



August 11, 2000

CERTIFIED MAIL

Mathias Family Trust Dated 9-9-81 Eugene P. Mathias and Barbara J. Mathias, Trustees 452 Maidstone Lane Thousand Oaks, CA 91320

RE:

New Drill

Federal F #2E Well

E/2 Unit

SE/4 Section 4-27N-10W

San Juan County, New Mexico

Dear Working Interest Owner:

Cross Timbers Oil Company (CTOC) hereby proposes to drill the above captioned well to a depth of 6,850' to the Dakota Formation. Our proposed location is 1060' FSL and 1,805' FEL of the Section. Our records indicate that Mathias Family Trust dated 9-9-81 has a working interest of .6892%. Enclosed please find a copy of our AFE which provides for a dry hole cost of \$200,300 and a completed well cost of \$413,700.

Enclosed also please find a Joint Operating Agreement for this E2 Unit that covers the Dakota Formation. Please review the Agreement and should you elect to participate, forward a signed signature page along with an executed AFE to the undersigned. CTOC is prepared to drill this well as soon as possible, so your immediate response would be greatly appreciated. Should you have any questions, please feel free to contact me at (817) 885-2454.

Cross Simbers 12524

Sincerely,

CROSS TIMBERS OIL COMPANY

George & Cox, CPL

Landman

Enclosures



August 24, 2000

Working Interest Owners (See attached list)

RE:

Federal F #2E Well E/2 Section 4-27N-10W

San Juan County, New Mexico

Dear Working Interest Owners:

On August 11, 2000 I sent you a well proposal along with an AFE and Joint Operating Agreement for the above captioned well. As of the date of this letter I have not received a signed Joint Operating Agreement and your election to join or go non-consent under the Joint Operating Agreement. Cross Timbers Oil Company is making plans to drill this well in the near future and we need to know your election pertaining to your interest in this well.

Please let me know if you have any questions concerning our proposal as soon as possible. I will need to make application with the NMOCD for a force pooling hearing and I will need to list any party who has not signed the Joint Operating Agreement and responded to our proposal. Please contact me as soon as possible.

Sincerely,

CROSS TIMBERS OIL COMPANY

George **A**. Cox, CPL

Landman

Coss Trades 12524

WORKING INTEREST OWNERS FEDERAL F #2E

Mathias Family Trust dtd 9-9-81 452 Maidstone Lane Thousand Oaks, CA 91320

Virginia L. Mullin 1 Churchill Drive Englewood, CO 80110

William L. Floyd, Jr. 16 East 77th Street, #5A New York, New York 10021-1723

Richard P. Shooshan, Trustee of the Shooshan Family Trust 686 E. Union St. Pasadena, CA 91101-1820

Leon M. DuCharme Marital Trust 2617 South Wadsworth Circle Lakewood, CO 80277-3220

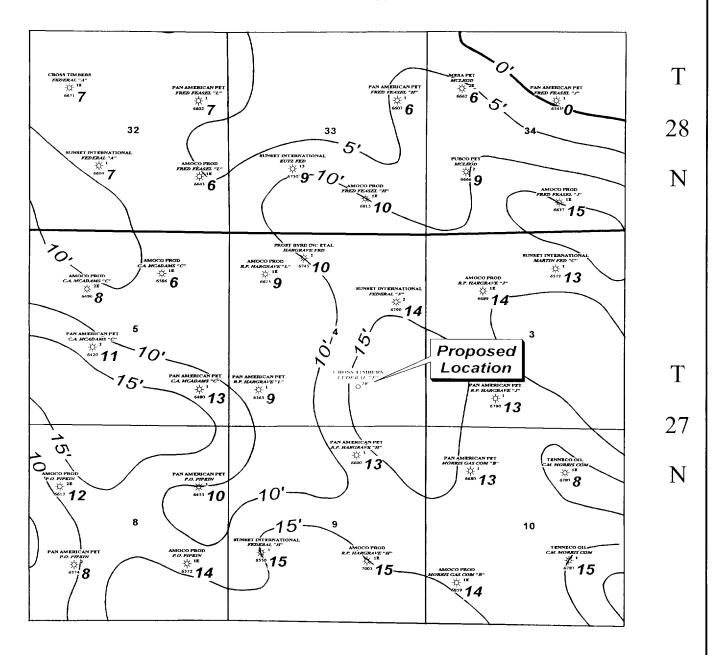
Rita Mae DuCharme 2617 South Wadsworth Circle Lakewood, CO 80277-3220

