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 Energy Minerals and Natural Resources

Form C-101 June 16, 2008

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to appropriate District Office

■ AMENDED REPORT

AP	PLICA	TION I	OR PERM	IT TO	DRI	LL, RI	E-ENT	ΓER,	DEEPI	EN, PLU	GBA	CK, O	R A	DD A ZONE
		Koch	Operator Name Exploration Box 489, Az	and Addre Compa	ess inv. I	LC		_	OGRID Number 12807					
]		PO I	30x 489, Az	tec, NV	1 874	10				30 - 0	45 - ³	³ API Nur		
Property Code Property 18433 Aggie Sta						Name ate 32 30 - 045 - 350 Nell No 1B								
<u> </u>	<u>"</u>		9 Proposed Pool 1 71629	1177						10	Propos	sed Pool 2		<u> </u>
	_		/1029			7 Surfac	re I oc	ation						
UL or lot no	UL or lot no Section Township Range Lot		Lot I		Feet fro		North/South line Feet from the		e	East/West line County		County		
B	32	29N	09W	<u> </u>		10'		No		1916		East		San Juan
	T = 1					T				n Surface				
UL or lot no	Section	Township	Range	Lot I	Idn	Feet fro	om the	North/S	outh line	Feet from the	•	East/West l	line	County
					Addi	tional V		nforma						
	Type Code N		12 Well Type Co	de			:/Rotary	,	, 14	Lease Type Coo	ie	Ground Level Elevation 6009		
16 N	1ultiple	_	17 Proposed Dep	oth		18 For	nation			19 Contractor		²⁰ Spud Date		
L	<u>N</u>		2540'		Bas	<u>sin Frui</u>	tland (Coal				l	09/	/15/2009
		•		²¹ Prop	osed	Casing	g and (Cemer	nt Progi	ram	,			
Hole S	Size	Ca	sing Size	Casing	g weigh	ıt/foot	S	Setting Depth Sacks of Cement Estima			Estimated TOC			
12 ½			3.5/8"	24.0#			160'		112			Surface		
$-6^{3/4}$,,	_	4 1/2"	10.5#			2540'		303			Surface		
						· 						-+		
			If this application ogram, if any Us					e the data	a on the pr	esent product	ive zon	ne and prop	osed n	ew productive zone
	•	•					•	n Ordi	or No. 1	D 12122	Dla	000 000	attaa	had Drilling
Program	for Blov	wout Pr	evention Pro	s approv ogram.	vea u	nder D	IVISIO	n Orac	er No. 1	K-13132.	Pie	ase see RC	anac UDS	hed Drilling EP 21 '09
												1100		MS. OTT.
²³ I hereby ce	rtify that the	formati	on given above is	true and co	mplete	to the			-	<u> </u>		<u> </u>		ST 3
best of my kr	nowledge an	d peljef			mpiece	to the	OIL CONSERVATION DIVISION							
Signature						Approved by								
Printed name					Title									
John Clark					DEPUTY ON & GAS INSPECTOR, DIST. &					NAT				
Title				Approval Date SEP 2 4 2009 Expiration Date SEP 2-4. 2011			2014							
District Superintendent											OCT	~ <u>4</u> .	rail to	
E-mail Addre		3i@ko	chind.com											
Data	, n	<u>⊃յωκοι</u> Α Λ					Condit	ione of A	nnrovel A4	tached				
Date Phone (505) 334-9111					Condit	ions of A	.ppiovai At	tached				1		

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240 DISTRICT II 1301 W. Grand Avenue, Artesia, N.M. 88210 DISTRICT III

