			1.2	2360	54 ~			
Form 3160-3		T KREATER			7	JCATE	FURM APP	ROVED
(July 1992)	UNI	ALC: NO		V		18 ON	OMB NO. 10 Expires: Februa	004-0136 ry 28, 1995
	DEPARTMEN	纪长后期组	12	14 10-	7		5. LEASE DESIGNATION	
	BUREAU O	··· ·		1 100	511		<u>NM-044216</u>	
APPL	ICATION FOR I		-11	$1 - \chi U D$	287		6. IF INDIAN, ALLOTTER	OR TRIBE NAME
1a. TYPE OF WORK		DEEPEN [7. UNIT AGBEEMENT N	
b. TYPE OF WELL								
WELL A	NELL OTHER			NGLE X	MULTIPL ZONE	• 🔲	8. FARM OR LEASE NAME, WE	L NO.
2. NAME OF OPERATOR	CORDORATION	CCOTT LIEDD	20.202	ETO (701	,		RUSHMORE FEDER	AL # 1
UMC PETROLEUM 3. ADDRESS AND TELEPHONE NO.		(SCOTT WEBB	5) 303		L		- AH WELL NU.	
410 17th STRE	EET SUITE 1400	DENVER, COL	ORADO	80202			10. FIELD AND POOL, O	B WILDCAT
4. LOCATION OF WELL (F At surface	Report location clearly and	in accordance wit	th any S	tate requiremen	nts.")		WILDCAT DEVON	
2250' FSL & 17	700' FWL SEC. 25	T8S-R37E	ROOS	SEVELT CO.	. NM		11. SEC., T., E., M., OE E AND SURVEY OR AR	ELK.
At proposed prod. zo:	De	lloit h	2				SEC. 25 T8S	-R37E
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POS	TOFFICE				12. COUNTY OR PARISH	13. BTATE
	15 miles North 1	Northeast o					Roosevelt Co.	NM ·
15. DISTANCE FROM PROP LOCATION TO NEARES	T 17.	۰. ۱0		OF ACEES IN	LEASE		OF ACEES ASSIGNED 40	
PROPERTY OR LEASE (Also to nearest dri 18. DISTANCE FROM PROD	g. unit line, if any)			OO		90 80**		
	DRILLING, COMPLETED,	00'	1	,500'		20. ROTARY OB CABLE TOOLS ROTARY		
	nether DF, RT, GR, etc.)	· · · · · · · · · · · · · · · · · · ·	1 12	.,	i	. U.	22. APPROX. DATE WO	BK WILL START*
		3994' GR					As soon as ap	proved
23.		PROPOSED CASI	ING AND	CEMENTING	PROGRAM			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	00T	SETTING D	EPTH	QUANTITY OF CEMENT		
25"	Conductor 20"	NA		40'		Cement	t to surface wi	th Redi-mix
·								
17 ¹ / ₂ "	<u>H-40 13 3/8</u>	48		400'	/ •		x. circulate to	
17 ¹ / ₂ " 12 ¹ / ₄ "	K-55 8 5/8"	32		4750'		1790 \$	Sx. circulate t	
7 7/8"	K-55 8 5/8" N-80 S-95 5½"	32 17		4750' 12,500'	1	1790 S 715 Sz	Sx. circulate t x.	o surface
7 7/8" 1. Drill 25" h	K-55 8 5/8" N-80 S-95 5½" nole to 40'. Set	32 17 40' of 20''		4750' 12,500' luctor and	l cemen	1790 \$ 715 Sz t to s	Sx. circulate t x. surface with Re	o surface di-mix.
7 7/8" 1. Drill 25" H 2. Drill 17 ¹ 2"	K-55 8 5/8" N-80 S-95 5 ¹ 2" nole to 40'. Set hole to 400'. Ri	32 17 40' of 20" in and set	400 '	4750' 12,500 luctor and of 13 3/8	1 cemen 3" H-40	1790 S 715 Sz t to s 48# S	5x. circulate t «. surface with Re ST&C casing. Ce	o surface di-mix.
7 7/8" 1. Drill 25" H 2. Drill 17 ¹ ₂ " 415 Sx. of	K-55 8 5/8" N-80 S-95 $5\frac{1}{2}$ " nole to 40'. Set hole to 400'. Ru Class "C" cemen	32 17 40' of 20" un and set t+ 2% CaCl,	400' circ	4750' 12,500' luctor and of 13 3/8 culate cen	d cemen 3" H-40 ment to	1790 \$ 715 Sz t to s 48# \$ surfa	Sx. circulate t x. surface with Re ST&C casing. Ce ace.	o surface di-mix. ment with
