Form 3160-3 (December 1990)			<u></u>		SUBMIT IN TRIPLICATE*		Form approved.
			UNITED STATES				Budget Bureau No. 1004-0136
			MENT OF THE INTER		P.O. BOX 1980	LOWN	ISSION: December 31, 1991
					HOBBS. NEW ME	Maa	5. LEASE DESIGNATION AND SERIAL NO.
		BUF	REAU OF LAND MANAGE	IVIENI		XICO	88240 NM-24161
·	APPLICA	<b>TION FOR</b>	PERMIT TO DRILL O	R DEEPE	N		O. II INDIAN, ALLOTT LE OR TRIBE NAME
1a. TYPE OF WORK							N/A
	DRILL	Х	DEEPEN				7. UNIT AGREEMENT NAME
	-						N/A
	WELL		OTHER	SINGLÉ ZONE	XXX MULTIPLE ZONE		8. FARM OR LEASE NAME, WELL NO.
2. NAME OF OPERATO				· · · · · · · · · · · · · · · · · · ·			KEEL "A" FEDERAL #4
CHEVRON U.S.A.		J. K. Ripley	·····	·			9. API WELL NO.
3. ADDRESS AND TELE P. O. BOX 1150,			F 007 7000				
			5-687-7826 ce with any State requirements.*)		······		10. FIELD AND POOL OR WHOCAT
	80' FSL & 80		UNIT I			-	LUSK SAN ANDRES
							11. SEC., T., R., M., OR BLK AND SURVEY OR AREA
At proposed prod. zone							SEC. 33, T185, R32E
14. DISTANCE IN MILES	SAND DIRECTION	FROM NEAREST T	OWN OR POST OFFICE*				12. COUNTY OR PARRISH 13. STATE
15 miles South of IS DISTANCE FROM P		NM					LEA NM
LOCATION TO NEARES				16. NO. OF AC	RES IN LEASE		OF ACRES ASSIGNED
PROPERTY OR LEASE					_	тот	HISWELL
Also to nearest drig. unit 18. DISTANCE FROM PI		660'			160		40
TO NEAREST WELL, DR				19. PROPOSE	DEPTH	20. RO1	TARY OR CABLE TOOLS
OR APPLIED FOR, ON T	HIS LEASE, FT.		660'	60	00'		ROTARY
21. ELEVATIONS (Show	whether DF, RT, G	R, ect.)		L			
	3688'	,					22. APPROX. DATE WORK WILL START*
.3.							06/1/96 ****
SIZE OF HOLE	GRADE, SIZE	OF CASING	PROPOSED CASING	AND CEMENT			
12-1/4"	8-5/8"	CASING	WEIGHT PER FOOT		SETTING DEPTH		QUANTITY OF CEMENT
7-7/8"	5-1/2"		15.5		1400' 6000'		SURFACE
	· · · · · · · · · · · · · · · · · · ·						CIRCULATED
ABOVE SPACE DESCR	* PLEASE EX	PER FEDERAL TS. PEDITE ******	CENER	IVAL SUBJ VAL SUBJ VAL REQU AL STIPU	TO ONSHORE OIL AND GAS LECT TU IREMENTS AND LATIONS	REGULA	LBORE AND BE TYOUS ARE INFD AND ARE INFD AND ARE INFD AND ARE INFD AND ARE INFD AND ARE INFD AND ARE INFO
	1/ //	Surface locadoris and	u measured and true ventical depths. Give b	lowout preventer	program, if any.		
GNED	K. K	pleit	TITLE	TECHNIC	AL ASSISTANT		DATE 05/20/96
(This space for Federal	or State office use						00/20/30
PERMIT NO					ATE		
Application approval doe	s not warrant or ce	tify that the applicant	holds legal or equitable title to those rights in	the subject lease	which would entitle the applicant to conc	luct operatio	ons thereon.
IS	OVAL, IF ANT	/ J. BURK		1			
APPROVED BY			TITLE	I	Area Manager		JUN 2 4 1995
tie 18 U.S.C. Sect	tion 1001 m=	kes it a crime f	*See Instructio			-	
nited States any fa	alse, fictitious	or fraudulent st	or any person knowingly and w atements or representations as	to any mai	ke to any department or ager	icy of the	2
	•			OPE	A. OGAID NO. 4	223	<u>&gt;</u>
				PRC	PERTY NO	733	
				POC			
				EFF	. DATE	6	
				API	NO. 30-025-3	1349	2

D.

DISTRICT I

P.O. Box 1950, Hobbs, NM 85241-1950

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT II P.O. Drawer DD, Artonia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Axtec, NM 87410

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

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

□ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

30-02	Number 25-35	499		Pool Code	Wil	dent-lusk sa	Pool Name AN ANDRES		
Property Code 18133			Property Name KEEL <b>X</b> FEDERAL			Well Number 4			
OGRID No. 4323				operator Name CHEVRON U.S.A. INC.				Elevation 3688	
					Surface Loc	ation			
UL or lot No.	Section 33	Township 18 S	Range 32 E	Lot Idn	Feet from the 1980	North/South line SOUTH	Feet from the	East/West line EAST	County LEA
	·		Bottom	Hole Loo	cation If Diffe	erent From Sur	face	<u>.</u>	L
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
40 NO ALLO		ILL BE A	SSIGNED	TO THIS	ler No. COMPLETION U	NTIL ALL INTER	ESTS HAVE BI	EEN CONSOLIDA	TED
					IT HAS BEEN	APPROVED BY 1	THE DIVISION		
								R CERTIFICAT	ormation

3689.9'

3688.3'

980'

3691.6'

<∔-800'-

3686.2'

Signatur J. K. RIPLEY Printed Name

T.A.