State of New Mexico Energy, Minerals & Natural Resources Department

State Lease - 4 Copies

Revised October 12, 2005 Submit to Appropriate District Office

Form C-102

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

DISTRIC 1000 Ri		Rd., Aztec	ec, N.M. 87410 1220 South St. Francis Dr. Santa Fe, N.M. 87505						F	ee Lea	ase - 3 Copies		
DISTRIC 1220 S.		cis Dr., Sa	nta Fe, N.M. 8	7505			,				П	AMEN	DED REPORT
	WELL LOCATION AND ACREAGE DEDICATION PLAT												
3	1 API 0 - 04	Number	~~~\ <u>~</u>		Pool Code					³ Pool Nam	e		
4 P.	roperty C	ode	<u> </u>		1100	⁶ Pro	perty l	Name	J114	FRUITLAND COAL Well Number			
	1843 70GRID N						STA erator	ATE 32 Name					* Elevation
	1280	7			ŀ	_		ORATION		<u></u>			6090
UL or	lot no.	Section	Township	Range	Lot Idn	10 Surf		Location North/South line	Fe	et from the	East/We:	st line	County
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				11 Botto	m Hole	Locati	on If	Different Fr	om	Surface			
UL or	lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Fe	et from the	East/We:	st line	County
12 Dedic	ated Acre	S 18 3	 Joint or Infill	¹⁴ Consolid	lation Code	15 Order N	o. & ~	-13132	l Ìn	Gill pile	at-		
NO	ALLOW	ABLE W				S COMPI	LETIO	N UNTIL ALL	INI	ERESTS H	IAVE BI	EEN C	ONSOLIDATED
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<u>.</u>						073.			. 59	and that this of	rganization	either own	knowledge and belief, us a working interest and including the
2551.81	*					9			257		hole location	m or has	a right to drill this
2										owner of such o	nineral or ug agreemen	r working t or a con	interest, or to a npulsory pooling order
					N.	AD 83	19	916'	Ш	heretofore enter	ed by the di	ivision.	3
ш					6.68656 07.80237				2.11.	Han	Il f.	the	7/8/09
6.21					1				2°32	Signature			Date
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Z				0507	 	•	AGĠII 	E STATE 32 #I					
				SECI	10N 32					18 SUR	VEYOR	CERT	TIFICATION
<u>2</u>									8	I hereby certify	that the we	ll location	ı shown on this plat
2552.88' (R)			C			AGGI	E ST	ATE 32 #IA	<u> </u>	or under my su	pervision, a	nd that th	l surveys made by me se same is true and
52.8			*	,					0.04	correct to the be			
25									257	6/17/0 Date of Surve	- 1	RSHAL	
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N 1°56'			LOCATION	1	1				2°34	,_ -		OFESS	38/-
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_ N	1 89°5 <u>6</u>	' W						5188.92' (R)		ceramente Mu	mnet.		

'Aggie State 32 1B

Surface: S32 T29N R09W, 1073' FNL & 1916' FEL

San Juan Co., New Mexico

Lease #E-6513

Drilling Program

1) Geological name of surface formation -

Estimated tops of important geological markers:

San Jose	Surface
Ojo	1345'
Kirtland Shale	1450'
Fruitland Coal	2090'
Pictured Cliffs	2440'
TD	2540'

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

Useable Water	0' to 1450'
Salt Water	1450' to 2090'
Oil and Gas	2090' to 2540'

3) Pressure Control Equipment:

- a. 10-inch 900 series or 2,000 psi test double gate hydraulic with 4-1/2" pipe rams 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 600 psi maximum. The production casinghead pressure rating will be 5,000 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 1,500 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 600 psi maximum for 30 minutes, after cementing in place and before drilling out of shoe. Production casing will be tested to 3,800 psi for 30 minutes, after drilling to the required depth, and after cementing in place.
- d. The BOPS are hydraulic controlled.
- e. BOP testing procedures and frequency:
 - BOP tests will be performed using an appropriately sized test plug. The test will be performed and recorded using a test pump, calibrated test gauges, and a properly calibrated strip or chart recorder. The test will be recorded in the driller's log and will include a low pressure test of 250 psi held for five minutes and a high pressure test of 2,000 psi for ten minutes as described in Onshore Order No. 2.
- 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.

'Aggie State 32 1B

Surface: S32 T29N R09W, 1073' FNL & 1916' FEL

San Juan Co., New Mexico

Lease #E-6513

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:	Hole Size				<u>Depth</u>
Surface Casing	12 1/4"	8 5/8"	24.0#	J-55 STC	New @ 160'
Production Casing	6 3/4"	4 1/2"	10.5#	J-55 LTC	New @ 2540'

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

8 5/8" Surface Casing – Surface to 160' – Cement with 112 sks Class B (15.60 ppg, yield 1.18 cf/sk) Cement + 3% Calcium Chloride + 1/4 lbs/sk. Celloflake, volume: 132.16 cf., includes 100% excess or equivalent cement dependent on availability. Centralizers will be run on bottom 3 joints starting at the shoe joint.

4 1/2" Production Liner – Surface to 2540' - Lead cement with 250 sks. Premium Lite FM + 3% Calcium Chloride + ¼ lb/sk Cello Flake + 5 lb/sk LCM-1 + 8% Bentonite (wt. 12.1 ppg, yield 2.12) volume: 530.0 cf., includes 50% excess. Tail with 53 sks. Type III cement + ¼ lb/sk Cello Flake + 3 lb sk LCM-1 (wt 14.6 ppg, yield 1.37) volume: 72.61 cf., includes no excess or equivalent cement dependent on availability. Centralizers will be run 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.

