



TONEY ANAYA  
GOVERNOR

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

July 25, 1985

50 YEARS



1935 - 1985

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

Administrative Order No. DHC-558

Union Texas Petroleum  
P. O. Box 1290  
Farmington, New Mexico 87401

Attention: S. G. Katingis

Re: Newsom B Well No. 11E, Unit D, Sec, 5,  
T-26-N, R-8-W, NMPM, San Juan County  
Undesignated Gallup and Basin Dakota Pools

Gentlemen:

Reference is made to your recent application for an exception to Rule 303-A of the Division Rules and Regulations to permit the subject well to commingle the production from both pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303-C, and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the two zones is hereby placed in abeyance.

In accordance with the provisions of Rule 303.C.4., total commingled oil production from the subject well shall not exceed 40 barrels per day, and total water production from the well shall not exceed 80 barrels per day. The maximum amount of gas which may be produced daily from the Gallup Pool shall be determined by multiplying 2,000 by top unit allowable for the Undesignated Gallup. The maximum amount of gas which may be produced daily from the Basin Dakota Pool shall be determined by Division Rules and Regulations or by the allowable for the respective prorated gas pool as printed in the San Juan Basin Proration Schedule.

RECEIVED  
JUL 30 1985  
OIL CON.  
DIST. 3

In accordance with the provisions of Rule 303-C, the supervisor of the Aztec District Office of the Oil Conservation Division shall determine the proper allocation of production from the subject well following its completion.

Pursuant to Rule 303-C 5, the commingled authority granted by this order may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'R. L. Stamets', with a long, sweeping horizontal stroke extending to the right.

R. L. STAMETS,  
Director



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

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

OIL CONSERVATION DIVISION  
BOX 2088  
SANTA FE, NEW MEXICO 87501

DATE 7/1/85

RE: Proposed MC \_\_\_\_\_  
Proposed DHC ✓ \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_

Gentlemen:

I have examined the application dated 6/28/85  
for the Union Tex. Pet. Corp. Newson B #11E P-5-26N-8W  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours truly,

John D. [Signature]

DHC  
498

June 25, 1985

R. L. Stamets  
Oil Conservation Division  
P.O. Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87501

RECEIVED  
JUN 28 1985  
OIL CON. DIV.  
DIST. 3

Reference: Newsom B #11E  
899' FSL; 990' FEL  
Section 5, T26N-R8W  
San Juan County, New Mexico

Dear Mr. Stamets:

Union Texas Petroleum Corporation is applying for a downhole commingling order for the referenced well in the Basin Dakota and Undesignated Gallup fields. The ownership of the zones to be commingled are common. Offset operators are El Paso Natural Gas Company and Southern Union Exploration. The Bureau of Land Management and these offset operators will receive notification of this proposed downhole commingling.

The subject well was completed on February 12, 1985 and fracture stimulated in both the Gallup and Dakota formations with 200,000 lbs and 150,000 lbs of sand, respectively. The Gallup zone was pump tested from May 13 - June 1, 1985. The final rate was 2 BOPD and 99 MCFD. (See attached plot). The Newsom A #3 (SWSW Section 4, T26N-R8W), an east offset to the subject well, is also completed in the Gallup. Initially, it averaged 132 MCFD and 4 BOPD during its first month of production. Calculated reserves are 45 MMCFG and less than 1 MBO. The subject well has not even tested as good as this poor east offset.

The Dakota zone was first delivered June 11, 1985 and is currently producing 368 MCFD and 8 BOPD. It has not yet stabilized to date and is still declining.

The Gallup zone in this area is very marginal and the small reserves cannot justify installation of the equipment necessary to dually complete this well. The proposed commingling will result in the recovery of additional hydrocarbons from the Gallup formation, thereby preventing waste and will not violate correlative rights.

