

Memo

From

7/14/52

MICHAEL E. STC R
PETROLEUM ENGINEER

To *Copy to Mr. St. John*

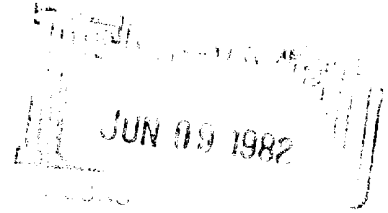
*Give out material from
manual for the M.E. publication.*

MS.

HUNT ENERGY CORPORATION

406 W. BIG SPRING
MIDLAND, TEXAS 79701

June 7, 1982



Application for Exception to
Statewide Rule No. 303-A to
Downhole Comingled Production
from the Blinebry and Drinkard
Pools of the Mittie Weatherly
Well No. 3, Lea County, New
Mexico.

New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Stogner

Gentlemen:

We respectfully request administrative approval, subject to twenty (20) day waiting period, to down-hole comingled production from the Blinebry and Drinkard Pools in N. B. Hunt's Mittie Weatherly #3 well located in Unit C, 660' FNL and 1980' FWL of Section 21, TWP 21-S, Rge 37-E, Lea County, New Mexico. The following is the pertinent data available on the well:

- 1.) Well #3 is currently dually completed in the Blinebry-Drinkard Zones. Completion intervals for each zone are as follows:

Blinebry - 5,580' to 5,752' (selectively
perforated)
Drinkard - 6,399' to 6,610'

This well is dually completed with the Blinebry being produced through the casing and the Drinkard being produced through tubing.

- 2.) The Drinkard is classified as an oil zone and the Blinebry is classified as a gas zone. However, the Drinkard no longer produces oil.
- 3.) The combined daily production from these zones does not exceed the 40 BOPD limitation provided for by the deepest perforations in the lower zone.

- 4.) Attached for your reference is the production history for each zone since October of 1979. Also attached are the Division Form C116, C124 & C125 showing the latest well test results for each zone.
- 5.) Since the well produces only gas, there will be no significant difference in the price of the combined gas over that of the gases produced and sold separately. Royalty and working interest ownership is common to both zones.
- 6.) Offset operators were sent a copy of Form C-103 as a notice of our application for administrative approval to down-hole comingled these zones.
- 7.) The estimated bottom-hole pressure for each zone is as follows:

Blinebry: 518 PSI
Drinkard: 417 PSI
- 8.) By using graphical analysis, of 1981 production, it has been determined that approximately 50% of the comingled production will be from the Drinkard and 50% from the Blinebry.

This zone was originally completed on 10-14-47 in the Drinkard Zone. In 1958, the well was completed in the Blinebry Zone. An individual production tubing string was installed for the Drinkard Zone only.

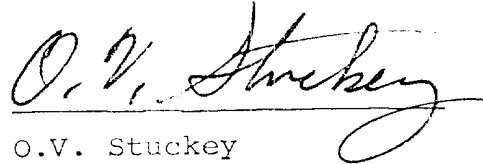
Recently, a packer leakage test was run on the well and a down-hole tubing and/or packer leak was discovered. As a result, the tubing string needs to be pulled and inspected for possible damage. Because of the old age of the production tubing, it is estimated that over 4,500' of production tubing will need to be replaced as well as the addition of another string of tubing to separate production. The well's current low productivity (approximately 160 MCF/D total for both zones) cannot justify this expense of installing two strings of tubing. Therefore, in order to continue producing the well, we are requesting the authority to downhole comingled the Blinebry and Drinkard Zones, in this well.

Production from both the Blinebry and Drinkard is presently comingled at the surface. Therefore, combination of production downhole will not change the value or quantity of the gas produced.

A current 24 hour productivity test and bottom-hole pressure test will not be available without first replacing the tubing string. However, the most recent reports have been included with this letter. Hopefully, this will provide adequate information.

Your consideration of this request will be appreciated.

Respectively submitted,

A handwritten signature in cursive script, reading "O.V. Stuckey". The signature is written in dark ink and is positioned above a horizontal line.

