N.	M. Oi	Cons. DIV	/	· •		
Form 3160-3 (August 1999)	301	ff Orand /		FOR OMB	M APPROV No. 1004-0 November 36	$136 \bigcirc $
UNITED STATES DEPARTMENT OF THE INT	ERIOR			5. Lease Serial N NM-103265		
BUREAU OF LAND MANAGE APPLICATION FOR PERMIT TO DRIL		EENTER		6. If Indian, Allo	ttee or Trib	e Name
la. Type of Work: 🖌 DRILL 🔲 REENTER				7. If Unit or CA A	greement,	Name and No.
1b. Type of Well: 🖸 Oil Well 🗖 Gas Well 🗖 Other	🔲 Si	ngle Zone 🔲 Multip	ole Zone	8. Lease Name and Fossil Operating		9
2. Name of Operator		· Are ardered with hitlener-		9. API Well No.		
Fossil Operating, Inc. 27308		· · · · · · · · · · · · · · · · · · ·				- 63526
		. (include area code)		10. Field and Pool,	•	tory
	72-681-80			King Camp Devo 11. Sec., T., R., M.		d Survey or Area
4. Location of Well (Report location clearly and in accordance with any At surface 1550' FNL & 1200' FEL	state requi	rements. +)		11, 300, 1., K., M.	, 01 DIK. ali	d Survey of Alea
At proposed prod. zone same				Sec. 27-T14S-R	29E	
14. Distance in miles and direction from nearest town or post office*	· · · · · · · · ·			12. County or Pari	sh	13. State
24 miles east of Hagerman, NM				Chaves		NM
location to nearest property or lease line, ft.	16. No. of A 360	cres in lease	17. Spacin 40	g Unit dedicated to th		6789
18. Distance from proposed location*	19. Propose	d Depth		BIA Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft. 1183'	10,500'	•	Letter of	Cr. on file (10/02)	12	R
21. Elevations (Show whether DF, KDB, RT, GL, etc.)2	22. Approxi	imate date work will st	art*	23. Estimated dur	attion	
3821' GL	1/3/03			30 days	8	REUL
	24. Attac	chments			12	ocu "
The following, completed in accordance with the requirements of Onshore O	Oil and Gas	Order No.1, shall be att	ached to thi	s form:	102- 12- 12-0-	······································
 Well plat certified by a registered surveyor. A Drilling Plan. 		 Bond to cover the Item 20 above). Operator certification 		s unless covered by	an existing	bond on file (see
3. A Surface Use Plan (if the location is on National Forest System La SUPO shall be filed with the appropriate Forest Service Office).	inds, the		pecific info	ormation and/or pla	ns as may	be required by the
25. Signature	1	(Printed/Typed) ge R. Smith			Date	3/02
Title		<u>jo tu oliniu</u>		·····		
agent for Fossil Operating, Inc.						
Approved by (Signature) /S/LAHHY D. BHAY	Name	(Printed Typed)			Date	tout (
Title Assistant Field Manager, Lands And Minerals	Office	ROSWELL FO	FLDORS	3702-		
Lands And Minerals Application approval does not warrant or certify that the applicant holds leg operations thereon. Conditions of approval, if any, are attached.	al or equital	ble title to those rights in	n the subject	t lease which would e	ntitle the ap	oplicant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations as to a			nd willfully	to make to any depar	tment or a	gency of the United

*(Instructions on reverse)

NISL 4828

Lease Responsibility Statement: Fossil Operating, Inc. accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof.

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS ATTACHED

George R. Smith, agent

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Form C+102 District 1 1625 N. French Dr. Hobbs, NM 86240 State of New Mexico Revised March 17, 1999 Submit to Appropriate District Office Energy, Minerals & Natural Resources <u>District II</u> 811 South First, Artesia, NM 88210 State Lease - 4 Coples Fee Lease - 3 Copies OIL CONSERVATION DIVISION District III 1000 Rb Brazos Rd., Aztec NM 87410 <u>District N</u> 2040 South Pacheco, Santa Fe, NM 07505 2040 South Pacheco AMENDED REPORT Santa Fe, N M 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name King Camp Devonian Property Code Property Name Well Number FOSSIL OPERATING FEDERAL COM 1 OGRID No. **Operation** Name Elevation FOSSIL OPERATING, INC. 3821 Surface Location UL or Lot No. Section Township Range Lot Kin. North/South line Feet from the Feet from the East/West line County Η 2714 - S29 - E1550 *NORTH* 1200 EAST CHAVES Hole Location If Different From Surface Bottom UL or Lot No. Section Township Range Lot Kin. Feet from the North/South line Feet from the East/West line County **Dedicated Acres** Joint or Infill Consolidation Code Order No. 40 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I HEREBY CERTIPY THAT THE INFORMATION HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. 1550 Signature Lew mit rinted Name George R. Smith litle Agent Pote 12/18/02 **XXXXXXXXXXXXXXXX** NM**-1032**65 SURVEYOR CERTIFICATION I HEREBY CERTIFY THAT THE WELL LOCATION SHOWN ON THIS PLAT WAS PLOTTED FROM FIELD NOTES OF ACTULL SURVEYS MADE BY ME OR UNDER MT SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELLEF. 8910117373175181718 WED SIA 15181718755 WED SIA 150555 NOVEMBER 14 2002 WYM. REDD Date of in find N MEN Slar 5412 Pre-NN

