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CERTIFICATION: I hereby certify that the information submitted with this application for administrative [4] approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Anna Walls	<u>Anna Walls</u>	Land Tech	9/16/04
Print or Type Name	Signature		Date
		anwallseforest e-mail Address	oil.com



FOREST OIL CORPORATION

1600 Broadway • Suite 2200 Denver, Colorado 80202 (303) 812-1400 **RECEIVE**

(FEDERAL EXPRESS-STANDARD DELIVERY)

Roy E. Johnson-District Supervisor State of New Mexico Oil Conservation Division Energy Minerals and Natural Resources District IV 1220 South St. Francis Dr. Santa Fe, New Mexico 87505 SEP 20 ZUU4

Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

RE: Application for Permit to Drill – Split Lease: State Minerals, Federal Surface Forest Oil Corporation Barclay State 5 1,500' FNL 1,400' FEL (SW/4 NE/4) Sec. 2 T23S R31E Eddy County, New Mexico State Lease: V-302

Dear Mr. Johnson:

Enclosed please find six (6) originals of the Application for Permit to Drill (APD) for the above captioned well. A courtesy copy was sent separately to the Bureau of Land Management (BLM) in Carlsbad, New Mexico, due to the split lease status of this location.

This filing contains the following attachments: the drilling program, casing calculations, BOP Diagram, the wells within a one-mile radius, survey plats, cross-sections, cut and fills, and area road/access maps.

As this is an unorthodox location, also enclosed is a plat showing the offset operators and an inter-office memorandum by Jim Peterson, a geologist with Forest Oil Corp, giving an explanation as to why an exception is needed. Forest Oil Corporation is the operator and owns 100% leasehold interest in all offset locations affected as defined in Rule 1207.A(2). Therefore, no notice is required under Rule 1207.A(2). The mineral interest of all offset spacing units have common interest. Forest Oil Corp is requesting administrative approval of this Application.

The proposed location is 1,500' FNL 1,400' FEL (SW/4 NE/4) of Sec. 2. The wellsite was surveyed and staked on May 3, 2004 by Gary Eidson, of John West Surveying Company, on a site that was geologically and topographically acceptable.

Your early attention to this application is greatly appreciated. Thank you for your concern.

Very truly yours,

Anna Walls Land Tech

mablalls

Enclosures Cc: Bureau of Land Management-Carlsbad

District 1 1625 N. French Dr., Hobbs, NM 88240 District II Energy Minerals a					te of New erals and N	New Mexico and Natural Resources Form C-101 Revised March 17, 1999							
 811 South First, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 13004 					Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 13004				. Sub	Submit to appropriate District Office State Lease - 6 Copies State Lease: V-302 - 5 Copies			
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¹ Operator Name and Address Forest Oil Corporation, 1670 Broadway, Suite 2800 Denver, CO 80202					2800	<u></u>			² OGRID Ni 80	umber 41			
		·		•					30 -	' API Nun	nber		
³ Propert	y Code 0761				⁵ Prop Barc	erty Name lav State	n. ,				• Well 1 #5	No.	
				· ·	⁷ Surfa	ace Location						· <u>·····</u> ······························	
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work	Work Type Code Cat				R	Stat			state 3.442' GR				
"м Г	ultiple NO		" Proposed Dept	h	1	¹⁸ Formation Delaware	August 22, 20				²⁰ Spud Date rust 22, 2004		
				²¹ Propo	sed Casi	ng and Cem	l Cement Program						
Hole S	ize	Cas	ing Size	Casing	g weight/fo	pot	Setting D	epth	Sacks of Cement			Estimated TOC	
17-1/	2"	13	-3/8"	K-55	54.5# B	utt	900'		±470 sxs 35:65 "C" ±200 sxs Class "C"			Surface	
12-1/	4"	8	-5/8"	K-55	24# LT&	&C	4,500'		±1,040 s7 Po +200 sys ((s 50:50)z	0 Surface		
7-7/3	3"	5	-1/2"	N-80	17# LTa	&C	8,40	0'	±240 sx	s 35:65	-	Surface	
 ¹² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program. if any. Use additional sheets if necessary. RLI Insurance - \$50,000 Blanket Bond See attached drilling program and surface use plan FOREST RESPECTFULLY REQUESTS THAT ALL INFORMATION REGARDING THIS WELL BE KEPT CONFIDENTIAI 							v productive zone. NFIDENTIAL.						
²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature:					: best	OIL CONSERVATION DIVISION							
						App	roved by:		· · · · · · · · · · · · · · · · · · ·				
Printed name:	An	nald	a115			Title	:						
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Date:	11610	14	Phone: 303	-842-19	554	Con Atta	Conditions of Approval: Attached						

