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				ND MANAGE					5			D SERIAL NO.	-
	APPLICA			RMIT TO D			PEN		[.] .		268967-/		Δ
1a. TYPE OF WORK				-					5 .			TRIBE NAME	
	Drill			Deepen			XF	Re-Enter	-				
	Gas Well	x	Other			Single Zone	x	Multiple Zone	7.	UNIT AGREE	MENT NAME		
2. NAME OF OPERATO	OR			·····						FARM OR LE			
				liams Energ	gy Gr	roup, Inc.			0.		eral 22 N		
3. ADDRESS AND TEL	EPHONE NO.			J. Parker					9.	API WELL NO	D.		-
			O Box 123	3 88211-01:	^ 2	ENE 740 0	445	30-005-20					
4. LOCATION OF WEL	L (Report ocat						415		10	FIELD AND	POOL, OR W Wildcat	ILDCAT	
At surface				-		, ,			11	SEC., T. R.,			
				980' FWL,	Unit	J				ID SURVEY O	R AREA		
At proposed prod. zone		Sect	ion 22, T1	13S, R30E						Sec. 2	2, T13S,	R30E	
14. DISTANCE IN MILE	ES AND DIREC								12	COUNTY OF	PARISH	13. STATE	
15 DISTANCE FORM	00000000	23 E	of Hager	man, NM th						Chaves (County	NM	
15. DISTANCE FROM I LOCATION TO NEARES				660'		16. NO. OF AC	RESIN	LEASE	17. NO. TO THIS	OF ACRES AS	SSIGNED		
PROPERTY OR LEASE							-320	- 880		40	320		
(Also to nearest drlg. unit 18. DISTANCE FROM F		OCATION	N*			19. PROPOSE			20 00-	ABY OD OL			
TO NEAREST WELL, D	RILLING, CON	MPLETED				U. I NOFUSE			20. ROT	ARY OR CAB	LE FOOLS		
OR APPLIED FOR, ON	THIS LEASE,	FT.					995	0'		Rotar	y		
21 ELEVATIONS (Show	w whether DF,	RT. GR.	etc.)						22. APP	ROX. DATE W	ORK WILL S	TART.	
				3937' GR						ine 1, 199			
23.				OPOSED CAS			NTING	PROGRAM					
SIZE OF HOLE	GRADE, S			WEIGI		R FOOT		ETTING DEPT			TITY OF CE		
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Title 18 U.S.C. Section 1001 makes 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.

DISTRICT I P.O. Ber 1980, Sobbe, NK 88241-1980

DISTRICT II P.O. DENNET DO, Artenia, NE 08211-0718

DISTRICT III 1000 Ris Brazon Rd., Aztec, NM 87410

DISTRICT IV P.0. BOE 2008. SANTA FE, N.M. 87504-2088 Energy, Minerals and Natural Resources Departs

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088 "Santa Fe, New Mexico 87504-2088

C AMENDED REPORT

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WELL LOCATION AND ACREAGE DE						ON PLAT					
30-005-20	1	Pool Code		Wildca-	Pool Name						
Property Code 21037				Property Nam FEDERAL 22	2						
002685		BOYD &		Operator Nam LIAMS ENER(Gy group, in	C.	Elevau 389(1			
				Surface Loca	ition						
UL or lot No. Section K 22	Township	Range 30 E	Lot idn	Feet from the	North/South line	Feet from the	East/West line WEST	County			
				-22101980	······	401 5480	44531	CHAVES			
UL or lot No. Section	Township	Range	Hole Loo	Feet from the	rent From Sur	Feet from the					
K 22	135	3De		2210	5	1675	re)	Chaves			
Dedicated Acres Joint	or Infill Co	nsolidation	Code Or	der No.			<u> </u>				
320 W/2				DD-1							
NO ALLOWABLE					NTIL ALL INTER		EEN CONSOLID	ATED			
					<u> </u>	OPERATO	OR CERTIFICA	TION			
						11	y certify the the in In is true and comp	- 11			
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DRILLING PROGRAM

Boyd & McWilliams Energy Group, Inc. Federal "22" No. 1 1980' FSL & 1980' FWL, Unit K Section 22, T13S, R30E Chaves County, New Mexico

In connection with Form 3160-3, Application for Permit to Drill subject well, Boyd & McWilliams Energy Group, Inc. submits the following items of pertinent information in accordance with BLM requirements:

- 1. <u>Geologic Name of Surface Formation</u>: Permian
- 2. Estimated Tops of Important Geologic Markers and

<u>Formation</u> Yates	<u>Depth</u> 1420'
Queen	2142'
San Andres	2762'
Glorietta	4165'
Abo	6425'
Wolfcamp	7615'
Strawn	8980'
Atoka	9490' 9 7 09'
Morrow	9798'

3. Estimated Depths of Fresh Water, Oil and Gas:

 Water:
 +-250' (already cased off)

 Oil or Gas:
 9340' & 9490'

No other formations are expected to give up oil, gas or fresh water in measurable quantities. The surface fresh water sands are already cased off. $4 \frac{1}{2^{n}}$ production casing will be set at TD. No abnormal pressures are anticipated.

4. Casing and Cement Program

5:10

	Casi	ng								
<u>Hole Size</u>	<u>From</u>	<u>To</u>	<u>Casing OD</u>	Weight, Grade, Coupling, Cond.						
15"	0'	400'	12 3/4"	34#						
11"	0'	2027'	8 5/8"	24# J-55 LTC						
7 7/8"	0'	TD	4 1/2"							
			52	15.5 + k - 55 + 7 + 7 + N'-80 Pure 10 Tanging 17						
Minimum De	Minimum Design Factors: Colleges 1 125 Duret 1.0. Tanging 1.7									

Minimum Design Factors: Collapse 1.125, Burst 1.0, Tension 1.7.

13 3/8" Surface Casing Set at 400' - in place - 500 sx circulated

8 5/8" Intermediate Casing Set at 2027' - in place - 350 sx

4 1/2" Production Casing Set at TD - Cement with 1500 sx Class C cmt

5. <u>Minimum Specifications for Pressure Control:</u>

BOP will be installed on the 8 5/8" casing and rated for 3M BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout Preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and oeprated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit "B".

6. <u>Proposed Mud System:</u>

The well will be drilled to TD with a combination of fresh water and 10# brine. The applicable depths and properties of this system are as follows:

Weight ViscosityWater LossDepthType(ppg)(sec)ccSufficient mud weight for each zone as this is a re-entry.

Sufficient mud material(s) to maintain mud proeprties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Mud will be checked hourly by rig personnel.

7 Logging, Testing and Coring Programs.

Samples:N/ALogging:Cased hole GR-CNL over zones of interest. GR-CBL over sameCoring:N/ADST's:N/AFurther testing procedures will be determined after the $\frac{4-1/2}{2}$ production casing has beencemented at TD.5/2

8. <u>Abnormal Conditions, Pressures, Temperatures and Potential Hazards:</u>

No abnormal pressures, temperatures, or other potential hazards are anticipated.

No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported, or are known to exist at this depth in this area. No major lost circulation zones have been reported in offsetting wells.

The maximum anticipated bottom hole pressure is approximately 4407 psi. $(9950' \times .46 \text{ psi/ft} = 4577 \text{ psi})$ The maximum anticipated bottom hole temperature is 138 degrees F.

9. Anticipated Starting Date and Duration of Operations:

Plans are to re-enter this well as soon as possible after receiving approval. Once commenced, the drilling operation should be complete in 15 days. If the well is productive, an additional 30 days will be required for completion, testing, and installation of permanent facilities.



