Submit 3 Copies To Appropriate District / State of New Mexico	Form C-103
Office Energy, Minerals and Natural Resources	Revised March 25, 1999
1625 N. French Dr., Hobbs, NM 87240	WELL API NO.
District II 811 South First Agests NIM 87210 OIL CONSERVATION DIVISION	30-045-23992
Bill South First, Artesia, NM 87210 District III  2040 South Pacheco	5. Indicate Type of Lease
District II 811 South First, Artesia, NM 87210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV  OIL CONSERVATION DIVISION 2040 South Pachecy Santa Fel NM 8745	STATE   FEE 束
District IV	6. State Oil & Gas Lease No.
2040 South Pacheco, Santa Fe, NM 87505	6. State Off & Gas Lease No.
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEFEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM CARD) FOR SUCH PROPOSALS.)	7. Lease Name or Unit Agreement Name:  Davidson Gas Com H
1. Type of Well: Oil Well Gas Well X Other	
2. Name of Operator	8. Well No.
Cross Timbers Operating Company	16
3. Address of Operator	9. Pool name or Wildcat
2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM 87401	Otero Chacra / Basin Dakota
4. Well Location	Totero Ciacra / Basin Dakota
Unit Letter C: 790 feet from the North line and	1,520 feet from the West line
Section 22 Township 28N Range 10W	NMPM County San Juan
10. Elevation (Show whether DR, RKB, RT, GR, et	
5,983' GR 5,997' RKB	
11. Check Appropriate Box to Indicate Nature of Notice,	Report or Other Data
	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK	☐ ALTERING CASING ☐
TEMPORARILY ABANDON 🔲 CHANGE PLANS 🔲 COMMENCE DRILLI	
PULL OR ALTER CASING	ABANDONMENT
OTHER: Downhole Commingle 🐹 OTHER:	
12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and gi of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach or recompilation.	ve pertinent dates, including estimated date wellbore diagram of proposed completion
Cross Timbers Operatin Company requests an exception to Rule 303A to the Basin Dakota Pool (71599) and the Otero Chacra Pool (82329). The pre-approved pool combinations for downhole commingling in the San Ju Attachments 1 and 2 summarize the conditions and information required Well Location and Acreage Dedication Plats (Form C-102) for both pool	se pools are included in the NMOCD an Basin per Division Order R-11363. per Rules 303C(1) and 303C(3)(b).
1. MIRU pulling unit. Install BOP. TOH with production tubing. 2. TIH with bit. Drill out CIBP @ 3,500'. 3. TIH & cleanout to 6,680' PBID. TOH with bit.	
4. TIH & land production tubing @ approx 6,550'. Remove BOP. Swab i	n ng mooded . DMM entlikeit
5. Return well to production with CH perfs 3,050'-3,168' and DK perfs	6 4581-6 6361 pomp 6 6001
3. Instant well to production with th peris 3,0003,108. and DK peris	0,430'-0,636'. PEID 6,680'.
DHC 5-10 AZ	
nereby certify that the information above is true and complete to the best of my knowledge and belief	
IGNATURE Pary Martin TITLE Operations Engin	
ype or print name Ray Martin	Telephone No. (505) 324-1090
This space for State use)	INSPECTOR, DIST. # AUG 13 2001
non output the district the control of the control	DATEDATE

## Attachment 1 Davidson Gas Com H #1E Request to DHC Basin Dakota & Otero Chacra Pools

### Required conditions per Rule 303C(1):

- (a) The fluids from both pools are compatible. These pools have been commingled together in other wells without fluid compatibility or formation damage problems and the two pools have been pre-approved for downhole commingling..
- (b) No secondary recovery operations are planned for this well.
- the Dakota was 909 psig. Using a gas/liquid gradient of 0.04 psig per foot of depth, the calculated shut-in bottomhole pressure at top Dakota perforation was 1,170 psig. The well produced 20 years from the Dakota. Current Dakota bottomhole pressure would be much lower than the initial bottomhole pressure. The shut-in surface pressure in the Chacra after recompletion was 740 psig. Using a gas/liquid gradient of 0.04 psig per foot of depth, the calculated shut-in bottomhole pressure at top Chacra perforation is 860 psig. The well has produced 13 months from the Chacra. Current Chacra bottomhole pressure would be lower than the initial bottomhole pressure. Using the NMOCD fracture parting pressure gradient of 0.65 psig per foot of depth, the calculated bottomhole pressure to frac the Chacra is 1,983 psig and to frac the Dakota is 4,198 psig. Thus, neither zone's current pressures will exceed the frac parting pressure of either zone.
- (d) The well will be produced until both zones are at economic depletion, thus no permanent loss of reserves will occur due to cross-flow in the wellbore.
- (e) Both zones produce condensate and water. Neither zone is sensitive to produced fluids from the other zone. These pools are commonly downhole commingled.
- (f) Cross Timbers Operating Company will maintain the prorated production below top allowable or other rate restriction set by the NMOCD for each Pool.
- (g) Downhole commingling will not reduce the value of the total remaining production.

  Increased ultimate recovery is expected due to a lower economic production limit for each pool resulting lower operating cost per zone due to the combined production. Also, the reserves will be recovered in less time by downhole commingling.
- (h) Correlative rights will not be violated by downhole commingling. The well's production casing is cemented to surface and the only open zones will be the Dakota and Chacra. The production will be allocated between the Dakota and Chacra per the allocation formula on Attachment #2.

# Attachment 2 Davidson Gas Com H #1E Request to DHC Basin Dakota & Otero Chacra Pools

### Additional information per Rule 303C(3)(b):

- (i) Division Order R-11363 established pre-approved pool combinations for downhole commingling.
- (ii) Basin Dakota Pool (71599) Otera Chacra Pool (82329)
- (iii) Otero Chacra perforations: 3,050'-3,168' Basin Dakota perforations: 6,458'-6,636'
- (iv) The proposed production allocation formula is based on a ratio of the two Pools production. Proposed Allocation Formula

	ВО	DIA	140=
	<del></del>	BW	MCF
Basin Dakota	86%	50%	25.5%
Otero Chacra	14%	50%	74.5%

Basin Dakota Pool (last 3 full months production prior to recompletion to CH)

Mo.	ВО	BW	MCF (15.03 psig w/lse use)
Feb. '00	8	0	1,468
Mar. '00	5	0	1 171
Apr. '00	0	0	1.701
3 Mo. Ave.	4.3 (86%)	0	1,447 (25.5%)

#### Otero Chacra Pool

Mo.	ВО	BW	MCF (@15.03 psig w/lse use)
Feb. '01	2	0	4,270
Mar. '01	0	0	4.166
Apr. '01	0	0	4,252
3 Mo. Ave.	0.7 (14%)	0	4,229 (74.5%)

- (v) Downhole commingling will not reduce the value of the total remaining production. Increased ultimate recovery is expected due to a lower economic production limit for each pool resulting lower operating cost per zone due to the combined production. Also, the reserves will be recovered in less time by downhole commingling.
- (vi) Cross Timbers Operating Company has sent notice of intent to downhole commingle to all working and overriding royalty interest owners by certified mail (return receipt). No objections were received within 20 days after sending notices.
- (vii) I have filed a Sundry Notice Form 3160-5 with the BLM with a copy of this C-102 attached.