District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 MAY 2004

Form C-101 March 4, 2004

Submit to appropriate District Office State Lease - 6 Copies

Fee Lease - 5 Copies

☐ AMENDED REPORT

Operator Name and Address							ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE OGRID						
Koch Exploration Company, LLC							Number 12807						
PO Box 489, Aztec, NM 87410							API Number 30 - 045 - 32360						
Property Code 18433 Property Name Aggie State 32						-	⁶ Well No. 1A						
					⁷ Su	rface Locat	ion						
UL or lot no J	Section 32	Townshi 29N	9W	Lot Id		Feet from the	North/South line South		Feet from the 1475	East/West line East		County San Juan	
.,		т	⁸ Proposed	Bottom	Hole	Location If	Diffe	rent Fr	om Surface	,			
UL or lot no.	Section	Townshi		Lot le		Feet from the	North/S	outh line	Feet from the	East/W	est line	County	
Proposed Poo	ol 1	Basin F	ruitland Coal		•		¹⁰ Proposed Pool 2						
			····	lling Pi	it Loca	tion and Ot	her In	format	ion				
UL or lot no. Section Township J 32 29N			Range Lot Idn		Feet from the 1840		South line South	Feet from the 1475	East/West line Easr		County San Juan		
Depth to	<u> </u>			Distance from nearest			 		Distance from nearest	 :		L -	
			Well Type Code G	fresh water well 13 Cabl		—>10 Rotary R	14 Lease		surface water Type Code S	200' 15 Ground Level Elevation 6242'			
N ⁶ Multiple N		17	Proposed Depth 2672'	18 Formatio					octor O Services, LLC	²⁰ Spud Date June 20, 2004			
			21	Propos		sing and Ce		٠				,	
Hole S	ize		Casing Size		weight/f		Setting D		Sacks of Ce	ment		Estimated TOC	
12 1			8 5/8"		24#		150'		105		Surface		
6 3/	4"	4 1/2"		10.5#			2672'		303		Surface		
						1							
			If this application is				the data of	on the pre	sent productive zone	and prop	osed new	productive zone.	
	-	-	ogram, if any. Use a well. Please see				owout i	nreventi	on program				
we intend	o dili a	new gas	wen. Trease see	attache		ig i iaii ioi oi	owout	proventi	on program.				
of my knowled	dge and bel	ief. I furt	on given above is tru her certify that the	drilling pi	it will <u>be</u>	1	¥	OIL C	CONSERVAT	ION I	DIVIS	ION	
constructed according to NMOCD guidelines ., a general permit \(\sqrt{a} \) or an (attached) alternative OCD-approved plan .							Approved by:						
Signature: (Am	At	$\overline{\sim}$					h		Le	1	_	
rinted name:	Don lo	hnson				Title:	BEPLIT	Y M	CAC INCOM	The state of the s			
Title: Field Operations Manager							Approval Date AY 25 200 Expiration Date AY 25 200						
-mail Addres	s: johns	o4d@ko	chind.com				-:::		- LUU4			- 0 LUL	
Date: 5/25/04 Phone:(505)334-9111					Со	Conditions of Approval:							
٠,٠	104			1			Attached						

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

State 'of New Mexico Energy, Minerals & Natural Resources Department

Revised Febuary 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

811 South First, Artesia, N.M. 88210 DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

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

OIL CONSERVATION DIVISION

AMENDED DEPORT

Form C-102

DISTRICT IV 2040 South Pacheco Santa Fe NM 87504-2088

		Ţ	WELL LO	CATIO	N AND	ΔC	REAGE DEDI	ICA	TION PI	.ДТ	AMEN	DED REPORT
21-1 APLN	Jumber Z	2360		Pool Code	<u> </u>	710	Basin Fru		³ Pool Nam	e		
Property Code 18433			Property Name AGGIE STATE 32					* Well Number				
7 OGRID No. 12807				KC	-	Name ORATION Com	·ρα	⁹ Elevation				
	•				_		Location	•	0			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from t		North/South line	l	t from the	East/We		County
J	32	29 N	9 W		1840		SOUTH	L	1475	EAS	ST	SAN JUAN
			11 Botton				f Different Fro					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from t	the	North/South line	Fee	t from the	East/We	st line	County
18 Dedicated Acres	13 Joint	or Infill 14 (Consolidation	Code 15 Or	der No.							
320												
NO ALLOWA	BLE W						ON UNTIL ALL EEN APPROVED				EEN C	ONSOLIDATED
.92.309		S 89°33'		20	Existin Aggie St 70' FNL #30-04	tat &	e 32-1 810' FEL <u>δ/ο</u>	2 0 2140.08	I hereby certify true and complete true true true true true true true t	VEYOR that the were pervision, as set of my be	F. Haresid	TIFICATION contained herein is knowledge and belief armon ent - Lan FICATION shown on this plat surveys made by me same is true and
ய . 99 91 2 N 89°56	5. W				,0781		5188.92'	N 2°34' E	Signature and	4 11/11	Protosing 5/	MET COOLING

