Union Texas Petroleum

375 U.S. Highway 64
Farmington, New Mexico 87401
Telephone (505) 325-3587

September 8, 1989

Mr. William LeMay
N. M. Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504

Re: Pierce A #2E
1830' FNL & 860' FWL
Section 34, T29N-R10W

Dear Mr. LeMay:

Union Texas petroleum is applying for a downhole commingling order for the referenced well in the Basin Dakota and Armenta Gallup fields. The ownership of the zones to be commingled is common. The Bureau of Land Management and the offset operators indicated in Exhibits A and B will receive notification of this proposed downhole commingling.

The subject well was completed on June 5, 1981. The Gallup formation was fracture stimulated with 122,500# sand in 116,000 gallons 75 quality nitrogen foam in two stages. The Dakota formation was fracture stimulated with 126,000# sand in 78,000 gallons 30# cross-linked gel. The well has produced 179 MMCFG and 16 MBO from the Gallup formation, and 144 MMCFG and 1 MBO from the Dakota formation to date. Current production is 15 MMCFD and zero oil from the Gallup, and 65 MCFD and zero oil from the Dakota. The poor production of this well is typical of the Armenta Gallup and Basin Dakota formations in this area. Two tubing strings are utilized. The Dakota is flowed from below a packer and the Gallup is rod pumped. The Gallup rod pump has been stuck since mid 1989.

Continued production of this marginal well is dependent on few or no additional expenses. The mechanical problem of the Gallup zone will require the expense of a rig to repair and can not be justified unless the two zones can be commingled. Commingling both zones is the optimum way to utilize the existing wellbore. The proposed commingling will result in the continued production of the Gallup formation and recovery of additional hydrocarbons from both the Gallup and Dakota formations, thereby preventing waste. This procedure will not violate correlative rights. Commingling will result in a more efficient operation by helping to lift the small amount of Gallup liquids without the use of a rod pump currently utilized.

Currently neither the Gallup or the Dakota zones are lifting fluids. A Gallup fluid sample was taken from a south offset, the Zachry #32, and a Dakota fluid sample was taken from a southwest offset, the Zachry #16E.

The attached fluid analysis from these wells indicates the total value of the crude will not be reduced by commingling. The reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed downhole commingling. The calculated bottom hole pressure relative to sea level, based on surface pressure and fluid level measurements, is 282 psi in the Gallup and 560 psi in the Dakota, and within the limits of Rule 303-C, Section 1 (b), Part (6). The fluids from each zone are compatible and no precipitates or emulsions will be formed as a result of commingling to damage either reservoir. Current flow tests of 0 BOPD and 0 BWPD from the Gallup and a trace of water from the Dakota, and anticipated flow rates after commingling of 1 BOPD and 0 water from each zone, indicate the daily production will not exceed the limit of Rule 303-C, Section 1 (a), Parts (1) and (3).

The Aztec District Office will be notified anytime the commingled well is shut in for seven consecutive days. To allocate the commingled production to each of the zones, Union Texas Petroleum will consult with the supervisor of the Aztec District Office and determine an allocation formula for each of the producing zones.

Included with this letter are two plats showing ownership of offsetting leases, a production curve of each zone, Form C-116 (GOR test), Fluid Analysis Report, and a wellbore diagram showing the existing and proposed downhole equipment of the subject well.

