R 31 E

	5	H.E. Yates Hondo-Fed. TD 12030 1-4		E.Yates on Ken Fed. 0 12104 1-4	(Fa) Mesquire (Pennzoil) (Fed.) TD 13016		
	8	9 ₩ AF	RCO fon-Fed.	s well	10		T 18
	Enron (Holly Energy) Canadian Kenwood-Fed. TD 11785	PROPOSED O LOCATION FINA K-2646 TXO E-882 TXO Prod. Corp. Shugart-St. Com. TD 12000	AMOCO B-2023	ARCO V-2481	←Proposed 320 Acre Proration Unit		S
	Chevron Eddy-Fed. Com. TD 11795 Chevron Liftlefield-Fed. Com. TD 13165 1-EM	Chevron Keohane, eta To 11983	 n/-Fed. Com.		PAB Chevron FedLittlefield To 12985		
	Gulf No. Shugart Deep W. I. Unit TD 12000	, 1			nly the wells that penetrat e shown on this map.	ed the Atoka fm.	T N
REEO	PE EXAMINED CATANACH	25		COI	MPULSORY POOL PROD. NO. I SHUP EDDY COUNTY,	ING HEARI	NG FOR
	CONSERVATION DIVISION EXHIBIT NO O			PROPOSED	CASE # D LOCATION: 660 FNL & 1980 D DEPTH: 12,000	9861 FWL OF SECTION	

Exhibits 1 through 14 Complete set

CASE 9861 COMPULSORY POOLING HEARING TXO SHUGART STATE COM. "A" #1 WELL N/2 of SECTION 16, T-18-S, R-31-E, N.M.P.M., EDDY COUNTY, NEW MEXICO

I. Proposed Location: 660' FNL and 1980' FWL of Section 16

II. Proposed Depth: 12,000' or to a depth sufficient to test

the Morrow formation

III. Nature and Percentage of Ownership:

Working Interest Owner	Ownership (%) in N/2 - 320 Acres	Nature of Ownership
TXO Production Corp.	39.84375%	State Lease - HBP
Union Texas Petroleum Corp.	21.87500%	State Lease - HBP
Amoco Production Company	12.50000%	State Lease - HBP
Geodyne Resources, Inc.	7.03125%	State Lease - HBP
Fina Oil & Chemical Company	6.25000%	State Lease - HBP
Atlantic Richfield Company	12.50000%	State Lease - Exp. 12/1/92
TOTAL	100.00000%	

V. Formations to be Pooled:

All mineral interests within the Pennsylvanian formation underlying the N/2 of Section 16, Township 18 South, Range 31 East, forming a 320-acre gas spacing and proration unit for all formations and/or pools developed on 320-acre spacing, which presently includes but is not necessarily limited to the Undesignated North Shugart-Morrow Gas Pool and the North Shugart-Atoka Gas Pool.

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION

7X0
EXHIBIT NO. 2

CASE NO. 986 /

TXO PRODUCTION CORP. 900 WILCO BUILDING MIDLAND, TEXAS 79701 915/682-7992

May 22, 1989

Atlantic Richfield Company P. O. Box 1610 Midland, Texas 79702

Attn: Tim Derigo

HAND DELIVERED

RE: FORM OF OPERATING AGREEMENT
Shugart State Com. "A" #1
E/2 of Section 16, T-18-S, R-31-E,
N.M.P.M., Eddy County, New Mexico

Dear Mr. Derigo:

Pursuant to our recent conversation, enclosed herewith you will find the form of Operating Agreement proposed by TXO Production Corp. regarding the referenced well.

The Shugart State Com. "A" #1 well was proposed to ARCO Exploration Company by that certain letter dated May 19, 1989. All references to ARCO Exploration Company in said letter should be substituted with Atlantic Richfield Company.

Please let me know if you have any comments or questions.