Aggie State 32-1A

S32, T29N, R9W, 1840' FSL & 1475 FEL San Juan Co., New Mexico Lease E 6153

Drilling Program

1) Geological name of surface formation -

Estimated tops of important geological markers:

San Jose	Surface
Ojo	1463'
Kirtland Shale	1568'
Fruitland Coal	2206'
Pict. Cliffs	2552'
TD	2672'

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

Fresh Water	0' to 1568'
Salt Water	1568' to 2206'
Oil and/or Gas	2206' to 2672'

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. 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 will be used. 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 +/- 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:
 - 1. Hydril (3,000WP) will be rated at > 750 psi.

Aggie State 32-1A

S32, T29N, R9W, 1840' FSL & 1475 FEL San Juan Co., New Mexico Lease E 6153

- 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 1/4" hole 8 5/8" 24.0# J-55 STC New Production Casing 6 3/4" hole 4 1/2" 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. Circulate Cement

4 ½" Production Casing – Surface to 2672' – Cement volumes will be adjusted to actual setting depths:

Lead with 227 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: 474 cf. includes 50% excess. Tail with 76 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: 106 cf. includes 50% excess. Volumes will be adjusted to setting

Volume: 106 cf. includes 50% excess. Volumes will be adjusted to settin 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'-2672' - 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,
No Open Hole Logs are planned.

- Aggie State 32-1A S32, T29N, R9W, 1840' FSL & 1475 FEL San Juan Co., New Mexico Lease E 6153

7) Expected Pressures -

Fruitland Fm. 600 psi Bottom Hole 200 psi

No abnormal pressures, temperature or poisonous gas anticipated.

8) Drilling Tools: 2 5" Drill Collars with 3-1/2" IF Connections

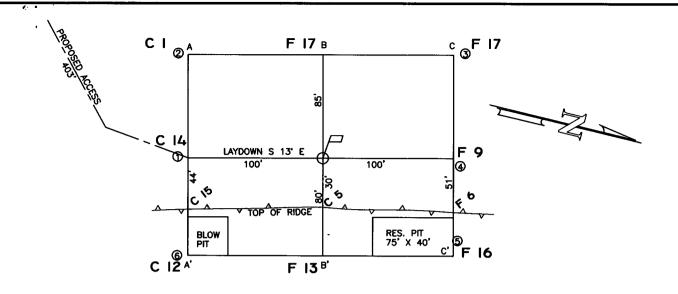
3-1/2" Drill Pipe with 3-1/2" IF Connections

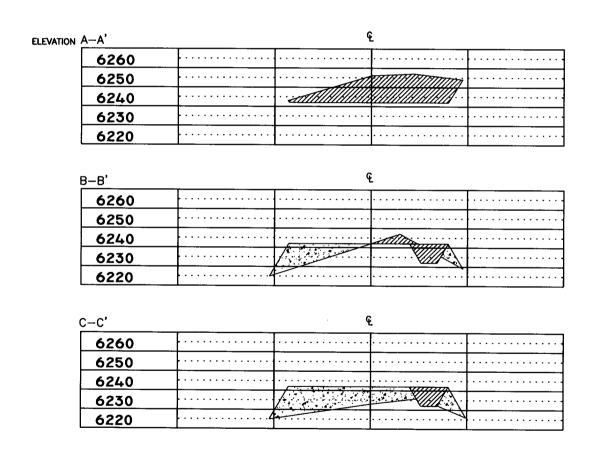
Anticipated Spud Date:

Anticipated Completion Date:

June 20, 2004

July 20, 2004





LEASE: AGGIE STATE 32 #IA	KOCH EXPLORATION					
FOOTAGE: 1840' FSL, 1475' FEL	AZTEC, NEW MEXICO					
SEC. <u>32</u> TWN. <u>29-N</u> RNG. <u>9-W</u> N.M.P.M.	SURVEYED: 3	3/30/04	REV. DATE:	APP. BY C.F.W.		
	DRAWN BY: 1	T.G.	DATE DRAWN: 3/31/04	FILE NAME: 949CF01		
LATITUDE: <u>36°40'50"</u> LONGITUDE: <u>107°48'04"</u>		()	_			
ELEVATION: 6242		UNITED = SERVICES	FARMIN	O. BOX 3651 GTON, NM 87499 (505) 334-0408		