APPLICATION  APPLICATION  APPLICATION  B. TYPE OF WELL  OR WELL GAS WELL GOTHER  C. NAME OF OPERATOR  KOCH Exploration Company  3. Address and telephone no.  P.O. Box 489, Aztec, NM (50)  4. LOCATION OF WELL (Report location clear Alturface 1180'  At proposed prod. zone Same  14. DISTANCE IN MILES AND DIRECTION F  Approx. 17 Miles NE of Aztec,  15. DISTANCE FROM PROPOSED* LOCATIC  NEAREST PROPERTY OR LEASE LINE, FT.,  nearest drig, unit line, if any)  18. DISTANCE FROM PROPOSED* LOCATIC  NEAREST WELL, DRILLING, COMPLETED,  APPLIED FOR ON THE LEASE, FT.  21. ELEVATIONS (Show whether DF, RT, GR,  23.  SIZE OF HOLE GRA  12 1/4"  8 3/4'  6 1/4"  See Attached  This action is procedural rev and appeal py	DEEPEN SINGLE ZONE  05) 334-9111  rly and in accordance with a FNL & 2015' FE.  FROM NEAREST TOWN O., NM ON TO (Also to 1180'  ON TO 280'  , etc.  6603' GR  ADE, SIZE OF CASING	In State requirements.*)  L  OR POST OFFICE*  16. NO. OF ACRES IN LEASE 319.08  19. PROPOSED DEPTH 6200'—	17. NO. OF ACR	R CABLE TOOLS R 22, APPROXIMATE	ITTEL OR TRIBI	NO.  1743  T  ERVEY OR AREA  13. STATE  NM
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6 1/4" See Attached This action is procedural revand appeal pu	9 5/8" J-55	36#		20' +/-		112 sacks Circ
See Attached This action is procedural revaled and appeal pu	7" J-55	23#		50' +/-		479 sacks <i>Circ</i> 203 sacks <b>386</b>
procedural revenue and appeal pu	4 1/2" J-55	10.5#	0	200' -		203 Sacks 500
IN ABOVE SPACE DESCRIBE PROPOSED PRO	OCIRAM: If proposal is to dee	epen, give data on present productive z		Oductive zone. If proposal		en directionally, give pertinen
on subsurface locations and measured ant true vertice	ical depths. Give blowout pre-	venter program, a any.				
SIGNED A		TITLE: Operations Manager		D.	ATE: 7/	
(This space for Federal or State office use)					, .	
V			APPROVAL DA	ote: 8	//3/0	0/
PERMIT NO.:			ACTROVAL DA		, ,	
Apolication approval does not warrant or certify the	at the applicant holds legal or	equitable title to those rights in the su	bject lease which would c	ntitle the applicant to cond	act operations ther	reon.
Apolication approval does not warrant or certify the CCNDITIONS OF APPROVAL, IF ANY:	er the ablument noise teller of					/ /
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NMOCO

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District II

811 South First, Artesia, SM 88210

State of New Mexico Energy, Minerala & Natural Resources Department

1 mm C 10. Revised October 18, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copie:

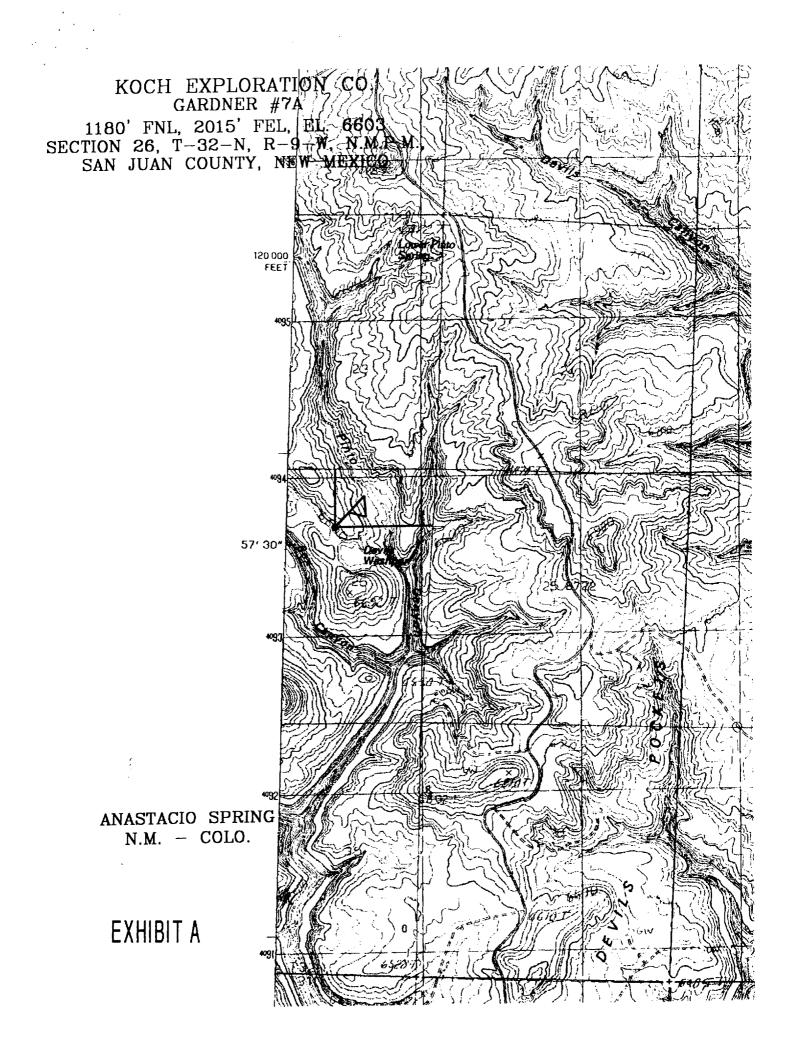
Fee Lease - 3 Copie:

# OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

District III 1000 Rio Bruzos Rd., Aziec, NM 87410 District IV

☐ AMENDED REPORT

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	30-045- 30743			<b>.</b>	1 Pool Code			Blanco Mesa Ve				<u>e</u> .	Well Number
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-	OGRID No.			Operator Name				6603'			'Elevation 3603'		
12807						KOCH EXPLORATION  Ourface Location							
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٢	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North	/South line	100		Late Was		
-	<sup>1</sup> Dedicated Ac	res '' Joint	or Infill 1"	Consolidation	Code 11 (	Order No.	<u></u>		-				
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			SECTION 26			No. of Profession State of the State	No. of Contract Addition of the Contract of th		18SURVEYOR CERTIFICATION				
			013111			بيمتا				I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by m or under my supervision, and that the same is true and correct to the best of my belief.  04/13/01			on shown on this plat uul surveys made by me
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			S88%0,M			5360.52'				AFOFE SSIO!			



Gardner #7A ==> EXPEDITED Right-of-Way!

Sec 26-T32N-R9W, 1180' FNL & 2015' FEL

San Juan Co., New Mexico

Lease NM 013642

## **Drilling Program:**

## 1. Geological name of surface formation -

Estimated tops of important geological markers:

San Jose	Surface
Nacimiento	701 feet
Ojo	1,806 feet
Kirtland Shale	2,047 feet
Fruitland Coal	3,108 feet
Picture Cliff	3,468 feet
TD	6,200 feet

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

Fresh Water 0 feet to 200 feet
Salt Water 201 feet to 3,100 feet
Oil and Gas 3,101 feet to 6,200 feet

## 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 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. Occasionally, the position of the rams is reversed depending on the drilling contractor's methods.
- 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.
- e. BOP testing procedures and frequency:
  - 1. Hydrill (3,000 WP) will be tested to 70% of yield of casing or 3,000 psi maximum.

## Gardner #7A ==> EXPEDITED Right-of-Way!

Sec 26-T32N-R9W, 1180' FNL & 2015' FEL San Juan Co., New Mexico Lease NM-013642

- 2. Double ram BOPs will be tested to 70% of yield of casing or 3,000 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	9 5/8 inch	36.0# J-55 STC	New
Intermediate Casing	7 inch	23.0# J-55 STC	New
Production Casing	4 ½ inch	10.5# J-55 STC	New

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

9-5/8 inch Surface Casing - Surface to 220 feet - Cement with 112 sx "Type III Cement" with 2%  $CaCI_2 + 0.25$  lbs/sack Celloflake (14.6 lb/gal; 1.39 cf/sk; 6.67 gal/sk) Volume: 155 scf. 100% Excess.

7 inch Intermediate Casing – Surface to 3950 feet With DV Stage Tool @ +/- 2900 feet, Stage 1: cement with 170 sacks "Type III Cement" + 0.25 lbs/sk Cello Flake + 1% CaCl<sub>2</sub>, Volume: 238 scf, (14.5# lb/gal; 1.4 cf/sk; 6.82 gal/sk) Stage 2: Lead cement of 259 sacks Premium Lite FM + 8% Bentonite +0.4% Sodium Metasilicate + 1% CaCl<sub>2</sub> Volume: 555 scf, (12.0# lb/gal; 2.15 cf/sk; 12.08 gal/sk), Tail cement of 50 sacks Type III + 1% CaCl<sub>2</sub> + 0.25 lbs/sk Cello Flake. Volume: 70 scf, (14.5# lb/gal; 1.4 cf/sk; 6.82 gal/sk).

4-½ inch Production Casing – Surface to 6500'. Cement 3700' to 6200' – Lead with 30 sacks Premium Lite High Strength FM + 3% Potassium Chloride + 0.25 lbs/sk Cello Flake + 2% Pheno Seal + 0.4% FL-52. Volume: 122 scf, (10.5# lb/gal; 4.06 cf/sk; 25.70 gal/sk). Tail with 173 sacks Premium Lite High Strength FM + 3% Potassium Chloride + 0.25 lbs/sk Cello Flake + 2% Pheno Seal + 0.4% FL-52. Volume: 401 scf, (12.0# lb/gal; 2.32 cf/sk; 12.82 gal/sk).

#### 5. Mud Program:

0 feet – 220 feet - Spud mud and water treated with gel lime.

220 feet - 3950 feet - Lime mud, water and polymer.

3950 feet - 6,200 feet - air, produced or fresh water, soap and polymer

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

No drill stem tests or cores will be taken.

Logging: Intermediate Casing - CBL Log will only be ran if cement doesn't circulate to surface.

Production Casing - First Run - Gamma Ray - Casing Collar Locator - Cement Bond Log.

Second Run - Gamma Ray - Gas Spectrum Log; or Gamma Ray-DIL, Density Neutron Porosity Caliper