss
0-1100'	FW Gel	8.6-9.0	28-32	N/C
1100' to 4200'	Cut Brine	8.6-9.6	28-30	N/C
4200' to 6600'	SaltGel/Starch 4-6% KCL	9.6-10.0	45-55	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. Rig personnel will check mud hourly.

7. EVALUATION PROGRAM:

Samples: 10' Samples from surface casing to TD

Logging: Platform Express; CNL-LDT/NGT TD-surface casing; CNL/GR TD-surface

casing; DLL/MSFL TD-surface casing; BCH Sonic TD-surface casing;

FMI TD to top of Wolfcamp.

Coring: None anticipated

DST's: Possible

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

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: None Anticipated

Maximum Bottom Hole Temperature: 120 F

9. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 45 days to drill the well with completion taking another 20 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN YATES PETROLEUM CORPORATION

Touchdown BJC Federal #2

370' FNL and 660' FEL, Unit A (NENE) Section 11-T12S-R26E 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 20 miles southeast of Roswell, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go east of Roswell, NM on Highway 380 for approximately 11.2 miles to NM 409. Turn right (south) and continue for approximately 6.5 miles to Wichita Road. Turn left onto Wichita Road and continue south for approximately 2.1 miles. Turn left (east) here onto existing lease road with a cattle guard and locked gates. Gates must remain closed and locked at all times. Combination to lock is 2112. Continue east on lease road for approximately 1 mile. Turn left here and follow lease road north for approximately 1 mile. At this point the road makes a 'T'. Turn left here on existing ranch road and go approximately .2 to the northeast corner of the proposed well location.

1. PLANNED ACCESS ROAD:

- A. The proposed existing access road is approximately .2 of a mile in length from the point of origin to the northeast corner of the drilling pad.
- B. point of origin to the northeast corner of the drilling pad.

 The new access road will consist of approximately 40 feet coming off the existing access road to the northeast corner of the well location.

The new road is bladed with drainage on both sides. One traffic turnout may be built if it is needed.

- C The route of the road is visible.
- D 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 well site.
- B. Exhibit D shows existing wells within a one-mile radius of the proposed well site.

LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. There are production facilities on this lease at the present time. It has not been determined know where anticipated production facilities for this well will be located off the location at this time. Note Exhibit B-1 for placement of production equipment will be placed on the well location.
- B. If the well is productive oil, a gas or diesel self-contained unit will be used to provide the necessary power until an electric line can be built, if needed. Power should not be required if the well is productive of gas.
- C. Should a Pipeline Right-Of-Way be required it will be filed under a separate application and/or by 3rd party if applicable.

Touchdown BJC Federal #2 Page Two

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 attached exhibits.

6. SOURCE OF CONSTRUCTION MATERIALS:

The dirt contractor will be responsible for finding a source of material for construction of road and pad and will obtain any permits that may be required.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be collected in tanks until hauled to an approved disposal system being Gandy/Marley, Lea Land Farm or CRI.
- B. A 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. Drilling fluids will be removed after drilling and completions are completed.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. 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 closed loop design plan, the location of the drilling equipment, orientation and access road approach. (approximately 4.5 acres)
- 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 staked and flagged.

10. PLANS FOR RESTORATION:

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the well site in as aesthetically pleasing a condition as possible.
- B. If the proposed well is plugged and abandoned, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible.

Touchdown BJC Federal #2 Page Three

11. SURFACE OWNERSHIP: Fee Surface

Elliott G. McMaster and Evelyn McMaster Trust under Trust Agreement dated December 18, 1990 PO Box 176 Datil, NM 87821

A Surface Use, Damage and Access Agreement has been entered into between Elliott G. McMaster and Evelyn McMaster Trust under Trust Agreement dated December 18, 1990 and Yates Petroleum Corporation, executed on May 6th, 2008.