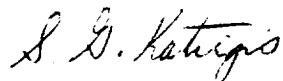
The attached fluid analysis of three offset wells indicates the total value of the crude will not be reduced by commingling. The reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed downhole commingling. The fluids from each zone are compatible and no precipitates will be formed as a result of commingling to damage either reservoir. Flow tests indicate the daily production will not exceed the limit of Rule 303-C section 1(a), part (1) and (3). The calculated initial bottom hole pressure based on surface pressure and fluid level measurements is 2100 psi in the Dakota and 1200 psi in the Gallup; within the limits of Rule 303-C, section 1(b), part (6).

An offset to the south-southwest, the Newsom B #7E (NE SW Section 8, T26N-R8W) has been commingled since November 2, 1984 as per Administrative Order No. DHC-530 with no adverse effects.

The Division Aztec District office will be notified anytime the commingled well is shut-in for seven (7) 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 is a plat showing ownership of offsetting leases, a production curve of the two Gallup offsets discussed above, a plot of the 20 day Gallup pump test, Form C-116 (GOR Test), and a wellbore diagram showing the current and proposed downhole equipment of the subject well.

Yours truly,



S. G. Katirgis  
Petroleum Engineer

SGK/ljm

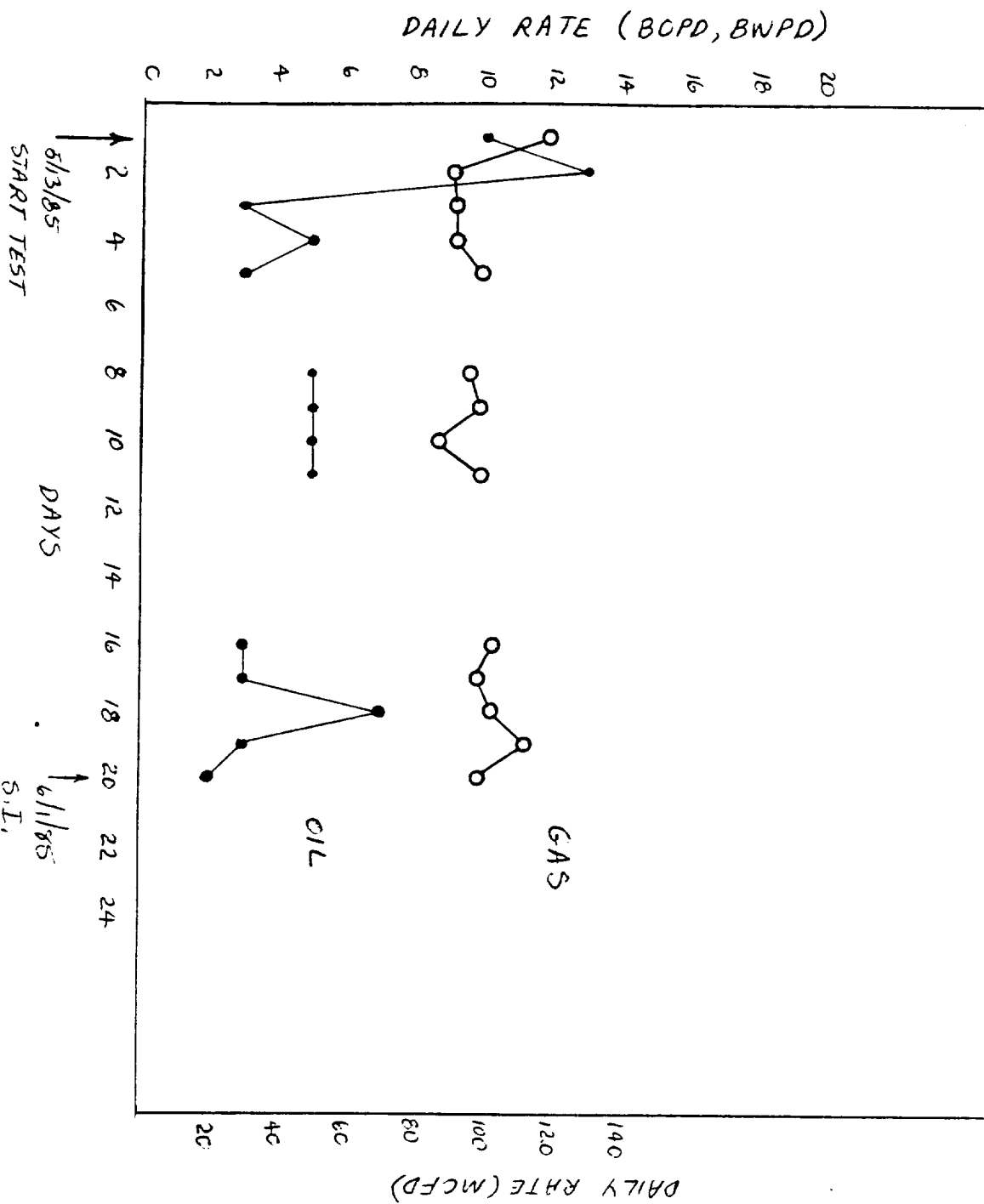
cc: Frank Chavez  
OCD Aztec Office  
W. K. Cooper  
M. R. Reisz