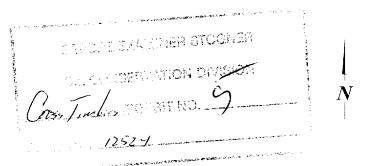
Rita Treasa Floyd, Jr. 8 Admiral Drive #236 Emeryville, CA 94608

Chateau Energy, Inc. 5950 Berkshire Ln #275 Dallas, TX 75225-5846

	Cross Timbers Operating Company			
AFE No.	AUTHORITY FO	OR EXPENDITURE	Well No.	#2E
Descripti	on SE/4 of Sec 4, T27N, R10W	_	San Juan	-
State	New Mexico Area San Juan Division	Operator		
	Drill & Complete a infill Dakota Gas Well on Development X Recompletion T.D.	Prepared by 6,850' TVD	JW Patton // Date	07/24/2000
	on Development X Recompletion T.D.		- /	
24x_xx		INTANGIBLE	TANGIBLE	TOTAL
8-01	CONDUCTOR HOLE / RATHOLE	¢63,000		\$0
8-01 8-01	DAYWORK DRILLING 10 days @ \$6,300/day FOOTAGE DRILLING	\$63,000		\$63,000 \$0
8-01	MOVING RIG	\$9,500		\$9,500
8-01	TURNKEY DRILLING			\$0
8-03	CONTRACT LABOR	\$4,000		\$4,000
8-04	TRUCKING	\$5,000		\$5,000
8-04 8-05 8-06 8-06	LOCATION / ROADS / PITS	\$12,000		\$12,000
8-06	MUD / CHEMICALS WATER & WATERLINES (for drilling)	\$10,000 \$12,000		\$10,000 \$12,000
8-07	DST / WL FORMATION TESTING	\$72,000		\$0
8-08	OPEN HOLE LOGS	\$16,000		\$16,000
8-09	CEMENT & CEMENTING SERVICES	\$6,000		\$6,000
8-10	DRILL BITS 1- 12 1/4", 3 - 7 7/8" Bits	\$20,000		\$20,000
8-10	POWER & FUEL	\$2,000		\$2,000
8-11	CASING CREWS, TOOLS & TONGS	#1.000		\$0
8-12	RENTAL TOOLS & EQUIPMENT	\$4,000		\$4,000
8-15 8-16	CORING & CORE ANALYSIS PUMP TRUCKS & SERVICES			\$0 \$0
8-17	ENGINEERING / SUPERVISION 10 days @ \$500/day	\$5,000		\$5,000
8-18	MUD LOGGING UNIT	\$5,000		\$5,000
8-18	DIRECTIONAL TOOLS & SERVICE			\$0
8-18	FISHING TOOLS & SERVICE			\$0
8-21	LAND DAMAGES / LEGAL WORK	\$5,000		\$5,000
9-01	OVERHEAD 10 days @ \$300/day	\$3,000		\$3,000
9-01	CONDUCTOR PIPE			\$0
9-01	INTERMEDIATE CASING		\$2,800	\$0
	SURFACE CASING 8-5/8" Surface Csg set @ 350' BRADENHEAD		\$4,500	\$2,800 \$4,500
	NON-CONT. TANG. EQUIP. DRLG.		Ψ 1 ,500	\$0
	NGENCIES 5%	\$9,100	\$400	\$9,500
