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	ENT OF THE INTE	RIOR		5. Lease Serial	No		
BUREAU OF	FLAND MANAGE	MENT			NM-1052	13	
APPLICATION FOR F	ERMIT TO DRILL	L OR REENTER		6. If Indian, All	ottee or Tribe	Name	
					N/A		
			-	7 If Unit or CA		Name and No)
Type of Work: X DRILL	REEN	ITER			N/A		
				8 Lease Name	and Well No.		
Type of Well: X Oil Well Gas V	Well Other	Single Zone Multip	le Zone	Jeste	r BFJ Fed	eral #9H	
Name of Operator				9 API Well No			
Vatas Datusla	· · · · · · · · · · · · · · · · · · ·	0 <i>75575</i>		20-	$n \beta - i$	3718	8
Address	um Corporation (025575 none No. (include area code)		10 Field and Poo	UT Explore		
Address	50. FI	375.		unde	Sana		
105 South Fourth Street, Artesia,		595-748-1471	<u></u>	Juli , Juli	Ical Bone		
Location of well (Report location clearly an	d In accordance with an	y State requirements.*)		11. Sec., T, R, I			
At surface		4 D 10 040 00E		peropera		7/22/0	(
	NL & 710' FWL, U	n.D, 12-248-29E		Secti	on 12-T24	E-R29E	WWI
At proposed prod. zone 331)' FSL & 660' FWI	L, Ut. <u>M, 12-24S-29E</u>					
Distance in miles and direction from the near	rest town or post office*			12 County or Pa	rısh	13 State	
The well is about	37 miles east of Ma	alaga NM		Edd	v	NM	r
Distance from proposed*	57 miles east of 111	16. No. of acres in lease	17. Spa	acing Unit dedicate			
location to nearest	,			0			
property or lease line, ft.							
(Also to nearest drlg unit line, if any)	330'	320.00		W2W2 of Section 12-24S-29E			
Distance from proposed location*		19 Proposed Depth	Proposed Depth 20 BLM/ BIA Bond No. on file				
to nearest well, drilling, completed, applied for, on this lease, ft		8500' VD; 12436'MD	36'MD NATIONWIDE BOND #NMB000434				
Elevations (Show whether DF, KDB, RT, GI	etc.)	22. Aproximate date work will start* 23. Estimated duration			•		
	-,)						
<u> </u>		ASAP					
		24 Attachments					
e following, completed in accordance with the	requirements of Onshore	e Oil and Gas Order No 1 sh	all be attach	ned to this form.			
		4 Bond to cover	1				
Well plat certified by a registered surveyor.A Drilling Plan		item 20 above)	-	ns umess covered t	by existing bo	nd on me(see	;
A Surface Use Plan (if the location is on Na	tional Forest System Lan	· · · · · · · · · · · · · · · · · · ·		,			
SUPO must be filed with the appropriate For	est Service Office).	6. Such other site	specific info	ormation and/ or p	lans as may b	e required by	the
$\cap \cap$		BLM					_
Signature	Name	(Printed/ Typed)		[I	Date /	1	
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le	<u> </u>				<u> </u>	5/5/	
Land Regulatory Agent							
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/s/ Don Peterson					- 11 11	2 3 200	9
le	Office	/s/ Don Peters	on				
CARLSBAD FIELD OFFI	CE	FIELD MANAG	ER				
plication approval does not warrant or certify t	hat the applicant holds le	egal or equitable title to those	rights in the	e subject lease whi	ch would enti	tle the applica	ant to cc
erations thereon.				APPROV	AL FOR		ARS
onditions of approval, if any, are attached.				·		•	
e 18 U S C. Section 1001 and Title 43 U.S.C. S	ection 1212, make it a cr	rime for any person knowing	ly and wilfu	lly to make to any	department o	r agency of th	e United
ates any false, fictutious or fraudulent statements	or representations as to	any matter within its jurisdic	tion				
(Instructions on page 2)							
Carlsbad Controlled Water Bas	sin			Annroval	uhiant to P	anaral Daa	ulrame-t-
Hod Mail , pag	SEE AT	TACHED FOR	•	Approval Si & Spe	cial Stinul	ations Attac	unements ched
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DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II