O.V. Stuckey

OVS/mh

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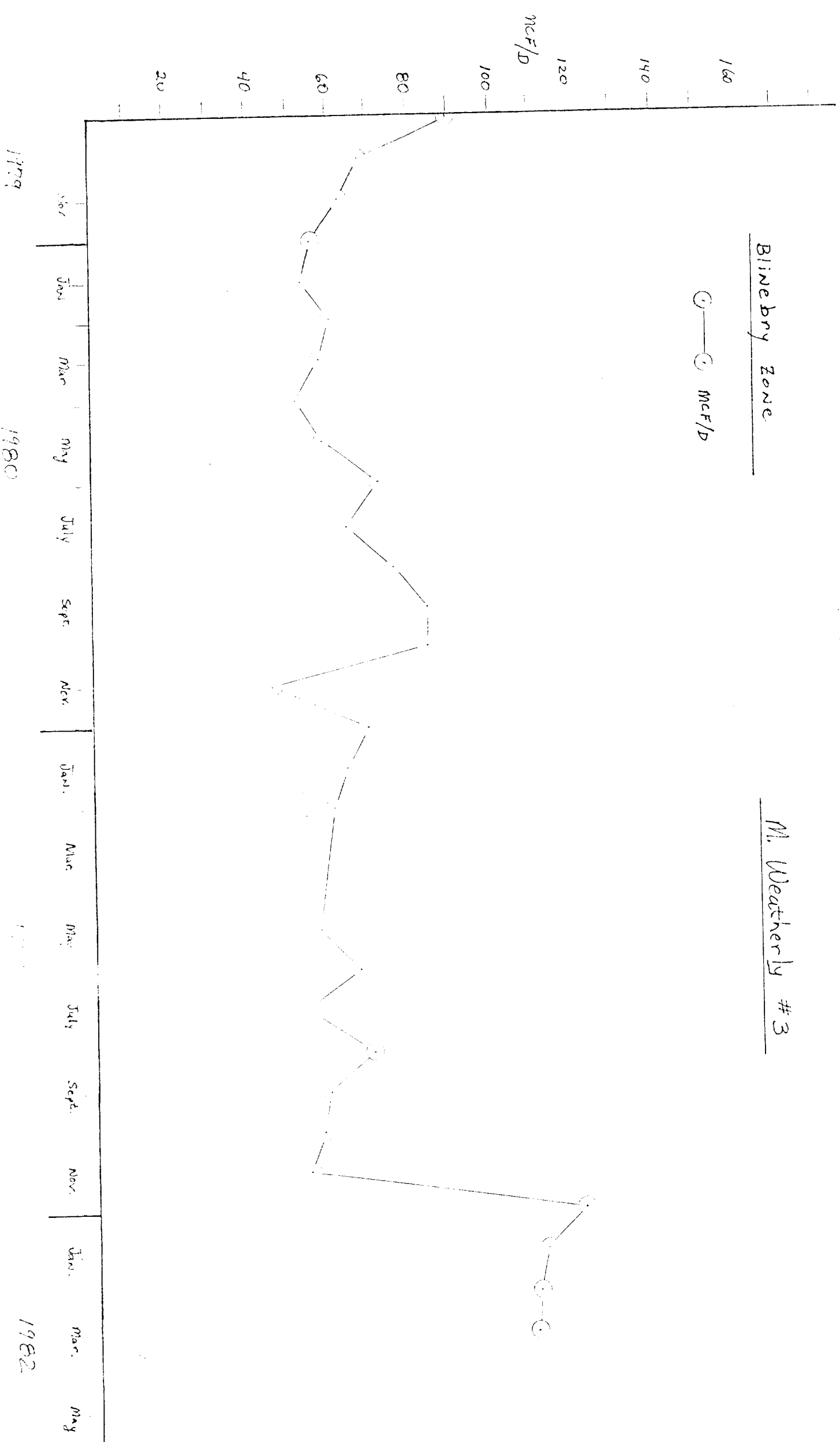
JUL 19 1982