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APPLICATION FOR DRILLING

FOSSIL OPERATING, INC.

Fossil Operating Federal, Well No. 1 1550' FNL & 1200' FEL, Sec. 27-T14S-R29E Chaves County, New Mexico Lease No.: NM-103265 (Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, FOSSIL Operating, Inc. submits the following items of pertinent information in accordance with BLM requirements:

1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.

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

Anhydrite	300'	Abo	5900'
Yates	1033'	Wolfcamp	7170'
Queen	1460'	Strawn	8670'
Grayburg	2135'	Atoka	9200'
San Andres	2420'	Chester	9450'
Glorieta	3300'	Missippian	9700'
Tubb	5100'	Devonian	10,200'
		T.D.	10,500'

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

Water: Surface water between 100' - 300'.

Oil: Possible in the Queen, San Andres, and Devonian

Gas: Possible in the Strawn and Atoka.

4. Proposed Casing Program: 54.5# H-40

HOLE SIZE	CASING SIZE	WEIGHT	GRADE	JOINT	SETTING DEPTH	QUANTITY OF CEMENT	
17 1/2"	13 3/8"	48.6#	J-55	ST&C		Circ. 180 sx "A" $+$ add.	
12 1/4"	8 5/8"	28.0#	1-55	ST&C	- 500		
7 7/8"	5 1/2"		N-80		2,500	Circ. 520 sx "A" + add. *	
	5 172	17.0#	IN-00	LT&C	C 10,200'	340 sx "H"	

5. Proposed Control Equipment: A 11" 5000 psi wp Shaffer, LWS Double Gate BOP will be installed on the 13 3/8" casing and operated as a 3000 psi wp system. Casing and BOP will be tested, as described in Onshore Order No. 2, before drilling out with the 12 1/4" to a maximum expected surface pressure of 1500 psi wp, and will be tested weekly. See Exhibit "E".

6. MUD PROGRAM:	MUD WEIGHT	VIS.	W/L CONTROL
0' - 300': Fresh water mud:	8.4 - 9.4 ppg	32 - 34	
300' - 2,500': Brine mud:	10.0 ppg		No W/L control
2,500' - 5,800': Fresh water mud + add		28	No W/L control
5,800' - 8,000': Brine mud + add	8.4 - 8.5 ppg	28	No W/L control
	9.4 - 9.6 ppg	30 - 34	W/L control 20 cc +/-
8,000' - 9,200': Brine mud	9.6 - 9.8 ppg	34 - 36	W/L control 12 cc +/-
9,200' - 10,500' Brine mud	9.7 - 9.9 ppg	36 - 38	W/L control 10 cc $+/-$

7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.

8. Testing, Logging, and Coring Program:

MUD PROOP

Drill Stem Tests: None unless conditions warrant.

Logging: T.D to int. casing: -Schlumberger Platform Express T.D. to Surface: GR-Neutron

Coring: Rotary Sidewall: as dictated by logs.

FOSSIL Operating, Inc. Fossil Operating Federal, Well No. 1 Page 2

- 9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight. Estimated evacuated BHP = 4620 psi and a surface pressure of 2310 psi with a temperature of 165°.
- 10. H₂S: None expected.
- Anticipated starting date: January 3, 2003. Anticipated completion of drilling operations: Approximately 30 days.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

FOSSIL OPERATING, INC. Fossil Operating Federal, Well No. 1 1550' FNL & 1200' FEL, Sec. 27-T14S-R29E Chaves County, New Mexico Lease No.: NM-103265 (Development Well)