1301 W. Grand Avenue, Artesia, NM 88210

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

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

□ AMENDED REPORT

	Number		· · · · · · · · · · · · · · · · · · ·	Pool Code		Pool Name				
	<u>15-ĉ</u>	28113	Wildcat Bone					e Springs Well Number		
Property C 350										
0GRID № 025575				YATE	-	tor Nam ROLEU	M CORP.		Eleva 309	
L			<u></u>		Surfac	e Loc	ation	π <u></u>	·····	
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro	m the	North/South line	Feet from the	East/West line	County
D	12	24 S	29 E		46	0	NORTH	710	WEST	EDDY
	- 11 MP, - 11 MI, -		Bottom	Hole Loc	ation I	f Diffe	rent From Sur	face		·
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro	m the	North/South line	Feet from the	East/West line	County
М	12	24 S	29 E		33	0	SOUTH	660	WEST	EDDY
Dedicated Acres	Joint o	or Infill Con	nsolidation (Code Ord	ier No.					
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2. 10-52. (market 100. 100. (market 100. (ma	CONTRACTOR IN CONTRACTOR					DEEN			····	
3098.8.	- 3102.5	SURFACE LOO	ATION			1		OPERATO	R CERTIFICAT	TION
710'-0	······································	Lat — N32*1 Long — W10	3*56'39.57"			i		I hereby ce	rtify that the inform in is true and compl	ration
		SPC- N.: 450 E.: 661	597.863 614.647			Í		the best of my	knowledge and belief n either owns a work	, and that
3092.67	j I	(NAD-8	33)			I		interest or unle land including	ased mineral interest the proposed bottom)	in the hole
303	9.7		tion Po			1		of such a miner	nt to a contract with ral or working intere	an owner st, or to
		937' FN	' FNL & 705' FWL						ling agreement or a ling order heretofore	entered by
	- $+$ $+$					-+-		-)	· , /
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	The second second	Produci	ng Zone			1		Signature		Dete]
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	K					ļ		Printed Name	é	[]
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		Project	Area)					SURVEYO	R CERTIFICAT	ION
	(CO)					i			, that the well locati	
	1					1			is plotted from field made by me or	
in the								supervison an	d that the same is	true and
4519.3						1		correct to the	e best of my belief	
	City trees					ļ		FEBR	2009	
Abartu e								Date Survy	MER	
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		BOTTOM HOLE				1				
	1 1	Lat — N32°13	'32.73"			1				<u> </u>
	l s	Long - W103 SPC- N.: 4460	80.641			l ł			THE STATE	
660'		E.: 6615 (NAD-8				ĺ		Certificate No	o. Gary L. Jones	7977
330,	-					İ			-	,3//
			I				· · · · · · · · · · · · · · · · · · ·		SIN SURVEYS]



SECTION 12, TOWNSHIP 24 SOU EDDY COUNTY,	JTH, RANGE 29 EAST, N.M.P.M., NEW MEXICO.
3092 6 3097.8' 3097.8' JESTER JESTROLEUN CORP. SIGN. 9096' Lat. NO Long.: W 10356'39.57' (NAD-83) 124.6' 3093.5 3093.	PROPOSED LEASE ROM STAT
Sose .	JEstev SwD #4
	200 0 200 400 FEET SCALE: 1" = 200'
BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO	YATES PETROLEUM CORP. REF: JESTER "BFJ" FEDERAL #9H / WELL PAD TOPO THE JESTER "BFJ" FEDERAL #9H LOCATED 460' FROM THE NORTH LINE AND 710' FROM THE WEST LINE OF SECTION 12, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N M P.M. EDDY, COUNTY, NEW MEXICO
N.O. Number: 21193 Drawn By: J. M. SMALL	N.M.P.M., EDDY COUNTY, NEW MEXICO.
ate: 03-02-2009 Disk: 21193 JMS	Survey Date: 02-27-2009 Sheet 1 of 1 Sheet

