. 1/9							
BUN				R-111-F	OTAS	H	
	OCD-A	RTESIA		•		-	
Form 3160-3 (April 2004)		FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007					
UNITED STATES DEPARTMENT OF THE II		5. Lease Serial No. NMNM- 522080					
BUREAU OF LAND MAN		6. If Indian, Allotee or Tribe Name					
APPLICATION FOR PERMIT TO I	N/A						
ia. Type of work: 🔽 DRILL REENTE		7 If Unit or CA Agre N/A		ne and No.			
lb. Type of Well: Oil Well Gas Well Other	b. Type of Well: Voil Well Gas Well Other Single Zone Multiple Zone						
2. Name of Operator FOREST OIL PERMIAN CORPORAT	ION	33016		9. API Well No. 30-015-	342-	27	
DENVER, CO 80202	(303) 81	(include area code) 12-1400 <i>Au</i>	149	10. Field and Pool, or LIVINGSTO	Exploratory		
4. Location of Well (Report location clearly and in accordance with any	v State requireme	MLS.*) RECEIV	ED	11. Sec., T. R. M. or E	Blk. and Surv	ey or Area	
At surface 950 FSL & 2280 FWL At proposed prod. zone SAME N		JUL 2 0 20)05	12-23S-31E N	MPM		
 4. Distance in miles and direction from nearest town or post office* 22 AIR MILES EAST OF LOVING 	•	OCD-ARTE	ela	12. County or Parish EDDY		13. State NM	
 Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 	16. No. of ac 1,280	cres in lease	17. Spacin SESV	ng Unit dedicated to this	well		
18. Distance from proposed location*	19. Proposed	Depth	20. BLM/	BIA Bond No. on file		<u></u>	•
to nearest well, drilling, completed, applied for, on this lease, ft. 1,072' (#7)	8,400'		BLM	LM NATION WIDE WYB000195			
 Elevations (Show whether DF, KDB, RT, GL, etc.) 3,503' GL 	22. Approxin	nate date work will sta 02/01/2005					
	24. Attac	hments					_
he following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, shall be a	ittached to the	his form:			
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover t Item 20 above).		ons unless covered by ar	n existing b	ond on file (see	
3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	Lands, the	 Operator certifi Such other site authorized official 	specific in	formation and/or plans a	s may be re	quired by the	_
25. Signature		(Printed/Typed) BRIAN WOOD			Date 01/1	2/2005	-
CONSULTANT	PHON	E: (505) 466-8120	FA	X: (505) 466-9682			
Approved by (Signature) S/ Linda S. C. Rundell	Name	(PrintetsTypEdind	a S. C	. Rundell	Date J	UL 11	20
STATE DIRECTOR	Office	NA	a sta	TE OFFICE			-
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	ls legal or equi	table title to those rig	al a la	bjectlease which would IOVAL FOI	entitle the a	pplicant to YEAR	-
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c. States any false, fictitious or fraudulent statements or representations as	rime for any p to any matter w	erson knowingly and vithin its jurisdiction.	willfully to	make to any department	or agency of	of the United	=

*(Instructions on page 2)