Sincerely,

Richard H. Coats Landman

RHC/1c

Enclosure

BEFORE EXAMINER CATANACH				
OIL CONSERVATION DIVISION				
TXO EXHIBIT NO. 3				
case no. <u>986 (</u>				

TXO PRODUCTION CORP. 900 WILCO BUILDING MIDLAND, TEXAS 79701 915/682-7992

May 19, 1989

HAND DELIVERED

ARCO Exploration Co. P. O. Box 1610 Midland, TX 79702

Attn: Tim Derigo

Re: Well Proposal
E/2 of Section 16,
T-18-S, R-31-E
N.M.P.M., Eddy
County, New Mexico

Gentlemen:

TXO Production Corp. ("TXO") is hereby proposing to drill the Shugart State Com "A" #1 well at an unorthodox location of 660' FNL and 1980' FEL of Section 16, T-18-S, R-31-E, N.M.P.M., Eddy County, New Mexico. Said well will be drilled to a depth of approximately 12,000 feet or a depth sufficient to test the Morrow formation, whichever is the lesser.

Based on an investigation of the State Land Office records, ARCO Exploration Company ("ARCO") owns all of the leasehold rights in the NE/4 NE/4 of Section 16 by virtue of State of New Mexico Lease V-2481. The proposed proration unit for said well shall be the E/2 of Section 16 which would give ARCO a .1250000 working interest. An Authority for Expenditure is attached hereto for your review and execution in the event ARCO elects to participate. Additionally, the proposed form of Operating Agreement will be sent to you for review in the near future.

In the event ARCO elects not to participate in the well proposed herein, TXO hereby requests a farmout of the State of New Mexico Lease V-2481, subject to the following general terms and conditions:

- 1. Prior to October 1, 1989, TXO shall use its best efforts to commence or cause to be commenced the Shugart State Com "A" #1 at the location described herein, then continue the drilling thereof down to a depth of approximately 12,000 feet or to a depth sufficient to test the Morrow formation, whichever is the lesser.
- 2. In the event said well is completed as a producer, TXO would earn an assignment covering all of ARCO's leasehold interest from surface to the stratigraphic equivalent of 100' below total depth drilled.

ARCO Exploration Co May 19, 1989 Page Two

3. In the acreage earned by TXO, ARCO would reserve an overriding royalty equal to the difference between 25% and the sum of lease burdens of record to the extent that TXO shall be delivered a 75% net revenue interest. At payout of the test well, ARCO shall have the option to convert its reserved overriding royalty to a 25% working interest. Subsequent operations shall be conducted pursuant to the terms and conditions of a mutually acceptable JOA. All interests presented herein shall be subject to proportionate reduction.

A prompt response to this request would be greatly appreciated. Please let me know if you have any questions or if you would like to discuss this proposal in greater detail.

Sincerely,

Richard H. Coats Landman

RHC/sf

ТЖО

PRODUCTION CORP.

415 WEST WALL, SUITE 900 MIDLAND, TEXAS 79701-4468

(915) 682-7992

December 5, 1989

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION

TKO EXHIBIT NO. —

Atlantic Richfield Company P. O. Box 1610 Midland, Texas 79702

Attn: Tim Derigo

HAND DELIVERED

RE: WELL PROPOSAL

Shugart State Com. "A" #1 Well N/2 of Section 16, T-18-S, R-31-E, N.M.P.M., Eddy County, New Mexico

Gentlemen:

On May 19, 1989, TXO Production Corp. ("TXO") proposed to Atlantic Richfield Company ("ARCO") to drill the Shugart State Com. "A" #1 well at an unorthodox location of 660' FNL and 1980' FEL of Section 16, T-18-S, R-31-E, N.M.P.M., Eddy County, New Mexico. This well was to have been drilled to a depth of approximately 12,000' to test the Morrow formation, however, ARCO objected to the unorthodox location. The Communitization Agreement for the existing Shugart State Com. #1 well located in the SE/4 SW/4 of Section 16 was subsequently amended from the W/2 of Section 16 to the S/2 of Section 16, T-18-S, R-31-E, N.M.P.M., Eddy County, New Mexico.

TXO is now hereby proposing to ARCO to drill the Shugart State Com. "A" #1 well at an orthodox location of 660' FNL and 1980' FWL of Section 16, T-18-S, R-31-E, N.M.P.M., Eddy County, New Mexico. Said well will be drilled to a depth of approximately 12,000' or to a depth sufficient to test the Morrow formation, whichever is the lesser.

