Form 3160 - 3 FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007 (April 2004) UNITED STATES 2004 MAY 25 PM Lease Serial No. DEPARTMENT OF THE INTERIOR SF 80000A **BUREAU OF LAND MANAGEMENT** If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER NΔ 7 If Unit or CA Agreement, Name and No. DRILL REENTER la. Type of work: 8. Lease Name and Well No. Oil Well Gas Well Other lb. Type of Well: Single Zone Multiple Zone A B Geren 3A 9. API Well No. Name of Operator Koch Exploration Company, LLC 300 3a. Address PO Box 489 3b. Phone No. (include area gode) 10. Field and Pool, or Exploratory 18 19 20 Aztec, NM 87410 (505) 334-9111 **Basin Fruitland Coal** 11 Sec., T. R. M. or Blk. and Survey or Area Location of Well (Report location clearly and in accordance with any State requ 3/3 1700' FNL & 985' FWL At surface \$24, T29N, R9W (E) At proposed prod. zone Same 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* San Juan NM 17. Spacing Unit dedicated to this well Distance from proposed* 16. No. of act location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 812.28 20. BLM/BIA Bond No. on file Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 19. Proposed Depth 2599 400 GH 0471 22. Approximate date work will start* Elevations (Show whether DF, KDB, RT, GL, etc.) 23. Estimated duration 5949' GL 06/20/2004 30 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2. A Drilling Plan. Operator certification 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the authorized officer. Name (Printed Typed) 25. Signature Don Johnson Title Field Operat Name (Printed/Typed) بنك) Approved by

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to

*(Instructions on page 2)

conduct operations thereon.

Title

DISTRICT I P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

DISTRICT II

811 South First, Artesia, N.M. 88210

1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV

2040 South Pacheco, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised Febuary 21, 1994

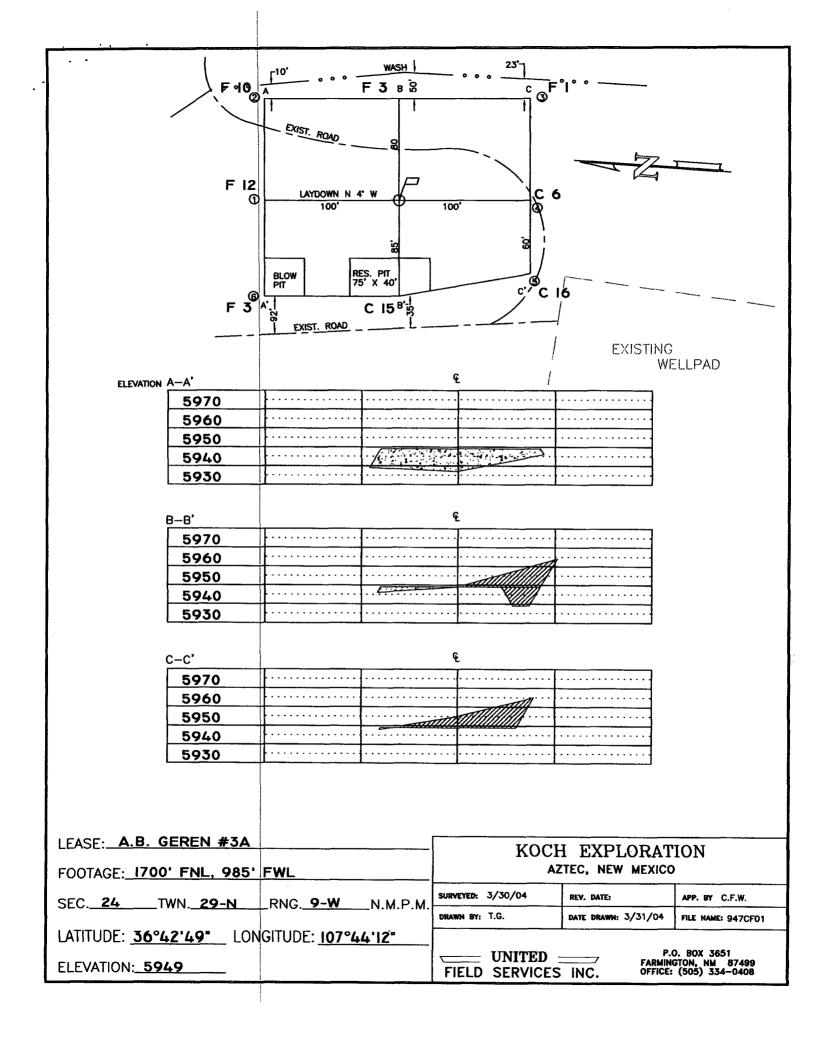
Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

