Form 3160-3

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

SUBMIT IN TRIPLICATE\*

FORM APPROVED OMB NO. 1004-0136

_	<b>V.11.7</b>	ED STATES		reverse sid	e)	Empireo. 120	oruary 28, 1995
P	DEPARTMEN'	T OF THE IN	TERIOR			5. LEASE DESIGNATION	AND SERIAL NO.
V	BUREAU OF	LAND MANAG	EMENT			NMSF - 081239  6. IF INDIAN, ALLOTTEE	OD TORIE MANGE
APP	LICATION FOR PE	BMIT TO DR	RILL OR I	DEEPEN		6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
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ross Timbers O	perating Company			Buch	<u> </u>	9. API WELL NO.	
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AUG 21 /al Joel Farrell -- TITLE ---- DATE -\*See Instructions On Reverse Side



DISTRICT 1 P.O. Box 1980, Hobbs, N.M. 88241-1980 State of New Mexico

Form C-1C2 Revised February 21, 199∡

Instructions on back Submit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

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

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

☐ AMENDED REPORT

1000 Rio Brazos Rd., Aztec, N.M. 87410

H 11 30-N 12-W 1975 NORTH 660 EAST SAN JUAN  11 Bottom Hole Location If Different From Surface  12 or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County  Dedicated Acres 2 Joint or Infill 4 Consolidation Code 4 NORTH South Line Feet from the East/West line County  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  S. 89-52-38 W OTR CORNER S. 89-09-14 W SEC. CORNER 17 OPERATOR CERTIFICATION	STRICT IV Box 2088, Sant	a Fe, NM (	87504-2088		001710	NI ANID AC	מחר א כיב	חבחוי	C A TION	J DL/		AMEN	DED KEPOK
Property Norma   Prop	¹API I	Number	V		<sup>1</sup> Pool Code		TLAGE		3 Po	ol Name	· · · · · · · ·		
Tripparty foods  UTILE STINKER  1M  1 Operation Name  CROSS TIMBERS OPERATING CO.  10 Surface Location  11 30-N 12-W  11 Bottom Hole Location if Different From Surface  Let let no. Section Township Range Let lidn Seel from the North/South Bine Record FAST  11 Bottom Hole Location if Different From Surface  Let let no. Section Township Range Let lidn Feel from the North/South Bine Feel from the East/Weel line County  11 Bottom Hole Location if Different From Surface  Let let no. Section Township Range Let lidn Feel from the North/South Bine Feel from the East/Weel line County  12 Section Township Range Let lidn Feel from the North/South Bine Feel from the East/Weel line County  13 7 June 14 Location I Different From Surface  NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDA  NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDA  NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDA  NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDA  NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLET SEED APPROVED BY THE DIVISION  OR A NON-STANDARD UNTIL HAS BEEN APPROVED BY THE DIVISION  OR COMPLET SEED APPROVED BY THE DIVISION DELICATION IN THE SEED APPROVED BY THE DIVISION DELICATION IN THE SEED APPROVED BY THE DIVISION OF THE DIVISION	30-045	-30	754		71599			JASIA	<u>DHK</u>	<u>01H                                    </u>			
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Decision of No. Section Community and Section 1 and Section Code    Consider Acres   2		L	<u> </u>	11 Botte	om Hole	Location	If Differ	rent Fr					··•
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Printed Name  Oil CON Div  LONG: 108'03'39" W  LOT 8  Orr. CORNER FD BLW BC  18 SURVEYOR CERTIFICATION  1 hereby certify that the well location shown on this was picted from field notes of actual surveys made by or under my superpision. The the same is true correct to the best of my belief				<b>.</b>	V K	OT 7	1	<b>\ 1</b>		gnature	<del>1/2</del> 2	<del></del>	
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DISTRICT | P.O. Box 1980, Hobbs, N.M. 88241-1980 State of New Mexico
Therapy, Minerals & Natural Resources Department

Form C-101 Revised February 21, 199± Instructions on back Ibmit to Appropriate District Office