D.C.P.
HOBBS CHASE

Binebry zone

M. Weatherly #3

①—① MCF/D

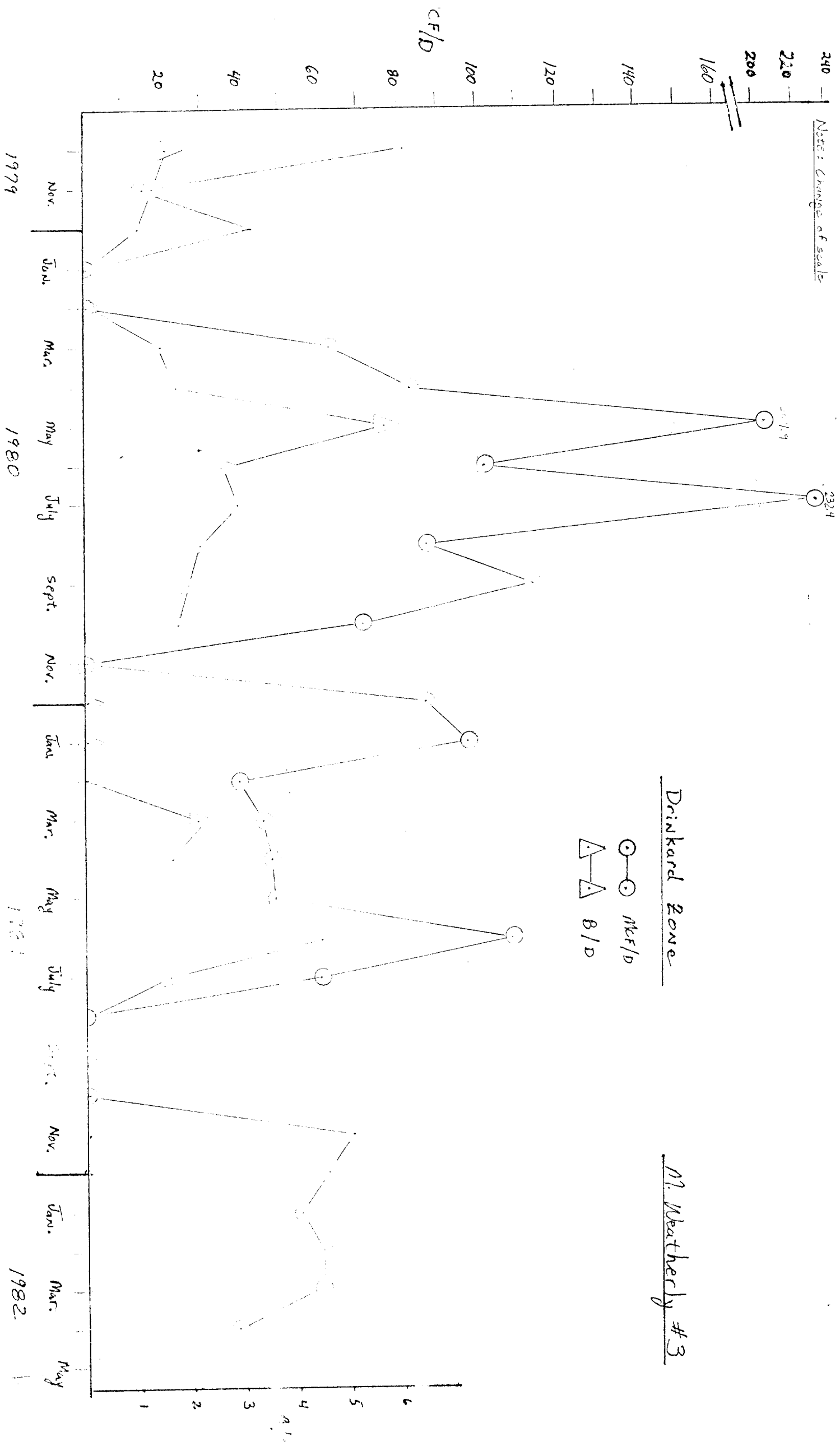


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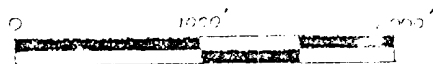
JUL 19 1982

J. M. B.
HOBBS OFFICE

Note: Change of scale



Dr. Weatherly #3



6-1-27

Mittie Weatherly #3

6-3-82

8' tbg sub

12 3/4" 250' w/200 SX

8 5/8" 2900' w/1200 SX

229 jts 2 3/8" H-40 8rd tbg (5319.77')

Blinbry perms: 5580'-5752'

Baker sliding sleeve

1jt 2 3/8" tbg

4 1/2 x 2 3/8 x 1.81 FL on & off tool

Otis S-1 Nipple

6' sub

5835'

4584 Baker Lock-set Packer 15,000# tension (5835')

6050'

8 Jts. 2 3/8" N 80 Tbg (215')

Drinkard perms: 6399-6610

6624'

5 1/2 15.5# + 17# J-55 8rd
cont'd w/ 500 SX.