ARCO owns all of the leasehold rights in the NE/4 NE/4 of Section 16 by virtue of State of New Mexico Lease V-2481. The proposed proration unit for said well shall be the N/2 of Section 16 which would give ARCO a .1250000 working interest. An Authority for Expenditure ("AFE") and two (2) copies of an Operating Agreement are enclosed herewith for your review and execution in the event ARCO elects to participate in said well. Also enclosed you will find three (3) copies of a Communitization Agreement which has been executed in counterpart by the parties therein. Two (2) copies of this agreement should be executed and returned to my attention for further handling.

In the event ARCO elects not to participate in the well proposed herein, TXO hereby requests a farmout of the State of New Mexico Lease V-2481, subject to the following general terms and conditions:

- 1. Prior to March 1, 1990, TXO shall use its best efforts to commence or cause to be commenced the Shugart State Com. "A" #1 at the location described herein, then continue the drilling thereof down to a depth of approximately 12,000 feet or to a depth sufficient to test the Morrow formation. whichever is the lesser.
- 2. In the event said well is completed as a producer, TXO would earn an assignment covering all of ARCO's leasehold interest from surface to the stratigraphic equivalent of 100' below total depth drilled.
- 3. In the acreage earned by TXO, ARCO would reserve an overriding royalty equal to the difference between 25% and the sum of lease burdens of record to the extent that TXO shall be delivered a 75% net revenue interest. At payout of the test well, ARCO shall have the option to convert its reserved overriding royalty to a 25% working interest. Subsequent operations shall be conducted pursuant to the terms and conditions of a mutually acceptable JOA. All interests presented herein shall be subject to proportionate reduction.

A prompt response to this request would be greatly appreciated. Please let me know if you have any questions or if you would like to discuss this proposal in greater detail.

Sincerely,

TXO PRODUCTION CORP.

Richard H. Coats

Landman

RHC/1c

Enclosures

TXO PRODUCTION CORP. FORM 24 Rev. 10/85

THORITY FOR EXPENDITURE DRILLING WELL - TXO AND OUTSIDE OPERATED Date November 1, 1989

STRICT West Texas	WELL NAME_	Shugart State Com "A" WELL NO.	1
PERATER OV TVO Production Core		OCATION 660' FNL & 1980' FWL Sec. 6	SERTU 12.00
LD Shugart North (Morrow)	C	OUNTYEddy STATE!	New Mexico
EPARED BYTim GoudeauS	UBMITTED BY _Tim !	OUNTY Eddy STATE DISTRICT	
			
EXPERDITURE DESCRIPTION	ZUANTITI	DESCRIPTION	E31. CUST
DRILLING	1600'	13-3/8", 48#, H-40, ST&C	16,500
urface & Intermediate Casing	45001	8-5/8", 24# & 28#, K-55&S-80, ST&C	70,000
asinghead			11,800
ocation Work		Stake, loc./roads, damages, pit liner	26,900
ootage/Turnkey Driling	11,800'	\$17/foot	204,000
aywork Drilling	3 days	\$3900/day	11,700
ig Support			6,000
its	16 days	\$500/day	22 000
upervision	46 days	\$500/day	23,000
rilling Overhead	46 days	\$255/day Mud	11,700
lud & Chemicals		Cmt surf./intermed./casing crew	30,000
ementing Services & Supplies		Mud logger, OH logs, temp svys.	14,600
esting & Logging		Rotating head, fasline, generator/fuel	23,100 5,200
entals		Welder, P&A cmt, fence pits, FL, trkg,et	
Other IDC Other Equipment		retuer, rear earc, rence pits, ri, ting, et	11,700
egal			2,000
egal Ion-Operated Intangible Drilling			2,000
TOTAL DRILLIN	ig	<u> </u>	468,200
COMPLETION		1	400,200
roduction Casing	11,800'	4-1/2", 11.6#, N-80&S-95, Butt/LT&C	102,700
ubing	11,700'	2-3/8", 4.7#, N-80, EUE	50,200
Vellhead Equipment			12,000
ubsurface Equipment		Packer, SN & subs	3,600
Supervision	10 days	\$500/day	5,000
Aud & Chemicals		KCL wtr.	2,000
esting, Logging & Perforating		Perf, log, temp svy., 4-pt test	- 11,300
timulation		Acidize	4,000
Completion Overhead	10 days	\$255/day	2,600
lentais .		BOP, test tank	1,400
ervice Rig	10 days	\$1200/day	12,000
Cementing Services & Supplies		Cmt prod string, csg crew	12,300
Other Completion IDC		Welder, FL, misc trkg, misc. labor	4,300
Ion-Operated Intangible Completion			
TOTAL COMPLETIC	ON	<u> </u>	223,400
PRODUCTION EQUIPMENT			
Pumping Unit/Submersible Pump		<u></u>	
ngine & Motor			
Rods -			<u> </u>
low Lines		Flowline, vlvs, fitting, nipples, etc.	11,000
feters		Meter hsg, run, trkg, installation	6,000
nstallation/Overhead			16,600
Storage		2-oil/2-wtr tanks, pads, wlkwys, trkg.	15,500
Separation & Treating		Stack pack, pads, trkg.	8,400
Other Equipment		Labor, chemical pump, anchors, fences, c	i mm
TOTAL PRODUCTION EQUIPMENT	NT		65,100
		TOTAL	756,700
OWNER'S NAME AND ADDRESS (New Addresses Only)	BILLING INTEREST (7 Decimals)	DATE APPROVED: (this space of APPROVED)	for approval only)
Atlantic Richfield Company P. O. Box 1610 Midland Tayra 70702	.1250000	OOOO ATLANTIC RICHFIELD	
Midland, Texas 79702			
		BY:	
		ITS:	