□ AMENDED REPORT

			WELL L	OCATI	ON AND	ACF	REAGE DEDI	CATI	ION PI	LAT		
1. /				Pool Cod		BASIN FRUITHNO Coal						
Property Code			1,00	Property Name A.B. GEREN						• A	Fell Number	
OGRID No.				Operator Name				° Elsvation				
12807					KOCH EXPLORATION COMPON				ny, LLC 5949			
					¹⁰ Surface Location					r = <u>-</u> -		
UL or lot no.	Section	•	Range	Lot Idn	Feet from t				East/West line WEST		SAN JUAN	
<u>E</u>	24	29 N	9 W				NORTH D			WES	1	SAN JUAN
UL or lot no.	Section	n Township	11 Botto)M HOI	E LOCATIO		Different From North/South line		uriace from the	East/West	line	County
02 03 100 110	00000	10,100,100	, wange	200 1011	1.000 1.011		norm, count into			2000		County
18 Dedicated Acres	s ¹⁸ Join	nt or Infill 14	Consolidation	Code 15	Order No.			L		L		
NO ALLOWA	ABLE						N UNTIL ALL EN APPROVED				EN C	ONSOLIDATED
16		N 89°16		עוגאעוו	ONII IIAS	DEE	5074.74°				CED	TIFICATION
			••					li				contained herein is
ò				1				<u>- </u>	e and compl	ete to the best	of my	knowledge and belief
5207.40	700			I				5148.8				
250				l				214				
								\downarrow			7.	
	_			 		\neg		$\exists \subseteq$	W.	The second	Ø.	Som
985'				1		İ		Si	gnature _	ance F	F. H	armon
	—•				- TO TO	19 20	77	P	rinted Nav	rce Pr	esio	lent - Land
<u> </u>					16/1 In	,01.0		Ti	itle			
:			SE/	1		102			ate 🗪	30:L	7 =	204
			<u> </u>	CTION 2			000	-		VEYOR (CERT	IFICATION
					E		9 3	I M				shown on this plat
						* •	n J	31		-	-	surveys made by me
		Existing	Wall		10 m					est of my belie	Sum	11111111
1280		A B Ger		1		5. 1 A	مستعشد	l	3/30/	04 will	ied l	AND SULL
		1485 F	SL & 12	do'FW	IF.			Di	ate of Sur	rey	KAT	E 02.75
			0-045-					((ignature ar	nd P	rofessio	mal Surveyon
ш		i i	•	•				ш io 4	1/4/04		, (5)	[19] I =
0°32'	1485.							2°55'	1)/1/0	O	Car T	
6	Ž							z	gra		2 re	Er MOLLE
z	•									70	Wij,	######
N 89°48'	58° W						4866.12'	C	ertificate N	lumber	-	

