RECEIVED

2003 FEB IF XPIFBITED ROW

Form 3160-3 (September 2001)			0 70	HARMANGTÓN, N	jè.A	OMB No.	PPROVED 1004-0136 uary 31, 2004	
		UNITED STATES		3 8 33 33 33 33 34 34 34 34 34 34 34 34 34	*:·· }	5. Lease Serial No.		
		RTMENT OF THE IN			ķ	SF-046563		
		AU OF LAND MANAC			f	6. If Indian, Allottee	or Tribe Name	
	APPLICATION F	OR PERMIT TO DR	ILL OR	REENTER		VA.		
la. Type of Work:	M DRILL	☐ REENTEI	R	47847		7. If Unit or CA Agre	ement, Name and No	0.
lb. Type of Well:	Oil Well X Ga	s Well Other	Ź	Single Zone Multip	6 > ole Zone	8. Lease Name and W Thelma Com 33		
2. Name of Opera		ation Company,	LLC	APR 200	3	9. API Well No. BO 045	31395	
3a. Address 20 F	East Greenway	PLaza	3b. Phone	No: (include area code)		10. Field and Pool, or	Exploratory	
Hous	ston, Texas 7	7046	713	-544-4318	. ON-	Basin Fruitla		
4. Location of We	Il (Report location clean	rly and in accordance with	any State rec	juirements:*)	3	1. Sec., T., R., M., or	Blk. and Survey or A	Area
At surface SE/ At proposed pro	/4, Sec. 33, od. zone (San	T28N, R10W, 89	00' FSL	& 1820' FEL	" 11000g	Sec. 33. T28	BN, R10W	
14. Distance in miles	and direction from nea	rest town or post office*		400,00	المستنشئاء	12. County or Parish	13. State	
7 mi	iles Southeas	t of Bloomfie	d. NM	·		San Juan	NM	
15. Distance from p location to neare property or lease	5. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)				17. Spacin 320	e Unit dedicated to this	well	
to nearest well, d			posed Depth 20. BLM/BIA Bond No. on file 050 1 400 GH 0471					
21 Flevations (Sho	w whether DF KDR	3400'	22 Appr	oximate date work will sta	1 400 ut*	23. Estimated duration		
•			1	available rig		30 days		
UZ_I	<u> </u>			tachments				
The following same	lated in accordance with	the requirements of Onsho			tacked to thi	. fo-m:		
 Well plat certified A Drilling Plan. A Surface Use F 	d by a registered surveyor	or. on National Forest System		4. Bond to cover to Item 20 above). 5. Operator certification	the operation	ns unless covered by an ormation and/or plans	_	
	iled with the appropriate	Forest Service Office).		authorized offic				
25. Signature	Zey DE		Na	me (Printed/Typed) Rolf A.	Ornel	\ a 5	Feb 07	03
Title SR	Engine						1	
Approved by (Signat	rure)		Na	me (Printed/Typed)			Date	
Title			O	fice			<u>'</u>	
operations thereon.	does not warrant or cerval, if any, are attached.	tify the the applicant holds	legal or equi	table title to those rights i	n the subject	lease which would entit	le the applicant to co	nduct
		I.S.C. Section 1212, make ments or representations as			nd willfully	to make to any departm	ent or agency of the	United

*(Instructions on reverse)

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

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

DISTRICT I P.O. Box 1980, Hobbs, N.M. 88241-1980 DISTRICT II 811 South First, Artesia, N.M. 88210 DISTRICT III

1000 Rio Brazos Rd., Aztec, N.M. 67410

DESTRICT IV

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
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

2040 South Pacheco, Santa Fe, NM 87504-2088

2040 South Paci	ieco, Santa	Fe, MM 870	104-2088						AMEN	DED REPORT
			WELL I	OCATIO	N AND A	ACREAGE DED	ICATION P	LAT		
30.07	Number	1395		Pool Code		Basin Fa	real Name	Coal		
Property Code Property Name Vall Number							Vell Number			
OGRID I	io.				*Opera	tor Name				* Elevation
(280)	ــــــــــــــــــــــــــــــــــــــ				KOCH EXPLORATION 10 Surface Location					6217
UL or lot no.	Section.	Township	Rango	Lot Idn	Feet from th		Feet from the	East/Ve	et line	County
0	33	28 N	10 W		890	SOUTH	1820	EA	ST	SAN JUAN
-				om Hole		If Different Fr				
UL or let no.	Section	Township	Range	Lot Idn	Feet from th	e North/South line	Feet from the	East/We	st line	County
¹⁸ Dedicated Acre	u Joint	or infill "	Consolidație	n Code =0	rder No.	1	1	<u> </u>		
NO ALLOW	ABLE W					TION UNTIL ALL BEEN APPROVEI			EEN C	ONSOLIDATED
16	1		0.49. M						R CER	TIFICATION
				Exis	ting Well					contained herein is knowledge and belief
5280.0'				The	lma Com	33 #1	9			
528				1 790) FNL & 1	190' FEI	528			
				API	#30-045	28114		F (03	
				Ti.			Signature			S80000
				li			· · · ·	nce	F. Ha	rmon_
		150		. Ji			- { Vi	ce Pr	eside	<u>ent - La</u> nd
1	2) 4 2 0)		1			Title	سررر ا	02	
/:		1 2003	SE	C 10N 33	s SF-	046563	Date			
(R	3 / √		N. 2	;						IFICATION
fig.	i ch	3	137,	- l'i			was platted fro	m field note	a of actual	surveys made by me
\ [*]		La Colonia		ı			correct to the t	est of my b	ellef.	
	1.65	12.02.61.60		1			9/20/ Data of Bury			
-			·				Signature en	d Seal of Pa		Surveyor:
>				Įŧ.		1820'	¥ /48	BROAD	KJR.S.	
M 0.02.				1	T		0.02' W	ME	2/5	$\lambda \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$
o /	STON, N	NIMPAT	040	ļI .	890.		z A			
li .	5 4. F			L		_ 5280.0'	a de la companya de l			
	11 1:3	11.831	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				130	MOVES.	- / ()*	/
(J-JAJ-	BOEL						J. C. S.	The state of the s	
		- ViV								