Company No. _____ AFE Type No. _____ AFE No. ____ Property No. _____ Acq. Name/Code: _____

		Drilling Rate/Mo.	Producing Rate/Mo.
Earnst & Young	Average	\$6,134.00	\$566.00
1989 Not get published	Medium	\$5,000.00	\$450.00
Burton Flat Federal #1		\$6,000.00	\$600.00
Shugart State Com. #1 (Under May 1978 JOA)		\$3,940.40	\$666.68
Shugart State Com. "A" #1 (Under May 1978 JOA)		\$3,940.40	\$666.68
Shugart State Com. "A" #1 (Under November 1989 JOA)		\$5,960.00	\$595.00

1980 x 199.01% = \$3,940.40

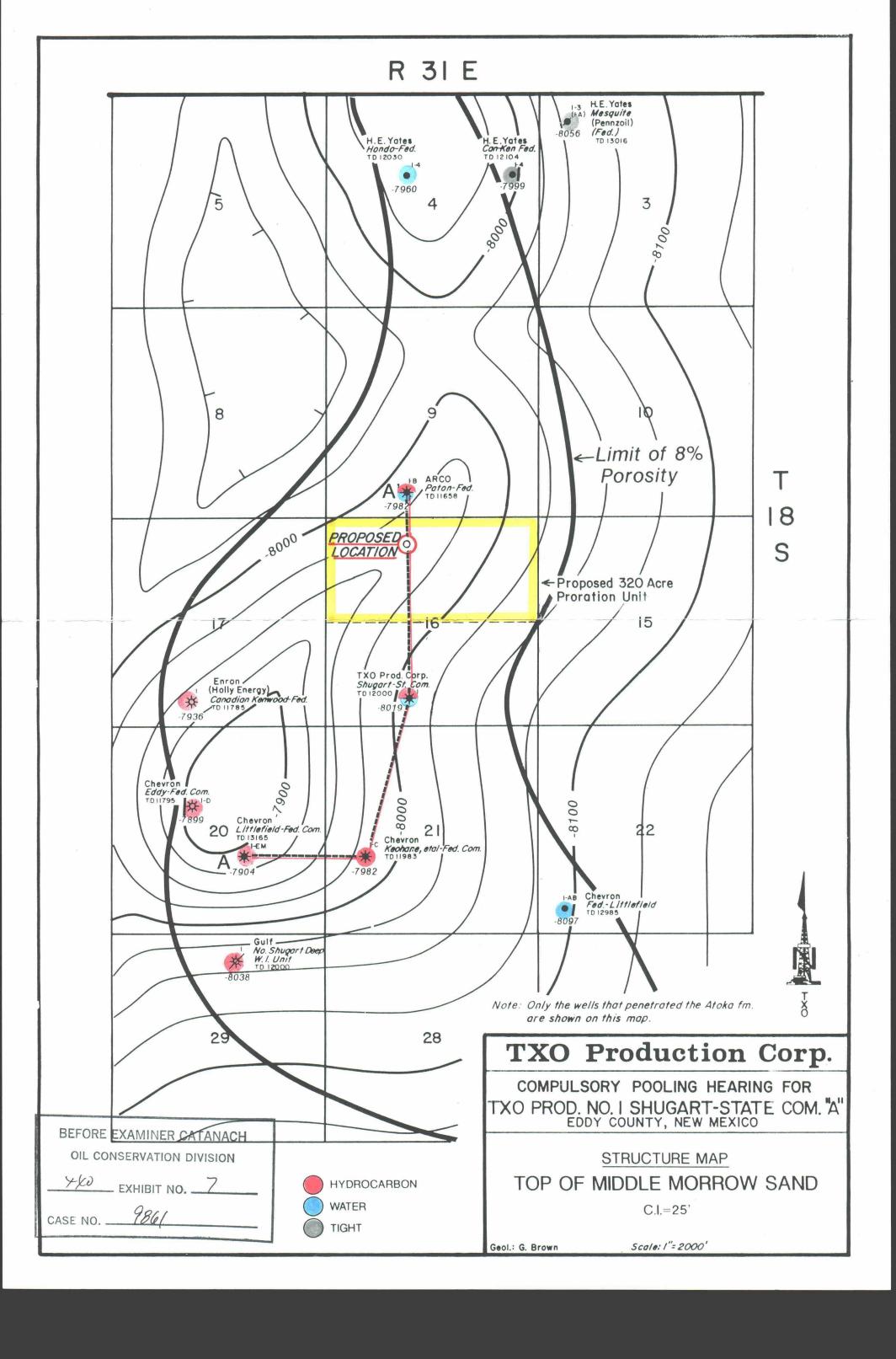
335 x 199.01% = \$666.68

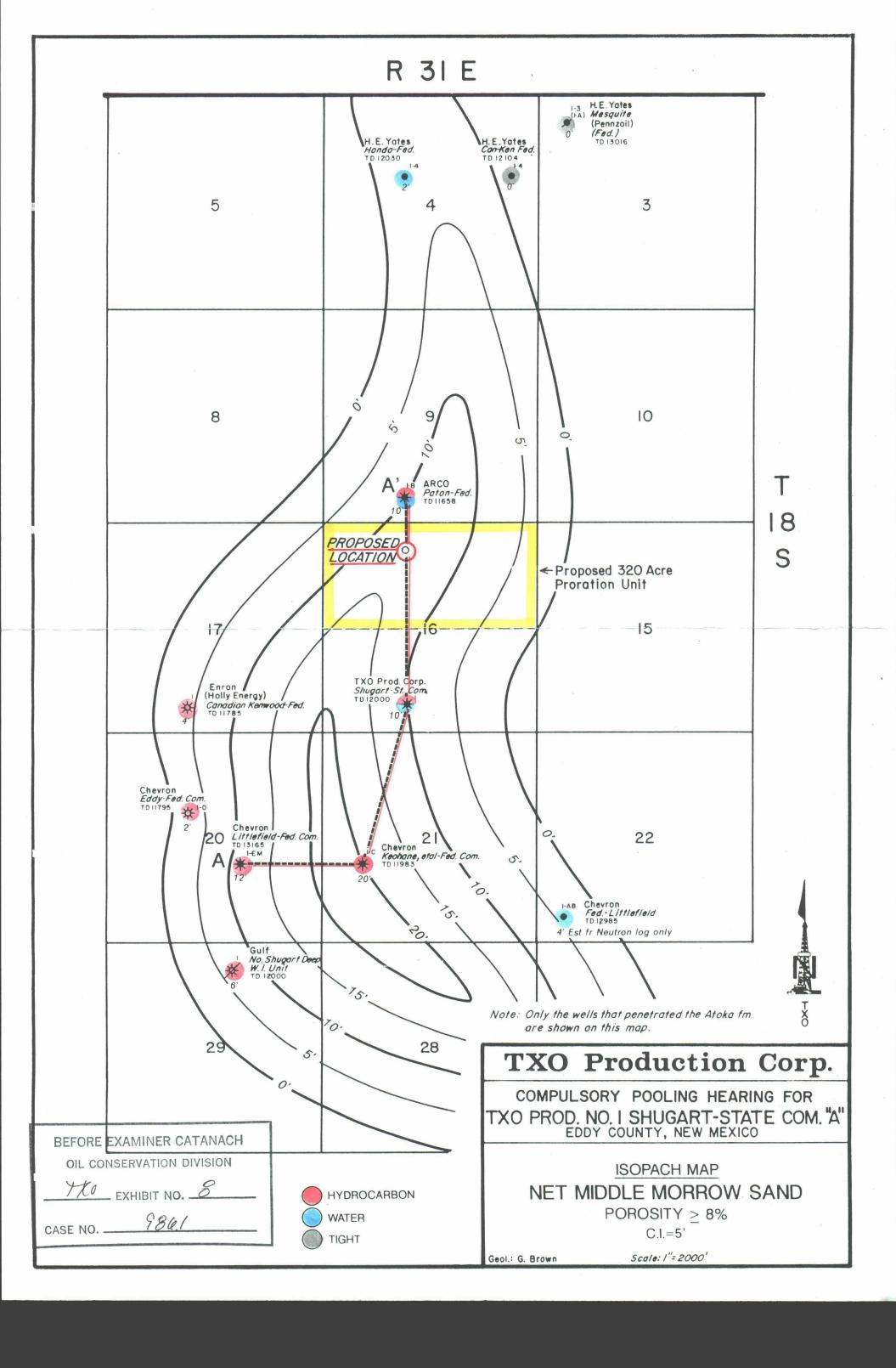
BEFORE FXAMINER CATANACH