	COST TO CASING POINT	\$190,600	\$7,700	\$198,300
TOTAL	PLUG & ABANDONMENT	\$2,000	\$1,700	\$2,000
TOTAL	COST IF DRY HOLE	\$192,600	\$7,700	\$200,300
TOTAL	COST II DITT TIOLE	ψ.:3 2 ,000	\$7,700	Ψ200,300
8-02	COMPLETION UNIT 6 days @ \$2250/day	\$13,500		\$13,500
8-03	CONTRACT LABOR	\$5,000		\$5,000
	INSTALLATION OF SERVICE EQUIPMENT		*	\$0
	TRUCKING	\$5,000		\$5,000
	FILL PITS & DRESS LOCATION	\$2,500		\$2,500
8-06	CHEMICAL PRODUCTS			\$0
8-06	WATER TRANSPORTS (DELIVERY & DISPOSAL)	\$5,000		\$5,000
8-07 8-09	CASED HOLE WIRELINE SERVICES CEMENT & CEMENTING SERVICES	\$3,000 \$17,000	Name of the last o	\$3,000
8-11	CACING CERTING TOOLS & TONGS	\$4,000		\$17,000 \$4,000
8-11	RENTAL TOOLS & EQUIPMENT	\$5,000		\$5,000
8-15	FRAC PIT / LINER	Service No.		\$0
8-15	FRAC TANK RENTALS & TANK TRUCKING (TO LOC.)	\$4,000		\$4,000
	PUMP TRUCKS & SERVICES			\$0
8-15	STIMULATION SERVICES Dakota Frac	\$60,000		\$60,000
8-16	ENGINEERING / SUPERVISION 6 days @ \$500/day	\$3,000		\$3.000
8-18	FISHING TOOLS & SERVICES			\$0
8-18 8-18	LEGAL WORK PLUG & ABANDONMENT			\$0 \$0
8-21	OVERHEAD 6 days @ \$300/day	\$1,800		\$1,800
	PRODUCTION CASING / LINER 4-1/2", 10.5# Csg @ 6850'	Ψ1,000	\$25,700	\$25,700
9-02	TUBING 2-3/8" Tbg @ 6750'		\$15,200	\$15,200
9-03	TUBINGHEAD / X-MAS TREE		\$6,500	\$6,500
9-04	ARTIFICIAL LIFT EQUIPMENT		\$2,500	\$2,500
9-04	SUBSURFACE EQUIPMENT / SALVABLE	-	* 10.000	\$0
9-05 9-05	SEPARATION EQUIPMENT / GAUGES TANKS / WALKS / STAIRWAYS		\$10,000 \$4,000	\$10.000 \$4,000
9-09	FLOWLINES & FITTINGS		\$4,000 \$4,500	\$4,000
	NON-CONT. TANG. EQUIP. COMPL. EFM/MTR RUN		\$8,000	\$8.000
	NGENCIES 5%	\$6,400	\$3,800	\$10,200
_	COST TO COMPLETE & EQUIP	\$135,200	\$80,200	\$215,400
				
TOTAL	WELL COST	\$325,800	\$87,900	\$413,700
	OPERATOR	ВУ	WI %	DATE
		BY	WI %	DATE
		BY	WI%	DATE
		BY	WI %	DATE
		BY	WI %	DATE
	COMPANY	BY	WI %	DATE