Your truly,

S. G. Katirgis

S. G. Katirgis
Production Engineer

SGK:lmg
attachments

cc: Frank Chavez, Aztec OCD
W. K. Cooper
S. J. Hunter

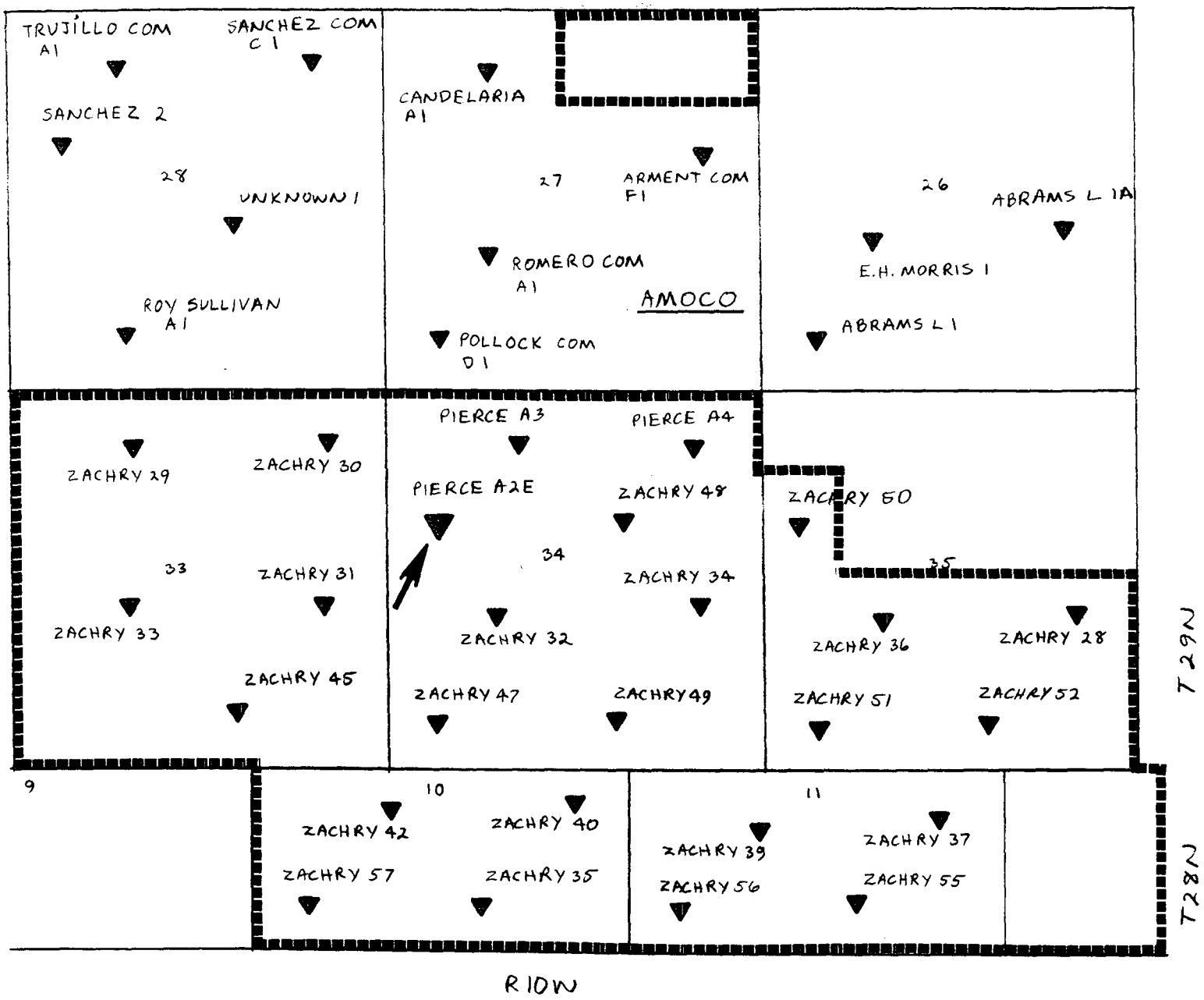


EXHIBIT A - OFFSET GALLUP WELLS

UNION TEXAS PETROLEUM ACREAGE

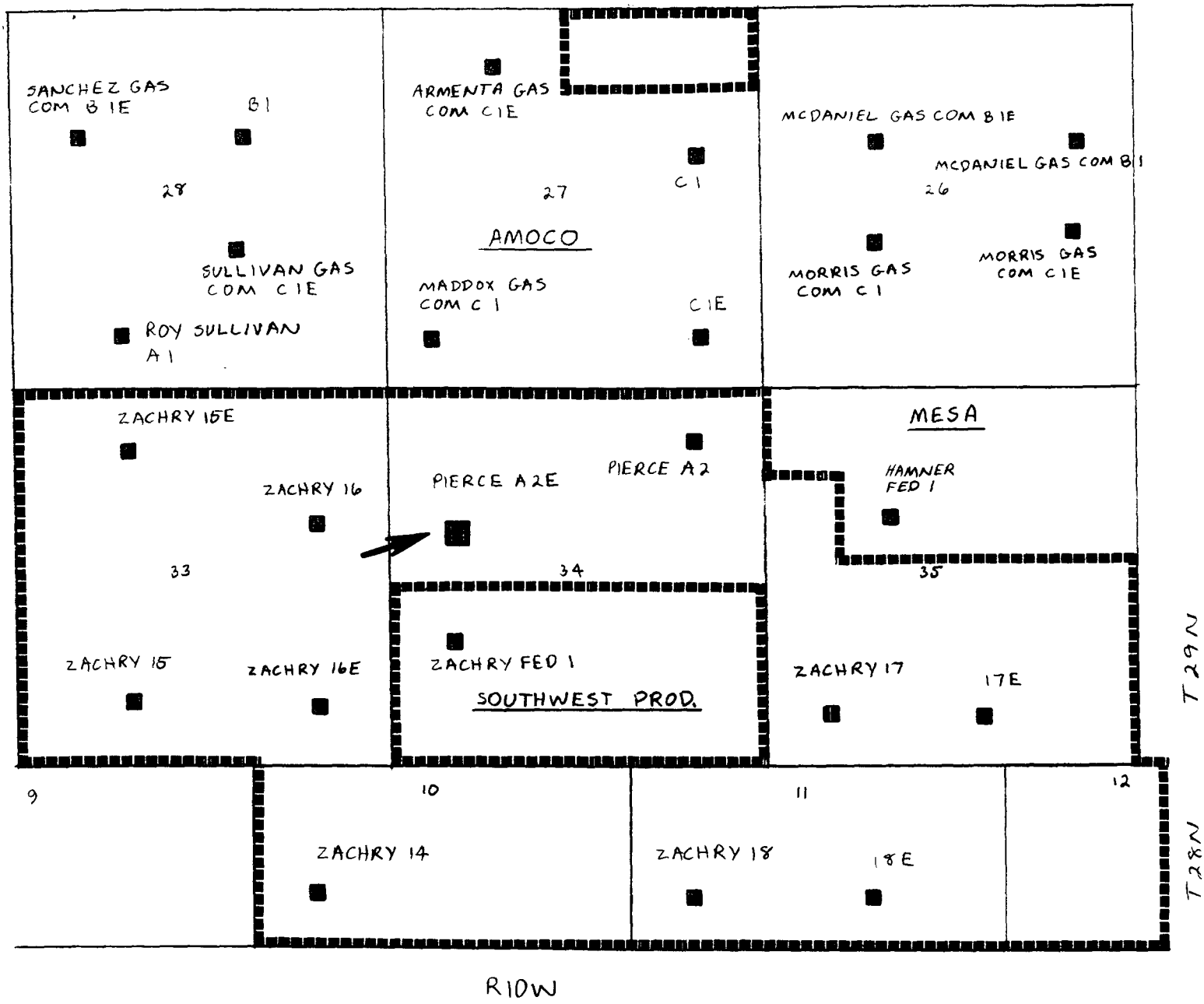


EXHIBIT B - OFFSET DAKOTA WELLS

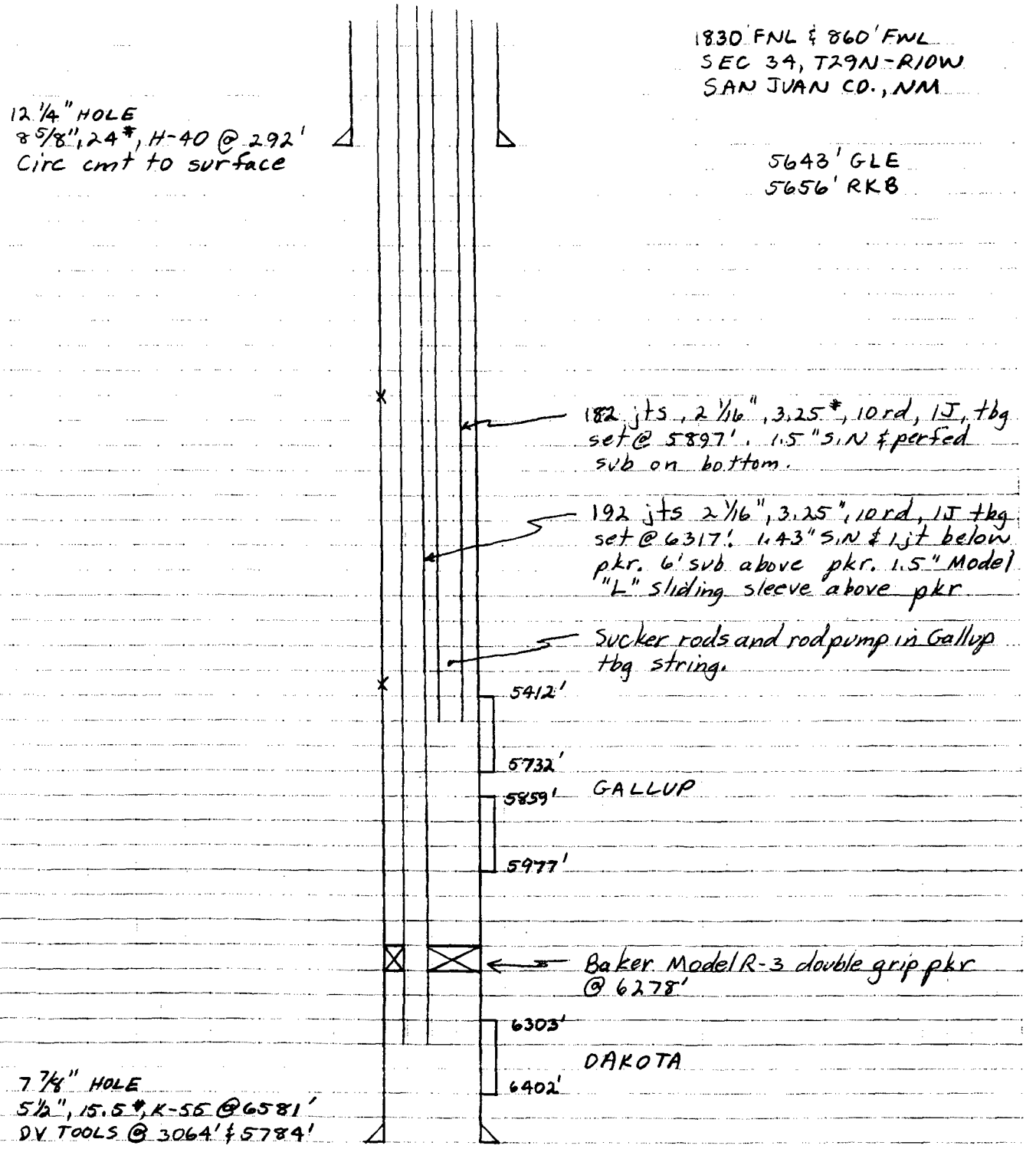
UNION TEXAS PETROLEUM ACREAGE

Union Texas Petroleum

SUBJECT: PIERCE A #2E
EXISTING Wellbore Diagram

BY: SGK DATE: 9/7/89

PAGE ____ OF ____



Circ mud during 1ST & 3rd cmt stage. 2nd stage not cmted. DV tool malfunction.

TD = 6585'
PBTD = 6542'