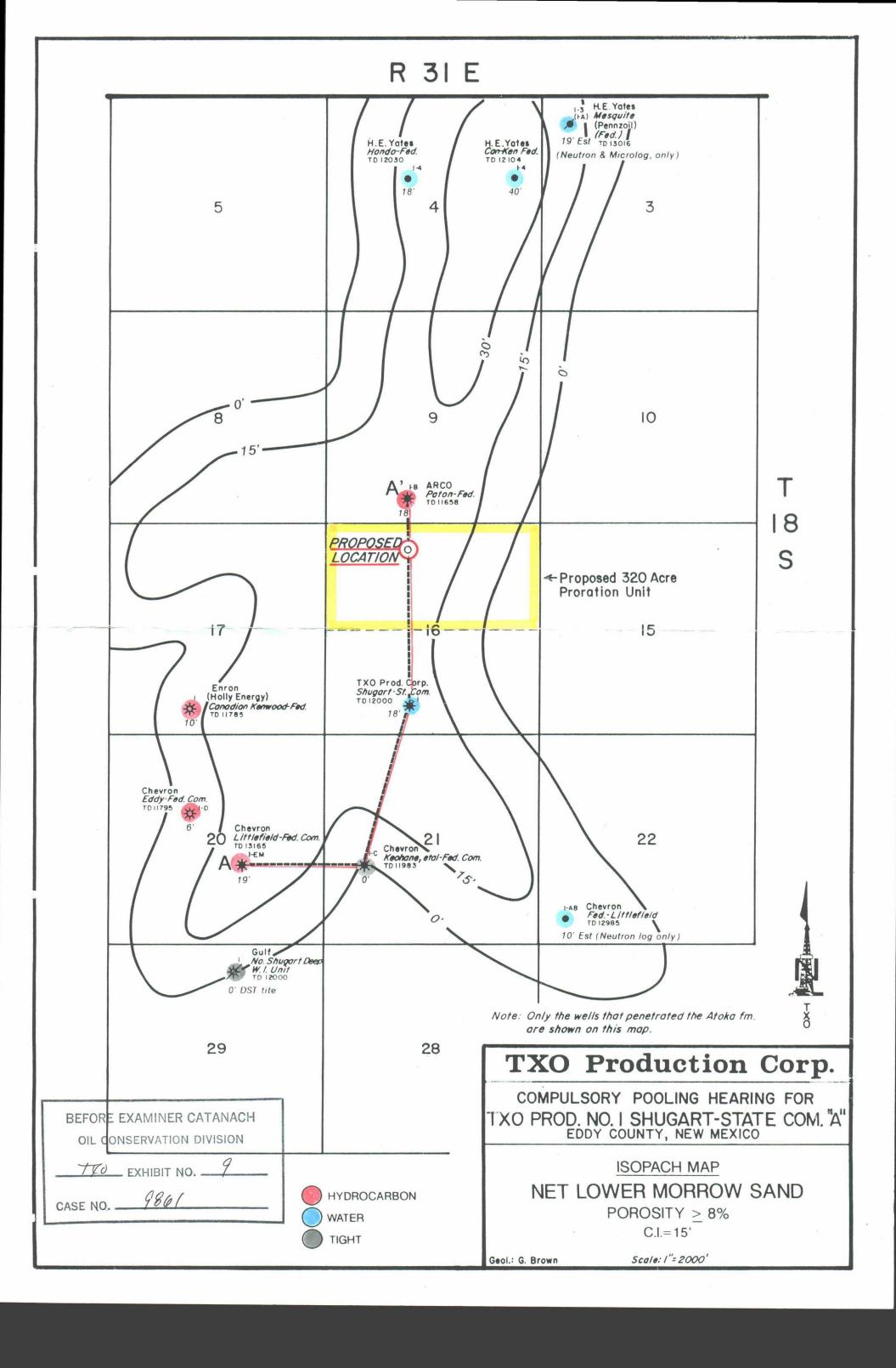
OIL CONSTRUCTION DEVICEN

TWO EXHIBIT NO. 5

CASE NO. 9861







R 31 E 1-3 H.E. Yates (FA) Mesquite (Pennzoil) Bone Spring (7723-8258) (Fed.) Bone Spring (7723-82 TD 13016 1000BO+1MMCFG H.E. Yates Hondo-Fed. TD 12030 H.E.Yates Con-Ken Fed. TD 12104 BEFORE EXAMINER CATANACH Strawn (11,001-004) Inactive 13,999BO+117MMCFG OIL CONSERVATION DIVISION P.&A 1072 Bone Spring (8080-8356) Morrow (11,814-820) EXHIBIT NO. 5 6 94,888BO+116MMCFG 4 3 IP CAOF 3013MCFGPD 9-84 22BOPD No Production Reported 9861 CASE NO Bone Spring (8165-8391) 48,153BO+66MMCFG 17BOPD 10 9 8 Morrow (11,697-766) 422MMCFG+10,762BC 