Certabed Controlled Water Basin

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED 29.5 5-++

Witness Surface & Intermediate Casing

Office	OTHER OF LIGHT PLEATED	· ·	
District I	Energy, Minerals and Natural Resources		<u>May 27, 2004</u>
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API NO. 30-015	- 34777
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease	dd /
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	STATE 🗌 FE	E
District IV	Santa Fe, NM 87505	6. State Oil & Gas Lease No	
1220 S. St. Francis Dr., Santa Fe, NM 87505		NMN	IM-022080
	ICES AND REPORTS ON WELLS	7. Lease Name or Unit Agre	ement Name
	DSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A CATION FOR PERMIT (FORM C-101) FOR SUCH , 3	BARCLAY	FEDERAL
PROPOSALS.)			
1. Type of Well: Oil Well 🔀	Gas Well Other	8. Well Number	35
2. Name of Operator FOREST OIL PERMIAN CORE	PORATION	9. OGRID Number	33016
3. Address of Operator 1600 BH		10. Pool name or Wildcat	
	ER, CO 80202	LIVINGSTON RIDGE; DEL/	AWARE, SOUTH
4. Well Location			
Unit Letter N_:		2280feet from theV	VEST_line
Section 12	Township 23 S Range 31 E	NMPM County]	EDDY
	11. Elevation (Show whether DR, RKB, RT, GR, etc.		
	3,503' GL		
Pit or Below-grade Tank Application X			000
	water $\sim 210^{\circ}$ Distance from nearest fresh water well $\geq 1 \text{ mi}$		5,000
Pit Liner Thickness: 12 mil		Construction Material	
12. Check	Appropriate Box to Indicate Nature of Notice	, Report or Other Data	
NOTICE OF IN	NTENTION TO: SUI	BSEQUENT REPORT O	۶F
TEMPORARILY ABANDON	CHANGE PLANS	RILLING OPNS. P AND A	
PULL OR ALTER CASING	MULTIPLE COMPL	NT JOB	
OTHER: RESERVE PIT			П
13. Describe proposed or com	pleted operations. (Clearly state all pertinent details, a	nd give pertinent dates, includin	g estimated date
of starting any proposed w	ork). SEE RULE 1103. For Multiple Completions: A	Attach wellbore diagram of prop	osed completion
or recompletion.		-	
I hereby certify that the information	above is true and complete to the best of my knowled	ge and belief. I further certify that	any pit or below-
I hereby certify that the information grade tank has been/will be constructed or	closed according to NMOCD guidelines 🔯, a general permit [] or an (attached) alternative OCD-ap	oproved plan 🗌.
I hereby certify that the information grade tank has been/will be constructed or SIGNAT URE	above is true and complete to the best of my knowled based according to NMOCD guidelines X, a general permit TITLE CONSULTAN] or an (attached) alternative OCD-ap	-12-05
grade tank has been/will be constructed or SIGNATURE	TitleTitleTitle] or an (attached) alternative OCD-ap NTDATE_1	pproved plan []. -12-05 (505)
grade tank has been/will be constructed or SIGNATURE BRIAN W	TitleTitleTitle] or an (attached) alternative OCD-ap	pproved plan []. -12-05 (505)
grade tank has been/will be constructed or SIGNATURE	TitleTitleTitle] or an (attached) alternative OCD-ap ITDATE1 crmitswest.com Telephone No	pproved plan []. -12-05 (505)
grade tank has been/will be constructed or SIGNATURE	TITLE CONSULTAN TOOD E-mail address: brian@pe	or an (attached) alternative OCD-ap TDATE1 Tmitswest.com Telephone No pervisor	pproved plan □. -12-05 (505) p. 466-8120
grade tank has been/will be constructed or SIGNATURE	TITLE CONSULTAN TOOD E-mail address: brian@pe Field Su	or an (attached) alternative OCD-ap TDATE1 Tmitswest.com Telephone No pervisor	pproved plan []. -12-05 (505)

		State of New Mexico								
STRICT I	ROBBS, NM 882	240		Buergy, I	Minerals and	d Natural R	esources Department	-	F	orm C-102
DISTRICT II 1301 W. GRAND AVENUU DISTRICT III		Revised JUNE 10, 2003 STA, NM 88210 STA, NM 88210 State Lease - 4 Copies Santa Fe, New Mexico 87505 Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies								
1000 Rio Brazos R DISTRICT IV	d., Aztec, Ni									
1220 S. ST. FRANCES D	Number								AMENDE	D REPORT
•	number		96149 ^{Pool Code} LIVINGSTON RIDGE; DELAWARE, SOUTH							
Property (Code		Property Name • BARCLAY FEDERAL						Well Num = 35	
ogrid N 3301		Operator Name El						Elevatio 3503		
L		1			Surfa	ce Loca	ation			
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro		North/South line	Feet from the	East/West line	County
_N	. 12	23-S.	L	•	L	50 .	SOUTH.	2280	WEST .	EDDY
UL or lot No.	Section	Township	<u></u>	Hole Lo	cation Feet fr		rent From Sur	face Feet from the	Paul /Wash 1ima	
UL OF ICC NO.	Secuol	Township	Range	LOU IGN	Feet In	om the	North/South line	reet from the	East/West line	County
Dedicated Acre	s Joint o	r Infill Co	nsolidation	Code Or	der No.					
40								······································		
NO ALLO	WABLE W						NTIL ALL INTER APPROVED BY		EEN CONSOLIDA	TED
LOT 4		LO	T 3		LOT 2	- 1	LOT 1	OPERATO	OR CERTIFICAT	ION
				1					y certify the the inj	
	1					1		11	n is true and comple vledge and belief.	ite to the
								1 73		
40.00 A		40	0.00 AC	1	40.00 AC		40.00 AC		TUSE	(
	·					'		Signature	BRIAN W	ÒOD
	ļ	GE	ODETIC C NAD 2		ES	1		Printed Nam	[©] CONSULT	ANT
			Y=4785					Title	JAN. 12, 2	
	1		X=6857			Ì		Date	JAN. 12, 2	
	1		AT.=32*18 NG.=103*4		-					
				+		— —			OR CERTIFICAT	
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				1		1		supervison, ar	made by me or nd that the same is no best of my belie,	true and
				ļ		1			MBER 20, 200	A
								Date Surveye	and Marsh	JR
	[3505.	7'	505.6'—		— —		- Signature & Professional		
	2280'_			i • •						
								Bary &	2 Telm 12/2	8/04
		3494.	.0' ô 3: 6 6	501.4'		I			J4.11.1/00	
	1	/		1		1		Ceruficate N	o. GARY EIDSON	12641
L		<u> </u>		1						