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2 (r/e) 2 Laguna Grande 7 Toi3800 U.S.	Junipes V.S.	"Remyda Basin stj State	P43 10 Remotion Dasm P43 St. Stote U.S. F24	6 ¹	the sector of the first of the sector of the sector of the
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YATES PETROLEUM CORPORATION Jester BFJ Federal #9H 460' FNL & 710' FWL 330' FSL & 660' FWL Section 12-T24S-R29E Eddy County, New Mexico

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

Rustler	330'		Brushy Canyon Marker	6700'
Top of Salt	450'		Bone Springs	6970' OIL
Base of Salt	3015'		Bone Springs 1/SD/	8040' OIL
Bell Canyon	3220'	OIL	Bone Springs 1 pay	8150' OIL
Cherry Canyon	4090'	OIL	TVD	8500'
Brushy Canyon	5360'	OIL	MD	12436'

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

Water: Approx 35'

Oil or Gas: OIL: Bell Canyon, Cherry Canyon, Brushy Canyon, Bone Springs, Bone

Springs 1/SD/, and Bone Springs 1 Pay. Pressure Control Equipment: BOPE will be installed on the 8-5/8" casing and rated for 3000 BOP 3. 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:

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

Hole Size	Casing Size	<u>Wt./Ft</u>	Grade	Coupling	Interval	Length
14 3/4"	11'3/4"	42#	H-40	ST&C	0-450'	450'
11"	8 5/8"	32#	J-55	ST&C	0-100'	100'
11"	8 5/8"	24#	J-55	ST&C	100'-2200'	2100'
11"	8 5/8"	32#	J-55	ST&C	2200'-3150'	950'
7 7/8"	5 1/2") 17#	HCP-110	LT&C	0-8600'	8600'
7 7/8"	5 1/2"	17#	L-80	LT&C 8	600'-12436'	3836'

This well will be drilled vertically to 8500'. The well will be plugged back and at 7673' the well will be kicked off and directionally drilled at 12 degrees per 100' with a 7 7/8" hole to 12436 MD (8150 TVD) where 5 1/2" casing will be set and cemented to surface. Penetration point of producing zone will be encountered at 937' FNL and 705 FWL of section 12-24S-29E. The deepest TVD in the well is 8500' pilot hole. Deepest n 12-24S-29E. The deepest IVD III III E WEIL IN OUR PLAGE WITH be SET per operator, : Burst 1 0, Tensile 1.8, Collapse 1.125 7/22/09 TVD in the lateral is 8150'.

Minimum Casing Design Factors: Burst 10, Tensile 1.8, Collapse 1.125

Jester BFJ Federal #9H Page 2

B: CEMENTING PROGRAM:

Surface casing: TOC surface; 300 sacks Class "C" w/CaCl2 (WT 14.80 YLD 1.34).

Intermediate Casing: TOC surface. 675 sacks Lite "C" (WT 12.40 YLD 2.00); Tail in w/ 200sacks "C" (WT. 14.80 YLD 1.34)

5. Mud Program and Auxiliary Equipment:

<u>Interval</u>	Type	Weight	Viscosity	Fluid Loss
0-450'	Fresh Water	8.60-9.20	29-32	N/C '
450'-3150'	Brine Water	10.00-10.20	28-28	N/C
3150'-8500'	Cut Brine	8.90-9.10	28-29	N/C
Horizontal				
7693'-12597'	Cut Brine(lateral section) 8.90-9.10	28-32	<15

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Mud will be checked hourly by rig personnel.

6. EVALUATION PROGRAM:

Samples: 30' samples to 3000'; 10' samples 3000'-TD. Logging: Platform HALS; CMR. Coring: None Anticipated. DST's: As warranted.

