Form 3160
(December 1990)

N.M. OIL CONS TMISSION UNITED STATES P.O. BOX 1980

Form approved Budget Bureau No. 1004-0136

Expires: December 31, 1991

FANTIMENT OF THE INTERIOR	17th/11
BUREAU OF LAND MANAGEMENT	

		TMENT OF THE INTE REAU OF LAND MANAGE	RIOR ⁷⁸⁸³ , NEW MEXICO EMENT	J 88240	5. LEASE DESIGNATION AND S 1 M - 266 6. IF INDIAN, ALLOTTEE OR TR	90 R
	APPLICATION FOR	R PERMIT TO DRILL O	R DEEPEN		CAR AND AND ALLO THEE OR TH	
1a. TYPE OF WORK					N/A	
		DEEPEN			7. UNIT AGREEMENT NAME	
b. TYPE OF WELL					N/A	
OIL XXX WELL	X GAS WELL	OTHER			8. FARM OR LEASE NAME, WELL NO	
2. NAME OF OPERATO					PATTERSON FEDERAL	33 #1
CHEVRON U.S.A	. INC. ATTN: J. K. Ripley				9 API WELL NO	
3. ADDRESS AND TEL	EPHONE NO.			·		
P. O. BOX 1150,	MIDLAND, TX 79702 9	15-687-7826			10. FIELD AND POOL. OR WILD	
	L (Report location clearly and in accorda	ince with any State requirements.*)			LUSK SAN ANDRES	
At surface 19	980' FSL & 660' FWL				11. SEC., T., R., M., OR BLK	
At proposed prod. zone		Unit L			AND SURVEY OR AREA	
	SAND DIRECTION FROM NEAREST				SEC. 33, T18S, R32E	
15 miles South of		TOWN OR POST OFFICE			12. COUNTY OR PARRISH	13. STATE
15. DISTANCE FROM F			16 NO OF ACRES IN LEASE		LEA	NM
LOCATION TO NEARE PROPERTY OR LEASE					OF ACRES ASSIGNED	
(Also to nearest drig, uni		660'	280		4	0
	PROPOSED LOCATION*		19 PROPOSED DEPTH	20. RO	TARY OR CABLE TOOLS	<u> </u>
OR APPLIED FOR, ON		1320'	6000'		ROTARY	
	whether DF, RT, GR, ect.)			A	22. APPROX. DATE WORK WILL	L START
3684' GR					03/30/96	
SIZE OF HOLE	GRADE. SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT	
12-1/4"	8-5/8"	23	800'		SURFACE	
7-7/8"	5-1/2"	15.5	6000'		CIRCULATED	
						······

CHEVRON USA PROPOSES TO DRILL TO APPROXIMATELY 6000". IF WELL IS DEEMED TO BE NON-COMMERCIAL, THE WELLBORE WILL BE PLUGGED AND ABANDONED AS PER FEDERAL REGULATIONS. PROGRAMS TO ADHERE TO ONSHORE OIL AND GAS REGULATIONS ARE OUTLINED IN THE ATTACHMENTS.

Approact Sabject to Control Regultoments a	OPER. OGRID NO. 4323 PROPERTY NO. 18894		
ELEMANTER AT ALCALON DETENDED Special Supplications Attached IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, g deepen directionally, give pertinent data on subsurface locations and measured and the	EFF. DATE 5396	is to drift or	
24 SIGNED		DATE	03/18/96
V PERMIT NO Application approval does not warrant or certify that the applicant holds legal or equ CONDITIONS OF APPROVAL, if ANY:	APPROVAL DATE	nduct operations thereon.	

APPROVED BY SOLL STORES

APPA MENACTO TITLE

DATE NOR 2 1996

*See Instructions On Reverse Side

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.

