Form 3160-3	
(September 2001	Ì
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# HNITED STATES

FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

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•			ENT OF THE IN			RECE	EIVED	5. Lease Serial No SF-047039-A		
$\circ$	APPLICA		PERMIT TO DE		REENTER	3		6. If Indian, Allotte	e or Tribe N	ame
f.U					ZW:	AUG -	6 AM 10	NA 2		
/ la. Type of Work:	☑ DRILL		☐ REENTEI					7. If Unit or CA Ag	reement, Nan	ne and No.
,				•	07(	) Farmi	naton. I	NIM		
1b. Type of Well:		☑ Gas Well	D 04	[7]			_	8. Lease Name and \	Vell No.	
· · · · · · · · · · · · · · · · · · ·		Gas well		<u> </u>	Single Zone	Multi	pie Zone	Heard Com 20 1A		
2. Name of Operate			12807			م. م. دورسد		9. API Well No.	- >1	824
Koch Exploration  3a. Address	Company L	<u>LC</u>	100	2h Phone )	No. (include a	- C 1343	<u> 1 전 유</u>	3004		
	- NIM 0744	•			· .	rea coae)	A. 14	10. Field and Pool, o	•	
PO Box 489, Azteo				(505) 334	<del></del>	<i>⊒</i> 7 - <b>N</b> //A :		Basin Fruitland Co		IT A TOP
4. Location of Well	•	·	n accordance with a	iny State req	uirements (*)	inini Samun	P 2004	11. acc., 1., k., m., ( 	JI DIK. MIU SU	livey of Alea
At surface 715						OR. C		动		
At proposed proc	d. zone 715'	FSL & 985' FE	iL			France		S20, T28N, R10W	(P)	
14. Distance in miles	and direction	from nearest tow	n or post office*		Fo.	3	ាម៖ 😭	12. County or Parish		13. State
6 3/4 miles southe	ast of Bloo	mfield, NM		·	/ê	(2) <sub>0</sub>		San Juan		IM
/15. Distance from pro- location to neares	pposed*			16. No. of	Acres in leas	e 4 52 67	17. Spacin	Unit dedicated to this	well	
property or lease	line. ft.			ŀ		4.0	LUNCH THE			
(Also to nearest d			,,,,,,	640			320 E/2			
18. Distance from pro	posed location	1 <sup>‡</sup> ted		19. Propos	sed Depth		20. BLM/E	SIA Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft. NA			2231'	2231' 400 GH 0			.474			
21 Flevations (Show	whether DF		etc )		ximate date	work will st		23. Estimated durati		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6101 GL			September 15, 2003			30 days				
<u> </u>		<del></del>		<del></del>	achments			100 000		
The fellowing comple	4-4:		·			shall be see	aabad sa shi	- Ca		
The following, comple	ted in accorda	ince with the requ	uirements of Onsnot	e Oil and G	is Order No. 1,	, snaii de att	acned to this	i torm:		
1. Well plat certified t	by a registered	l surveyor.					e operations	unless covered by ar	existing bor	nd on file (see
2. A Drilling Plan.						20 above). tor certifica	ation			
<ol> <li>A Surface Use Plan (if the location is on National Forest System Lands, SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>				Lands, the	s, the 6. Such other site specific information and/or plans as may be required by the					
301 O shart to the	u with the app	nopriate Porest c	scivia Omaj.			rized office		•	•	
25. Signature	7.77	Th.		Nan	e (Printed/Ty	ped)			Date	
AM		ANK!		Johr	Clark				8/6/03	
Title (		<b>/</b>								
District Superinten	dent		<u> </u>							
Approved by		ankiewicz		Nan	ne (Printed/Ty	ped)			DatMAH	<del>- 4 2004</del>
Title				Offi	ce				·	
				O.I.I	••					

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 conduct operations thereon. 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.