Form 3160-5 (June 4990)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993

5.	Lease	Designation	and	Serial	No.
F۸	4656	3			

SUNDRY NOTICES AND) KEPOR	IS ON WELLS	k -	f Indian, Allottee or Tribe Name
Do not use this form for proposals to drill or Use "APPLICATION FOR PE	17	A		
SUBMIT IN T	RIPLICA:	TE 070-Fearington, N		f Unit or CA, Agreement Designation
1. Type of Well				NA ·
Oil X Gas Well Other		APR 2003	8. 7	Well Name and No.
2. Name of Operator		SO AFTI ZO		Thelma Com 33 1A
Koch Exploration Company, LLC		E C - 551.3	9. 7	API Well No.
3. Address and Telephone No. 20 Greenway Plaza, Houston, Texas	77046	(713) 544-4318		Field and Pool, or Exploratory Area Basin Fruitland Coal
4. Location of Well (Footage, Sec., T., R., M., or Survey)	Description)	The state of the s		
S33, T28N, R10W (O)			11.	County or Parish, State
890 FSL & 1820 FEL		i		San Juan County
				New Mexico
12. CHECK APPROPRIATE BOX(s) TO	O INDICA	TE NATURE OF NOTICE	, REF	PORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF	ACTIC	N
X Notice of Intent	Ahan	donment		Change of Plans
				1
	l —	npletion	<u> </u>	New Construction
Subsequent Report	Plugg	ing Back	L	Non-Routine Fracturing
	Casin	g Repair		Water Shut-Off
Final Abandonment Notice	Alteri	ng Casing		Conversion to Injection
	X Other	Supplement to APD	_ [Dispose Water
,		:		Report results of multiple completion on Well Completion
Describe Proposed or Compelted Operations (Clearly state all pe give subsurface locations and measured and true vertical de				completion Report and Log form.) g any proposed work. If well is directionally drilled,
-	-			
Additional information to APD Dr	nling Pro	gram (aiready submitted).		
See Attached.				
		÷		
		1		
Thereby certify that the foregoing is true and correct				
Signed Roll Out	Title Senio	or Engineer Da	te	3-26-03
(This space for Federal or State office use)				
Approved by David J. Mankiewicz Conditions of approval, if any:	_ Title	:	Date	APR - 1 2003
Commission of approving a may.				·
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly	y and willfully to	make to any department or agency of the Unite	d States a	ny false, fictitious or fraudulent statements or

Koch Exploration Company, LLC Basin Fruitland Infill Well

Theima Com 33-1A

S33 - T28N - R10W

Sundry Notice APD Supplement

Casing Program:

	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#	2,300'

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	1,219'
Kirtland Shale	1,321'
Fruitland Coal	1,957'
Pictured Cliff	2,169'
TD	2 300'

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 1,321'

Salt Water

1,321' to 1,957'

Oil and Gas

1,957' to 2,300'

THELMA COM 33 - 1A

Sec. 33-T28N-R10W, 890' FSL & 1820' FEL

San Juan Co., New Mexico

Lease SF 046563

Drilling Program

1) Geological name of surface formation -

Estimated tops of important geological markers:

San Jose	Surface
Ojo	928'
Kirtland Shale	1030'
Fruitland Coal	1666'
Pict. Cliffs	1902'
TD	2050'

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

Fresh Water	0' to 200'
Salt Water	201' to 1666'
Oil and Gas	1666' to 2050'

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.

THELMA COM 33 – 1A

Sec. 33-T28N-R10W, 890' FSL & 1820' FEL

San Juan Co., New Mexico

Lease SF 046563

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 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	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 2050' –
Lead with 248 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: 532.6 cf., includes 50% excess.
Tail with 103 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: 157.4 cf., includes 50% excess

5) Mud Program:

0' - 150' -Spud mud and water treated with gel lime. 150' - 2050' -Lime mud, water and polymer.

THELMA COM 33 – 1A

Sec. 33-T28N-R10W, 890' FSL & 1820' FEL

San Juan Co., New Mexico

Lease SF 046563

6) Testing, Logging, and Coring Program:

No drill stem tests or cores will be taken.

Logging: Open hole – Triple Combo, 2,050' 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 ran.

7) Expected Pressures -

Fruitland Fm. Underpressured

Bottom Hole Underpressured and low frac gradient

No abnormal pressures, temperature or poisonous gas anticipated.

8) Drilling Tools: 20 4-3/4" Drill Collars with 3-1/2" IF Connections

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

Anticipated Spud Date: July 1, 2003

Anticipated Completion Date: July 31, 2003