Submit 3 Copies To Appropriate District Office	State of	f New Me	xico	Form C-103		
District I	Energy, Minerals	s and Natu	ral Resources	March 4, 2004 WELL API NO.		
1625 N. French Dr., Hobbs, NM 88240 District II				WELL API NO.		
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSER		5. Indicate Type of Lease FEDERAL			
District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 Sout			STATE FEE		
District IV	7505	6. State Oil & Gas Lease No.				
1220 S. St. Francis Dr., Santa Fe, NM 87505				SF 80000A		
	TICES AND REPORTS O			7. Lease Name or Unit Agreement Name		
(DO NOT USE THIS FORM FOR PROP DIFFERENT RESERVOIR. USE "APP				A B Geren		
PROPOSALS.)		8. Well Number				
1. Type of Well:	71 Other			3A		
Oil Well Gas Well	Other					
2. Name of Operator	xploration Company, LLC	-		9. OGRID Number 12807		
3. Address of Operator	xpioration Company, LLC	<u></u>		10. Pool name or Wildcat		
	489, Aztec, NM 87410			Basin Fruitland Coal		
4. Well Location						
Unit Letter_E	1700feet from the	North	_ line and _985	feet from theWestline		
Section 24	Township	20N	Range 9W	NMPM San Juan County		
Section 24	11. Elevation (Show w					
	5949' G	R	•	\$		
Pit or Below-grade Tank Application (or pit or below-grade tank clo	sures, a form	C-144 must be attache	<u>d)</u>		
Pit Location: UL_E_Sect_24_Twp_29?	Rng_9W_ Pit type_Drilling/	$Completion_I$	Depth to Groundwater_	<50'_Distance from nearest fresh water well_> 1000'_		
Distance from nearest surface water_	<50' Below-grade Tank Lo	ocation UL_	SectTwp	;		
feet from theline and	feet from the	line				
12 Check	Appropriate Boy to I	ndicate N	ature of Notice	Report or Other Data		
	NTENTION TO:	iidioato i i		SEQUENT REPORT OF:		
PERFORM REMEDIAL WORK		ON□	REMEDIAL WO			
_	-	_				
TEMPORARILY ABANDON [CHANGE PLANS		COMMENCE DRI			
PULL OR ALTER CASING [MULTIPLE		CASING TEST A	ABANDONMENT		
	COMPLETION	_	CEMENT JOB			
OTUED: Drill now well on Fodos	al Lagge Dit Laggetion	I ⊠1	OTHER:			
OTHER: Drill new well on Feder		<u>KI</u>	OTHER:			
				d give pertinent dates, including estimated date tach wellbore diagram of proposed completion		
We intend to drill a new	gas well. The drilling/co	mpletion ni	it will be built accor	ding to the General Pit Guidelines on file at		
				uction, maintenance, and closure of this pit.		
				•		
The description of the second	1	-A - A - A1 - 1		and half of a garden state of the state of t		
				e and belief. I further certify that any pit or below- ir an (attached) alternative OCD-approved plan		
A		_ g		- un (accesso) accessors 0 02 approved plant 22 .		
SIGNATURE (1)				<i>-/ / / / / / / / / / / / / / / / / / / </i>		
SIGNATORE TO A STATE OF THE STA	•	_TITLE_Fi	eld Operation Mana	gerDATE 5/35/6 4		
Type or print name Don ohnson	E-mail ad	_	eld Operation Mana			
- / -	E-mail ad	_	•			
Type or print name Don ohnson	E-mail ad	_	•			



A B Geren #3A

S24, T29N, R9W, 1700' FNL & 985 FWL San Juan Co., New Mexico Lease SF 80000A

Drilling Program

1) Geological name of surface formation -

Estimated tops of important geological markers:

San Jose	Surface
Ojo	1434'
Kirtland Shale	1530'
Fruitland Coal	2141'
Pict. Cliffs	2479'
TD	2599'

2) Estimated depths at which oil, gas, water, and mineral bearing formation will be found:

Fresh Water	0' to 1530'
Salt Water	1530' to 2141'
Oil and Gas	2141' to 2599'

3) Pressure Control Equipment:

- a. 10-inch 900 series or 2,000 psi test double gate hydraulic with 4-1/2" pipe rams and 10-inch series 900 hydril above 10-inch series casinghead and cross spool with flanged outlets. See BOP diagram at Exhibit F-1 for drawing of choke lines, kill lines and choke manifold. Procedures will include waiting on cement 12 hours, nipple up blowout preventer (BOP) assembly and test to 750 psi maximum. The production casinghead pressure rating will be 3,000 psi or greater.
- b. Type of BOP rams: Blind rams and pipe rams are used as shown on the BOP diagram at **Exhibit F-1**. Occasionally, the position of the rams is reversed depending on the drilling contractor's methods.
- c. The choke manifold and header will have 2-inch choke outlets, a 2-inch straight through the line with 2-inch adjustable chokes installed. The inlet line will be a 2-inch line. All of the above are rated at 5,000 psi working pressure (WP). The choke manifold and header system will have manual control valves; no hydraulic valves will be installed. Casing testing procedure Surface casing will be tested at 750 psi with 750 psi maximum after cementing in place and before drilling out of shoe. Production casing will be tested to +/- 4,000 psi after cementing in place and after drilling to the required depth. The production tubing head pressure rating will be 5,000 psi. Anticipated frac pressure, 3200# (not to exceed wellhead pressure ratings or 85% of casing pressure ratings).
- d. Hydraulic controls to close the BOPs are located near the rig floor; the hydraulic remote control is located near the doghouse. There will be no manual controls on the BOP.
- e. BOP testing procedures and frequency:

A B Geren #3A

S24, T29N, R9W, 1700' FNL & 985 FWL San Juan Co., New Mexico Lease SF 80000A

- 1. Hydril (3,000WP) will be rated at >750 psi.
- 2. Double ram BOPs will be tested 750 psi maximum.
- 3. BOPs will be tested upon installation, after casing is run and on each bit trip.
- f. Casinghead connections will be 2-inch; these outlets will usually be bull plugged during drilling operations. No pumping through these connections is allowed except in emergency to keep from wearing out the head.
- g. The drilling spool will be a series 900 2,000 psi WP with a 2-inch kill line and a 2-inch outlet.

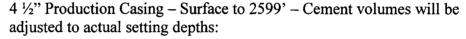
4) Proposed Casing Program:

Surface Casing Program:

Surface Casing 12 ¼" hole 8 5/8" 24.0# J-55 STC New Production Casing 6 3/4" hole 4 ½" 10.5# J-55 STC New

Proposed setting depth, amount and type of cement including additives:

8 5/8" Surface Casing – Surface to 150' – Cement with 105 sks Class B (15.6 ppg, slurry yield 1.18 cf/sk) Cement + 2% Calcium Chloride + .25 lbs/sk Cello Flake. Cement Properties: Volume: 123.9.1 cf., includes 100% excess. Three (3) centralizers will be run on the bottom 3 joints, starting at the shoe joint.



Lead with 220 sks Class B (12.5 ppg, slurry Yield 2.09 cf/sk) + 2% Sodium Metasillicate + .25 lb/sk Cello Flake + 3pps Gilsonite + 11.10 gal/sk Fresh Water. Volume: 460 cf., includes 50% excess. Tail with 75 sks Class B Cement (14.5 ppg, slurry Yield 1.55 cf/sk) + 4% Bentonite Gel + .25 lb/sk Cello Flake + 2% CaCl + 3 pps Gilsonite. Volume: 105 cf. includes 50% excess. Volumes will be adjusted to setting depth. Three (3) centralizers will be run on the bottom three joints, then every 10th joint thereafter or (+ or-) 400' and turbolators to impact a swirling action will be placed just below and into the base of the Ojo Alamo.

5) Mud Program:

0' – 150' – Spud mud and/or water and polymer. 150'–2599' - Lime mud, water and polymer.

6) Testing, Logging, and Coring Program:

No drill stem tests or cores will be taken.

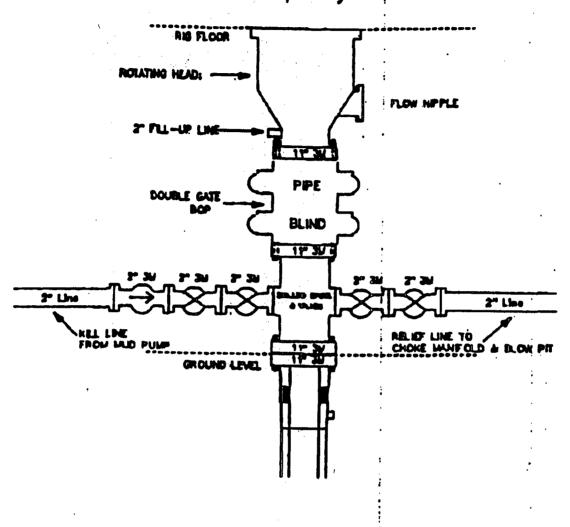
Logging: Production Casing – First Run – Gamma Ray – Casing Collar Locator – Cement Bond Log. (If cement circulates to surface, no CBL will be run.) Second Run – Gamma Ray – Gas Spectrum Log; or Gamma Ray-DIL.



P. O. BOX 1017 \$461 U.B. HWY, 64 FARMINGTON, NEW MEXICO 87408

> TELEPHONE: (606) 226-3371 PAY: (606) 326-3370

Drilling Rig 3000 psi System



11" Bare (10" Nominal), 3000psi working pressure minimum double gate BOP to be equipped with blind and pipe rams. A rotating head on the top of the rams. All BOP equipment is 3000psi working pressure.

Note: A floor safety valuee and upper kelly cock with handle will be available.

Exhibit "F-1"