Minerals: NM-106905

Federal - Administered by Bureau of Land Management, Roswell Field Office,

2909 W. Second Street, Roswell, NM 88201-2019 Phone: 575-627-0272 FAX: 575-627-0276

12. OTHER INFORMATION:

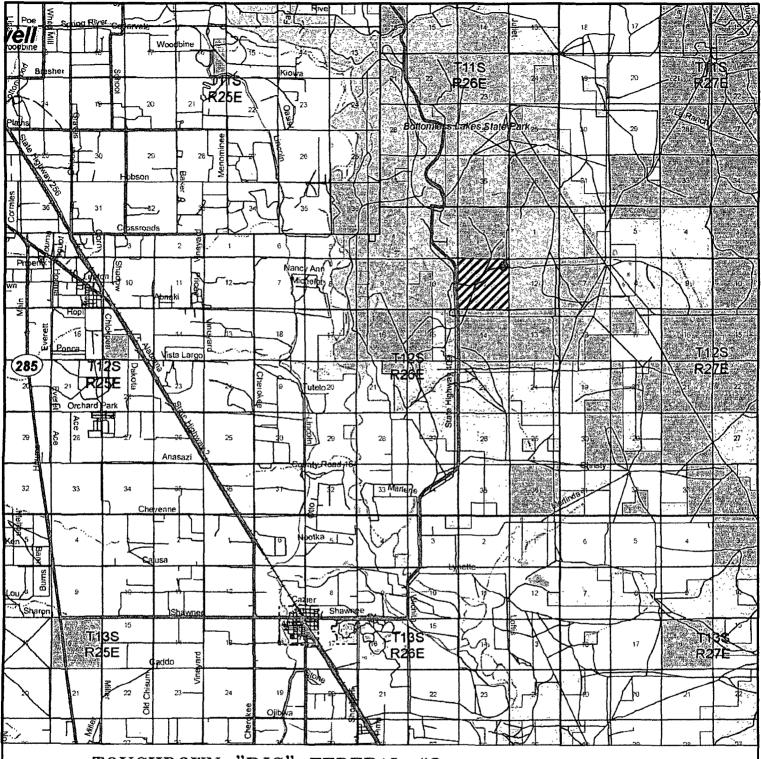
- A. Topography: Refer to the existing archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, and historical and cultural sites.
- B. The primary surface use is for grazing.

Exhibits Attached
Exhibit A – Topo/Vicinity Maps
Exhibit B – Pressure System
Exhibit C - Location Layout
Exhibit D –One Mile Radius

CERTIFICATION YATES PETROLEUM CORPORATION

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; and an someone under employment of Yates Petroleum Corporation has 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	day of	August	2008
Signature (ma		
Name Cy Co			
Name Cy Co	wan		
Position Title	Regulatory Agent		
	. –		
Address 105 Sc	outh Fourth Street, A	<u>Artesia, New Me</u>	xico 88210
Telephone(505) ^	748-4372		
Field Representative	(if not above signat	ory)Tim	Bussell, Drilling Supervisor
Address (if different t	from above) Sar	ne as above.	
	/		
Telephone (if differen	nt from above) <u>(50</u>	05) 748-4221	
E-mail (optional)			



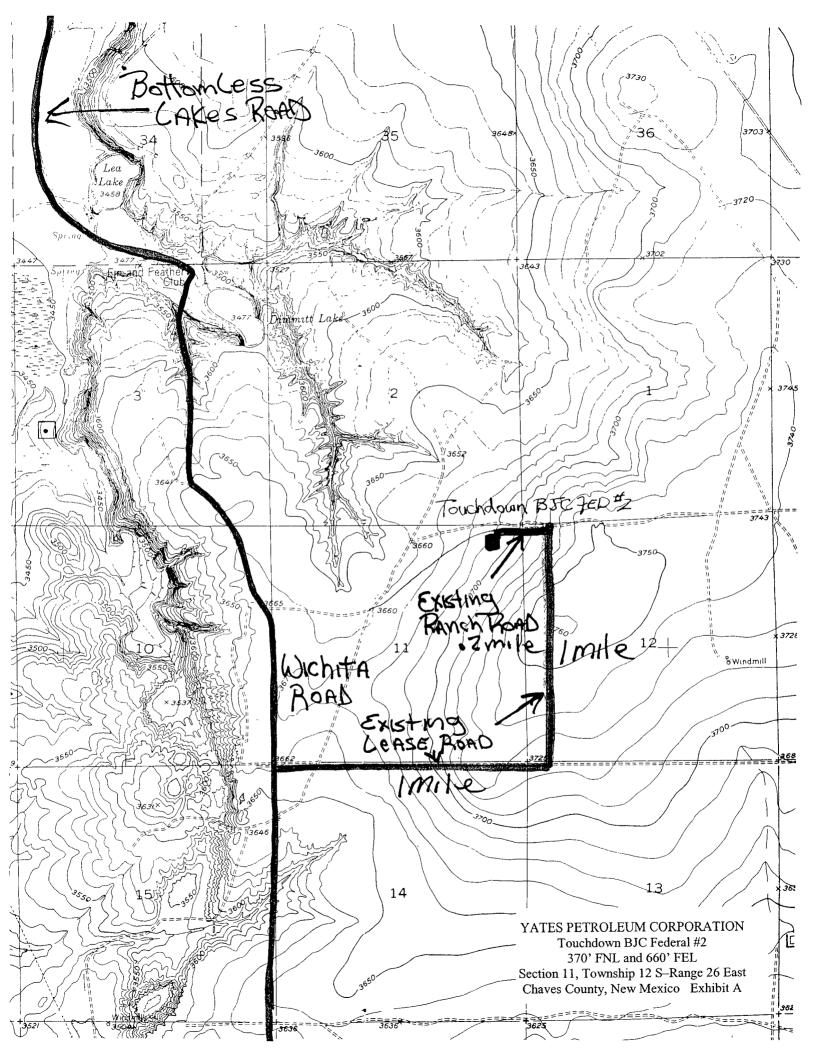
TOUCHDOWN "BJC" FEDERAL #2 Located at 370' FNL AND 660' FEL Section 11, Township 12 South, Range 26 East, N.M.P.M., Chaves County, New Mexico.



