	N.M. (DIL C DX 1 OPER. OGI	RID NO. 5381	×-,		
Form 3160-3 (July 1992)	UN	TED PROPERTY	NO. 3355	, — • • • • • • • • • • • • • • • • • •		1004-0136
		T OF POOL COD			Expires: Febru	агу 28, 1995
		LAN EFF. DATE	3/28/96		5. LEASE DESIGNATION LC-060967	
1a. TYPE OF WORK	PLICATION FOR P	EHN API NO. 3	<u>D-025-333</u>	53	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
b. TYPE OF WELL		DEEPEN			7. UNIT AGREEMENT N	AME
2. NAME OF OPERATOR	WELL OTHER		SINGLE X MULT ZONE ZONE	IPLE	8. FARM OR LEASE NAME, WE	ALL NO.
Cross Timbers	s Operating Compa	ny			SEMGSAU #106	5
3. ADDRESS AND TELEPHONE	NO. 070, Midland, Tex		(015) 600, 0070		9. API WELL NO.	
4. LOCATION OF WELL At SULTACE	(Report location clearly and	in accordance with any	(915)682-8873 State requirements *)		10. FIELD AND POOL, O	
1040' FSL, 42 At proposed prod.	20' FEL, Sec 30, ⁻	T17S, R33E, NMI	om Subject to Like Apon		Maljamar Grayb 11. SEC., T., R., M., OB F AND SUBVEY OF AR	1 T TT
Same 14. distance in mile	S AND DIRECTION FROM NEAR		OT BU State		Sec 30, T17S,	R33E, NMPM
6 miles south	neast of Maliamar.	New Mexico	CE*		12. COUNTY OR PARISH	13. STATE
LOCATION TO NEAR	OPUSED* Est	16. 1	O. OF ACRES IN LEASE	17. NO. (DF ACRES ASSIGNED	New Mexico
18. DISTANCE FROM PR	Prig. unit line, if any) 72	20' 12	-	20	HIS WELL	
OR APPLIED FOR, ON 1	DRILLING, COMPLETED, THIS LEASE, FT. 45		ROPOSED DEPTH	1	RY OR CABLE TOULS	
1 0071 01	whether DF, RT, GR, etc.)			Rota	22. APPROX. DATE WOR	K WILL START
<u>4,037'GL</u>			II Controlled Water		1/1/96	
SIZE OF HOLE			D CEMENTING PROGRA	м		
12-1/4"	GRADE SIZE OF CASING 8-5/8" J-55	WEIGHT PER FOOT	SETTING DEPTH	050	QUANTITY OF CEMENT	
7-7/8"	5-1/2" J-55	<u>15.5#</u>	4,400'	250sx 975sx	CIRCULATE	
		_				
1. Drill 12-1 2. NU BOP. L	1/4" hole & set 8 Log BOP checks in	-5/8" surface of IADC report &	csg. Circ cmt	to surf	ace.	
J. JCC J-1/2	csy dc ID = circ	C CMT to surfar	<u>`</u>	ule lu i	4,400 .	
EXHIBITS ATTAC	hole log. Perfor	rate & stimulat	ce as needed.		•	•• 2.**
Exhibit "A" -	Location & Elevat	tion Plat			([–]	e • :
Exhibit "B" -	Ten-Point Complia	ince Program			l a	<
Exhibit "D" -	Pressure Control Surface Use Plan	Equipment	Approvation			
Exhibit "E" -	Existing & Planne	ed Access Roads	General Risc	Live spects	s and the second	
Exhibit "F" -	Location of Exist Proposed Well Sit	ing Wells	Special Stip: Attached			
Exhibit "H", "	H1" & "H2" - Dril] Pad Lavout w	/Elevations (Cu	1 & fil	1 diagrams)	
Exhibit "I" -	Surface Owner Dam	age Agreement	,		r uragrains)	
IN ABOVE SPACE DESCRIBE	E PROPOSED PROGRAM: If prop nent data on subsurface locations at	205al is to deepen aive data -				
deepen directionally, give pertir	nent data on subsurface locations at	nd measured and true vertical	depths. Give blowout prevente	d proposed ne r program, if a	ew productive zone. If propo any.	sal is to drill or
A	ER_					
(This space for Feder	Ramsey, Jr.		illing Engineer		DATE11/8/95	
	\bigcirc				_	
PERMIT NO	ot warrant or certify that the application	At holds loop!	PPROVAL DATE			
CONDITIONS OF APPROVAL,	ot warrant or certify that the applicar .IF ANY:	a nonus regai or equitable title	to mose rights in the subject leas	se which would	lentitle the applicant to conduct	operations thereon.
· ·						
APPROVED BY		TITLE		r	DATE	

*See Instructions On Reverse Side

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Fitle 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 ited States any false, fictitious or fraudulent statements or concentration DISTRICT I State of New Mexico P.O. Box 1980, Hobbs, NM 86240 JUL 3 1 1575 Energy, Minerals and Natural Resources Department