NEWSOM FILE

PUMP TEST - GALLUP ZONE

SE SE 5, T26N, R8W  
899' FSL; 990' FEL  
San Juan County, NM

DED; EPNG



## GAS-OIL RATIO TESTS

Operator		Pool		County											
Union Texas Petroleum Corp.		Undesignated Gallup/Basin Dakota		San Juan County, New Mexico											
Address		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>											
Box 11, 4001 Bloomfield Highway Farmington, NM 87401															
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKES SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL		
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.	GAS M.C.F.
Newsom B (Gallup)  (Dakota)	11E	P	5	26N	8W	5/13-6/1 1985		180		480	2	46°	2	99	49,500
						6/23/85		186		288	3	50°	8	368	46,000

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Division in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

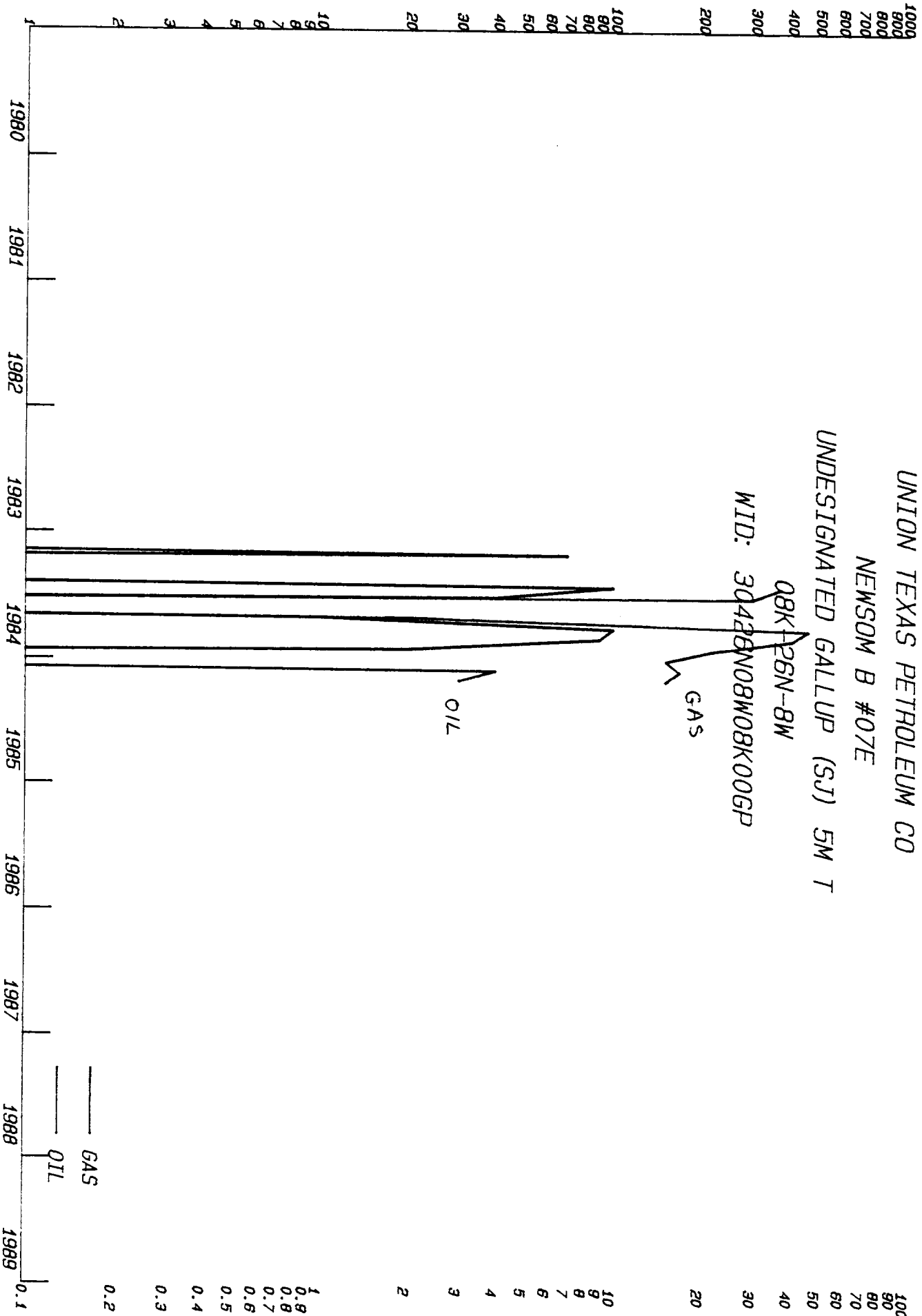
Stearne A. Kettinger  
(Signature)

Petroleum Engineer  
(Title)

6-25-85

(Date)

MCFGPD



BOPD



MCFGPD

UNION TEXAS PETROLEUM CO  
NEWSOM A #003  
UNDESIGNATED GALLUP (SJ) OM T  
04M-26N-8W  
WID: 30426N08W04M00GP

GAS

CIL

GAS  
CIL



Rocky Mountain Region

September 17, 1984

Union Texas Petroleum  
4001 Bloomfield Highway  
Farmington, N.M. 87401

Attn: Mr. Gilmer Mickey

Gentlemen:

Enclosed find the data you requested on subject wells. The Oil Analyses were conducted according to API specifications for the determination of cloud point, pour point, paraffin content (% by weight), asphaltene content (% by weight) and compatibility of mixing.

According to test data obtained there is no reason that commingling should pose a problem of emulsion or precipitation. The oils are compatible.