7 7/8" 1. Drill 25" H 2. Drill 17 ¹ 2" 415 Sx. of 3. Drill 12 ¹ 4"	K-55 8 5/8" N-80 S-95 5 ¹ 2" nole to 40'. Set hole to 400'. Ri Class "C" cement hole to 4750'.	32 17 40' of 20" un and set t+ 2% CaCl, Run and set	400' circ : 4750	4750' 12,500' ductor and of 13 3/8 culate cen)' of 8 5,	d cemen 3" H-40 ment to /8" K-5	1790 \$ 715 \$ t to \$ 48# \$ surfa 5 32#	Sx. circulate t k. surface with Re ST&C casing. Ce ace. ST&C casing. C	o surface di-mix. ment with ement eith
7 7/8" 1. Drill 25" H 2. Drill 17 ¹ 2" 415 Sx. of 3. Drill 12 ¹ 4" 1540 Sx. of	K-55 8 5/8" N-80 S-95 $5\frac{1}{2}$ " nole to 40'. Set hole to 400'. Ri Class "C" cement hole to 4750'. I 35/65 POZ Class	32 17 40' of 20" un and set t+ 2% CaCl, Run and set s "C" cemen	400' circ : 4750 it + 6	4750' 12,500' luctor and of 13 3/8 culate cen)' of 8 5, 5% Gel + 5	d cemen 3" H-40 ment to /8" K-5	1790 \$ 715 \$ t to \$ 48# \$ surfa 5 32#	Sx. circulate t k. surface with Re ST&C casing. Ce ace. ST&C casing. C	o surface di-mix. ment with ement eith
7 7/8" 1. Drill 25" H 2. Drill 17½" 415 Sx. of 3. Drill 12¼" 1540 Sx. of "C" + 1% Ca	K-55 8 5/8" N-80 S-95 $5\frac{1}{2}$ " nole to 40'. Set hole to 400'. Ru Class "C" cement hole to 4750'. 1 35/65 POZ Class	32 17 40' of 20" un and set t+ 2% CaCl, Run and set s "C" cemen ement to su	400' circ : 4750 it + 6 irface	4750' 12,500' ductor and of 13 3/8 culate cen)' of 8 5, 5% Gel + 5	d cemen 3" H-40 nent to /8" K-5 5% Salt	1790 \$ 715 \$2 t to \$ 48# \$ surfa 5 32# , tai	Sx. circulate t x. surface with Re ST&C casing. Ce ace. ST&C casing. C l in with 250 S	o surface di-mix. ment with ement eith x. of Class
7 7/8" 1. Drill 25" H 2. Drill 17 ¹ 2" 415 Sx. of 3. Drill 12 ¹ 4" 1540 Sx. of "C" + 1% Ca 4. Drill 7 7/8	K-55 8 5/8" N-80 S-95 $5\frac{1}{2}$ " nole to 40'. Set hole to 400'. Ru Class "C" cement hole to 4750'. I 5 35/65 POZ Class aCl, circulate co 3" hole to 12,500	32 17 40' of 20" un and set t+ 2% CaCl, Run and set s "C" cemen ement to su O'. Run and	400' circ 4750 t + 6 trface set	4750' 12,500' luctor and of 13 3/8 culate cent of 8 5, 5% Gel + 5 12,500' c	d cemen 3" H-40 nent to /8" K-5 5% Salt of 5½"	1790 \$ 715 \$2 t to \$ 48# \$ surfa 5 32# , tai casing	Sx. circulate t x. surface with Re ST&C casing. Ce ace. ST&C casing. C l in with 250 S g as follows: 1	o surface di-mix. ment with ement eith x. of Class 450' of
7 7/8" 1. Drill 25" H 2. Drill 17 ¹ 2" 415 Sx. of 3. Drill 12 ¹ 4" 1540 Sx. of "C" + 1% Ca 4. Drill 7 7/8 17# S-95 LT with 515 Sx	K-55 8 5/8" N-80 S-95 5 ¹ 2" nole to 40'. Set hole to 400'. Ru Class "C" cement hole to 4750'. 1 35/65 POZ Class aCl, circulate co B" hole to 12,500 F&C , 9900- of 1 c. of 50/50 POZ	32 17 40' of 20" un and set t+ 2% CaCl, Run and set s "C" cemen ement to su D'. Run and 7# N-80 LT& Class "H" +	400' circ : 4750 it + 6 irface l set (C, 11 - 2% 6	4750' 12,500' ductor and of 13 3/8 culate cent of 8 5, 5% Gel + 5 12,500' c .50' of 17 Gel + .5%	d cemen 3" H-40 nent to /8" K-5 5% Salt of 5½" 7# N-80 FL-52	1790 \$ 715 \$2 t to \$ 48# \$ surfa 5 32# , tai casin\$ BUTT + .1%	Sx. circulate t surface with Re ST&C casing. Ce ace. ST&C casing. C l in with 250 S g as follows: 1 RESS THREAD. Ce Diacel LWL + 3	o surface di-mix. ment with ement eith x. of Class 450' of ment % KCl,