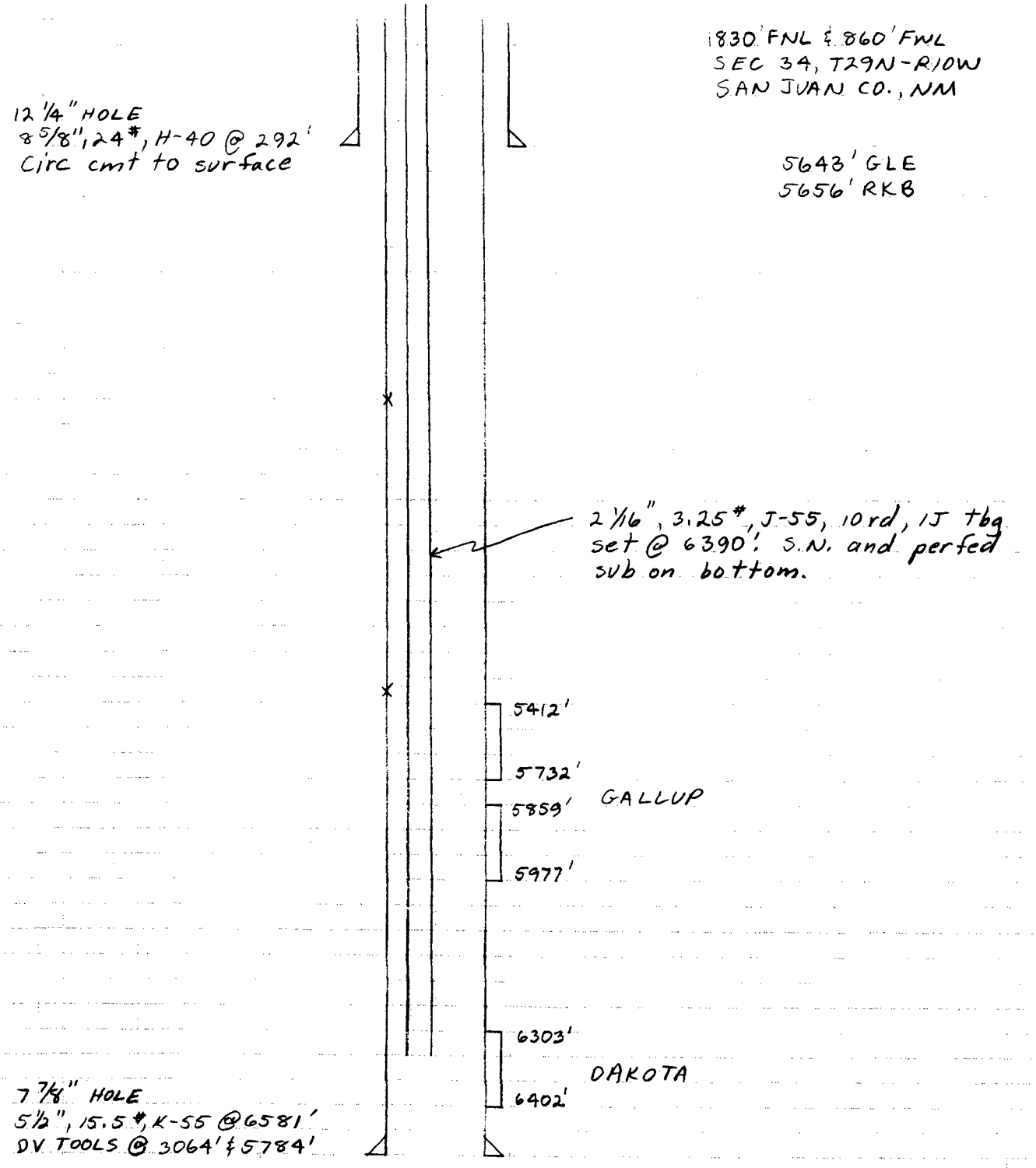
Union Texas Petroleum

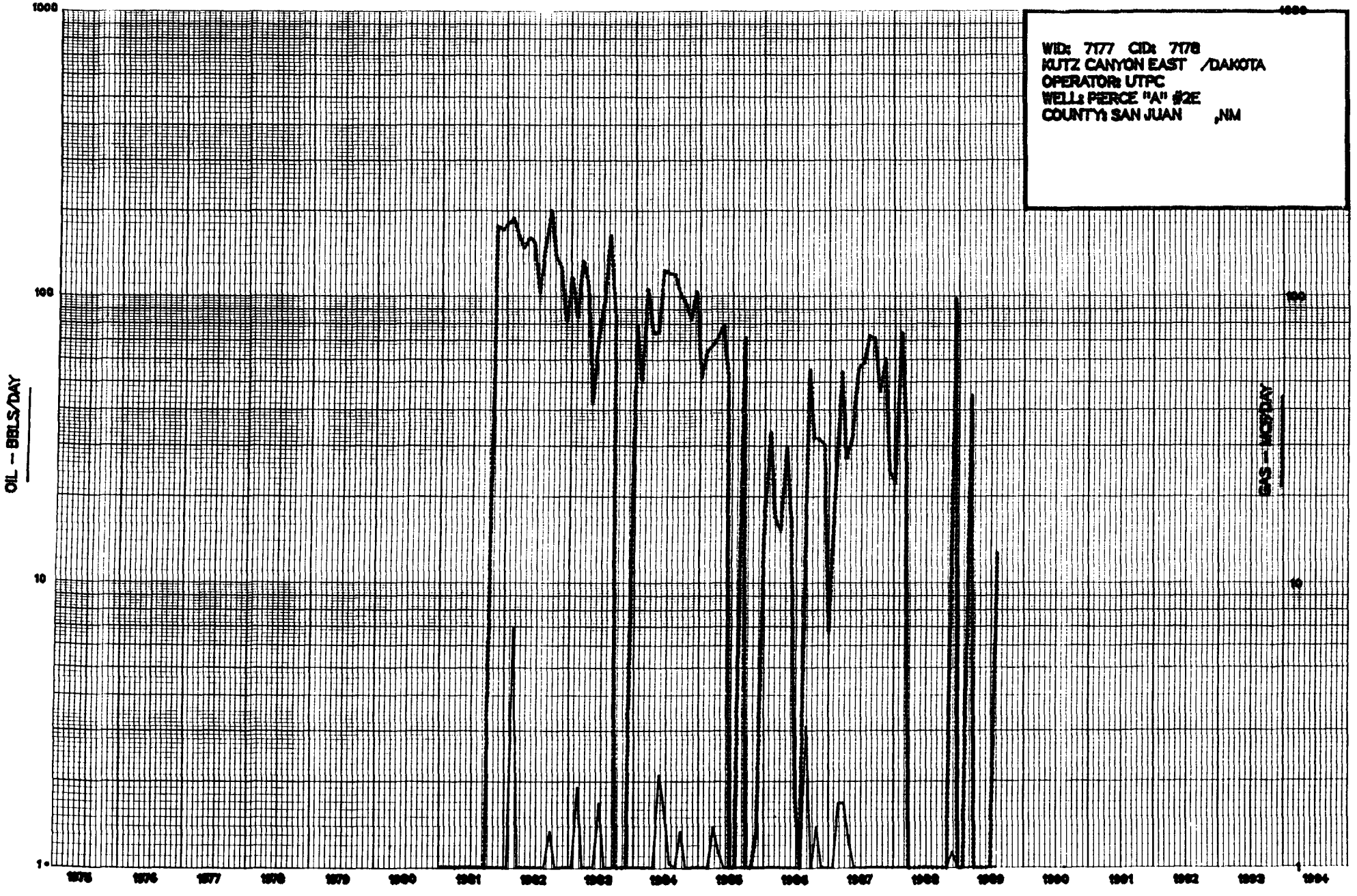
SUBJECT: PIERCE A #2E

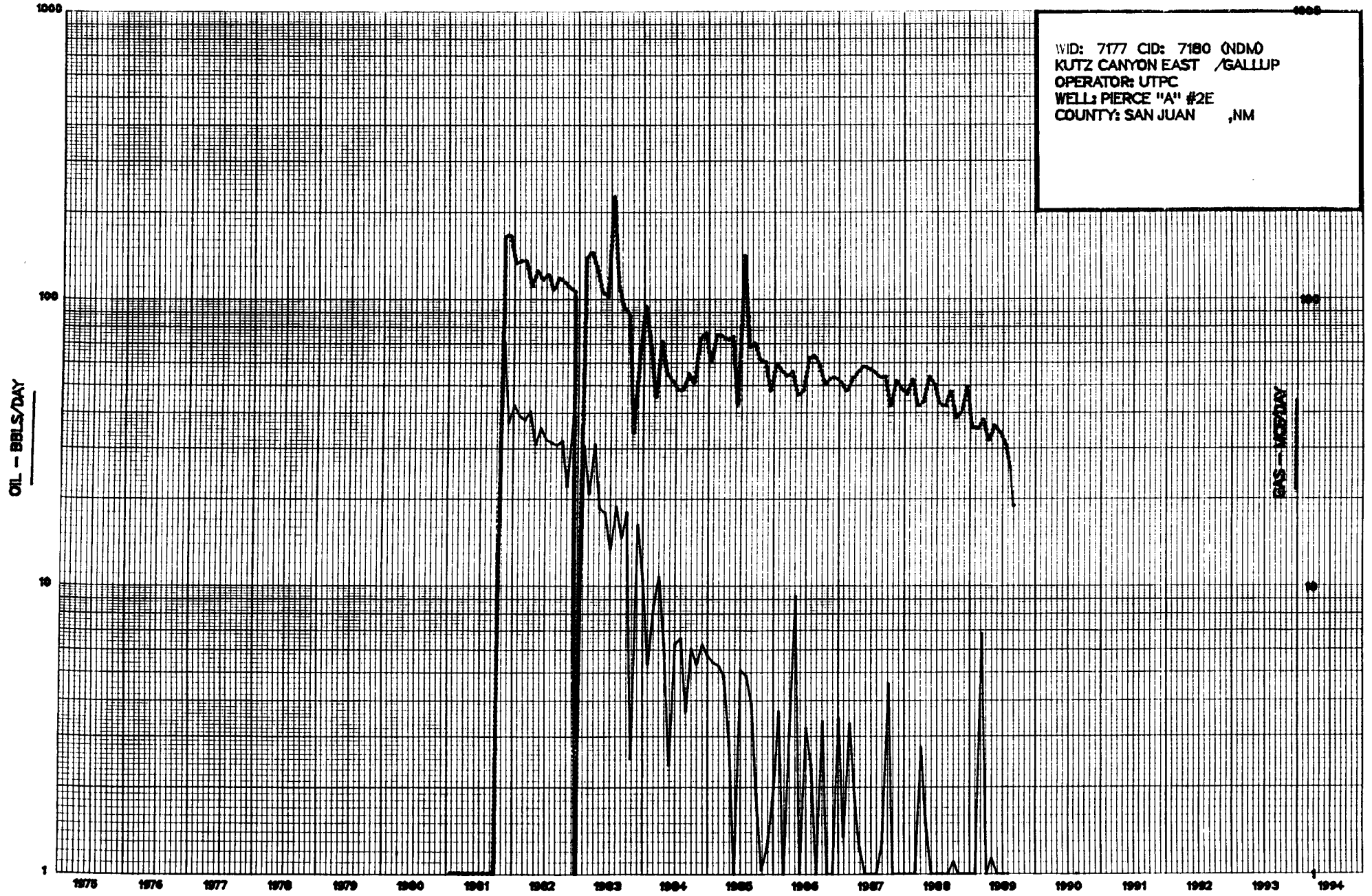
COMMINGLED Wellbore Diagram

BY: SGK DATE: 9/7/89

PAGE ____ OF ____




WID: 7177 CID: 7178
KUTZ CANYON EAST /DAKOTA
OPERATOR: UTPC
WELL: PIERCE "A" #2E
COUNTY: SAN JUAN ,NM
OIL - BBLS/DAY
GAS - MCF/DAY
1000
100
10
1
1000
100
10
1
1976
1976
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994


WID: 7177 CID: 7180 (NDM)
KUTZ CANYON EAST /GALLUP
OPERATOR: UTPC
WELL: PIERCE "A" #2E
COUNTY: SAN JUAN ,NM
OIL -- BBLS/DAY
GAS -- MCF/DAY
1000
100
10
1
1000
100
10
1
1975
1976
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994

Union Texas Petroleum

375 U.S. Highway 64
Farmington, New Mexico 87401
Telephone (505) 325-3587

September 8, 1989

Mesa Petroleum
P. O. Box 579
Flora Vista, NM 87415

Gentlemen:

Union Texas Petroleum Corporation is in the process of applying for a downhole commingling order for our Pierce A #2E well located 1830' FNL & 860' FWL, Section 34, Township 29N, Range 10W, NMPM, San Juan County, New Mexico, in the Armenta Gallup and Basin Dakota zones.