\*(Instructions on reverse)

This action is subject to reuniquety. ... procedural review pursuant to 43 CFH 3165 § and appeal pursuant to 43 CFR 3165,4

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

DESTRUCT I
P.O. Box 1980, Hobbs, N.M. 68241—1960
DISTRUCT II
811 South First, Artesia, N.M. 68210

DISTRICT IV

DESTRICT III
1000 Rio Brazos Rd., Asteo, N.M. 67410

2040 South Pacheco, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

Form C-102 Revised Febuary 21, 1994 Instructions on back

Instructions on back
Submit to Appropriate District Office

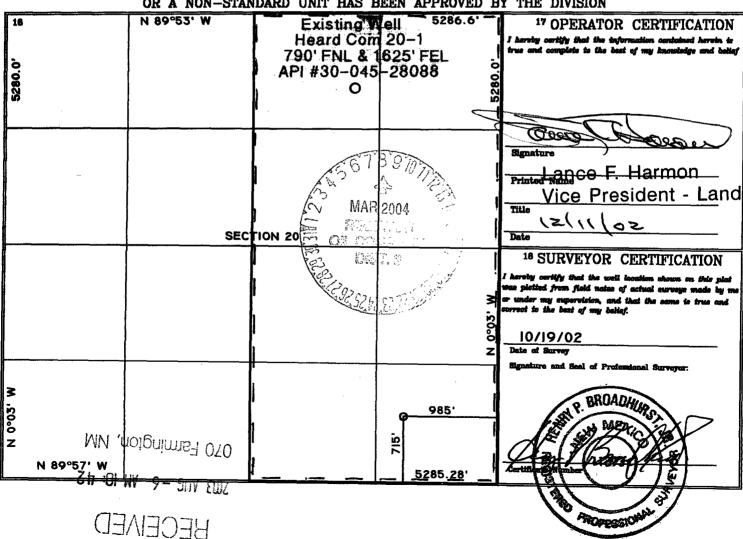
State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code \*Pool Name 30-045 Basin Fruitland Coa 71629 Vell Number Property Name Property Code **HEARD COM 20** 18434 IA Operator Name Elevation TOCKED NO KOCH EXPLORATION 6101 12807 <sup>10</sup> Surface Location

North/South line Range Lot Idn Feet from the Feet from the East/West line UL or lot no. Section Township County 985 SAN JUAN 715 SOUTH **EAST** 10 W 20 28 N 11 Bottom Hole Location If Different From Surface North/South line Lot Idn Feet from the Feet from the UL or lot no. Section East/Vest line Township Range County Dedicated Acres "Joint or Infill <sup>14</sup> Consolidation Code Sorder No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



#### Heard Com 20 #1A

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Sec. 20, T28N, R10W, 715' FSL & 985 FEL San Juan Co., New Mexico Lease SF 047039A

#### **Drilling Program**

#### 1) Geological name of surface formation -

Estimated tops of important geological markers:

San Jose	Surface
Ojo	993'
Kirtland Shale	1157'
Fruitland Coal	1719'
Pict. Cliffs	2111'
TD	2231'

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

Fresh Water	0' to 1157'
Salt Water	1158' to 1719'
Oil and Gas	1720' to 2231'

#### 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 2,000 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 +/- 3,000 psi after cementing in place and after drilling to the required depth. Anticipated frac pressure 2500# (not to exceed wellhead pressure ratings).
- 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.
- e. BOP testing procedures and frequency:
  - 1. Hydril (3,000WP) will be tested to 750 psi maximum.

#### Heard Com 20 #1A

Sec. 20, T28N, R10W, 715' FSL & 985 FEL San Juan Co., New Mexico Lease SF 047039A

- 2. Double ram BOPs will be tested to 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 LTC 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% bwoc 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.

4 ½" Production Casing – Surface to 2231' – Cement volumes will be adjusted to actual setting depths:

Lead with 191 sks Class B (12.5 ppg, slurry Yield 2.09 cf/sk) + 2% Sodium Metasillicate +.25 lb/sk Cello Flake + 3pps Gilsonite. Volume: 398.52 cf., includes 50% excess.

Tail with 60.14 sks Class B Cement (14.5 ppg, slurry Yield 1.55 cf/sk) + 4% Bentonite Gel + .25 lb/sk Cello Flake + 2% CaCl. Volume: 93.217cf. includeds 35% excess. Volumes will be adjusted to setting depth. Three (3) centralizers will be run on the bottom three joints, then every 10<sup>th</sup> 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 water treated with gel lime. 150' - 2231' -Lime mud, water and polymer.

#### 6) Testing, Logging, and Coring Program:

No drill stem tests or cores will be taken.

Logging: Open hole – Triple Combo, 2,231' to surface or cased hole log as below.

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,

Density Neutron Porosity Caliper, if open hole log was not run