7 7/8" 1. Drill 25" H 2. Drill 17 ¹ 2" 415 Sx. of 3. Drill 12 ¹ 4" 1540 Sx. of "C" + 1% Ca 4. Drill 7 7/8 17# S-95 LT with 515 Sx	K-55 8 5/8" N-80 S-95 5 ¹ / ₂ " nole to 40'. Set hole to 400'. Ru Class "C" cement hole to 4750'. 1 35/65 POZ Class aCl, circulate co 8" hole to 12,500 T&C , 9900- of 1	32 17 40' of 20" un and set t+ 2% CaCl, Run and set s "C" cemen ement to su D'. Run and 7# N-80 LT& Class "H" +	400' circ : 4750 it + 6 irface l set (C, 11 - 2% 6	4750' 12,500' ductor and of 13 3/8 culate cent of 8 5, 5% Gel + 5 12,500' c .50' of 17 Gel + .5%	d cemen 3" H-40 nent to /8" K-5 5% Salt of 5½" 7# N-80 FL-52	1790 \$ 715 \$2 t to \$ 48# \$ surfa 5 32# , tai casin\$ BUTT + .1%	Sx. circulate t surface with Re ST&C casing. Ce ace. ST&C casing. C l in with 250 S g as follows: 1 RESS THREAD. Ce Diacel LWL + 3	o surface di-mix. ment with ement eith x. of Class 450' of ment % KCl,
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7 7/8" 1. Drill 25" H 2. Drill 17 ¹ 2" 415 Sx. of 3. Drill 12 ¹ 4" 1540 Sx. of "C" + 1% Ca 4. Drill 7 7/8 17# S-95 LT with 515 S2 tail in with N ABOVE SPACE DESCRIE keepen directionally, give part H. SIGNED (This space for Feder PERMIT NO. Application approval does	K-55 8 5/8" N-80 S-95 5 ¹ ₂ " nole to 40'. Set hole to 400'. Ru Class "C" cement hole to 4750'. If 35/65 POZ Class aCl, circulate co 3" hole to 12,500 F&C , 9900- of 1 c. of 50/50 POZ (ch 200 Sx. of Class BE PROPOSED PROGRAM: If inent data on subsurface location Caral or State office use) not warrant or certify that the app	32 17 40' of 20" un and set t+ 2% CaCl, Run and set s "C" cemen ement to su 0'. Run and 7# N-80 LT& Class "H" + ass "H" cem proposal is to deepen, f is and measured and tr	400' circ 4750 t + 6 urface l set (C, 11 - 2% C ent + give data nue vertica	4750' 12,500' luctor and of 13 3/8 culate cen)' of 8 5, 5% Gel + 5 12,500' c 50' of 17 Gel + .5% 8% FL-62 on present product I depths. Give bloc ent	d cemen 3" H-40 nent to /8" K-5 5% Salt of 5½" 7# N-80 FL-52 2 +3% K	1790 \$ 715 \$2 t to \$ 48# \$ surfa 5 32# , tai BUTTI + .1% Cl +	Sx. circulate t x. surface with Re ST&C casing. Ce ace. ST&C casing. C l in with 250 S g as follows: 1 RESS THREAD. Ce Diacel LWL + 3 .3% CD-32 + .1% d new productive zone. If pr .if any. DATE1/1/1	o surface di-mix. ment with ement eith x. of Class 450' of ment % KCl, Diacel. oposal is to drill or 6/97
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DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II P.O. Drawer DD, Artesia, NM 86211-0719