This letter is to notify you of such action as our records indicate that you are owner and operator of acreage which adjoins the area in which the downhole commingling is requested. If you have no objections to the proposed downhole commingling order, we would appreciate your signing the attached copy of this letter and returning it to this office.

Your prompt attention to this matter would be greatly appreciated.

Sincerely,

S. G. Katirgis

S. G. Katirgis
Production Engineer

The downhole commingling request is hereby approved:

_____

_____
(Date)

Union Texas Petroleum

375 U.S. Highway 64
Farmington, New Mexico 87401
Telephone (505) 325-3587

September 8, 1989

Southwest Production, Inc.
Attn: Fred Crum
P. O. Box 400
Aztec, NM 87410

Dear Mr. Crum:

Union Texas Petroleum Corporation is in the process of applying for a downhole commingling order for our Pierce A #2E well located 1830' FNL & 860' FWL, Section 34, Township 29N, Range 10W, NMPM, San Juan County, New Mexico, in the Armenta Gallup and Basin Dakota zones.

This letter is to notify you of such action as our records indicate that you are owner and operator of acreage which adjoins the area in which the downhole commingling is requested. If you have no objections to the proposed downhole commingling order, we would appreciate your signing the attached copy of this letter and returning it to this office.

Your prompt attention to this matter would be greatly appreciated.

Sincerely,

S. G. Katirgis

S. G. Katirgis
Production Engineer

The downhole commingling request is hereby approved:

_____

_____
(Date)

Union Texas Petroleum

375 U.S. Highway 64
Farmington, New Mexico 87401
Telephone (505) 325-3587

September 8, 1989

Amoco Production Company
34 Southside River Road
Farmington, NM 87401

Gentlemen:

Union Texas Petroleum Corporation is in the process of applying for a downhole commingling order for our Pierce A #2E well located 1830' FNL & 860' FWL, Section 34, Township 29N, Range 10W, NMPM, San Juan County, New Mexico, in the Armenta Gallup and Basin Dakota zones.

This letter is to notify you of such action as our records indicate that you are owner and operator of acreage which adjoins the area in which the downhole commingling is requested. If you have no objections to the proposed downhole commingling order, we would appreciate your signing the attached copy of this letter and returning it to this office.

Your prompt attention to this matter would be greatly appreciated.

Sincerely,

S. G. Katirgis

S. G. Katirgis
Production Engineer

The downhole commingling request is hereby approved:

_____

_____
(Date)

UNION TEXAS PETROLEUM
ZACHRY 16E
ZACHRY 32
LEASE FLUIDS

Rocky Mountain Region

LABORATORY INVESTIGATION

OF

ZACHRY, DAKOTA AND GALLUP FLUIDS COMPATABILITY

SEPTEMBER 11, 1989

PREPARED FOR:

UNION TEXAS PETROLEUM
STERG KATIRGIS
PETROLEUM ENGINEER

PREPARED BY:

BRIAN P. AULT
PETROLEUM ENGINEER
WESTERN COMPANY OF
NORTH AMERICA

SERVICE POINT
FARMINGTON, NEW MEXICO
505-327-6222

LABORATORY INVESTIGATION
ZACHRY 16E
ZACHRY 32

SUMMARY OF RESULTS

1. No precipitation of material was observed from either admixture of fluids.

2. Emulsion testing was performed. There should be no concern over the formation of a stablized emulsion at wellbore temperatures.

3. The cloud point of oil mixtures dropped or remained the same upon mixint of fluids.

4. According to calculations not enough cool down from gas expansion will occur to alter paraffin deposition significantly.

BRIAN AULT
PETROLEUM ENGINEER
WESTERN COMPANY OF NORTH AMERICA
FARMINGTON DISTRICT
FARMINGTON, N.M.

LABORATORY INVESTIGATION
ZACHRY 16E
ZACHRY 32

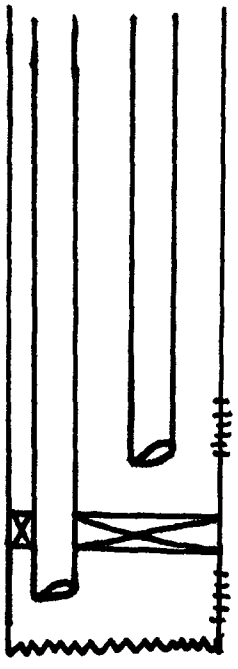
On Tuesday, September 5, 1989, a request for laboratory work was placed by Sterg Katirgis, Petroleum Engineer of Union Texas Petroleum Corportion.

PURPOSE

Two oil samples were received of Mr. Katirgis with the request we investigate the concern of potentially detrimental effects due to commingling of Gallup and Dakota fluids in the Zahcry 16E and 32.

INVESTIGATION

1. Background information - current wellbore
   a)



PROPOSED GALLUP PERFORATIONS

EXISTING DAKOTA PERFORATIONS

   b. BHST gradient: 1.375° f/100 ft. depth

   c. Current production problems are primarily due to paraffin deposition from surface down to $\approx$ 1000' depth.

d) Commingling Order Mixture Requirements:

The commingling requests present the mixing of Zachry 16E fluids with Zachry 32 Gallup fluids.

The tests performed simulated the mixture of fluids that may result from this commingling action. Each oil component was analyzed for API gravity, paraffin, pour point and cloud point. Each water component was analyzed for dissolved solids, pH, specific gravity and resistivity. The mixture of oils addressed the potential increase in precipitation of materials and the potential increase in paraffin content by a synergistic effect of mixing oils of different constitution. Emulsion tests simulated the mixing environment of the wellbore where the water component of a fluid could be tied up in a resulting emulsion without the ability to break out and allow separation of the oil and water constituents. The emulsion tests results present the number of ml (% of mixture) of water breakout at listed time intervals. The volume of test sample (mixture) used in the emulsion tests is 100 ml.