R 10 W





Federal "F" #2E
SAN JUAN COUNTY, NEW MEXICO

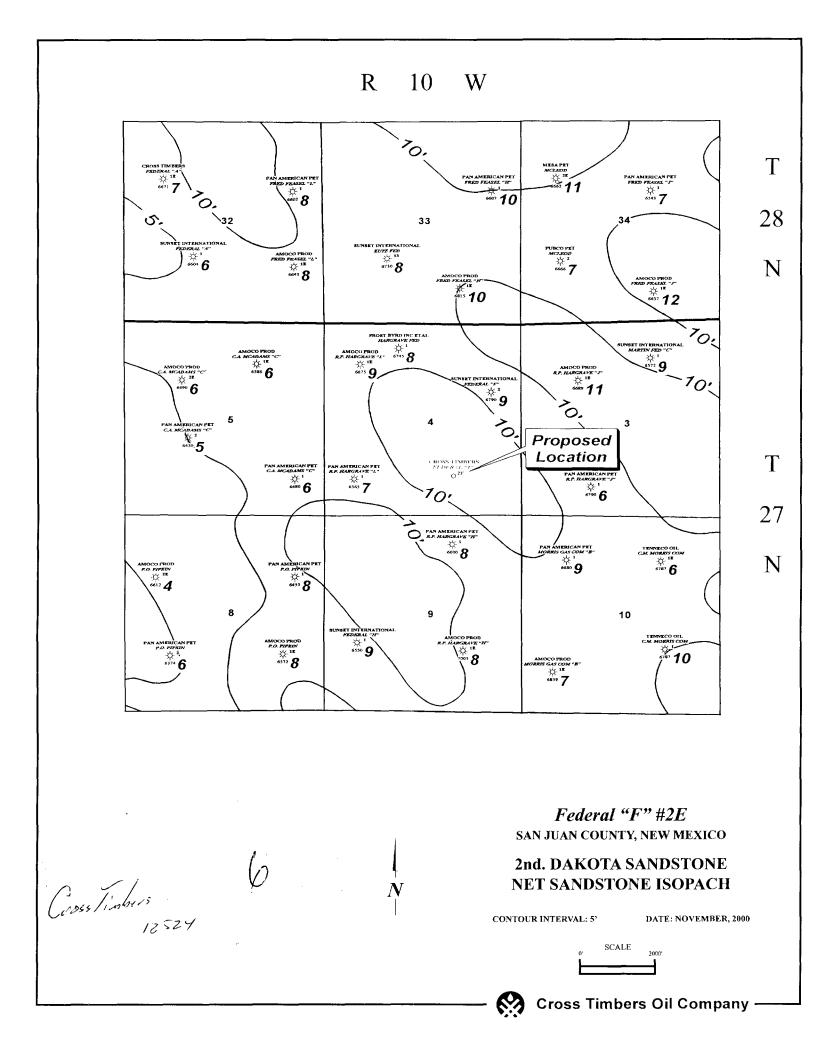
1st. DAKOTA SANDSTONE NET SANDSTONE ISOPACH