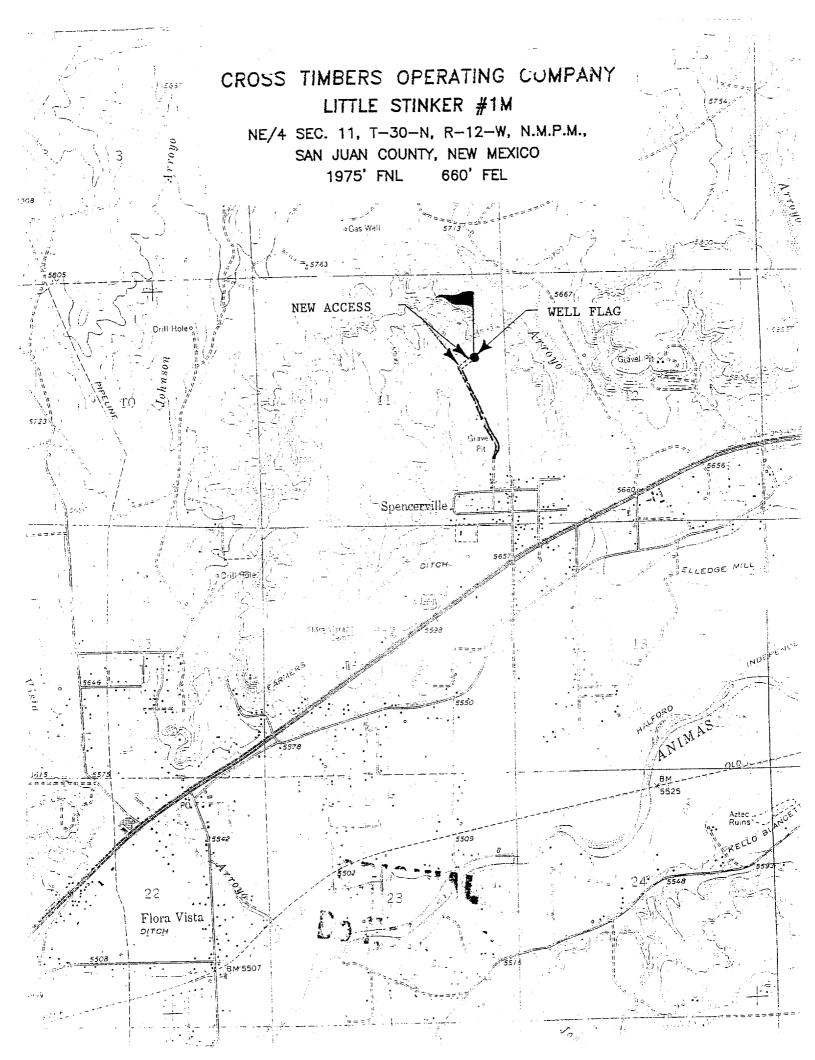
Submit to Appropriate District Office
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Fee Lease — 3 Copies

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

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 OIL CONSERVATION DIVISION
P.O. Box 2088
Sorte Fe NN 87504-2088

#### Santa Fe, NM 87504-2088 ☐ AMENDED REPORT PO Box 2088, Santa Fe, NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT BLANCO MESAUERDE 5-307 \* Well Humber <sup>5</sup> Property Name LITTLE STINKER 1M <sup>8</sup> Elevation \*Operator Name 7 OGRID No. 5833' CROSS TIMBERS OPERATING CO. 167067 <sup>10</sup> Surface Location North/South line Feet from the East/West line Let Idn Feet from the County Township Range UL or lot no. Section 1975 NORTH 660' **EAST** SAN JUAN Н 12-W 11 30-N 11 Bottom Hole Location If Different From Surface East/West line Feet from the North/South line Feet from the County Let Idn UL or lot no. Section Township Range 14 Consolidation Code 18 Order No. 12 Dedicated Acres <sup>13</sup> Joint or Infill N Ι 316.70 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 S 89-52-38 W S 89-09-14 W SEC. CORNER QTR. CORNER OPERATOR CERTIFICATION SEC. CORNER FD BLM BC 1975 2678.2' (M) FD BLM BC 2636.6' (M) FD BLM BC I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief LOT 1 LOT LOT 2 **∑**0 OT 4 -02-00 ō a 6 2 Z ĽÓŢ Signature 658 660 LOT 5 SEPTR PATTON LOT 6 LAT: 36'49'43"N Printed Name LONG: 108'03'39 DRILLING ENGINEER LOT B Titte 7-17-01 Date OTR. CORNER FD BLM BC 1975 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me LOT 10 the same is true and LOT 9 or under my superys correct to the AUG 2001 RECEIVE OIL CON. IDIN DIST. 3 8894

Certificate Numb



## CROSS TIMBERS OPERATING COMPANY

Little Stinker #1M **APD Data** July 19, 2001

Location: Sec 11, T30N, R12W State: New Mexico County: San Juan

GREATEST PROJECTED TD: 7,175' OBJECTIVE: Basin Dakota / Blanco Mesaverde APPROX GR ELEV: 5,833'

Est KB ELEV: 5,845' (12' AGL)

#### 1. **MUD PROGRAM:**

INTERVAL	0' to 350'	350' to 4,500'	4,500' to TD
HOLE SIZE	12-1/4"	7-7/8"	7-7/8"
MUD TYPE	FW/Spud Mud	FW/Polymer	PolyPlus
WEIGHT	8.6-9.0	8.4-8.8	8.6-9.0
VISCOSITY	28-32	28-32	45-60
WATER LOSS	NC	NC	8-10

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes.