LOCATION VERIFICATION MAP



Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	<u>GL Depth</u>	KB Depth	Elevation
Red Beds	000'	20'	+3,503'
Rustler	818'	838'	+2,685'
Castile Anhydrite Salt	1,173'	1,193'	+2,330'
Delaware Lamar Shale	4,503'	4,523'	-1,000'
Delaware Bell Canyon	4,538'	4,558'	-1,035'
Delaware Cherry Canyon	5,428'	5,448'	-1,925'
Delaware Brushy Canyon	7,028'	7,048'	-3,525'
Delaware Lower Brushy Canyon	8,193'	8,213'	-4,690'
Total Depth (TD)*	8,400'	8,415'	-4,897'

2. NOTABLE ZONES

<u>Gas or Oil Zones</u>	Water Zone	Mineral Zone
Delaware - Bone Spring	Red Beds	Potash

Water zones will be protected with casing, cement, and weighted mud. Fresh water found while drilling will be recorded.

3. PRESSURE CONTROL

The drilling contract has not been awarded. Thus, the exact BOP model to be used is not yet known. A typical 2,000 psi model is on PAGE 3.

BOP and choke manifold will be installed and pressure tested before drilling out of the surface casing. Subsequent pressure tests will be performed





whenever pressure seals are broken. BOP and manifold mechanical operating conditions will be checked daily. BOP will be 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 if a test plug is used. If a plug is not used, then the stack will be tested to the rated working pressure of the stack or 70% of the minimum internal yield of the casing, whichever is less. Annular type preventers will be pressure tested to 0.22 psi/foot 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.

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

Choke manifold and accumulator will meet or exceed OCD standards. BOP equipment will be tested after any repairs. Pipe & blind rams and annular preventer will be activated on each trip. Weekly BOP drills will be conducted with each crew. All tests, maintenance, and BOP drills will recorded on the rig tower sheets.

Manual and/or hydraulic controls will comply with OCD 5,000 psi rules. A remote accumulator will be used. Pressures, capacities, and the locations of remote hydraulic and manual controls will be identified at the time of the OCD supervised BOP test. Auxiliary equipment will include:

- upper kelly cokc, lower kelly cock will be installed while drilling
- inside BOP or stabbing valve with handle available on rig floor
- safety valve(s) and subs to fit all string connections in use

- electronic/mechanical mud monitor will use a Pason Unit with a minimum pit volume totalizer; stroke counter; flow sensor





Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be caried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.

4. CASING & CEMENT

<u>Hole Size</u>	<u>Q. D.</u>	<u>Weight (lb/ft)</u>	<u>Grade</u>	<u>Age</u>	<u>Connections</u>	Setting Dept	<u>th</u>
17-1/2"	13-3/8"	54.5	K-55	New	Butt	900'	WITNESS
12-1/4"	8-5/8"	24	K-55	New	ST&C	4,500'	WITNESS
7-7/8"	5-1/2"	17	N-80	New	LT&C	8,400'	UQ U E E V +

Surface casing will be cemented to the surface with >80% excess. Lead with \approx 470 sacks 35:65 Class C + additives (yield = 1.89 cubic feet per sack). Tail with \approx 200 sacks Class C + additives (yield = 1.34 cubic feet per sack).

Intermediate casing will be cemented to the surface with 50% excess. Lead with $\approx 1,040$ sacks 50:50 Poz + additives (yield = 2.45 cubc feet per sack). Tail with ≈ 200 sacks Class C + additives (yield = 1.34 cubic feet per sack).