7. Abnormal Conditions, Bottom hole pressure and potential hazards: Anticipated BHP:

From:	0	TO:	450'	Anticipated Max.	BHP:	215	PSI
From:	450'	TO:	3150'	Anticipated Max.	BHP:	1670	PSI
From:	3150'	TO:	8500'	Anticipated Max.	BHP:	4020	PSI

No abnormal pressures or temperatures are anticipated. Lost Circulation Zones Anticipated: None. H2S Zones Anticipated: None Maximum Bottom Hole Temperature: 157 F

8. ANTICIPATED STARTING DATE:

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

* Per operator 7/22/09 RGH Stage 1 = Cemented W/1250 sx PVL, yld 1.41 Toc = 7400' Stage 2: Cemented W/725 sx PVL, yld 1.41 Toc = 4500' Stage 3: Cemented W/450 sx PVL, yld 1.41 Toc = 4500' The third stage will the back 500' into previous casing. DV tools placed at 7,400' and 4,500'

M.D.	Inclination-	Azimuth	TVD	N+/S-	E+/W-	DES	ToolFace	TF Ref (HS/GN)	
0	0	0	0	0	0	0			
330	0	0	330	0	0	0			RUSTLER
450	0	Ō	450	0	0	0		······	TOP OF SALT
3.015	0	0	3,015	0	0	0			BASE OF SALT
3,220	0	0	3,220	0	0	0			BELL CANYON
4,090	0	0	4,090	0	0	0			CHERRY CANYON
5,360	0	0	5,360	0	0	0			BRUSHY CANYON
6,700	0	0	6,700	0	0	0) ———	·····	BRUSHY CANYON MARKER
6,970	0	0	6,970	0	0	0			BONE SPRINGS
3 7673	20.0	0		24300	101628-	12 22	181	GN	
7675	0.24	180.64	7675	0	0	12	360	HS	1 - 100 - CONTROL - C
7700	3.24	180.64	7699.99	-0.76	-0.01	12	360	HS	,
7725	6.24	180.64	7724.9	-2.83	-0.03	12	360	HS	
7750	9.24	180.64	7749,67	-6,19	-0,07	12	360	HS	
7775	12.24	180.64	7774.23	-10.85	-0.12	12	0	HS	······
7800	15 24	180.64	7798.51	-16.79	-0.19	12	360	HS	
7825	18.24	180.64	7822.45	-23.99	-0.27	12	0	HS	
7850	21.24	180,64	7845.97	-32.43	-0.36	12	0	HS	
7875	24.24	180,64	7869.03	-42.09	-0,47	12	0	HS	
7900	27.24	180.64	7891.54	-52.95	-0.59	12	0	HS	
7925	30.24	180.64	7913.46	-64.97	-0.72	12	0	HS	
7950	33.24	180.64	7934.72	-78.12	-0.87	12	360	HS	
7975	36.24	180.64	7955.26	-92.36	-1.03	12	360	HS	
8000	39.24	180.64	7975.03	-107.66	-1.2	12	0	HS	
8025	42 24	180 64	7993.97	-123.97	-1.38	12	360	HS	
8050	45.24	180.64	8012.03	-141.25	-1.57	12	360	HS	
8075	48.24	180.64	8029.16	-159.46	-1.78	12	0	HS	
8092	50.28	180.64	8040.26	-172.34	-1.92	致心; 12 應該書	360	HAR HS	1ST BONE SPRINGS
8100	51.24	180.64	8045,32	-178.53	-1.99	12	0	HS	
8125	54.24	180 64	8060.45	-198.43	-2.21	12	0	HS	
8150	57.24	180.64	8074.52	-219.08	-2.44	12	360	HS	
8175	60.24	180.64	8087.49	-240.45	-2 68	12	0	HS	
8200	63.24	180.64	8099.33	-262.47	-2.92	12	0	HS	
8225	66.24	180.64	8110	-285.07	-3.17	12	360	HS	
8250	69.24	180.64	8119.46	-308 21	-3.43	12	0	HS	
8275	72.24	180,64	8127.71	-331 8	-3.69	12	360	HS	
8300	75.24	180.64	8134.71	-355.8	-3.96	12	0	HS	
8325	78.24	180.64	8140.44	-380.13	-4.23	12	360	HS	
8350	81.24	180.64	8144.9	-404.72	-4.51	12	0	HS	
8375	84.24	180.64	8148.06	-429.52	-4.78	12	Ó	HŞ	
8400	87,24	180.64	8149.91	-454.45	-5.06	. 12	0	HS	
8423.06	90.01	the second s	8150.47	-477.49				FAGE ZERS TO	1 ST BONE SPRINGS PAY
12435.81	90.01	180.64	8150	-4490	-50	0	A STATE OF A	法国际管理 定规。《书》它:	LATERAL TD