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Forest Oil Corporation Barclay State 5 1,500' FNL 1,400' FEL (SW/4 NE/4) Sec. 2 T23S R31E Eddy County, New Mexico State Lease: V-302

DRILLING PROGRAM

Please contact Ms. Anna Walls at Forest Oil Corporation, 303-812-1400 if there are any questions or concerns regarding this Drilling Program.

Forest respectfully requests that all information regarding this well be kept confidential.

SURFACE ELEVATION – 3,442' (Ground elevation)

SURFACE FORMATION - Rustler - Fresh water possible

ESTIMATED FORMATION TOPS - (Water, oil, gas and/or other mineral-bearing formations)

Rustler	650'	Sandstone, shales & siltstones
Castile Anhydrite/Salt	1,045'	Sandstone, shales & siltstones
Delaware – Lamar Shale	4,400'	Shales & siltstones
Delaware – Bell Canyon	4,430'	Sandstone, shales & siltstones
Delaware - Cherry Canyon	5,310'	Sandstone, shales & siltstones
Delaware – Brushy Canyon	6,950'	Sandstone, shales & siltstones
Delaware – L. Brushy Canyon	8,025'	Sandstone, shales & siltstones
TOTAL DEPTH	8,400'	

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and protected.

CASING PROGRAM

Depth	Hole Diameter	Casing Diameter	Casing Weight and Grade	Cement			
0' – 900'	17-1/2"	13-3/8"	K-55 54.5# Butt	To surface (Lead: ±470 sxs 35:65 Class "C" Tail: ±200 sxs Class "C" with additives)			
0'-4,500'	12-1/4"	8-5/8"	K-55 24# LT&C New	To surface (Lead: ±1,040 sxs 50:50 Poz; Tail: ±200 sxs Class C with additives) **			
0' 8,400'	7-7/8"	5-1/2"	N-80 17# LT&C New	To surface (±240 sxs 35:65 Class "C"; Tail: ±375 sxs Class "H" with additives) **			

* Surface casing cement volume to be based on 100% excess calculations.

** Production casing cement volumes will be determined by caliper log plus 20% excess calculations.

YieldsSurface:Lead: 35:65 Class "C" yield = $1.89 \text{ ft}^3/\text{sx}$
Tail: Class "C" yield = $1.34 \text{ ft}^3/\text{sx}$
Intermediate:Lead: 50:50 yield = $2.45 \text{ ft}^3/\text{sx}$
Tail: Class "C" yield = $1.34 \text{ ft}^3/\text{sx}$
Production:Lead: 35:65 Class "C" yield = $1.92 \text{ ft}^3/\text{sx}$
Tail: Class "H" = $1.79 \text{ ft}^3/\text{sx}$

Surface casing top 100' will use 1" tubing, with Class "G" cement with 3% CaCl₂ prior to nippling up BOP.

Production casing will be cemented from total depth back to surface.

PRESSURE CONTROL

• See attached blowout preventer diagram.