Production casing will be cemented to the surface with $\approx 20\%$ excess. Lead with ≈ 380 sacks 35:65 Class C + additives (yield = 1.92 cubic feet per sack). Tail with ≈ 600 sacks Class H + additives (yield = 1.79 cubic feet per sack).

A string of 2-3/8", 4.7 pound, N-80, EUE 8 round tubing will be run for production.

5. MUD PROGRAM

<u>RANGE</u>	MUD TYPE	<u>WEIGHT</u>	<u>VISCOSITY</u>	WATER LOSS
0' - 900'	Fresh Water	8.5		
900' - 4,500'	Brine	10		
4,500' - TD	Fresh water polymer	8.6-9.0	35	<u><</u> 20 cc

Enough mud material will be on site to mainain mud properties and control lost circulation or a kick.





6. <u>CORES, TESTS, & LOGS</u>

No cores are planned. Drill stem tests may be run on shows of interest. DIL-GR-SP-CAL and ND-GR-CAL logs will be run from TD to \approx 4,400'.

7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum expected bottom hole pressure will be \approx 3,612 psi.

8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take ≈ 16 days to drill and one month to complete the well.



PAGE 5



Surface Use Plan

1. <u>DIRECTIONS & EXISTING ROADS</u> (See PAGES 10 & 11)

From the junction of US 285 & NM 31 between Carlsbad & Loving ... Go Northeast 9 miles on NM 31 Then turn right and go East 17.4 miles NM 128 to Mile post \approx 17.4 Then turn left onto County Road 798 (Red Road) and go North 5.1 miles Then turn right after a cattle guard and go East 0.4 miles on a caliche road Then turn right at a cattle guard and go South 0.3 miles Then turn left at the #22 well and go East 0.5 miles Then turn right and go South 0.4 miles to the #3 well Then turn right and go West 0.2 miles to the SW corner of the #2 well Then go Northwest cross country \approx 961' to the proposed pad

Roads will be maintained to a standard at least equal to their present condition.

2. <u>ROAD TO BE BUILT OR UPGRADED</u> (See PAGES 11 & 12)

The last 961' of road will be crowned and caliche surfaced with a $\approx 15'$ wide running surface and 1 vehicle turnout. Maximum disturbed width = 20'. Maximum grade = 2%. Maximum cut or fill = 1'. No upgrade, culvert, cattleguard is needed.

3. EXISTING WELLS (See PAGE 11)

There are 39 oil or gas wells and 2 P & A wells within a 1 mile radius. There are no water, disposal, or injection wells within a mile.





SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31. EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO



APPROX. 5.1 MILES TO A CALICHE ROAD ON THE RIGHT. TURN RIGHT (EAST) GO NORTH ON CO. RD. #798 FOR APPROX. 5.1 MILES TO A CALICHE ROAD ON THE RIGHT. TURN RIGHT (EAST) AND GO APPROX. 0.4 MILES TO A CALICHE ROAD ON THE RIGHT. TURN RIGHT (SOUTH) AND GO APPROX. 0.3 MILES TO A CALICHE ROAD ON THE LEFT. TURN LEFT (EAST) AND GO APPROX. 0.5 MILES TO A "T" INTERSECTION. TURN RIGHT (SOUTH) AND GO APPROX. 0.4 MILES TO WHERE THE ROAD BENDS WEST. GO WEST FOR APPROX. 0.2 MILES TO A PROPOSED ROAD SURVEY AT THE SWC OF THE BARCLAY FED. #2 WELL PAD. FOLLOW PROPOSED ROAD SURVEY NW FOR APPROX. 961' TO PROPOSED LOCATION.

				FOREST OIL PERMIAN CORPORATION
100 0 100 200 F Scale: 1 "= 100' PROMDING SURVEYING SERVICES SINCE 1948			BARCLAY FEDERAL #35 WELL LOCATED 950 FEET FROM THE SOUTH LINE AND 2280 FEET FROM THE WEST LINE OF SECTION 12, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.	
JOHN WEST SURVEYING COMPANY 412 N DAL PASO				Survey Date: 12/20/04 Sheet 1 of 1 Sheets
		HOBBS, N.M. 88240 (505) 393-3117	J	W.O. Number: 04.11.1700 Dr By: J.R. Rev 1:N/A
	1	• •	·····	Date: 12/27/04 Disk: CD#10 04111700 Scale:1"=100'