Pilot hole drilled to 8500'. Well will be plugged back with 180' plug on bottom then a 400'-500' kick off plug with KOP of approx. 7673'. Well will then kicked off and directionally drilled at 12 degrees per 100' with a 7 7/8" hole to 12,436' MD (8,150' TVD) where 5 1/2" casing will be set and cemented. Penetration point of producing zone will be encountered at 937' FNL and 705' FWL Section 12-24S-29E. Deepest TVD in the well is 8500' in the pilot hole. Deepest TVD in the lateral is 8150'

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3D³ Directional Drilling Planner - 3D View Company: Yates Petroleum Corporation Well: Jester BFJ Federal #9H

> 1200 2400 _____ - - 3600 ******* --- -. . . ARTICLE ARE ALLER AND AND AND ALLER AT 4800 ÷. -6000 ---- 7200 8400 -----

3D³ Directional Drilling Planner - 3D View

Company: Yates Petroleum Corporation Well: Jester BFJ Federal #9H



File: G:\drilling toolbox wellplans\Horizontal\jester9h.wpp







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



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

YATES PETROLEUM CORPORATION Jester BFJ Federal. #9H 460' FNL and 710' FWL SHL 330' FSL and 660' FWL BHL Section 12, T24S–R29E Eddy County, New Mexico Exhibit E



MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Yates Petroleum Corporation Jester BFJ Federal #9H 460' FNL and 710' FWL (Surface Hole Location) 330' FSL and 660' FWL, (Bottom Hole Location) Section 12, T24S-R29E Eddy County, New Mexico

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

1. EXISTING ROADS:

Exhibit A is a portion of the BLM map showing the well and roads in the vicinity of the proposed location. The proposed well site is located approximately 37 miles east of Malaga, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go east of Carlsbad on Highway 62-180 to State Road 31. Turn south on 31 and go to Highway 128 (Jal Highway). Turn left on HWY 128 and go approximately 4 miles to Rawhide Road (CR-793) Mississippi Potash Mine Shaft #5 is here. Turn south here on CR-793 and go approx. 3.4 miles. Follow County road to the left and go east for approx. 0.2 of a mile. Turn south on county road and follow it for approx. 3.5 miles. At this point there will be a tank on the left and a lease road with powerlines going west. Turn west on this lease road and go approx. 1.2 miles. Turn right here on lease road going north and go approximately 0.2 of a mile to the southeast corner of the Jester SWD #4. The new road will start from the northwest corner of the Jester SWD #4 going in a westerly direction for approximately 0.1 of a mile to the southeast corner of the well location.

2. PLANNED ACCESS ROAD:

- A The proposed new access road will start here going in a westerly direction for approximately .1 of a mile to the southeast corner of the proposed well location.
- B. The new road will be 14' 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 as needed.
- 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 well site.
- B. Exhibit D shows existing wells within a one-mile radius of the proposed well site.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. There are production facilities on this lease at the present time. However, if production facilities are needed for this well they will be placed on the location as determined by Yates' Production Department. Placement has not been determined at this 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 until an electric power line can be built if needed.

Jester BFJ Federal #9H Page Two

C. Should off location facilities be needed for power line, flow line right-of-ways, etc. they will be filed under a separate application by Yates or a third party if applicable. The route and placement will be determined at that time.

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.

6. SOURCE OF CONSTRUCTION MATERIALS:

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

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. A closed loop system will be used to drill this well.
- B. The closed loop system will be constructed, maintained, and closed in compliance with the State of New Mexico, Energy and Natural Resources Department, Oil Conservation Division the "Pit Rule" 19.15.17 NMAC.
- C. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.
- D. Oil produced during operations will be stored in tanks until sold.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- F. All trash, junk, and other waste materials will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not approved.