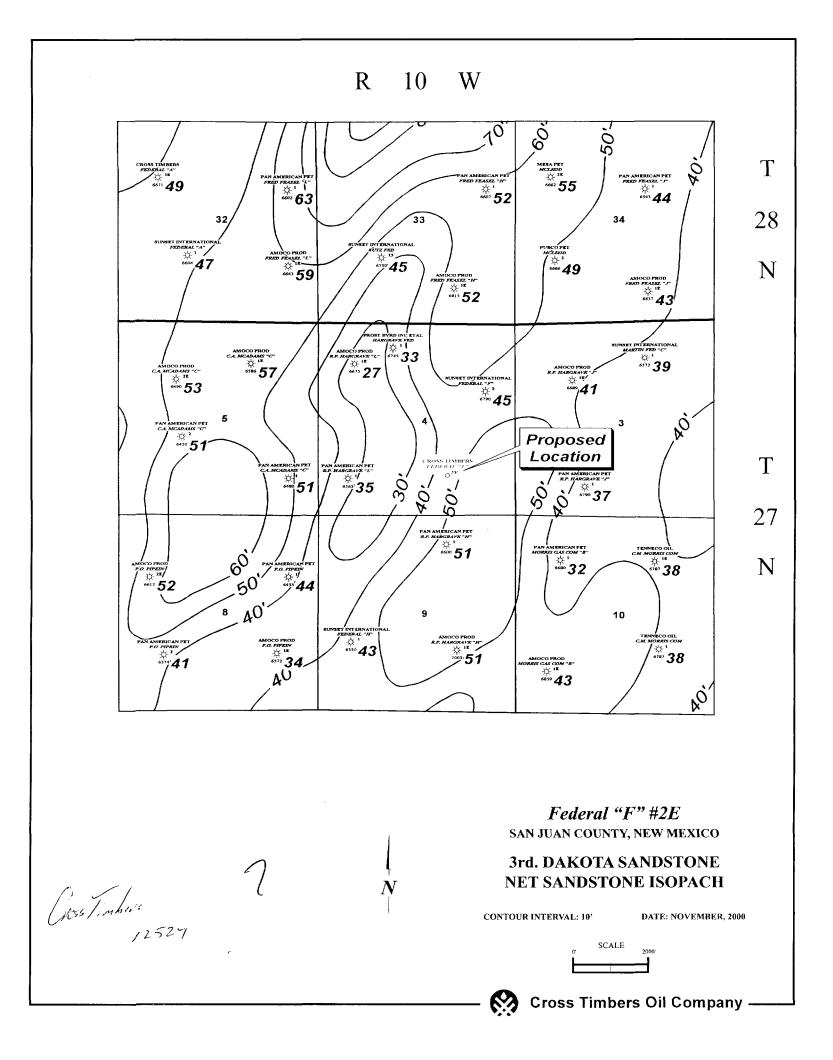
CONTOUR INTERVAL: 5'