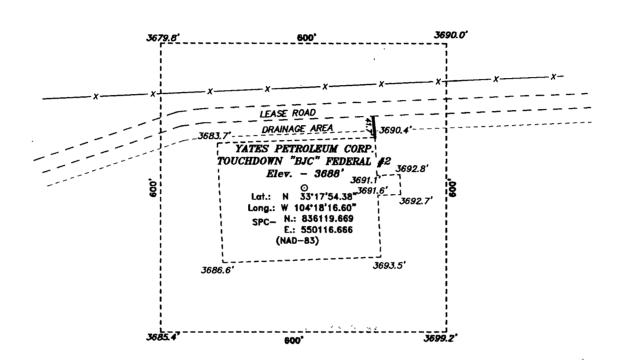
P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

W.O. Number:	20914
Survey Date:	
Scale: 1" = 20	
Date: 12-18-	-2008

YATES PETROLEUM CORP.



SECTION 11, TOWNSHIP 12 SOUTH, RANGE 26 EAST, N.M.P.M., CHAVES COUNTY, NEW MEXICO.





YATES PETROLEUM CORP.

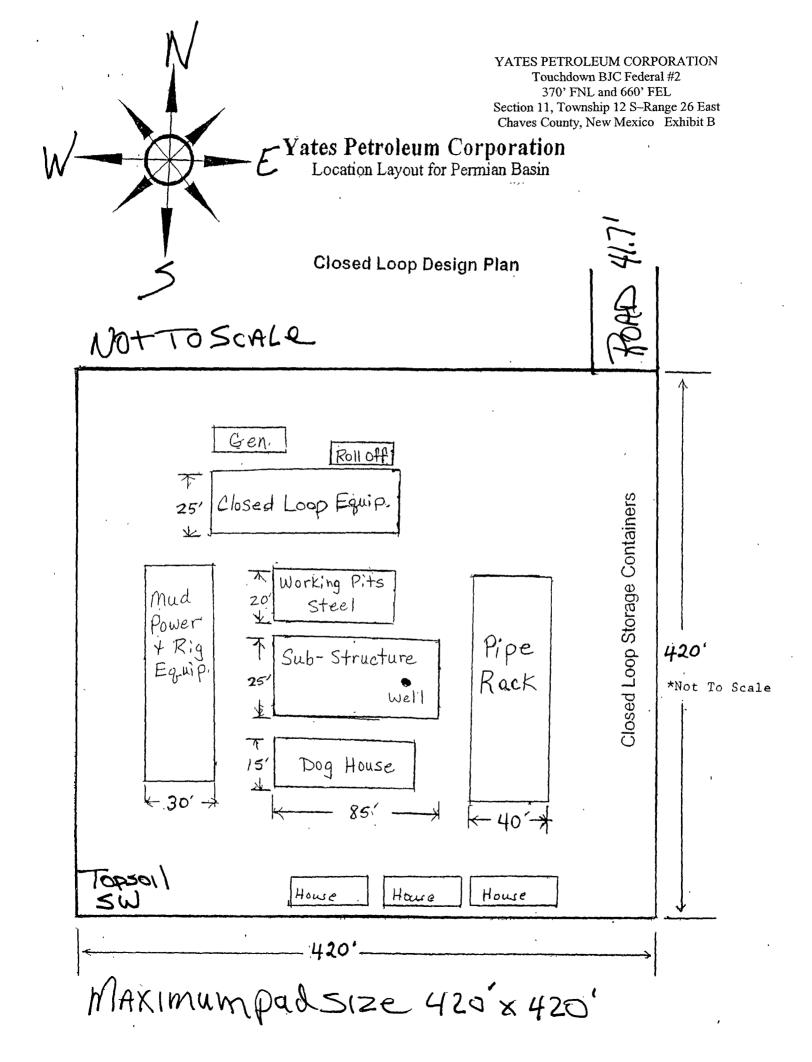
REF: TOUCHDOWN "BJC" FEDERAL #2 / WELL PAD TOPO THE TOUCHDOWN "BJC" FEDERAL #2 LOCATED 370' FROM THE NORTH LINE AND 660' FROM THE EAST LINE OF SECTION 11, TOWNSHIP 12 SOUTH, RANGE 26 EAST,