8. ANCILLARY FACILITIES: None

9. WELLSITE LAYOUT:

- A. Exhibit B shows the relative location and dimensions of the well pad, the closed loop mud system, location of the drilling equipment, rig orientation and access road approach. The proposed well location will be approximately 350' x 300'. All of the location will be constructed within the 600' x. 600' staked area.
 - 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.

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. At the time interim remediation is proposed Yates will furnish the BLM with a Sundry Notice detailing the remediation plans.
- 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.

Jester BFJ Federal #9H Page 3

11. SURFACE OWNERSHIP:

Surface Estate: Managed by the Bureau of Land Management, 620 East Greene Street, Carlsbad, NM 88201 Mineral Estate: Bureau of Land Management, 620 East Greene Street, Carlsbad, NM 88201

12. OTHER INFORMATION:

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

CERTIFICATION YATES PETROLEUM CORPORATION Jester BFJ Federal #9H

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

Executed this $15^{\text{m}}_{\text{day of}}$ May $_{,2009}$.						
Printed Name Cy Cojwan						
Signature						
Position Title Land Regulatory Agent						
Address_105 South Fourth Street, Artesia, NM 88210						
Telephone <u>575-748-4372</u>						
E-mail (optional) <u>cy@yatespetroleum.com</u>						
Field Representative (if not above signatory) <u>Tim Bussell</u>						
Address (if different from above) Same						
Telephone (if different from above) <u>575-748-4221</u>						
E-mail (optional)						

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Yates Petroleum Corp		
LEASE NO.:	NM105213		-
WELL NAME & NO.:	9H Jester BFJ Federal		
SURFACE HOLE FOOTAGE:	460' FNL & 710' FWL	•	
BOTTOM HOLE FOOTAGE	330' FSL & 660' FWL		
LOCATION:	Section 12, T. 24 S., R 29 E., NMPM		~
COUNTY:	Eddy County, New Mexico		

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I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

V. CONSTRUCTION

. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

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

B. TOPSOIL

The operator shall stockpile the topsoil of the well pad. The topsoil to be stripped is approximately 8 inches in depth. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. **RESERVE PITS**

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

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

F. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

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





Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

400 foot road with 4% road slope: 400' + 100' = 200' lead-off ditch interval 4%

Culvert Installations

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

Cattleguards

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

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

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

Fence Requirement

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

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

Public Access

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



Figure 1 - Cross Sections and Plans For Typical Road Sections

VI. DRILLING

DRILLING OPERATIONS REQUIREMENTS

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

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

1. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.

- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

B. CASING

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

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

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Medium cave/karst.

Possible lost circulation in the Delaware and Bone Spring formations.

- The 11-3/4 inch surface casing shall be set at approximately 450 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If the salt is encountered at a shallower depth, the casing must be set 25' above the top of the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

Pilot hole is required to have a plug at the bottom of the hole. If two plugs are set, the BLM is to be contacted (575-361-2822) prior to tag of bottom plug, which must be a minimum of 185' in length. Operator can set one plug from bottom of pilot hole to kick-off point and save the WOC time for tagging the first plug.

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

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

a. First stage to DV tool, cement shall:

Cement to circulate. If cement does not circulate, contact the appropriate BLM office, before proceeding with second stage cement job.

- b. Second stage above DV tool, cement shall:
- Cement should tie-back at least 450 feet into previous casing string. Operator shall provide method of verification.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.

3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

a. The tests shall be done by an independent service company. **Operator to** submit copies of test done for each casing string with the subsequent sundry detailing the casing/cementing details.

b. The results of the test shall be reported to the appropriate BLM office.

- c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

D. DRILL STEM TEST

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

RGH 072109

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Containment Structures

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

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

VIII. 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.

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

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

Seed Mixture 2, for Sandy Sites

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

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

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

	<u>re</u>
Sand dropseed (Sporobolus cryptandrus)1.0Sand love grass (Eragrostis trichodes)1.0Plains bristlegrass (Setaria macrostachya)2.0	

*Pounds of pure live seed:

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

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

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

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.