2. Concerns to address in analysis:

   a) The precipitation of materials produced by the admixture of oils of potentially different constitution.

   b) The creation of emulsions due to the admixture of different fluids.

   c) Increased paraffin deposition by additive properties of oils.

   d) Increased paraffin deposition due to the reduction of temperature accompanying gas expansion.

3. Steps taken in analysis

   a) API analysis of oils including: API Gravity
      Pour Point
      Cloud Point
      Paraffin Content

   b) Discussion with Mr. Katirgis regarding the well bore production environment, e.g., mode of hydrocarbon production, pump type and operation, water components of production fluids, current paraffin problems, etc.

   c) Mixing of oils in appropriate cases with additional cloud point testing to determine resulting fluid characteristics.

   d) API Water Analysis

   e) Emulsion tendency testing via mixing of fluids in appropriate cases.

LABORATORY INVESTIGATION
ZACHRY 16E
ZACHRY 32

DATA

SAMPLE #1 ZACHRY 16E

ZONE:	DAKOTA
API GRAVITY @ 60° F	57.7
CLOUD POINT	< 20° F
POUR POINT	<20° F
PARAFFIN CONTENT	.15% (WEIGHT)

SAMPLE #2 ZACHRY 32

ZONE:	GALLUP
API GRAVITY @ 60° F	40.0
CLOUD POINT	77° F
POUR POINT	<20° F
PARAFFIN CONTENT	4.08% (WEIGHT)

SAMPLE #3 50/50 MIX

ZONE	50/50 MIX, SAMPLE #1 AND #2
API GRAVITY @ 60° F	47.8
CLOUD POINT	63° F
POUR POINT	<20° F
PARAFFIN CONTENT	1.15% (WEIGHT)

Analysis No. 53-05-89
Date 09 06 89

The Western Company

Oil Analysis

Operator UNION TEXAS PETROLEUM
Well ZACHRY 16E
Field
Formation DAKOTA
Depth
County
State

Date Sampled 09 01 89
Date Received 09 06 89
Submitted By STERG KATIRGIS
Worked By LEE
Sample Description
OIL/WATER SAMPLE: OIL PHAS IS CLEAR YELLOW, WATER PHASE IS ORANGE, SMALL AMOUNT OF BOTTOM SOLIDS PRESENT

API Gravity 57.67 ° at 60°F
*Paraffin Content .15 % by weight
*Asphaltene Content NA % by weight
Pour Point $\leq$ 20 °F
Cloud Point $\leq$ 20 °F

Comments: sample: 75% H_2O + 25% oil

Analyst L. LEE

*Report calculations and data on back.

Analysis No. 53 06 89
Date 09 06 89

The Western Company

Oil Analysis

Operator UNION TEXAS PETROLEUM
Well ZACHRY 32
Field
Formation GALLUP
Depth
County
State

Date Sampled 09 01 89
Date Received 09 06 89
Submitted By STERG KATIRGIS
Worked By LEE
Sample Description OIL/WATER SAMPLE
OIL PHASE IS DARK BROWN
WATER PHASE IS CLEAR. SMALL AMOUNT OF
BOTTOM SOLIDS PRESENT

API Gravity 40.0 @ 60°F
*Paraffin Content 4.08 % by weight
*Asphaltene Content NA % by weight
Pour Point < 20 °F
Cloud Point 77 °F

Comments: SAMPLE 37% H_2O + 63% OIL

Analyst L. LEE

*Report calculations and data on back.

Analysis No. 53 07 89
Date 09 11 89

The Western Company

Oil Analysis

Operator UNION TEXAS PETROLEUM
Well
Field
Formation
Depth
County SAN JUAN
State

Date Sampled 09 01 89
Date Received 09 06 89
Submitted By STERG KATIRGIS
Worked By LEE
Sample Description OIL
50/50 MIX OF ZACHRY 16E
OIL AND ZACHRY 32 OIL

API Gravity 47.76° at 60°F
*Paraffin Content 1.15 % by weight
*Asphaltene Content NA % by weight
Pour Point < 20 °F
Cloud Point 63 °F

Comments:

Analyst

*Report calculations and data on back.

ANALYSIS NO. 53-38-89

FIELD RECEIPT NO. _____

API FORM 45-1

API WATER ANALYSIS REPORT FORM

Company		Sample No.	Date Sampled
Union Texas Petroleum		1	
Field	**Legal Description**	**County or Parish**	**State**
Lease or Unit	**Well**	**Depth**	**Formation**	**Water, B/D**
	Zachry 16E		Dakota	
Type of Water (Produced, Supply, etc.)	**Sampling Point**	**Sampled By**	

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	1105	48.06
Calcium, Ca	42	2.09
Magnesium, Mg	5	.40
Barium, Ba	—	—
Potassium, K^+	92	2.35

ANIONS		
Chloride, Cl	1443	40.71
Sulfate, SO_4	123	2.56
Carbonate, CO_3	0	0
Bicarbonate, HCO_3	587	9.63

Total Dissolved Solids (calc.) 3397

Iron, Fe (total) ##,## 0.0

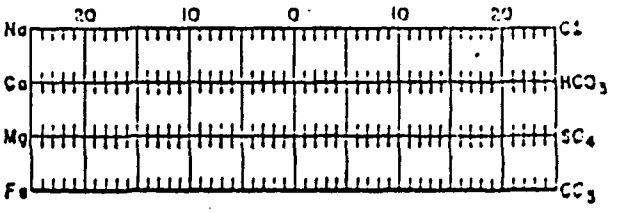
Sulfide, as H_2S neg

OTHER PROPERTIES

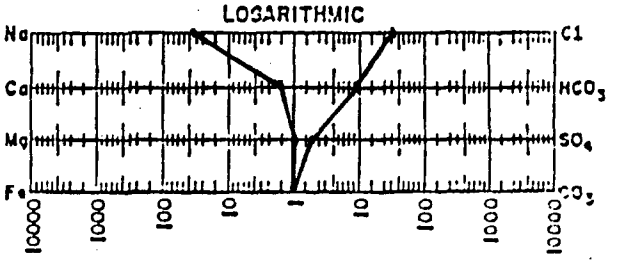
pH	7.81
Specific Gravity, 60/60 F.	1.002
Resistivity (ohm-meters) 77° F.	1.85
Total hardness	125

WATER PATTERNS — me/l

STANDARD



LOGARITHMIC



REMARKS & RECOMMENDATIONS:

ANALYST: LLee

THE WESTERN COMPANY OF
NORTH AMERICA, FARMINGTON, NM
(505) 327-6222

Please refer any questions to: BRIAN AULT District Engineer

ANALYSIS NO. 53-39-89

FIELD RECEIPT NO. _____

API FORM 45-1

API WATER ANALYSIS REPORT FORM

Company		Sample No.	Date Sampled
Union Texas Petroleum		2	
Field	**Legal Description**	**County or Parish**	**State**
Lease or Unit	**Well**	**Depth**	**Formation**	**Water, B/D**
	Zachry 32		Gallup	
Type of Water (Produced, Supply, etc.)	**Sampling Point**	**Sampled By**