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O.C.D.
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NEW MEXICO OIL CONSERVATION COMMISSION

NO. OF COPIES RECEIVED		
DISTRIBUTION		
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LAND OFFICE		
OPERATOR		

5a. Indicate Type of Lease
State ☐ Fee ☐
5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO REOPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE APPLICATION FOR REPORT - (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL ☒ GAS WELL ☒ OTHER Dual Completion
2. Name of Operator
Hunt Energy Corporation
3. Address of Operator
406 N. Big Spring Midland, Texas 79701
4. Location of Well
UNIT LETTER C 660 FEET FROM THE North LINE AND 1980 FEET FROM
THE West LINE, SECTION 21 TOWNSHIP 21-S RANGE 37-E NMPM.

7. Unit Agreement Name
8. Farm or Lease Name
Mittie Weatherly
9. Well No.
3
10. Field and Pool, or Wildcat
Drinkard/Blinebry
11. Elevation (Show whether DF, RT, GR, etc.)
3462 GR
12. County
Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER Downhole Comingle ☐
SUBSEQUENT REPORT OF:
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOG ☐
OTHER ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

In accordance with the Oil Conservation Division of New Mexico, we are notifying all offset operators of our intention to downhole comingle production from the Drinkard and Blinebry Zones.

A packer leakage test recently showed a tubing and/or packer leak in this well. Instead of repairing the leak, we have decided to comingle production. This well produces approximately 160 MCF/D from both zones, so we feel that repairing the leak is not economic.

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

SIGNED Mary Travis TITLE Petroleum Engineer DATE 06-07-82

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

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JUL 19 1982

C.I.O.
HONORARY MEMBER

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P.O. BOX 2018
SANTA FE, NEW MEXICO 87501

Form C-116
Revised 10-1-78

GAS-OIL RATIO TESTS

Operator		Pool		County		LEA									
N. B. HUNT		DRINKARD													
2500 FIRST NATIONAL BANK BLDG.,		DALLAS, TEXAS 75202		TYPE OF TEST - (X)		SCHEDULED ☒ SPECIAL ☐									
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROG. DURING TEST			GAS - OIL RATIO CU. FT/BB		
		U	S	T						R	WATER BBL'S.	GRAV. OIL		OIL BBL'S.	GAS M.C.F.
WEATHERLY, MITTIE *Down Hole Commingling Permit #DHC-344 50% Blinebry Oil=15 BOPD 50% Drinkard Oil=15 BOPD 45% Blinebry Gas=128 MCFPD 55% Drinkard Gas=157 MCFPD **Down Hole Commingling Permit #DHC-229 23% Blinebry Oil= 2 BOPD 77% Drinkard Oil= 6 BOPD 12% Blinebry Gas= 26 MCFPD 88% Drinkard Gas=194 MCFPD	3	C	21	21S	37E	24/64	35	3	24	0	0	0	59	-----	
	*4	B	21	21S	37E	32/64	80	6	24	5	36	30	285	9,500	
	*5	E	21	21S	37E	26/64	85	6	24	0	37	8	220	27,500	
	6	F	21	21S	37E	28/64	60	25	24	1	38	6	260	43,330	
	7	G	21	21S	37E	24/64	60		24	0	0	0	59	-----	

No well will be assigned an allowable greater than the amount of oil produced on the official test.
During test well 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 allowable when authorized by the Division.
Gas volumes must be reported in MCF measured at a pressure base of 15.023 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.
Well official 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.

U. V. Stuckey
U. V. Stuckey (Signature)
District Superintendent

May 5, 1982 (Date)

NEW MEXICO OIL CONSERVATION COMMISSION
GAS - OIL RATIO TESTS

C-116
Revised 1-1-65

Operator		Pool		County		Lea																											
N. B. Hunt		Blinebry																															
2500 First National Bank Bldg, Dallas, Texas 75202		TYPE OF TEST - (X)		Scheduled ☒		Special ☐																											
LEASE NAME		WELL NO.		LOCATION		DATE OF TEST		CHOKE SIZE		TBG. PRESS.		DAILY ALLOW-ABLE		LENGTH OF TEST HOURS		PROD. DURING TEST		GAS - OIL RATIO															
				U S T R												WATER BALS.		OIL GRAV. OIL SOLS. GAS M.C.F.		CU. FT/BSL													
Mittie Weatherly		3		C		21		21S		37E		7-21-81		F		24/64		50		57		24		0		0		0		98		-----	
		4		B		21		21S		37E		9-08-81		F		32/64		50		2		24		15		35		17		248		14,588	
		*5		E		21		21S		37E		9-04-81		F		26/64		120		2		24		0		35		7		153		21,857	
		6		F		21		21S		37E		9-07-81		F		24/64		35		10		24		0		35		12		75		6,250	
		1		G		21		21S		37E		7-21-81		F		24/64		50		294		24		0		0		0		480		-----	
		7																															
Downhole Commingling Permit No. DHC 229																																	
Blinebry Oil 1 BOPD																																	
Drinkard Oil 6 BOPD																																	
Blinebry Gas 18 MCF/D																																	
Drinkard Gas 135 MCF/D																																	

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 test 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 allowable when authorized by the Commission.