## **CASING PROGRAM:**

Surface Casing: 9-5/8" casing to be set at  $\pm$  350' in 8.8 ppg mud

				-6			F F O					
					Coll	Burst						
					Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
0'-350'	350'	36#	H-40	STC	1740	2560	294	8.921	8.765	7.32	7.95	29.39

Production Casing: 4-1/2" casing to be set at TD in 9.0 ppg mud.

					Coll	Burst	T. C.	Б	D : 6	SE.	GE.	G.E.
1					Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
0'-TD	7,175	10.5#	J-55	STC	4010	4790	132	4.052	3.875	1.66	1.33	2.44

### WELLHEAD:

- A. Casing Head: Larkin Fig 92 (or equivalent), 9" nominal, 2,000 psig WP (4,000 psig test) with 9-5/8" 8rnd thread on bottom and 11-3/4" 8rnd thread on top.
- B. Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 2,000 psig WP (4,000 psig test), 4-1/2" 8rnd female thread on bottom, 8-5/8" 8rnd thread on top.

# 4. <u>CEMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to surface on both casing strings):</u>

A. Surface:

9-5/8", 36#, H-40, STC casing to be set at  $\pm$  350'.

Circulate

<u>Lead:</u> 185 sx of Class "B" cement (or equivalent) containing 2% CaCl<sub>2</sub>, ¼ pps celloflake, mixed at 15.6 ppg, 1.18 ft<sup>3</sup>/sk, & 5.20 gal wtr/sk.

Total slurry volume is 220 ft<sup>3</sup>, 100% excess of calculated annular volume to 350'.

B. Production:

4-1/2", 10.5#, J-55, STC casing to be set at  $\pm 7,175$ '.

530 sx of Lite-Crete cement (proprietary blend) containing ½ pps celloflake mixed at 9.5 ppg, 2.52 ft<sup>3</sup>/sk, 11.50 gal wtr/sx followed by 200 sx 50/50 class "G" with poz, 6 % gel, 1/4#/sx cellofalke, 0.2% dispersant & 0.2% fluid loss additive mixed at 13.0 ppg, 1.42 cuft/sx, 9.85 gal/sx.

Total estimated slurry volume for the 4-1/2" production casing is 1,617 ft<sup>3</sup> (no excess).

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined for the caliper logs plus 20%. It will be attempted to circulate cement to the surface.

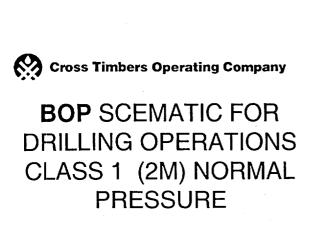
#### 5. LOGGING PROGRAM:

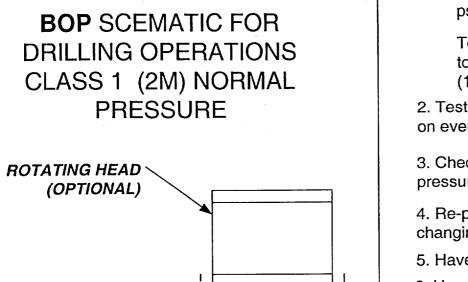
- A. Mud Logger: The mud logger will log from 3,300' to TD (6,850').
- B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD to 2,800'. Formation Micro Imager (FMI) will be run on most wells from TD to  $\pm 6,300$ '.

#### 6. FORMATION TOPS:

Est. KB Elevation: 5,845'

Formation	Subsea Depth	Well Depth
Farmington Sandstone	+4774'	1071'
Fruitland Formation	+4002'	1843'
Lower Fruitland Coal	+3711'	2134'
Pictured Cliffs SS	+3667'	2178'
Lewis Shale	+3420'	2425'





- 1. Test BOP after installation:
  - Pressure test BOP to 200-300 psig (low pressure) for 5 min.

Test BOP to Working Press or to 70% internal yield of surf csg (10 min).

2. Test operation of (both) rams on every trip.