1303MCFGPD+22BCPD Paton-Fed. PROPOSED LOCATION ← Proposed 320 Acre **Proration Unit** 15 Morrow (11,706-863) 3251MMCFG+98,190BC+609MBW Morrow (11,592-689) 763MCFGPD+17BCPD+65BWPD 520MMCFG+8070BC TXO Prod. Corp. Inactive Enron (Holly Energy) Shugart-St. Com. Canadian Kenwood-Fed. TD 11785 Atoka (11,114-144) 601MMCFG+7346BC Chevron Morrow (11,551-640)
Eddy-Fed. Com. 103MMCFG+551BC
TD11795 Inactive 20 Chevron
Littlefield-Fed. Com.
TD 13165 22 21 Chevron
Keohane, etal-Fed. Com.
TD 11983 Atoka (11,102-120) Delaware (4970-5010) Atoka (11,174-184) 3110MMCFG+125,870BC 423,369BO+324MMCFG ? MCFGPD 2968MMCFG+67,086BC 30BOPD Marrow (11,567-735) 3992MMCFG+77,991BC+88MBW 450MCFGPD Chevron
Fed.-Littlefield
TD 12985 Morrow (11,572-680) 43MMCFG+952BC 638MCFGPD+8BCPD+65BWPD Inactive Gulf No. Shugart Deep W. I. Unit TD 12000 Morrow (11,679-884) 636MMCFG+1122BC Inactive Note: Only the wells that penetrated the Atoka fm. are shown on this map. 29 28 TXO Production Corp. COMPULSORY POOLING HEARING FOR TXO PROD. NO. I SHUGART-STATE COM. "A" **DELAWARE PRODUCER BONE SPRING PRODUCER** PRODUCTION MAP Producing Formation (Interval) Cumlative Production to 10-1-89 STRAWN PRODUCER Avg. Daily Production for 9-89 ATOKA PRODUCER MORROW PRODUCER Scale: 1"= 2000" Geol.: G. Brown