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	841	36.56
Calcium, Ca	25	1.25
Magnesium, Mg	4	.36
Barium, Ba	—	—
Potassium, K^+	24	.61

ANIONS		
Chloride, Cl	1204	33.96
Sulfate, SO_4	0	0
Carbonate, CO_3	0	0
Bicarbonate, HCO_3	294	4.82

Total Dissolved Solids (calc.) 2,392

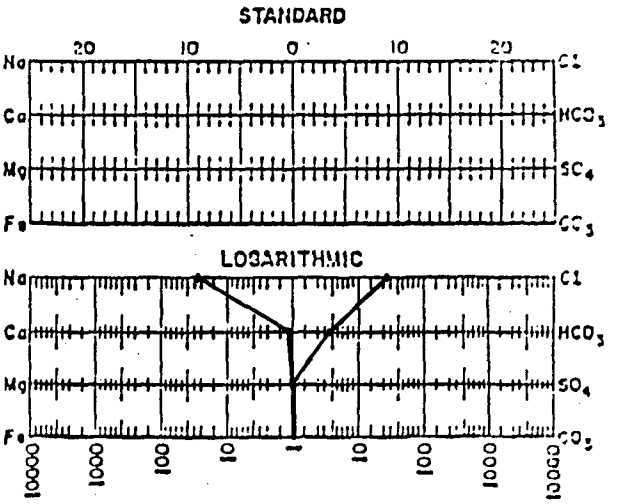
Iron, Fe (total) $^{++,+++}$ 0.0

Sulfide, as H_2S neg

OTHER PROPERTIES

pH	7.93
Specific Gravity, 60/60 F.	1.001
Resistivity (ohm-meters) 77° F.	2.90
Total hardness	80

WATER PATTERNS — *me/l*



REMARKS & RECOMMENDATIONS:

ANALYST: LLee

THE WESTERN COMPANY OF
NORTH AMERICA, FARMINGTON, NM
(505) 327-6222

Please refer any questions to: BRIAN AULT District Engineer

DATE:

Fig. 1

ACID-OIL EMULSION TESTS DATA SHEET

OPERATOR: U T P
WELL:
FIELD:
FORMATION: GALLUP/DAKOTA
DEPTH:
COUNTY: SAN JUAN

SUBMITTED BY: STERG KATIRGIS
SOURCE OF SAMPLE:
DATE SAMPLED: 09 01 89
DATE RECEIVED: 09 06 89
API GRAVITY OF OIL: 47.76

TYPE & CONC. OF FLUID: 50/50 MIX OF GALLUP/DAKOTA FLUIDS
TYPE & CONC. OF INHIBITOR:
TYPE & CONC. OF SOLIDS: ZACHRY 16E OIL AND WATER AND ZACHRY 32 OIL AND WATER
TEST TEMPERATURE: 75°F
OIL/TREATMENT FLUID RATIO:
ANALYSIS BY:

PERCENTAGE OF ORIGINAL ~~ACID~~ WATER SEPARATED AT VARIOUS TIME INTERVALS AFTER EMULSIFYING

Test Number	1															
Additives & Concentration, Gal/1000 Gal																
Elapsed Time	Time	Vol	Time	Vol	Time	Vol	Time	Vpl	Time	Vol	Time	Vol	Time	Vol	Time	Vol
1 min	1	50	2		3		4		5		6		7		8	
2	2		3		4		5		6		7		8		9	
3	3		4		5		6		7		8		9		10	
4	4		5		6		7		8		9		10		11	
5	5		6		7		8		9		10		11		12	
6	6		7		8		9		10		11		12		13	
7	7		8		9		10		11		12		13		14	
8	8		9		10		11		12		13		14		15	
9	9		10		11		12		13		14		15		16	
10	10		11		12		13		14		15		16		17	
20	20		21		22		23		24		25		26		27	
30	30		31		32		33		34		35		36		37	
Total Vol (ml)		50														
Vol. Emulsion / Sludge		0														
Solids*																
Interface**																
Vol. Sediment																

REMARKS: 25 ML GALLUP ZACHERY 32 OIL + 10 ML GALLUP ZACHERY 32 WATER +
25 ML DAKOTA ZACHERY 16E OIL + 40 ML DAKOTA ZACHERY 16E WATER

* Preferential wetting of solids: OB=oil-wet bottom; OO=oil-wet oil phase; WB=water-wet bottom; WO=water-wet oil phase
OI=oil-wet interface; WI=water-wet interface

** Interface: F=Fluid; S=Solid; V=Viscous

CALCULATIONS

Cool down effects due to gas expansion:

Reference: Perry's Handbook of Chemical Engineering

RE: Adiabatic Expansion of Ethane, Methane

$$T_s + T_r \left(\frac{P_s}{P_r}\right) \left(\frac{K-1}{K}\right), \text{ where}$$

T_s = Surface Temperature

T_r = Reservoir Temperature

P_s = Surface Pressure

P_r = Reservoir Pressure

K = $\frac{\text{Specific heat at constant pressure}}{\text{Specific heat at constant volume}}$

Assumed values for maximum cool down due to gas expansion:

T_s = Unknown

T_r = 160° F

P_s = 500 psi

P_r = 2000 psi

K = 1.2

$$T_s = 160 \left(\frac{500}{2000}\right)^{0.1667}$$

T_s = 127°F

NOTE:

A total cooldown of 33° F would be expected

BASIN DAKOTA (PRORATED GAS)

