RECEIVED 2003 FEB II AM II: EXPEDITED ROW

Form 3160-3 (September 2001)	MANGTON,			· OMB No	APPROVEI . 1004-013 nuary 31, 26	6
UNITED ŠŤĂŤÉS DEPARTMENT OF THE IN' BUREAU OF LAND MANAG		34567	3	5. Lease Serial No. SF-077383A		
APPLICATION FOR PERMIT TO DR	.á ^	NTER 0003		6. If Indian, Allotte NA	e or Tribe	Name
la. Type of Work: DRILL REENTER	(2) (2)	Vbu	j. 7	7. If Unit or CA Agre	eement, N	ame and No.
1b. Type of Well: Oil Well Gas Well Other	Single	Zone 🖵 Multi	ple Zone	8. Lease Name and V Noe Com 27-2		
2. Name of Operator Koch Exploration Company	, шс 🎨	(2) - 10151 ·	H Jay	9. API Well No.	- 3	1391
^{3a.} Address 20 East Greenway Plaza Houston, Texas 77046	3b. Phone No. (in			10. Field and Pool, or Basin Fruitl	•	•
4. Location of Well (Report location clearly and in accordance with a	iny State requirem	ents.*)		11. Sec., T., R., M., or	Blk. and	Survey or Area
At surface NW/4, Sec. 27, T28N, R10W, 12 At proposed prod. zone (Same)	45' FNL &	965' FWL		Sec. 27, \$28	N, R1	OW
14. Distance in miles and direction from nearest town or post office*				12. County or Parish	····	13. State
7 miles southeast of Bloomfiel				San Juan		NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 965	16. No. of Acres 640	in lease		g Unit dedicated to this	well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 3100*	19. Proposed Do	pth		GH. 0471		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximat	e date work will sta	urt*	23. Estimated duration		
5991 GR	available 24. Attachn	_		30 days	<u>.</u>	
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Ord	er No.1, shall be at	tached to this	s form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	Landa tha 5	Item 20 above). Operator certific	ation.	ormation and/or plans	•	·
25. Signature Roy A O. L	Name (Pr	nted/Typed)	دسه /د		Date	ים' רס ב
Title S.P. Frair 225		<u> </u>				
Approved by (Signature)	Name (Pr	inted/Typed)			Date	
Title	Office				1	
Application approval does not warrant or certify the the applicant holds le operations thereon. Conditions of approval, if any, are attached.	egal or equitable ti	tle to those rights in	n the subject	lease which would entit	le the app	licant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations as to			nd willfully t	to make to any departm	ent or age	ency of the Unite

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DISTRICT 1 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

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

1000 Rio Brazos Rd., Axtec, N.M. 87410 DISTRICT IV

SORO SQUEET PRO	checo, san	un re, nue oro	V42V00						L	AMEN	IDED REPOR
			WELL I			CREAGE	DED	CATION P	LAT		
30-00	Number 5	3139	/	Pool Code 7/62		Basi	n Fr	Pool Nam	Coal		
Property	Code				"Proper NOE CO	ly Name				1	Vell Number 2A
7 OGRID	No.		· · · · · · · · · · · · · · · · · · ·		*Operat	or Name					* Elevation
1280	97	<u> </u>	·	<u> </u>	COCH EXP			<u> </u>			5991
UL or lot no.	Section	Township	Range	Lot Idn	Surface Feet from the	e Location		Feet from the	East/We	st line	County
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			11 Botte	om Hole	Location	If Differe	nt Fro	m Surface	· · · · · · · · · · · · · · · · · · ·		<u></u>
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DECENTED

Feria 3160-5 (September 2001)	UNITED STATE DEPARTMENT OF THE				FORM APPROVE OMB No. 1004-01: xpires January 31, 2	35
	BUREAU OF LAND MAN	AGEMENT	2007年8日27 門	2.5. Lease Seri	al No.	
SUNDR	RY NOTICES AND REPO his form for proposals to	ORTS ON WEL	LS	SF077383		
abandoned w	ell. Use Form 3160-3 (AP	D) for such prop	osals Formingto	NA Indian,	Allottee or Tribe	Name
SUBMIT IN TR	RIPLICATE - Other instr	uctions on rev	erse side	7. If Unit or	CA/Agreement, N	Vame and/or No.
1. Type of Well			2003	<u> </u>		
Oil Well Gas Well	Other		VEH Sync July.	Noe Com	ne and No.	
2. Name of Operator Koch Explor	caTION Company, LI	c G		70. APLWell		
3a. Address		3b. Phone No.	include area code)	30.	-045-	<u>3/37/</u>
	way Plaza, Housto		713-544-431	10. Field and Basin Fr	Pool, or Explorat	ory Area
4. Location of Well (Footage, Sec Sec 27 T28)	N R10W	<i>n)</i>	Call Wall	11. County or		
1245' FNL 8	8 965' FWL	•			n County,	NM
12 CHECK AT	PPROPRIATE BOX(ES) T	O DIDICATE N	ATURE OF NOTICE	DEDORT OR	OTHER DAT	Α.
	THROPRIATE BOX(ES) I	O INDICATE N		, KEPUKI, UK	OTHER DAT	A
TYPE OF SUBMISSION			TYPE OF ACTION			
Notice of Intent	Acidize Alter Casing	Deepen Fracture Treat	Production (S		→ Water Shut-C → Well Integrit	
	Alter Casing Casing Repair	New Construc		_		y plement to
☐ Subsequent Report	Change Plans	Plug and Abar		-	APD	
Final Abandonment Notice	Convert to Injection	Plug Back	☐ Water Dispos			· · · · · · · · · · · · · · · · · · ·
following completion of the in testing has been completed. F determined that the site is ready	information to API	on results in a multip be filed only after a	le completion or recompleti Il requirements, including r	ion in a new interva eclamation, have be	l, a Form 3160-4 een completed, a	shall be filed once
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14. I hereby certify that the forego Name (Printed/Typed)	ing is true and correct	1				
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Signature 77.01		, n	ate 2-76 D		1	
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Approved by Da	wid J. Mankiewicz		Title	Dat	te APR -	<u>• 2005</u>
Conditions of approval, if any, are certify that the applicant holds leg which would entitle the applicant to	e attached. Approval of this not gal or equitable title to those rig					1 600