N.M.P.M., CHAVES COUNTY, NEW MEXICO.

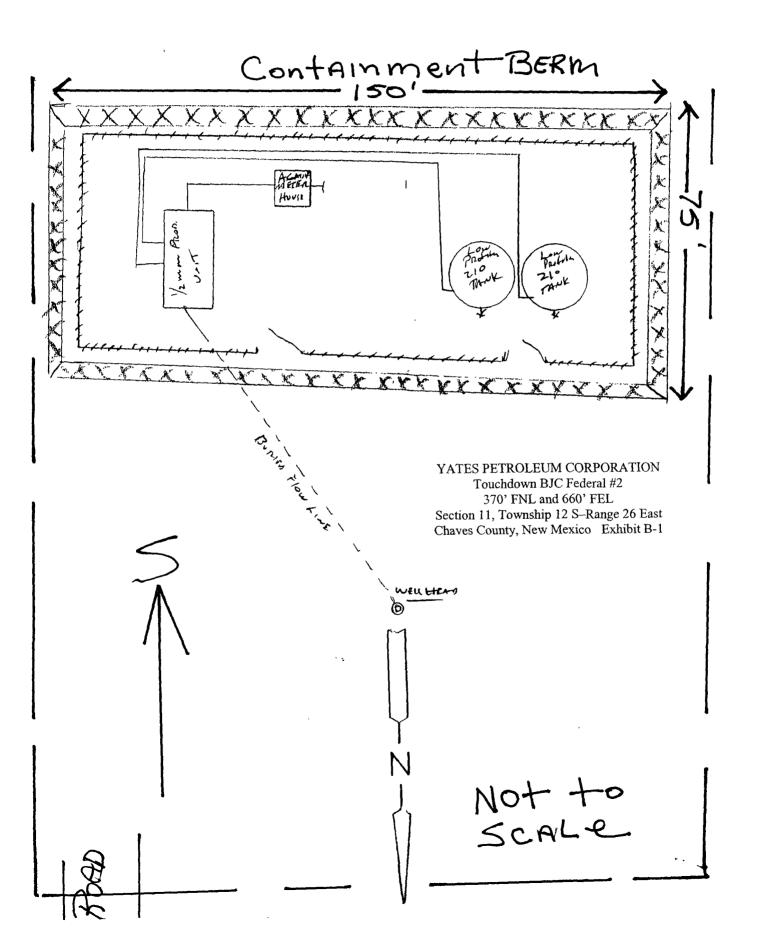
BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 20914 J. M. SMALL Drawn By:

Sheet Date: 12-18-2008 Disk: 20914 JMS Survey Date: 12-17-2008



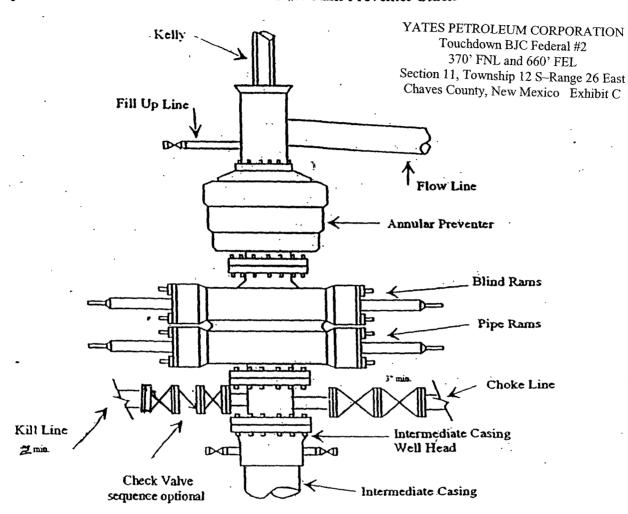
Touchdown BJC FEDERAL #2 Proposed Production Facility



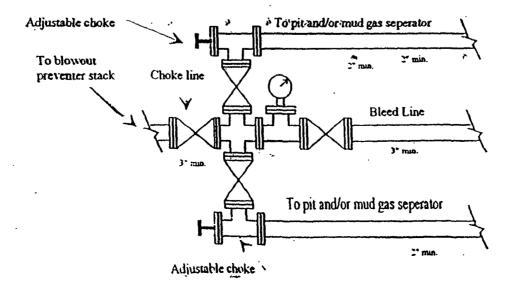


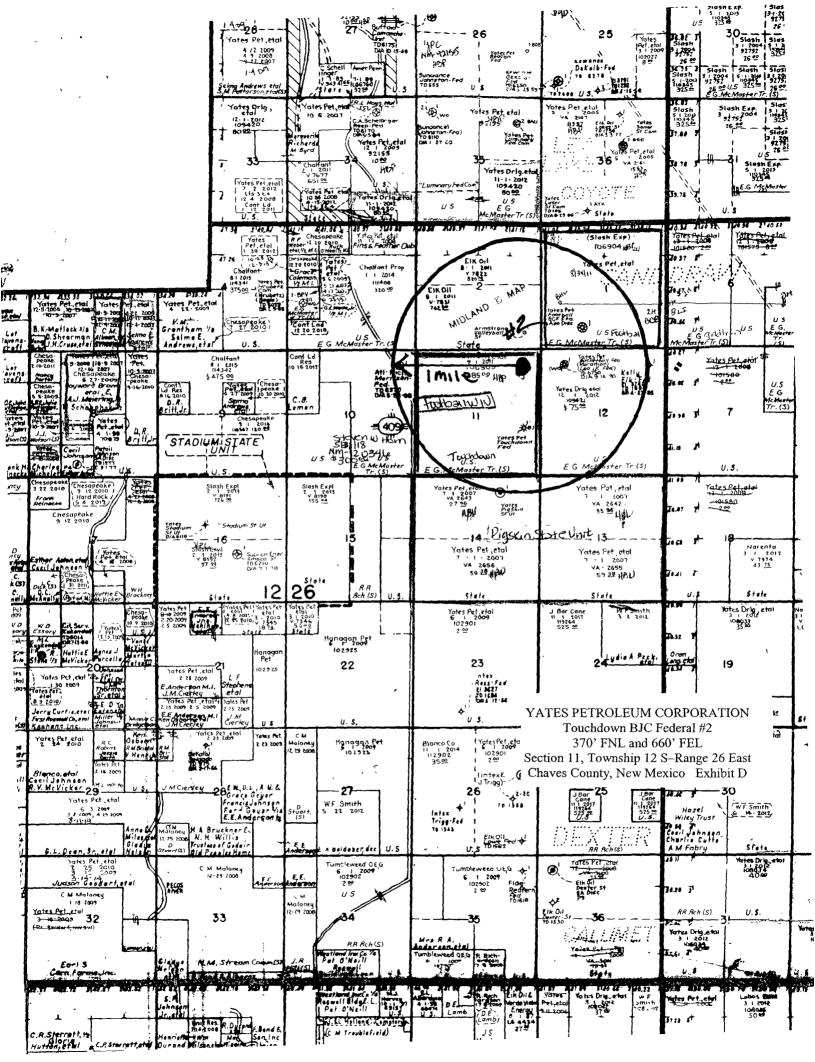
Yates Petroleum Corporation

Typical 3.000 psi Pressure System
Schematic
Annular with Double Ram Preventer Stack