Pool Code

RECTO. / MIDLAND

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

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

DISTRICT IV PO BOX 2088, SANTA FE, NM 87504-2088

API Number

Santa Fe, New Mexico 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT

OIL CONSERVATION DIVISION

P.O. Box 2088

□ AMENDED REPORT

Pool Name

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Canadicate No. 10-15

Mun ACTESC

95

SE WEST

1125

EIDSON . I. EIDSON

676 3239 1264

Form C-102

Revised February 10, 1994

State Lease - 4 Copies Fee Lease - 3 Copies

Submit to Appropriate District Office

Instruction on back

- 33353 30.0 4 3329 Maljamar (G - SA) Code Property Name Well Number 355 SMGSAU 106 OGRID No Operator Name Elevation 39 CROSS TIMBERS OPERATING CO. 4034 Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Ρ 30 17 S 33 E 1040 SOUTH 420 EAST LEA Bottom Hole Location If Different From Surface 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 or Infill Consolidation Code Order No. 21 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I hereby certify the the information Federal Lease \overline{X} toined herein is true and complete to the best of my knowledge and belief. Signath G dorge Έ. Ramsev Printed Name Drilling Engineer Title 9/27/95 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown Lease #LC-060967 on this plat was plotted from field notes of actual surveys made by me or under my supervisor, and that the same is true and correct to the best of my bekef. JULY 24, 1995 Date Surveyed SJA Signature & Seal Gr Professional, Su A.S. -28-95

EXHIBIT "A" - LOCATION AND ELEVATION PLAT

EXHIBIT "B" APPLICATION FOR PERMIT TO DRILL TEN-POINT COMPLIANCE PROGRAM CROSS TIMBERS OPERATING COMPANY SEMGSAU #106 1040' FSL, 420' FEL SEC 30 - T17S - R33E NMPM LEA COUNTY, NEW MEXICO

In conjunction with Form 3160-3, Application for Permit to Drill, Cross Timbers Operating Company submits the following items of pertinent information in accordance with Onshore Oil and Gas Order No's 1 and 2, and with all other applicable Federal and State regulations.

- 1. The geologic surface formation is Quaternary Alluvium.
- 2. The estimated geologic markers are as follows:

Top of Salt	- 1355'	Queen	- 3542'
Base of Salt	- 2430'	Grayburg	- 3708'
Yates	- 2550'	Premier SS	- 4200'
Seven Rivers	- 2932'	San Andres	- 4262'

3. The estimated depths at which water, oil and/or gas are expected to be encountered:

Fresh Water:	None in the area.			
Oil and /or Gas:	Grayburg	- 3708' to 4200'		
	Premier SS	- 4200' to 4262'		
	San Andres	- 4262' to 4400'		

4. Proposed Casing Program:

Hole	Setting	Size	Weight, Grade	New or
<u>Size</u>	Depth	<u>(OD)</u>	and Joint	Used
AC	> H00'			*
12 1/4"	400'	8 5/8"	24#, J55, STC	Used *
7 7/8"	4400'	5 1/2"	15.5#, J55, STC	Used *

Cement Program:

Surface Casing:250 sx Premium Plus cement with 2% CaCl and 1/4 #/sx Flocele.Production Casing:Lead with 775 sx Premium Plus cement with 3% Econlite and 1/4 #/sxFlocele, Tail in with 200 sx Premium Plus cement with 0.2% Halad-322 and 0.4% Halad-9.

* USED CASING SAALL MEET OR EXCEED NEW CASING'S SPECIFICATIONS. Page 2 Exhibit "B" continued

5. Pressure Control Equipment:

The BOPE will be a Shaffer type double gate preventer Series 900 - 3000# W.P. <u>Exhibit "C"</u> is a schematic diagram of the minimum blowout preventer stack that will be used. The BOP's will be hydraulically tested to half the working pressure after nippling up and after any use under pressure. Pipe rams will be operationally checked each 24 hour period, as will the blind rams each time pipe is pulled out of the hole. Such checks will be noted on the daily tour reports.

Accessories to the BOPE will include an upper kelly cock, floor safety valve, and choke manifold with pressure rating equivalent to the BOP stack.

6. Mud Program:

Surface: Fresh water native spud mud. Production: Brine Envirodrill-NS.

	Depth	Mud Weight	<u>Viscosity</u>	<u>API Filtrate</u>
Ade	<u>Depth</u> 0'300-400'	8.4 - 8.8 ppg	32 - 36 sec	No Control
	300' - 4400'	10.0 - 10.1 ppg	28 - 30 sec	No Control

- 7. Auxiliary Equipment:
 - An upper kelly cock valve will be used in the kelly.
 - A safety valve will be on the floor at all times, to be stabbed into the drill string when the kelly is not in the string.
 - H2S compliance package will be installed prior to drilling the Grayburg formation to monitor the system for H2S.
- 8. Testing, Logging, and Coring Program:
 - No drill stem tests are anticipated.
 - No open hole logs will be run, a cased hole CNL/Spectral GR will be run prior to completion.
 - No coring is anticipated.

Page 3 Exhibit "B" continued

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9. Anticipated Abnormal Pressure, Temperatures, or Other Hazards:

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area to the anticipated depth of this well.

Anticipated Bottom Hole Pressure (BHP) = 1930 psi.

Hydrogen Sulfide is known to exist in formations at the depths the wellbore will penetrate, a H2S compliance package will be rigged up prior to drilling those formations.

10. Anticipated Starting Date and Duration of Operations:

The anticipated starting date will be as soon as possible after examination and approval of drilling requirements. Drilling operations should be completed within 10 days after spudding the well and drilling to TD.