DATE: NOVEMBER, 2000







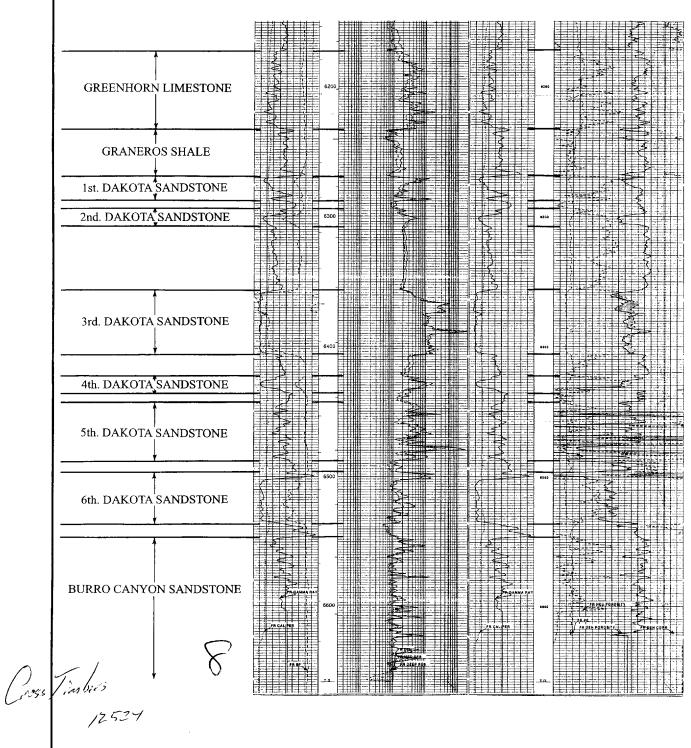


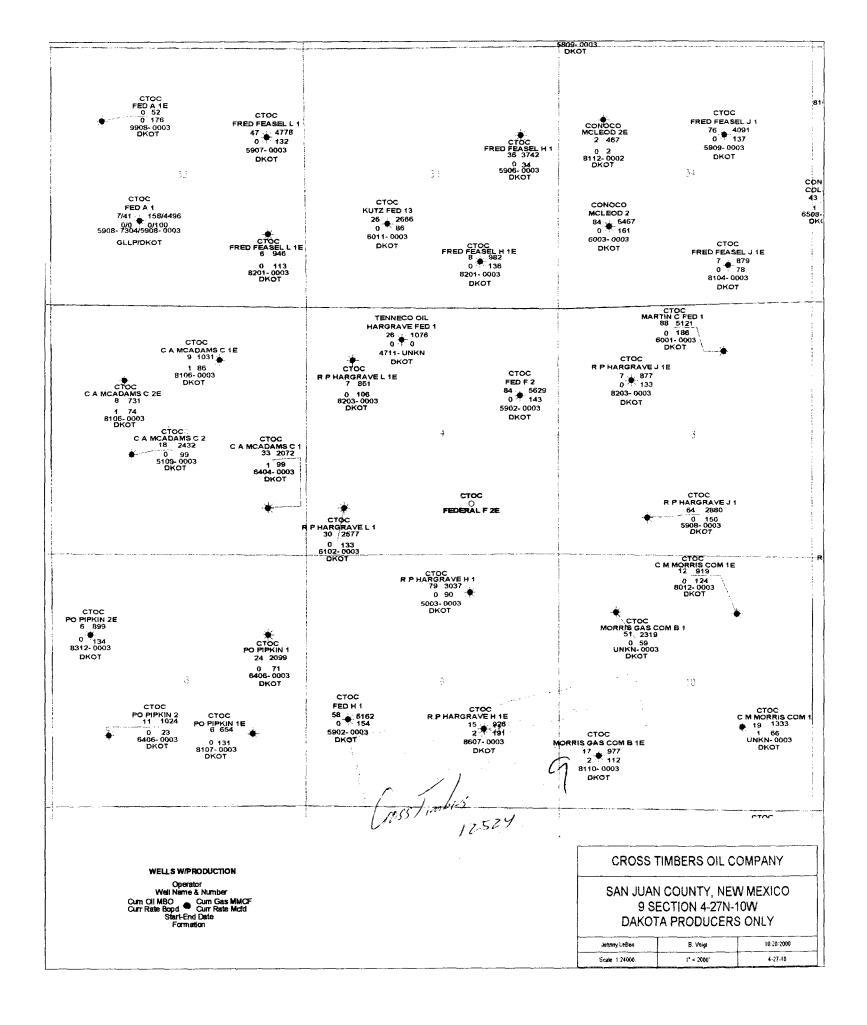
TYPE LOG

CROSS TIMBERS OIL COMPANY

Federal "A" #1E

1535' FNL & 1055' FWL Section 32 T28N - R10W San Juan County, New Mexico KB: 5,895'





BASIN DAKOTA SECTION 4-T27N-R10W 1st SAND

Fluid Properties

Gas Gravity	=	0.646	Gas Analysis
T_c	=	365°R	Standing's Correlation
$\mathbf{P_c}$	=	678 psi	Standing's Correlation
T_r	=	150 °F	Log Measurement
P_{ri}	=	2,400 psi	Public Data
$\mathbf{P_{ra}}$	=	400 psi	Estimate
$\mathrm{B_{gi}}$	=	$0.00611 \text{ ft}^3/\text{SCF}$	Standing & Katz's Correlation
$\mathrm{B}_{\mathrm{ga}}^{\mathrm{r}}$	=	0.04139 ft ³ /SCF	Standing & Katz's Correlation

Calculate Theoretical Recovery Factor:

$$RF_t = 1 - \frac{B_{gi}}{B_{ga}}$$

 $RF_i = 1 - \frac{0.00611}{0.04139}$

 $RF_i = 0.8524$ (fraction)