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





THIS DOCUMENT CONTAINS A TRUE WATERMARK-HOLD AT LIGHT TO VIEW

PETROLEUM CORPORATION

YATES BUILDING • ARTESIA, N.M 88210

No.156395

DEC 22, 2008

2 AMOUNT

\$ ******4,000.00

134200 BUREAU OF LAND MANAGEMENT - ROSWELL

TO THE 2909 WEST SECOND STREET OFF ROSWELL, NM 88201-2019

#156395# #112200439#

#69408810#

DETACH BEFORE DEPOSITING CHECK

YATES PETROLEUM CORPORATION 105 SOUTH 4TH STREET ARTESIA, N M 88210

(YUZLEE

First National Bank ARTESIA, NEW MEXICO

RECORDANG/FILING FEES

FEDERAL FILING FEE FOR APPLICATION FOR PERMIT TO DRILL

TOUCHDOWN BJC FEDERAL #2 SECTION II, T125-R26E CHAVES COUNTY, NEW MEXICO \$4,000.00

No. 156395

MARTIN YATES, III
1912-1985
FRANK W. YATES
1936-1986
S.P YATES



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471

JOHN A. YATES
CHAIRMAN OF THE BOARD
PRESIDENT

JOHN A. YATES JR.

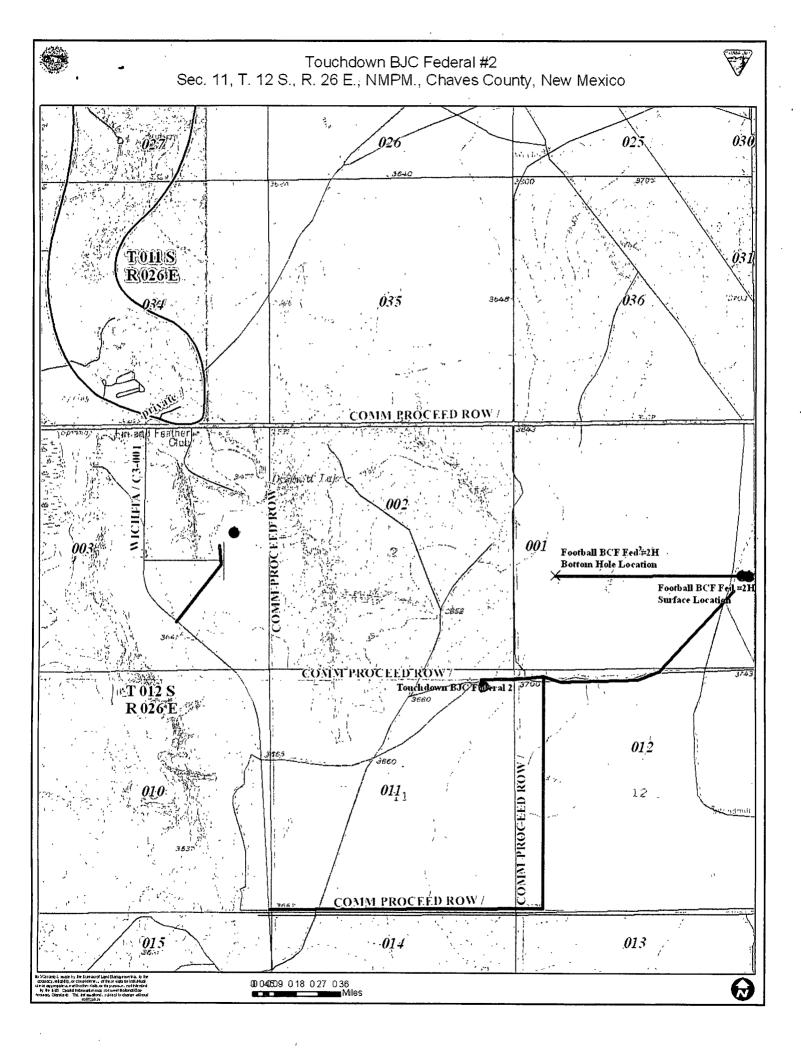
JAMES S. BROWN
CHIEF OPERATING OFFICER

JOHN D. PERINI

As per BLM instructions, Yates Petroleum Corporation is tendering the \$4,000.00 APD Processing Fee for the Touchdown BJC Federal #2 date submitted: December 22, 2008, Section 11, Township 12 South, Range 26 East, Eddy County, New Mexico.