BOP's and choke manifold will be installed and pressure tested before drilling out of surface casing (subsequent pressure test will be performed whenever pressure seals are broken), and then will be checked daily as to mechanical operating condition. BOP's will be pressure tested at least once every 30 days. Ram type preventers and related pressure control equipment will be pressure tested to related working pressure of the stack assembly if a test plug is used. If a plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or 70% of the minimum internal yield of the casing, whichever is less. Annular type preventers will be pressure tested to 50% of their working pressure. All casing strings will be pressure tested to 0.22 psi/ft or 1,500 psi, whichever is greater, not to exceed 70% of the internal yield. The casing shoe will be tested by drilling 5-20' out from under the shoe and pressure tested to a maximum expected mud weight equivalent as shown in the mud program listed below.

A manual locking device (i.e. hand wheels) or automatic locking devices shall be installed on the BOP stack. Remote controls capable of both opening and closing all preventers shall be readily accessible to the driller.

The choke manifold and accumulator will meet or exceed NMOCD standards. The BOP equipment will be tested after any repairs to the equipment. Pipe rams, blind rams and annular preventor will be activated on each trip and weekly BOP drills will be conducted with each crew. All tests, maintenance, and BOP drills will be documented on rig "tower sheets".

Statement of Accumulator System and Location of Hydraulic Controls

The drilling rig has not been selected for this well. Selection will take place after approval of this application is granted. Manual and/or hydraulic controls will be in compliance with NMOCD for 5,000 psi system.

A remote accumulator will be used. Pressures, capacities, location of remote hydraulic and manual controls will be identified at the time of the NMOCD supervised BOP test.

MUD PROGRAM

0' - 900'	Fresh water w/ sweeps
	MW: 8.5 ppg
900' - 4,500'	Brine

DRAFT 07/22/04 4,500' - TD

MW: 10 ppg Fresh water polymer MW: 8.6 ppg – 9.0 ppg Visc: 35 sec WL: 20 cc or less

Sufficient mud materials to maintain mud properties, control lost circulation and to contain a "kick" will be available on location.

AUXILIARY EQUIPMENT

- A. Upper Kelly cock; lower Kelly cock will be installed while drilling.
- B. Inside BOP or stabbing valve with handle (available on rig floor).
- C. Safety valve(s) and subs to fit all string connections in use
- D. Electronic/mechanical mud monitoring will utilize a Pason Unit with a minimum: pit volume totalizer (PVT); stroke counter; flow sensor.

LOGGING, CORING TESTING PROGRAM

- A. Logging: DIL-GR-SP-CAL: TD 4,400'
 - ND-GR-CAL: TD 4,400'
- B. Coring: None planned
- C. Testing: No DST's are anticipated Drill Stem tests may be run on shows of interest.

ABNORMAL CONDITIONS

А.	Pressures:	No abnormal conditions are anticipated
		Delaware pressure gradient - 0.43 psi/ft
B.	Temperatures:	No abnormal conditions are anticipated

- C. H_2S : None Anticipated.
- D. Estimated bottom hole pressure: 3,612 psi at TD

ANTICIPATED START DATE

August 23, 2004

COMPLETION

The location pad will be sufficient size to accommodate all completion equipment activities and equipment. A string of 2 3/8", 4.7#, N-80, EUE 8rnd will be run as production tubing. A Sundry Notice will be submitted with a revised completion program if warranted.

DRAFT 07/22/04

Barclay State 1,500' FNL 1,400' FEL (SW /4 NE /4) Sec. 2 R 31E T 23S Eddy County, New Mexico V-302

5

SURFACE CASING AND CENTRALIZER DESIGN

Proposed Total Depth:		8,400 '
Proposed Depth of Surface (Casing:	900 '
Estimated Pressure Gradient	t:	0.43 psi/ft
Bottom Hole Pressure at		8,400
0.43 psi/ft x	8,400 ' =	3,612 psi
Hydrostatic Head of gas/oil n	nud:	0.22 psi/ft
0.22 psi/ft x	8,400 ' =	1,848 psi

Maximum Design Surface Pressure

	Botto	om Hol	e P	ressure			-			Hydrosta	atic	Head	=	
(0.43	psi/ft	х	8,400	•)	-	(0.22	psi/ft	х	8,400 ')	=	
		3,612		psi			-			1,848		psi	=	1,764 psi