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.

Koch Exploration Company, LLC Basin Fruitland Infill Well

Noe Com 27-2A

\$27 - T28N - R10W

Sundry Notice APD Supplement

Casing Program:

	Grade, size of		Setting
Hole Size	Casing	Weight per Foot	Depth
12 1/4" Hole	8 5/8" J-55 ST&C	24.0#	150'
7 7/8" Hole	4 1/2" J-55 LT&C	10.5#	2,130'

Circulate 8-5/8" cement to surface - Volumes to be adjusted to new casings depths Circulate 4-1/2" cement to surface - Volumes to be adjusted to new casing depths

100% excess on surface casing 50% excess on production casing

Centralizer Program:

Surface Casing:

3 Centralizers will be ran on the bottom 3 joints,

starting at the shoe joint

Production Casing:

2 Centralizers will be ran on the bottom 2 joints,

then every 10th joint thereafter or +/-400', and

Centralizers to impact a swirling action will be placed

just below and into the base of the Ojo Alamo.

Estimated Formation Tops:

San Jose	Surface
Ojo	1,028'
Kirtland Shale	1,103'
Fruitland Coal	1,778'
Pictured Cliff	2,003'
TD	2,130'

Estimated Formation Pressures:

Fruitland Coal 600 psi Bottom Hole 200 psi

Estimated depths of useable water, salt water and oil/gas bearing formations:

Fresh/Useable Water 0' to 1,103'
Salt Water 1,103' to 1,778'
Oil and Gas 1,778' to 2,130'

NOE COM 27-2A

Sec. 27-T28N-R10W, 1245' FNL & 965' FWL

San Juan Co., New Mexico

Lease SF 077383-A

Drilling Program

1) Geological name of surface formation -

Estimated tops of important geological markers:

San Jose	Surface
Ojo	963'
Kirtland Shale	1038'
Fruitland Coal	1713'
Pict. Cliffs	1958'
TD	2075'

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

Fresh Water	0' to 200'
Salt Water	201' to 1713'
Oil and Gas	1713' to 2075'

3) Pressure Control Equipment:

- a. 10-inch 900 series or 3,000 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 70% of yield of casing or 3,000 psi maximum. The production casinghead pressure rating will be 3,000 psi.
- 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 3,000 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 1,000 psi maximum after cementing in place and before drilling out of shoe. Intermediate and production casing will be tested to 3,000 psi after cementing in place and after drilling to the required depth.
- d. Hydraulic controls to close the BOPs are located on the rig floor; the hydraulic remote control is located in the bottom doghouse. There will be no manual controls on the BOP.

NOE COM 27-2A

Sec. 27-T28N-R10W, 1245' FNL & 965' FWL San Juan Co., New Mexico Lease SF 077383-A

- e. BOP testing procedures and frequency:
 - 1. Hydril (3,000WP) will be tested to 70% of yield of casing or 3,000 psi maximum.
 - 2. Double ram BOPs will be tested to 70% of yield of casing or <u>3,000</u> 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 3,000 psi WP with a 2-inch kill line and a 2-inch outlet.

4) Proposed Casing Program:

Surface Casing Program:

Surface Casing	8 5/8"	24.0#	J-55 STC	New
Production Casing	4 ½"	10.5#	J-55 LTC	New

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

8 5/8" Surface Casing – Surface to 150' – Cement with 100 sks type III (14.6 ppg, slurry yield 1.39 cf/sk) Cement + 2% bwoc Calcium Chloride + .25 lbs/sk Cello Flake + 59.2% Fresh Water. Volume: 138.1 cf., includes 100% excess.

4 ½" Production Casing – Surface to 2075' –
Lead with 260 sks Premium Lite FM (12.1 ppg, slurry Yield 2.15 cf/sk) +
3% bwoc Calcium Chloride +.25 lb/sk Cello Flake + .4% bwoc FL-52 +
8% bwoc Bentonite + .4% bwoc Sodium Metasilicate + 3 lb/sk Pheno Seal
+ 116.1 % Fresh Water. Volume: 558.2 cf., includes 50% excess.
Tail with 86 sks Type III Cement (14.0 ppg, slurry Yield 1.54 cf/sk) + 2%
bwoc Calcium Chloride + .25 lb/sk Cello Flake + .2% bwoc FL-52 +
68.9% Fresh Water. Volume: 131.7 cf., includes 50% excess.

5) Mud Program:

0' - 150' -Spud mud and water treated with gel lime. 150' - 2075' -Lime mud, water and polymer.