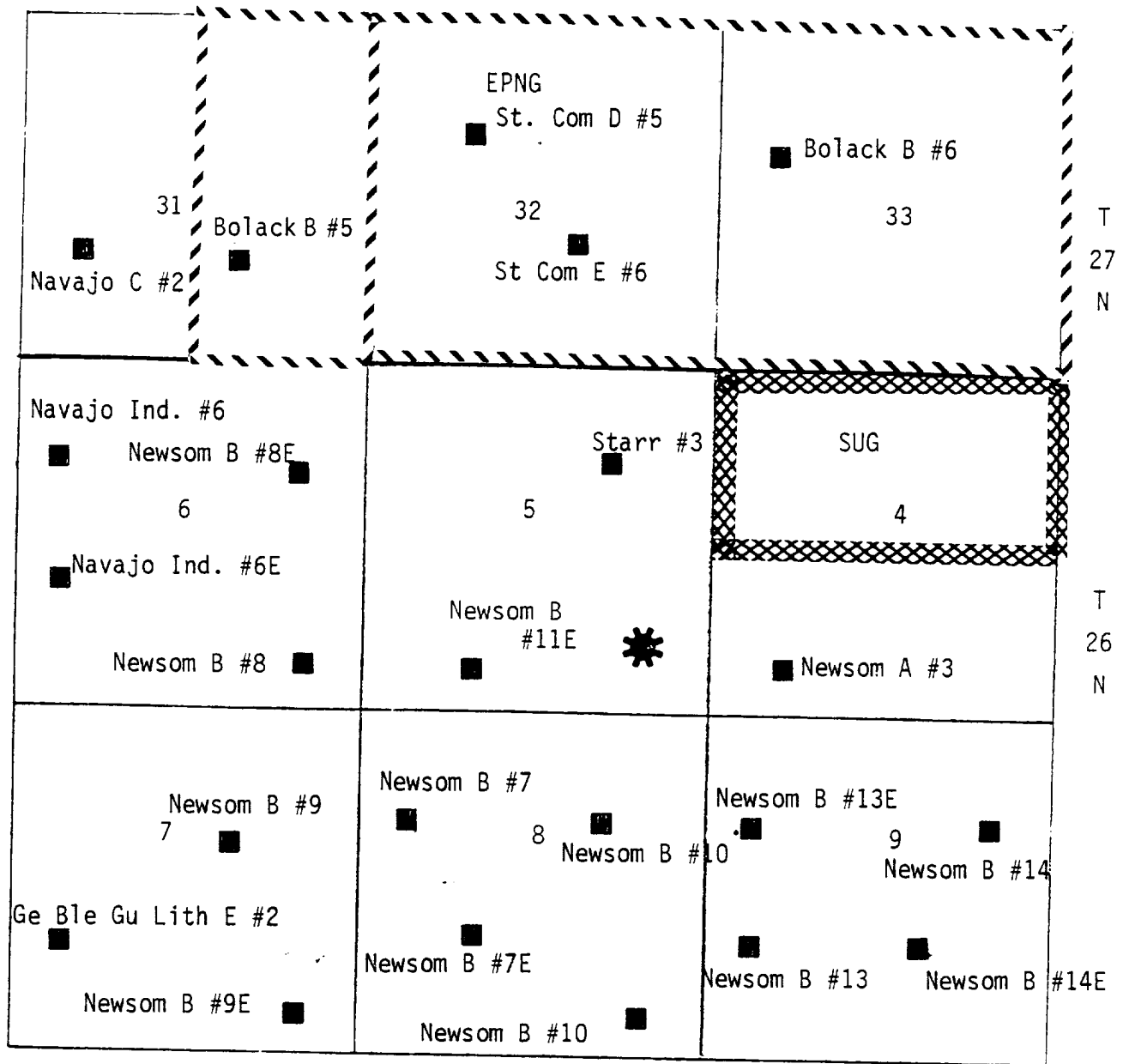
Cordially.

CLAY TERRY  
District Engineer

TOM BURRIS  
Field Engineer

# OFFSET WELLS

WELL NAME	NEWSOME B #7E	NEWSOME B #9	STARR #5	MIXTURE
FORMATION	GALLUP & DAKOTA	DAKOTA	GALLUP	EQUAL MIX OF ALL THREE
API GRAVITY @ 75°F	45° F	50° F	46° F	47° F
ORRECTED API GRAVITY	43.7° F	48.6° F	44.7° F	45.7° F
PARAFFIN CONTENT %	11.888%	14.87%	9.57%	13.382%
CLOUD POINT °F	31° F	34° F	28° F	29° F
POUR POINT °F	-23° F	< -40° F	-38° F	-9° F
ASPHALTINES CONTENT %	2.3%	< 1%	< 1%	< 1%