Casing Strengths 8-5/8" J-55 24# ST&C

Wt.	Tension (lbs))	E	lurst	(psi)	Collapse (psi)		
24 # 32 #	244,000 372,000			2,9 3,9	950 930	1,370 2,530		
Safety Factors					,			
Tension (Dry):	1.8	Burst:	1.0	•	Collapse	: 1.125		
Tension (Dry):	24 #/ft	x	900 '	=	21,600 #			
	Safety Factor =	24	4,000 ,600	=	11.30	ok		
Burst:	Safety Factor =	2,9 1,7	50 psi 64 psi	=	1.67	ok		
Collapse:	Hydrostatic =	• 0.052 :	x 9.0 ppg	. X	900 ' =	421 psi		
	Safety Factor =	· <u>1,3</u>	70 psi	=	3.25	ok		
		42	1 nsi					

Use 900 ' <u>8-5/8" J-55 24# ST&C</u>

Use 2,000 psi minimum casinghead and BOP's but will test to 1,000 psi

Centralizers

8 Total

1 near surface at 160'

3 middle of bottom joint, second joint, third joint

4 every other joint ±80'

Total centralized ± 440 '(460 ' -900 ')

Note that field experience indicates that additional centralizers greatly increase the chance of "sticking" the surface casing prior to reaching surface casing total depth.





FOREST OIL CORPORATION

TYPICAL RIG LAYOUT





INTER-OFFICE MEMORANDUM

DATE: September 15, 2004

TO: Bruce Rush

FROM: James B. Peterson - geologist

SUBJECT: Barclay State #5 Location Exception

The Barclay State #5 is located 1,500' FNL and 1,400' FEL of Section 2-T23S-R31E, Eddy County, New Mexico. This location will require a location exception.

The Barclay State #5 must be staked at the location specified above due to geologic reasons. The primary pay sands in the Delaware Brushy Canyon formation are not present at the legal location in the SW NE of Section 2-T23S-R31E. The Barclay State #3 (1,980' FNL and 660' FEL Section 2-T23S-R31E) and the Barclay State #8 (990' FNL and 470' FEL Section 2-T23S-R31E) were drilled near the up-dip limit of the primary pay sands. Subsurface mapping indicates that the up-dip edge of the primary pay sands will be encountered at a location 1,500' FNL and 1,400' FEL of Section 2-T23S-R31E and drilling a well west of this location will miss the primary objective.

LOCATION VERIFICATION MAP



SEC. 2 TWP. 23-S RGE. 31-E SURVEY N.M.P.M. COUNTY EDDY DESCRIPTION 1500' FNL & 1400' FEL ELEVATION 3442' FOREST OIL OPERATOR CORPORATION LEASE BARCLAY STATE U.S.G.S. TOPOGRAPHIC MAP BOOTLEG RIDGE, N.M.

PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 333-3117 VICINITY MAP



SEC2T	NP. 23-S RGE. 31-E
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION	1500' FNL & 1400' FEL
ELEVATION	3442'
OPERATOR	FOREST OIL CORPORATION
LEASE	BARCLAY STATE



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Section Type : NORMAL

Sec : 02 Twp : 23S Rng : 31E

County	Eddy	POOL SOUT	the Living	ston Ridge	- Delawa
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Ext: NE4 Sec. 1, NUM Sec. 12 (R-10324, 3-7-95) Ext: SE4 Sec. 2 (R-10938, 1-9-58) Ext: NE4 Sec. 12 (R-11005, 7-24-98) Ext: NM4 Sec. 1, SE4 Sec. 12 (R-11013, 7-30-98) Ext: NE4 Sec. 2 (R-11067, 10-20-98) Ext: SE4 Sec. 1 (R-11359, 4-12-00)

BK1. 5/2 Sec. 11 (R-11838, 9-27-02)