Rock Properties

Acre - Feet = 6,722 Planimetered from net sand thickness maps

Average Porosity = 0.09 (Fraction) \mathcal{O}_{dn} Avg. of offsets

Water Saturation = 0.44 (Fraction) Avg. of offsets

Basin Dakota 1st Sand Page 2 of 2

Calculate GIP, Theoretical and Actual EUR:

$$GIP = \frac{.04356Ah_{\varnothing}(1-S_{w})}{B_{gi}}MMCF$$

$$GIP = \frac{.04356(6,722)(0.09)(1-0.44)}{0.00611} MMCF$$

GIP = 2,415 MMCF

 $EUR_t = RF_t \times GIP$

 $EUR_t = (0.8524)(2,415)$

 $EUR_t = 2,059 \text{ MMCF}$

BASIN DAKOTA SECTION 4-T27N-R10W 2nd SAND

Fluid Properties

Gas Gravity	=	0.646	Gas Analysis
T _c	=	365°R	Standing's Correlation
P_c	=	678 psi	Standing's Correlation
T _r	=	150 °F	Log Measurement
P_{ri}	=	2,400 psi	Public Data
P _{ra}	=	400 psi	Estimate
B_{gi}	=	$0.00611 \text{ ft}^3/\text{SCF}$	Standing & Katz's Correlation
B_{ga}^{c}	=	0.04139 ft ³ /SCF	Standing & Katz's Correlation

Calculate Theoretical Recovery Factor:

$$RF_{t} = 1 - \frac{B_{gi}}{B_{ga}}$$

$$RF_t = 1 - \frac{0.00611}{0.04139}$$

$$RF_1 = 0.8524$$
 (fraction)

Rock Properties

Acre - Feet	=	5,533	Planimetered from net sand thickness maps
Average Porosity	=	0.15	(Fraction) \mathcal{O}_{dn} Avg. of offsets
Water Saturation	==	0.35	(Fraction) Avg. of offsets

Basin Dakota 2nd Sand Page 2 of 2

Calculate GIP, Theoretical and Actual EUR:

$$GIP = \frac{.04356Ah_{\theta}(1-S_{w})}{B_{gi}}MMCF$$

$$GIP = \frac{.04356(5,533)(0.15)(1-0.35)}{0.00611}MMCF$$

GIP = 3,846 MMCF

 $EUR_t = RF_t \times GIP$

 $EUR_t = (0.8524)(3,846)$

 $EUR_t = 3,278 \text{ MMCF}$

BASIN DAKOTA SECTION 4-T27N-R10W 3rd SAND

Fluid Properties

Gas Gravity T_c P_c T_r P_{ri} P_{ra} B_{gi} B_{ga}		0.646 365°R 678 psi 150 °F 2,400 psi 400 psi 0.00611 ft ³ /SCF 0.04139 ft ³ /SCF	Gas Analysis Standing's Correlation Standing's Correlation Log Measurement Public Data Estimate Standing & Katz's Correlation Standing & Katz's Correlation
Calculate Theoretical Recover	_	1739 IF/SCF	Standing & Katz's Correlation Standing & Katz's Correlation

Calculate Theoretical Recovery Factor:

$$RF_{i} = 1 - \frac{B_{gi}}{B_{ga}}$$

$$RF_{i} = 1 - \frac{0.00611}{0.04139}$$

$$RF_i = 0.8524$$
 (fraction)

Rock Properties

Acre - Feet			
Average Porosity	==	24,451	Planimetered from not
•	=	0.09	Planimetered from net sand thickness maps
Water Saturation	==	0.35	(Fraction) \mathcal{O}_{dn} Avg. of offsets
			(Fraction) Avg. of offsets

Basin Dakota 3rd Sand Page 2 of 2

Calculate GIP, Theoretical and Actual EUR:

$$GIP = \frac{.04356Ah_{\varnothing}(1-S_{w})}{B_{gi}}MMCF$$

$$GIP = \frac{.04356(24,451)(0.09)(1-0.35)}{0.00611}MMCF$$

GIP = 10,198 MMCF

 $EUR_t = RF_t \times GIP$

 $EUR_t = (0.8524)(10,198)$

 $EUR_t = 8,692$ MMCF