Please be advised we are tendering this fee under protest as we believe it contradicts language in the Energy Policy Act of 2005 signed by President Bush.

DENNIS G. KINSEY
TREASURER



PECOS DISTRICT - RFO CONDITIONS OF APPROVAL

January 26, 2009

Touchdown BJC Federal #2
370' FNL and 660' FEL,
Unit A, Sec. 11, T12S-R26E
Chaves County, New Mexico, N.M.P.M.
Yates Petroleum Corporation
NM-106905
Archeological Report:

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 topsoil will be stripped to approximately 6 inches in depth within the area designated for construction of the well pad. The operator shall stockpile the stripped topsoil adjacent to the constructed well pad. The topsoil will be used for interim and final reclamation of the surface disturbance created by the construction of the well pad.

C. CLOSED SYSTEMS OR STEEL TANKS: No reserve pit will be used.

Steel tanks are required for drilling operations: No Pits Allowed.

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 using federal mineral, payment shall be made to the BLM prior to removal of any materials. 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 Egress and Ingress

The on lease access road shall be constructed to access the corner of the well pad.

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.

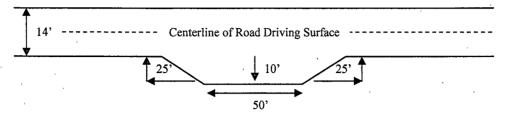
Crowning

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

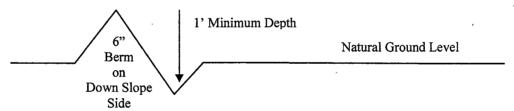


Drainage

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:
$$\frac{400'}{40\%} + 100' = 200'$$
 lead-off ditch interval

Culvert Installations

None

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

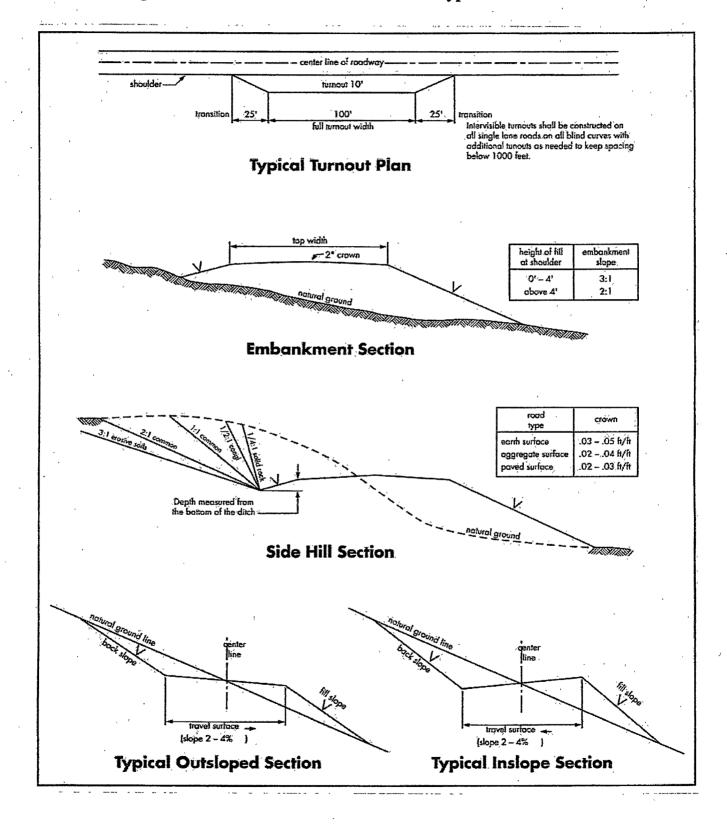
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

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



V. DRILLING

DRILLING OPERATIONS REQUIREMENTS

- 1 Call the Roswell Field Office, 2909 West Second St., Roswell, NM 88201. During office hours call (575) 627-0205 or after office hours call (575) 910-6024. Engineer on call during office hours call (575) 627-0275 or after office hours call (575) 626-5749.
- 2. The BLM is to be notified a minimum of 24 hours in advance for a representative to witness:
 - a. Spudding well
 - b. Setting and/or Cementing of all casing strings

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

BOPE Tests

- 3. 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.
- 4. Include the API Number assigned to well by NMOCD on the subsequent report of setting the first casing string.
- 5. The operator will accurately measure the drilling rate in ft/min to set the base of the usable water protection casing string(s) opposite competent rock. The record of the drilling rate along with the caliper-gamma ray-neutron well log run to surface will be submitted to this office as well as all other logs run on the borehole 30 days from completion
- 6. Air, air-mist or fresh water and non toxic drilling mud shall be used to drill to the base of the usable water protection casing string(s). Any polymers used will be water based and non-toxic.