Title 5/20/96 .

Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief.

MAY	2, 1996
Date Surveyed Signature & Stat Posteriorial Surve	
1202	01/10 5-13-96 6-10 € 0527
Cettilizate No.	JOUN

#### DRILLING PROGRAM

Attached to Form 3160-3 Chevron U.S.A. Inc. Keel "A" Federal #4 1980' FSL & 800' FEL Section 33, T18S, R32E Lea County, New Mexico

## 1. <u>Geological Name of Surface Formation:</u>

Aeolian

# 2. Estimated Tops Of Important Geological Markers:

Yates	3160'
Seven Rivers	3670'
San Andres	4910'
TD	6000'

### 3. <u>Protection of Zones:</u>

The fresh water sands will be protected by setting 8 5/8" casing at 1400' and circulating cement to surface. The oil and gas zones will be protected with 5 1/2" casing to total depth and circulating cement to surface.

#### 4. <u>Casing Program</u>:

<u>Hole Size</u>	Interval	<u>Csg OD</u>	<u>Weight, Grade, Type</u>
12 1/4"	0-800'	8 5/8"	23#, WC-50, ST&C
7 7/8"	0-6000'	5 1/2"	15.5#, K-55, LT&C

Cement Program:

8 5/8" Surface Casing:	Cemented to surface using Class "C"
(12 1/4" open hole)	+ 4% Gel + additives, followed by Class
	"C" neat.

5 1/2" Production Casing (7 7/8" open hole)

Cemented to surface using Class "C" + 16% Gel + Additives, followed by Class "C" neat.

The above cement slurries will be designed using caliper logs to circulate cement to surface.

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

The blowout preventor equipment (BOP) shown in attachment will consist of a (2M system) double ram type (2000 psi WP) preventor. The unit will be hydraulically operated and equipped with blind and pipe type rams. BOP's will will be installed on the 8 5/8" surface casing and will be utilized continuously until total depth is reach and production casing is in place and cemented. All BOP's and associated equipment will be tested before drilling out 8 5/8" casing shoe.

Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These function tests will be documented on the daily drillers log. A 2" kill line and 2" choke line will be incorporated in the drilling spool below the ram-type BOP. Other BOP equipment will include a kelly cock, floor safety valve, choke lines and choke manifold having 2000 psi WP rating.

## 6. <u>Types and Characteristics of Proposed Mud System:</u>

The well will be drilled to a total depth using fresh water, brine and polymer mud systems.

DEPTH	TYPE	<u>WEIGHT</u>	VISCOSITY	WATER LOSS
0'-800'	Fresh Water	8.8	34-36	No control
800'-6000'	Brine Water	10.0	28	No Control

- 7. A. A kelly cock will be in the drill string at all times.
  - B. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
  - C. No H2S will be encountered in this well.

## 8. Logging, Testing and Coring Program:

- A. Drill stem test will be based on geological sample shows (none planned).
- B. The open hole logging program will be:

Comp. Neutron / Spectral Lithodensity/ GR/ CAL/ DLL/ MSFL/ BHC SONIC

C. No coring is planned.

### 9. Abnormal Pressures, Temperature and Potential Hazards:

No abnormal pressures or temperatures are foreseen. The anticipated bottom hole temperature at total depth is 100 degrees and maximum bottom hole pressure is 2300 psig. No hydrogen sulfide gas has been reported or is known to exist at these depths in this area. No major loss circulation intervals have been encountered in adjacent wells.

### 10. Anticipated Starting Date and Duration of Operations:

Road and location preparation will not be undertaken until approval has been received from the BLM. The anticipated spud date is approximately June 1, 1996. The drilling operations should require approximately 12 days. If the well is deemed productive, completion operations will require, at minimum, an additional 30 days of testing to ascertain whether permanent production facilities will be constructed.

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#### E FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- All preventers to be hydraulically operated with secondary manual controls installed prior to drilling out from under casing.
- Choke outlet to be a minimum of 4" diameter.
- Kill line to be of all steel construction of 2" minimum diameter.
- All connections from operating manifolds to preventers to be all steel. hole or tube a minimum of one inch in diameter.
- The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate the B.O.P.'s.
- All connections to and from preventer to have a pressure rating equivalent to that of the B.O.P.'s.
- Inside blowout preventer to be available on rig floor.
- Operating controls located a safe distance from the rig floor
- Nole must be kept filled on trips below intermediate casing. Operator not responsible for blowouts resulting from not keeping hole full.
- . D. P. float must be installed and used below zone of first gas intrusion.