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan to be followed in rehabilitating the surface and environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a USGS Topographic map showing the location of the proposed well as staked. The well site location is approximately 22.7 road miles east of Hagerman, NM. Traveling east of Hagerman on N.M. Highway 249 there will be 20.7 miles of paved highway and 2 miles of county road.
- B. Directions: Travel east from Hagerman, NM on N. M. Highway 249 for approximately 20.7 miles to a County road (Jemina Rd) and cattleguard on the north (left) that runs north. Continue north for 1.6 miles; then turn right (east) on Katrina Rd for .3 mile to the start of the proposed access road that will run north for 400 feet across a P/A well site, the Honolulu Fed. #1 drilled by BTA Oil Prod. and then northeast for 850' to the southwest corner of the proposed well site.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The proposed access roads will be approximately 1250 feet long. The proposed and existing roads are color coded on Exhibit "A".
- B. Construction: The proposed access road will be constructed by grading and topping with compacted caliche. The surface will be properly drained.
- C. Turnouts: There will be at least one turnout, in the 850 foot portion, increasing the road width to 20 feet for passing.
- D. Culverts: None.
- E. Cuts and Fills: None required.
- F. Gates, Cattle guards. None.
- G. Off lease right of way: None required.

3. LOCATION OF EXISTING WELLS:

A. Existing wells within a two-mile radius are shown on Exhibit "C".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;

- A. Fossil Operating, Inc. has no production facilities on the lease by this time.
- B. If the well proves to be commercial, the necessary production facilities, gas separation-process equipment and tank battery will be installed on the drilling pad

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh water that will be obtained from private or commercial sources and will be transported over the existing and proposed access roads

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing the proposed access road and well site pad will be obtained from the location, if available. A backup Federal pit is located in SE4 Sec. 20-T14S-R29E. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access road.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or a separate disposal application will be submitted to the BLM for approval.
- 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. Trash, waste paper, garbage and junk will be contained in trash bins to prevent scattering by the wind and will be removed for deposit in an approved sanitary landfill within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

FOSSIL OPERATING, INC.

Fossil Operating Federal, Well No. 1 Page 3

9. WELL SITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged, 400' X 400'.
- B. Mat Size: 285' X 200', plus 125' X 150' reserve pits on the southeast. The surface soil will be stored in the northeast corner of the pad area.
- C Cut & Fill: The location will require a 2- foot cut on the south and fill to the north.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not required for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in an aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled as soon as they are dry enough to be worked.

11. OTHER INFORMATION:

- A. Topography: The proposed well site and access road are located on a gentle 1.4% slope to the northwest. The location has an elevation of 3821' GL.
- B. Soil: The topsoil at the well site is a light tan sandy loam soil with some with possible underlying caliche rock. The soil is part of the Tencee gravelly sandy loam series.
- C. Flora and Fauna: The vegetation cover has a sparse grass cover of threeawn, grama, dropseed, bush muhly, along with plants of mesquite, yucca, broomweed, sage, cacti and miscellaneous weeds and wildflowers. The wildlife consists of rabbits, coyotes, antelope, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None.
- E. Residences and Other Structures: None in the immediate vicinity.
- F. Land Use: Cattle grazing.

FOSSIL OPERATING, INC. Fossil Operating Federal, Well No. 1 Page 4

11. OTHER INFORMATION: cont.....

- G. Surface Ownership: The proposed well site and access road is on Federal surface and minerals.
- H. There is no evidence of archaeological, historical or cultural sites in the staked area. Archaeological Survey Consultants, P. O. Box D, Roswell, NM 88202, is conducting an archaeological survey and their report will be submitted to the appropriate government agencies.

12. OPERATOR'S REPRESENTATIVE:

A. The field representative for assuring compliance with the approved use and operations plan is as follows:

Calvin Wallen Fossil Operating, Inc. P.O. Box 181688 Dallas, TX 75218 Office Phone: (972) 681-8047 Cell Phone: (214) 668-0101

13. CERTIFICATION:

I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Fossil Operating, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

December 18, 2002

George R. Smith // Agent for: Fossil Operating, Inc.



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EXHIBIT "D" FOSSIL OPERATING, INC. Fossil Operating Federal, Well No. 1 Pad & Pit Layout

RIG # 78

BLOWOUT PREVENTOR ARRANGEMENT

II" SHAFFER TYPE LWS, 5000 psi WP II" CAMERON SPHERICAL, 5000 psi WP I20 GALLON, 5 STATION KOOMEY ACCUMULATOR 5000 psi WP CHOKE MANIFOLD



EXHIBIT "E" FOSSIL OPERATING, INC. Fossil Operating Federal, Well No. 1 BOP Specifications