B. CASING

1. The 8 5/8 inch usable water protection casing string(s) shall be set at approximately 600 feet in competent bedrock.

If not the operator is required to set usable water protecting casing in the next thick competent bedding (i.e. 15 to 25 ft or greater) encountered and cemented to the surface.

a. If cement does not circulate to the surface, the 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 4 hours after bringing cement to surface or 500 pounds compression strength, whichever is greater.
- d. If cement falls back, remedial action will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the inch production casing is <u>sufficient to</u> <u>tie back 500 feet above the uppermost perforation in the pay zone</u>. If cement does not circulate, 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.
- 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.
- 4. All casing shall be new or reconditioned and tested casing and meet API standards for new casing. The use of reconditioned and tested casing shall be subject to approval by the authorized officer. Approval will be contingent upon the wall thickness of any casing being verified to be at least 87-1/2 per cent of the nominal wall thickness of new casing.

C. PRESSURE CONTROL:

- 1. Before drilling below the inch surface casing shoe, 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. Before drilling below the inch surface casing shoe, minimum working pressure of the blowout preventer and related equipment (BOPE) shall be psi.
- 3. The BOPE shall be installed before drilling below the inch surface casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- a. The BLM Roswell Field office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
- b. The tests shall be done by an independent service company.
- c. The 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.

VI. PRODUCTION

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, <u>Juniper Green</u> (Standard Environmental Color Chart June 2008).

VRM Facility Requirement – VRM Class IV

Low-profile tanks not greater than eight-feet-high shall be used.

VII. INTERIM RECLAMATION

Earthwork for interim and final reclamation must be completed within 6 months of well completion or well plugging (weather permitting).

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.

SEED MIXTURE					
Gyp Upland, SD-3 Ecological Site					
Common Name		Pounds of Pure			
and Preferred Variety	Scientific Name	Live Seed Per Acre			
Blue grama,	(Bouteloua gracilis)	1.0			
Sand dropseed	(Sporobolus cryptandrus)	1.0			
Plains bristlegrass	(Setaria macrostachya)	1.0			
Alkali sacaton	(Sporobolus airoides)	3.0			
Buckwheat	(Ēriogonum fasiculatum)	1.0			
Four-wing saltbush	(Atriplex canescens)	1.0			
Desert or Scarlet	(Sphaeralcea ambigua)	<u>1.0</u>			
Globemallow	(S. coccinea)	9.0			
	•				

TOTAL POUNDS PURE LIVE SEED (pls) PER ACRE 9.00

Certified Weed Free Seed

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

C. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

- a. Upon abandonment of the well and/or when the access road is no longer in service, a Notice of Intent for Final Abandonment with the proposed surface restoration procedure must be submitted for approval.
- b. Upon abandonment of the well, all casing shall be cut-off at the base of the cellar or 3-feet below final restored ground level (whichever is deeper). A 4-inch pipe, 10 feet in length, shall be installed 4 feet above ground and embedded in cement. The following information shall be permanently inscribed on the dry hole marker: Well name and number, the name of the operator, the lease serial number, the surveyed location (the quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer; such as metes and bounds).
- c. Surface Reclamation must be completed within 6 months of well plugging. If the operator proposes to modify the plans for surface reclamation approved on the APD, the operator must attach these modifications to the Subsequent Report of Plug and Abandon using Sundry Notices and Reports on Wells, Form 3160-5.

VIIII. PIPELINE PROTECTION REQUIREMENT

Precautionary measures shall be taken by the operator during construction of the access road to protect existing pipelines that the access road will cross over. An earthen berm; 2 feet high by 3 feet wide and 14 feet across the access road travelway (2' X 3' X 14'), shall be constructed over existing pipelines. The operator shall be held responsible for any damage to existing pipelines. If the pipeline is ruptured and/or damaged the operator shall immediately cease construction operations and repair the pipeline. The operator shall be held liable for any unsafe construction operations that threaten human life and/or cause the destruction of equipment.