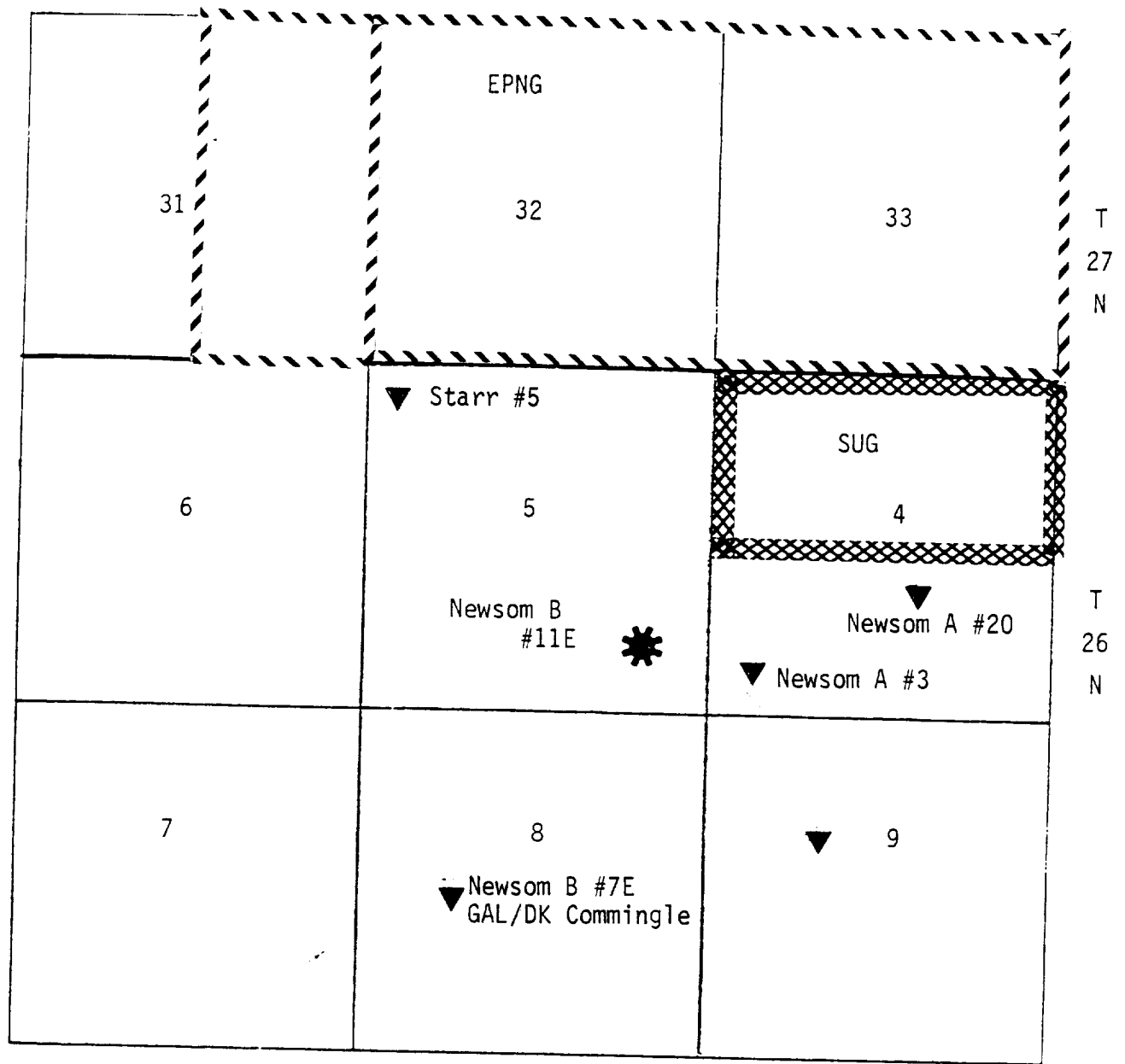
UNION TEXAS PETROLEUM

PROPOSED DOWNHOLE COMMINGLING

Newsom B #11E

5-26-8

OFFSET DAKOTA PRODUCERS



R 8 W

UNION TEXAS PETROLEUM

PROPOSED DOWNHOLE COMMINGLING

Newsom B #11E  
5-26-8

OFFSET GALLUP PRODUCERS

**UNION TEXAS PETROLEUM CORP.**  
**WELLBORE DIAGRAM**  
**COMMINGLED COMPLETION**

**WELL NAME** Newsom B #11E  
**LOCATION** 899' FSL; 990' FEL **SECTION** 5 **T** 26N **R** 8W  
**COUNTY** San Juan **STATE** New Mexico **LEASE** SF 078430

**GLE** 6297'  
**KBE** 6309'  
**KB** 12'

**SURFACE CASING**

Hole size: 12-1/4"  
Casing: 9-5/8", 36#  
Casing set @ 216'  
Top of Cement: Circulate to surface

**FORMATION TOPS**

Ojo Alamo 1310'  
Kirtland Shale 1458'  
Pictured Cliffs 2124'  
Lewis Shale \_\_\_\_\_  
Chacra 3010'  
Cliffhouse 3700'  
Point Lookout 4400'  
Mancos Shale \_\_\_\_\_  
Gallup 5530'  
Greenhorn 6400'  
Graneros \_\_\_\_\_  
Dakota 6489'

**PRODUCTION CASING**

Hole size: 8-3/4"  
Casing: 7", 26#  
Casing set @ 6815'  
Top of Cement: Circ. to surface 2nd stage

**WELL HISTORY**

Spud date: 12/10/84  
Original owner: Union Texas Petroleum Corp  
IP: MCFD Gal: 50 13 0  
Dak: 1124 BOPD 0 BWPD 0  
GOR Gal: 3846 Dak: 0  
Completion 2/12/85

**CURRENT DATA**

Pumping Unit: \_\_\_\_\_  