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

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

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 LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code			Pool Name				
30-041-20884			WILDCAT DEVONIAN						
Property Code Property Name						Number			
RUSHMORE FEDERAL						1			
OGRID No. Operator Name						Elevation			
23654		UN	IC PET	ROLEUM C	ORPORATION		39	394	
	1		- 	Surface L	ocation				
UL or lot No. Section	Township	Range	Lot Idn	Feet from th	e North/South line	Feet from the	East/West line	County	
К 25	8 S	37 E		2250	SOUTH	1700	WEST	ROOSEVEL	
	I	Bottom	Hole Loo	cation If Di	fferent From Sur	face	.l		
UL or lot No. Section	Township	Range	Lot Idn	Feet from th	e North/South line	Feet from the	East/West li	ne County	
Dedicated Acres Joint of	r Infill Co	nsolidation C	ode Or	der No.					
		aboundation o							
40									
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						Joe	T. Janica		
						Printed Nan			
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1						11/16	5/97		
						Date	,,,,,		
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							DBER 28, 1		
						Date Survey		DMCC	
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	2250'						NET		
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	T					Certificate -	NO. JOHN W. W.	81 676 EIDSCN 3239 N 12641	

VICINITY MAP



SEC. 25 TWP. 8-S RGE. 37-E

- SURVEY_____N.M.P.M.
- COUNTY____ROOSEVELT

DESCRIPTION 2250' FSL & 1700' FWL

ELEVATION 3994

OPERATOR UMC PETROLEUM CORPORATION LEASE RUSHMORE FEDERAL JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

LOCATION VERIFICATION MAP



LEASE RUSHMORE FEDERAL

U.S.G.S. TOPOGRAPHIC MAP BLEDSOE, N.M.

APPLICATION TO DRILL

UMC PETROLEUM CORPORATION RUSHMORE FEDERAL # 1 UNIT "K" SECTION 25 T8S-R37E LEA CO. NM

In response to questions asked under Section II B of Bulletin NTL-6 the following information is provided for your consideration:

- 1. Location: 2250' FSL & 1700' FWL SEC. 25 T8S-R37E ROOSEVELT CO. NM
- 2. Elevation above sea level: 3994' GR.
- 3. Geologic name of surface formation: Quaternery Aeolian Deposits.
- 4. <u>Drilling tools and associated equipment:</u> Conventional rotary drilling rig using fluid as a circulating medium for solids removal.
- 5. Proposed drilling depth: 12,500'
- 6. Estimated tops of geological markers:

	Rustler Anhydrite	2300'	Mississippian	11,260'
	San Andres	4620'	Woodford	11,290'
	Wolfcamp	8660'	Devonian	11,390'
7.	Atoka Possible mineral bearing	10720' formation:		
	San Andres	Oil		

San Andres	Oil
Bough	Oil
Devonian	Oil

8. Casing program:

• •

Hole size	Interval	OD of casing	Weight	Thread	Collar	Grade
25"	0-40'	20"	NA	NA	NA	Conductor
17½''	0-400'	13 3/8"	48	8-R	ST&C	H=40
125"	0-4750'	8 5/8"	32	8-R	ST&C	к-55
7 7/8"	0-12,500'	5½"	17	8-R & Buttress	LT&C	S-95 & N-80