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.

Well official and one copy of this report to the district office of the New Mexico Oil Conservation Commission 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.

D. V. Stuckey
D. V. Stuckey (Signature)
District Superintendent
10-21-81

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NEW MEXICO OIL CONSERVATION COMMISSION
RESERVOIR PRESSURE REPORT

Form C-174
Revised 11-65

TYPE OF REPORT - (X)	
Initial Completion	
Special	
General Survey	X

Operator N.B. Hunt	Pool Drinkard	County Lea	Date 12/3/81
Address 406 N. Big Spring St. Midland, Texas 79701		Producing Formation Drinkard	Oil Gradient psi/ft.
		Water Gradient psi/ft.	Gas Gradient psi/ft.
		Datum Plane (=3050)	

LEASE	WELL NO.	LOCATION			ELEV.	OIL (o) OR GAS (c)	DATE TESTED	Z 150 THO	SHUT-IN TGC. PRESS.	BOMB TEST DATA			SONIC INSTRUMENT TEST DATA*					PRESS. AT DATUM			
		U	S	T						R	TEST DEPTH	B.M. TEMP. °F	GR. SERVED PRESS.	PROD. TEST (BBL./DAY)		LIQUID LEVEL	LIQUID GRAD- IENT PSI/FT.		WT. OF LIQUID COL. PSI	WT. OF GAS COL. PSI	CSC. PRESS.
														OIL	WATER						
Mittie Weatherly	3	C	21	21	37	3455 GL	0	12/2/81	48	353	5750	106	409	-	-	.010	417				
Mittie Weatherly	4	B	21	21	37	3458 KB	0	12/2/81	48	441	5636	106	513	-	-	.013	524				
Mittie Weatherly	5	E	21	21	37	3485 KB	0	12/2/81	48	353	6200	106	417	-	-	.010	420				
Mittie Weatherly	6	F	21	21	37	3458 GL	0	12/2/81	48	245	6400	106	290	-	-	.007	291				
Mittie Weatherly	7	G	21	21	37	3445	0	12/2/81	48	310	6350	106	362	-	-	.008	363				

All depths plus or minus sea level; all pressures psi; Bomb shall be calibrated frequently enough against a dead weight tester to ensure an accuracy of one per cent; gas gravity shall be determined by analysis; liquid level shall be feet above datum plane. SEE RULE 302.

* Well shall be produced at least 24 hours prior to shutting in for sonic test.

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

John C. Ottum
(Signature)

Agent

(Title)

December 3, 1981

(Date)

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O.C.D.
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STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

CIL CONSERVATION DIVISION

GAS WELL SHUT-IN PRESSURE REPLY

P. C. BOX 2068

1981 YEAR / FCRW C-125

SANTA FE, NEW MEXICO 87501

*** LEA COUNTY ***

P. HUNT

2500 1ST NATIONAL BANK BLDG.

CALLAS

1X 75

C C L / L E A S E

WELL C C A T I C N DATE PRESS TIME SI SI-PRESS SI-PRESS PREY TEST
S I E F W RUN RES/IN PSIG/EMI) PSIA DATE

INERTY CIL AND GAS

FAIRLY

3C 21 21S 37E WL 7/21/81 25/30 465 477.95 7/8/80

L. HERLY E

1G 21 21S 37E BL 7/21/81 25/00 309 321.95 7/8/80

FAIRLY

FAIRLY

7G 21 21S 37E DR 7/21/81 25/30 325 337.95 9/18/80

CEB CIL AND GAS

FAIRLY E

1G 21 21S 37E 1E 7/21/81 25/00 198 210.95 7/8/80

AMOUNT YATES 7 RVRS GN (PRC GAS)

FAIRLY

1E 21 21S 37E GN 7/21/81 25/00 205 217.95 10/3/80

HERBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.
BY RULE 402.

IONALD L. TITLE St. Engineer DATE July 22, 1981