Tubing: 1 string, 2-3/8", 4.7#, EUE  
Pump size: \_\_\_\_\_  
Rod string: \_\_\_\_\_  
Wellhead: Single string wellhead  
Remarks: \_\_\_\_\_

Stage tool at 4135'

**PERFORATIONS**

Dakota: 6490'-6702'  
Gallup: 5534'-6190'

Date of Last Revision: \_\_\_\_\_

PBTD 6750'  
TD 6815'

**UNION TEXAS PETROLEUM CORP.**  
**WELLBORE DIAGRAM**  
Dual Completion

WELL NAME Newsom B #11E  
LOCATION 899' FSL; 990' FEL SECTION 5 T 26N R 8W  
COUNTY San Juan STATE New Mexico LEASE SF 078430

GLE 6297'  
KBE 6309'  
KB 12'

**SURFACE CASING**

Hole size: 12-1/4"  
Casing: 9-5/8", 36#  
Casing set @ 216'  
Top of Cement: Circ. to surface.

**FORMATION TOPS**

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Spud date: 12/10/84  
Original owner: Union Texas Petroleum Corp.  
Gal: 50 13 0  
IP: MCFB 1124 BOPD 0 BOPD 0  
GOR Gal: 3846 Dak: 0  
Completion 2/12/85

**CURRENT DATA**

Pumping Unit: Lufkin 160 Unit & Engine  
Tubing: 2 strings: 2-3/8", 4.7# @5939' &  
Pump size: 2" insert pump 6611'  
Rod string: Rod string in Gallup: 3/4" & 5/8"  
Wellhead: Dual wellhead  
Remarks: \_\_\_\_\_

Stage tool at 4135'  
7" Baker Model R packer at 6233'

**PERFORATIONS**

Dakota: 6490'-6702'  
Gallup: 5534'-6190'

Date of Last Revision: \_\_\_\_\_

PBTD 6750'  
TD 6815'