UMC PETROLEUM CORPORATION RUSHMORE FEDERAL # 1 UNIT "K" SECTION 25 T8S-R37E LEA CO. NM

9. Cementing and Setting Depth:

20''	Conductor	Set 40' of 20" conductor and cement to surface with Redi-mix.
13 3/8"	Surface	Set 400' of 13 3/8" H-40 48# ST&C casing & cement with 415 Sx. of Class "C" cement + 2% CaCl. circulate cement to surface.
8 5/8"	Intermediate	Set 4750' of 8 5/8" K-55 32# ST&C casing & cement with 1540 Sx. of 35/65 POZ Class "C" cement + 6% Gel + 5% salt, tail in with 250 Sx. of Class "C" + 1% CaCl, circulate cement to surface.
5½"	Production	Set 12,500' of $5\frac{1}{2}$ " 17# as follows: 1450' of S-95 LT&C, 9900' of N-80 LT&C, 1150' of N-80 Buttress thread. Cement with 515 Sx. of 50/50 POZ Class "H" +2% Gel + .5% F1-52 + .1% Diacel LWL + 3% KCl, tail in with 200 Sx. of Class "H" cement + .8% F1-62 + .3% CD-32 + .1% Diacel LWL + 3% KCl. Estimate top of cement 8500'.

10. <u>Pressure Control Equipment:</u> Exhibit "E". A 1500 series 5000 PSI working pressure B.O.P. consisting of a double ram type preventor with a bag type annular preventor BOP un-t will be hydraulically operated. Exhibit "E-1". Choke manifold and closing unit. BOP will be nippled up on 13 3/8" casing and will be operated at least once each 24 Hr. period while drilling and blind rams will be operated when out of hole during trips. Flow sensor, PVT, full opening stabbing valve and upper kelly cock will be utilized. No abnormal pressure or temperature is expected while drilling.

11.	Propose:	- <u>Maria</u>	Citat	• * = = : :	te Svate	:=:
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<u>Depth</u>	Mud Wt.	Visc,	Fluid Loss	Divbe Mud
40-4001	8.4-9.0	32-36	NC	Fresh water spud mud add paper for seepage and Bentonite for viscosity if needed Soda ash for pH
400-4750'	8.4-10.2	32-40	NC	Fresh water add 4-6% oil and brine to drill saltsection use paper for seepage & sweeps. Caustic soda for pH control maintain pH 9.3-10.5.
4750-8900'	9.1-9.5	34-38	NC	Cut brine add paper for seepage & add 4-8% oil thru Abo section use caustic soda to maintain pH 9.5-10.
8900-11200'	9.3-9.7	34-38	10-12 cc	Same as above allow oil to fall to 2-3% use starch for WL control.
11200-12500'	9.3-9.7	38-43	6-3 cc	Same as above allow oil to fall to C-2% maintain pH at 9.3-10.5 sa;t Gel for vis. starch for WL.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation and unexpected kicks. In order to run DST's , open hole logs and casing the viscosity and water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

UMC PETROLEUM CORPORATION RUSHMORE FEDERAL # 1 UNIT "K" SECTION 25 T8S-R37E LEA CO. NM

12. Testing, Logging and Coring Program:

- A. Fluid caliper from 4750-to surface & TD-to 4750'.
- B. Open Hole logs: Laterolog, MSFL, CNL, Litho-Densityfrom TD to 4750'
- C. Gamma Ray and Caliper from TD to 4750'. Gamma Ray & Neutron from TD to surface. BHC Sonic from TD to 4750'.
- D. Mud logger rigged up on hole from 4000' to TD.
- E. Possible DST's in San Andres, Bough "C" & Devonian.

13. Potential Hazards:

No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered, H_2S detectors will be in place to detect any presence. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used. Estimated BHP $_{6500}$ PSI, estimated BHT $_{185^\circ}$.

- 14. Anticipated Starting Date and Duration of Operation: Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take <u>60-75</u> days. If production casing is run an additional 30 days will be required to complete and construct surface facilities.
- 15. Other Facets of Operations: After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals. The <u>Devonian</u> pay will be perforated and stimulated. The well will be swab tested and potentialed as an oil well.



ARRANGEMENT SRRA

1500 Series 5000 PSI WP

> EXHIBIT "E" B.O.P. SKETCH TO BE USED ON UMC PETROLEUM CORPORATION RUSHMORE FEDERAL # 1 UNIT "K" SECTION 25 T8S-R37E LEA CO. NM