5) Mud Program:

Mud will be used as designed by Mud Company engineer during drilling process. See attached mud program (**Exhibit E**).

6) Testing, Logging, and Coring Program:

No drill stem tests, cores, will be taken, a CBL log will be run if cement does not circulate to surface on intermediate casing, and an Open hole log will be run before running casing.

7) Expected Pressures –

Fruitland Fm. 200 psi Bottom Hole 200 psi

No abnormal pressures, temperature or poisonous gas anticipated.

8) Drilling Tools: 2 - 5 3/4" Drill Collars with 3-1/2" IF Connections

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

Or Contractor Specific

Anticipated Spud Date: November 15, 2009 **Anticipated Completion Date:** December 15, 2009

Aggie State 32 1B

Surface: S32 T29N R09W, 1073' FNL & 1916' FEL

San Juan Co., New Mexico

Lease #E-6513

Mud Program:

<u>Interval</u>	Type	<u>Weight</u>	Vis. Fluid Loss
0'- 160'	Spud Mud/Water treated with gel lime	8.4-9.0	40-50 no control
160'- 2540'	Lime mud/Water/Polymer.	8.4-9.0	30-60 no control

Circulating media will be contractor dependent.

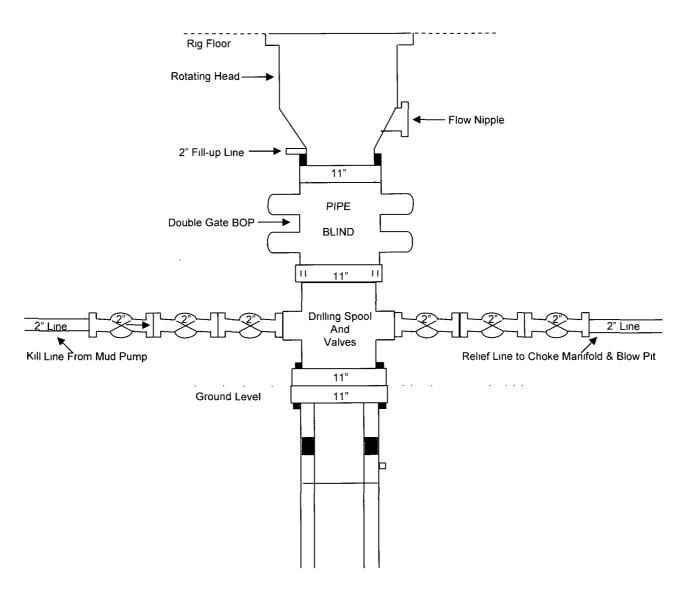
Alternate Mud Program:

<u>Interval</u>	Type	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
0'- 160'	Spud Mud/Water treated w/ gel lime/Air/Air Mist	8.4-9.0	40-50	no control
160'- 2540'	LSND/Clear Water	8.4-9.0	30-60	no control

Circulating media will be contractor dependent.

Pit levels will be visually monitored to detect gain or loss of fluid control.

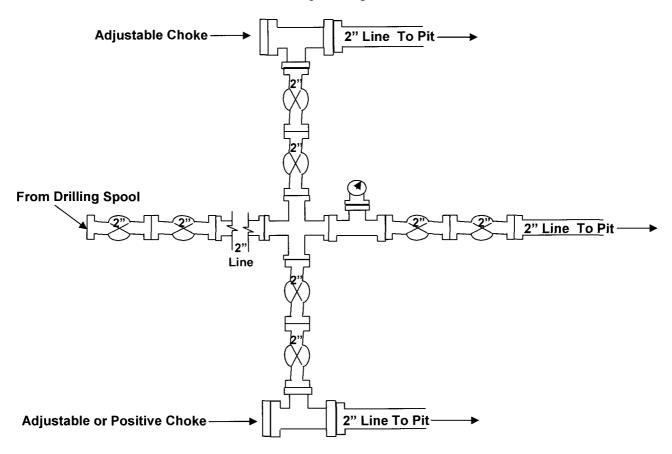
DRILLING RIG 2000 psi System



11" Bore (10" Nominal). 2000 psi working pressure minimum double Gate BPO to be equipped with blind and pipe rams. A rotating head On the top of the roms. All BOP equipment is 2000 psi working pressure.

NOTE: A floor safety valve and upper kelly cock with handle will be available.

Drilling Rig Choke Manifold Configuration 2000 psi System



2000 psi working pressure equipment with two chokes.