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DISTRICT I P.G. Box 1980, Hobbs, NM 88241-1980

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

DISTRICT III 1000 Rio Brazos Ed., Aztec, NM 87410

DISTRICT IV P.O. BOX 2088, SANTA FE, N.M. 87504-2088 State of New Mexico

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Energy, Minerals and Natural Resources Department

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 LO	OCATION	AND ACREA	GE DEDICATI	ON PLAT		
API	API Number Pool Code DildCAT Pool Name								
Property	Code	l			I	-10	SK SAN ANDRI		
				PATERSON FEDERAL 33 Vell Number				aber	
OGRID N		1	<u>.</u>		Operator Nam	ne		Elevatio	
4323				CF	EVRON U.S.	A. INC.		3684	
					Surface Loc	ation			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
#L	33	18 S	32 E		1980	SOUTH	660	WEST	LEA
		······	Bottom	Hole Loo	cation If Diffe	erent From Sur	face	· I	· · · · · · · · · · · · · · · · · · ·
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	or Infill Co	nsolidation	Code Or	der No.				
40				und for					
NO ALLO	WABLE W	TILL BE AS	SIGNED	TO THIS	COMPLETION U	NTIL ALL INTER	ESTS HAVE B	EEN CONSOLIDA	TED
r		ORAN	ION-STAN	IDARD UN	IT HAS BEEN	APPROVED BY	THE DIVISION		11ED
	T			<u> </u>			OPERAT	OR CERTIFICAT	
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	ſ				1		contained herei	ry certify the the inj in is true and compl	formation
							best of my know	wiedge and belief.	
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	1				1		$\parallel \cap$	K. Kinla	
┝── ──						. <u></u>	Signature	1. regnic	F-1
							JJ.	K. Ripley	′
							Printed Nam	е Т.А.	
							Title	1	[]
							3/1	8/96	
							Date		
-					I		SURVEYO	OR CERTIFICAT	ION
5	Í				1		I hereby certify	, that the well locati	on shown
3688.9	3684.6'						on this plat w actual surveys	as plotted from field	notes of
660.							supervisors an	d that the same is	
3682.8	3685.11						correct to th	e best of my bekef	
							JANU	IARY 17, 1996	
lana	mand					<u> </u>	Date Surrere Signature	dent hat line	SJA
	·				1		Professional	Surveyor	
0861	1				1		TY STA	MEX	
							Barth	and internet	-31-96
	1						W.O. W.	m, 96-11-00	
							Certificate N	O. JOHN WE WEST	676
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		·····						una anticia de la companya de	

DRILLING PROGRAM

Attached to Form 3160-3 Chevron U.S.A. Inc. Patterson Federal 33 #1 1980' FSL & 660' FWL Section 33, T18S, R32E Lea County, New Mexico

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

Aeolian

2. Estimated Tops Of Important Geological Markers:

Rustler	1220'
Top of Salt	1348
Base of Salt	3086'
Yates	3201'
Seven Rivers	3329'
Queen	3883'
Penrose	4129'
Grayburg	4373'
San Andres	4923'
Delaware	5285'
TD	6000'

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

The fresh water sands will be protected by setting 8 5/8" casing at 800' 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. Casing Program:

Hole Size	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: (12 1/4" open hole)	Cemented to surface using Class "C" + 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. Minimum Specifications for Pressure Control:

The blowout preventor equipment (BOP) shown in Exhibit #1 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. Types and Characteristics of Proposed Mud System:

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

DEPTH	TYPE	WEIGHT	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 / Lithodensity Log, Dual Lateral / MSFL, Digital Sonic, Sidewall Cores.

C. No coring is planned.

9. <u>Abnormal Pressures, Temperature and Potential Hazards:</u>

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.

VOL' "IE ELEVEN VELL CONTROL AND BLOWOUT EVENTION

E. CLASS III BLOWOUT PREVENTER STACK:

The Class III preventer stack is designed for drilling or workover operations. It is composed of a single hydraulically operated annular preventer on top, then a blind ram preventer, a drilling spool, and a single pipe ram preventer on bottom. The choke and kill lines are installed onto the drilling spool and must have a minimum internal diameter of 2°. All side outlets on the preventers or drilling spool must be flanged, studded, or clamped. An emergency kill line may be installed on the wellhead. A double ram preventer should only be used when space limitations make it necessary to remove the drilling spool. In these instances, the choke manifold should be connected to a flanged outlet between the preventer rams onty. In this bookup, the pipe rams are considered master rams only, and cannot be used to routinely circulate out a kick. The Class III blowout preventer stack is shown to the right in Figure 11J.4.







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