DESCRIPTION	STAT US	AF	AUG SALES	O/P LIM	SUG AUG O/U	OCT ALLOC	DELIV -TEST
E 2I 3230N12W(MWU)							451
P. U. SUMMARY	N	1.00		69047	11231-	10413	873
SATEGNA							
2M2129N11W(MWU)							231
E 2J2129N11W(MWU)			2031				344
P. U. SUMMARY	N	1.00	2031		26063	8184	575
THOMPSON							
5A3331N12W(MWU)			561				24
A 5I3331N12W(MWU)							
P. U. SUMMARY	M	1.00	561			561	24
6C2731N12W	M	1.00	487			487	29
7M3431N12W	M	1.00	878			878	76
8D2931N12W	M	1.00					14
9M2831N12W	M	1.00	377			377	19
10E2731N12W	M	1.00	64			64	28
11H3431N12W	M	1.00	1114			1114	42
12M3331N12W	M	1.00	826			826	69
WHITLEY							
5C 827N 9W	M	1.00	687			687	108
6N 827N 9W	M	1.00					33
7K 927N 9W(MWU)							36
E 7F 927N 9W(MWU)							110
P. U. SUMMARY	M	1.00					146
10E1727N 9W	M	1.00					75
YOUNG							
1D 229N12W	M	1.00	1254			1254	63
SOUTHWEST PRODUCTION COMPANY				**********			
ZACHRY FEDERAL							
1L3429N10W	M	1.00					83
TEXACO INCORPORATED				**********			
M J LOE B FEDERAL							
K 2G2329N12W(MWU)							166
E 2E2329N12W(MWU)							428
P. U. SUMMARY	M	1.00					594
3M2329N12W(MWU)							187
E 3O2329N12W(MWU)							304
P. U. SUMMARY	M	1.00					491
MEXICO FEDERAL K							
1M 928N10W(MWU)							476
E 1N 828N10W(MWU)							492
P. U. SUMMARY	M	1.00					968
NEW MEXICO COM H							
1D3630N13W	M	1.00					373
NEW MEXICO COM L							
1I3630N13W	N	1.00		56996	14883-	7720	513
UNION TEXAS PETROLEUM CORPORATION				**********			
ANGEL PEAK							
23N1128N11W(MWU)							204
E 23O1028N11W(MWU)							199
P. U. SUMMARY	M	1.00					403
ANGEL PEAK B							
20A2428N11W	M	1.00					268
22G1328N11W(MWU)							66
E 22F1328N11W(MWU)							96
P. U. SUMMARY	M	1.00					162
CALVIN							
1M2629N11W(MWU)			2094				271
E 1P2629N11W(MWU)			5972				264
P. U. SUMMARY	M	1.00	8066			8066	535
CITY OF FARMINGTON							
1A3530N13W(MWU)			6789				230
E 1C3530N13W(MWU)							339
P. U. SUMMARY	M	1.00	6789			6789	569
2L3530N13W(MWU)			892				214
E 2D3530N13W(MWU)			2929				94
P. U. SUMMARY	M	1.00	3821			3821	308
CONGRESS							
4A3529N11W(MWU)			21				2
E 4E3529N11W(MWU)			990				59
P. U. SUMMARY	M	1.00	1011			1011	61
5G3429N11W(MWU)			2777				108
E 5P3429N11W(MWU)							
P. U. SUMMARY	M	1.00	2777	43512		2777	108
6M3529N11W(MWU)			3440				134
E 6O3529N11W(MWU)			210				1
P. U. SUMMARY	M	1.00	3650	76894		3650	135
7K3429N11W(MWU)			6083				274
E 7F3429N11W(MWU)			811				170
P. U. SUMMARY	M	1.00	6894			6894	444
CONGRESS LACHMAN							
4M1928N10W(MWU)							174
E 4C1828N10W(MWU)							16
P. U. SUMMARY	M	1.03					190

BASIN DAKOTA (PRORATED GAS)

DESCRIPTION	STAT US	AF	AUG SALES	O/P LIM	SUG AUG O/U	OCT ALLOC	DELIV -TEST
CULPEPPER MARTIN							
A 1G3132N12W(MWU)			899				30
E 1P3132N12W(MWU)			1021				182
P. U. SUMMARY	M	1.00	1920			1920	212
3H 731N12W(MWU)			585				17
E 3F 731N12W(MWU)							62
P. U. SUMMARY	M	.99	585			585	79
4N 631N12W(MWU)			468				67
M 4J 631N12W(MWU)			1010				120
P. U. SUMMARY	M	.99	1478			1478	187
5F3132N12W(MWU)			480				68
M 5N3132N12W(MWU)							52
P. U. SUMMARY	M	.97	480			480	120
CATON FEDERAL							
1A1528N11W(MWU)							77
E 1D1528N11W(MWU)			207				107
P. U. SUMMARY	M	1.00	207			207	184
FEDERAL							
1M1830N12W(MWU)							70
E 1J1830N12W(MWU)			991				560
P. U. SUMMARY	N	1.00	991	69136	45503-	8595	630
FEDERAL A							
1K2531N13W	M	1.00	3044	61941		3044	69
2G2530N13W(MWU)			2408				48
E 2E2530N13W(MWU)			4362				60
P. U. SUMMARY	M	1.00	6770			6770	108
FEDERAL B							
1N3130N11W	M	1.06	21			21	19
HAYNIE							
2B 430N11W	M	1.00					166
HUNSAKER							
R 2B2631N 9W	M	.98					147
JULANDER							
1J3129N11W(MWU)			524				126
E 1K3129N11W(MWU)							65
P. U. SUMMARY	M	1.00	524			524	191
MANGUM							
1L2729N11W(MWU)			80				59
E 1F2729N11W(MWU)			85				173
P. U. SUMMARY	N	1.00	165		12867	5618	232
MCCLANAHAN A							
2M2328N10W(MWU)							40
E 2O2328N10W(MWU)							64
P. U. SUMMARY	N	1.00			17414	4661	104
MCCORD							
1M1530N13W(MWU)			71				68
E 1E1530N13W(MWU)			471				106
P. U. SUMMARY	N	1.00	542		5330	5184	174
2L3430N13W	M	1.00	3773	43877		3773	126
3B3430N13W(MWU)			106				85
E 3C3430N13W(MWU)							74
P. U. SUMMARY	M	1.00	106			106	159
4G2230N13W(MWU)			185				278
E 4D2230N13W(MWU)			1				121
P. U. SUMMARY	M	1.00	186			186	399
5N2730N13W(MWU)			1967				134
E 5O2730N13W(MWU)			3325				116
P. U. SUMMARY	M	1.00	5292			5292	250
MCCORD B							
1M2330N13W(MWU)			153				129
E 1F2330N13W(MWU)			386				334
P. U. SUMMARY	N	1.00	539		6048	7346	463
NORDHAUS							
A 2C1131N 9W	M	.99					13
A 5F1231N 9W	M	.98					7
A 6D 131N 9W	M	.99					20
NYE FEDERAL							
1M2031N12W(MWU)			30				52
M 1P2031N12W(MWU)							
P. U. SUMMARY	M	.96	30			30	52
OXNARD							
A 1C 831N 8W	M	1.00					86
A 3P 831N 8W	M	1.00					12
PAYNE							
A 2D2132N10W	N	.99		45797	30823-	5996	276
A 3D2032N10W	M	1.00			91175	7668	560
A 4P2232N10W	N	.95					
PIERCE A							
2A3429N10W(MWU)			5300				275
E 2E3429N10W(MWU)			2308				168
P. U. SUMMARY	M	1.00	7608			7608	443
QUINN							
A 6P2031N 8W	M	1.00					31
A 7P1731N 8W	M	1.00					11
RAWSON							
1A3531N12W	M	1.00					39

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

GARREY CARRUTHERS
GOVERNOR

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

Date: 9/20/89

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504-2088

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OIL CONSERVATION DIV.
SANTA FE

Re: Proposed MC_____
Proposed DHC D
Proposed NSL_____
Proposed SWD_____
Proposed WFX_____
Proposed PMX_____

Gentlemen:

I have examined the application dated 9/14/89
for the Union Texas Pet. Corp Pierce A #2E
Operator Lease & Well No.

E-34-29N-10W and my recommendations are as follows:
Unit, S-T-R

Approve

Yours truly,

W. G.