

SHELL OIL COMPANY

PETROLEUM BUILDING

P.O. BOX 1509

MIDLAND, TEXAS 79701

December 11, 1978

DHC # 271
Due - 1/8/79

DEC 18 1978

Subject: Application for Downhole Commingling
For Shell Livingston Well No. 5
Unit Letter U, Located 660' FSL &
330' FWL Section 3, T-21-S, R-37-E,
Lea County, New Mexico
Drinkard Field

MC-1089

New Mexico Oil Conservation Commission (3)
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention Mr. J. D. Ramey, Secretary-Director

Gentlemen:

✓ Shell Oil Company respectfully requests administrative approval under the provisions of Rule 303-C to commingle within the wellbore production from the Blinebry and Drinkard pools in its Livingston Well No. 5, located in Unit U of Section 3, T-21-S, R-37-E, Lea County, New Mexico.

The subject well is presently flowing 8 BOPD and 5 BOPD, respectively from the Blinebry and Drinkard pools. Both of these zones are in a declining state. We plan to pull present dual production strings and produce through a single 2 3/8" tubing string by means of a beam pump.

Production from the Blinebry and Drinkard formations has been surface commingled at the Livingston tank battery for a number of years without any indication of fluid incompatibility. Since the crudes are commingled at the tank battery before being sold, no difference in value should result by commingling within the wellbore of the subject well.

Static BHP tests have been taken on both zones and are as follows:

Blinebry - 48 hr SIBHP - 412 psi
Drinkard - 48 hr SIBHP - 453 psi

A copy of this application is being sent to all offset operators.
Your further handling and approval of this application will sincerely be appreciated.

Yours very truly,

R. J. Goenen

For: W. T. Weller, Jr.
Operations Manager-Midland
Mid-Continent Division

JWH:LA

Attachments

cc - Offset Operators (per attached list)

- New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico 88240

BL	5638-5915	830	42%	270 mcf	75%
Dr	6586-6640	580	38%	90 mcf	25%
		13		360	

max prod = 40 BOPD

OFFSET OPERATORS

LIVINGSTON LEASE
BLINEBRY AND DRINKARD OIL FIELDS
LEA COUNTY, NEW MEXICO

AZTEC OIL AND GAS COMPANY
P. O. BOX 337
HOBBS, NM 88240

CONTINENTAL OIL COMPANY
P. O. BOX 460
HOBBS, NM 88240

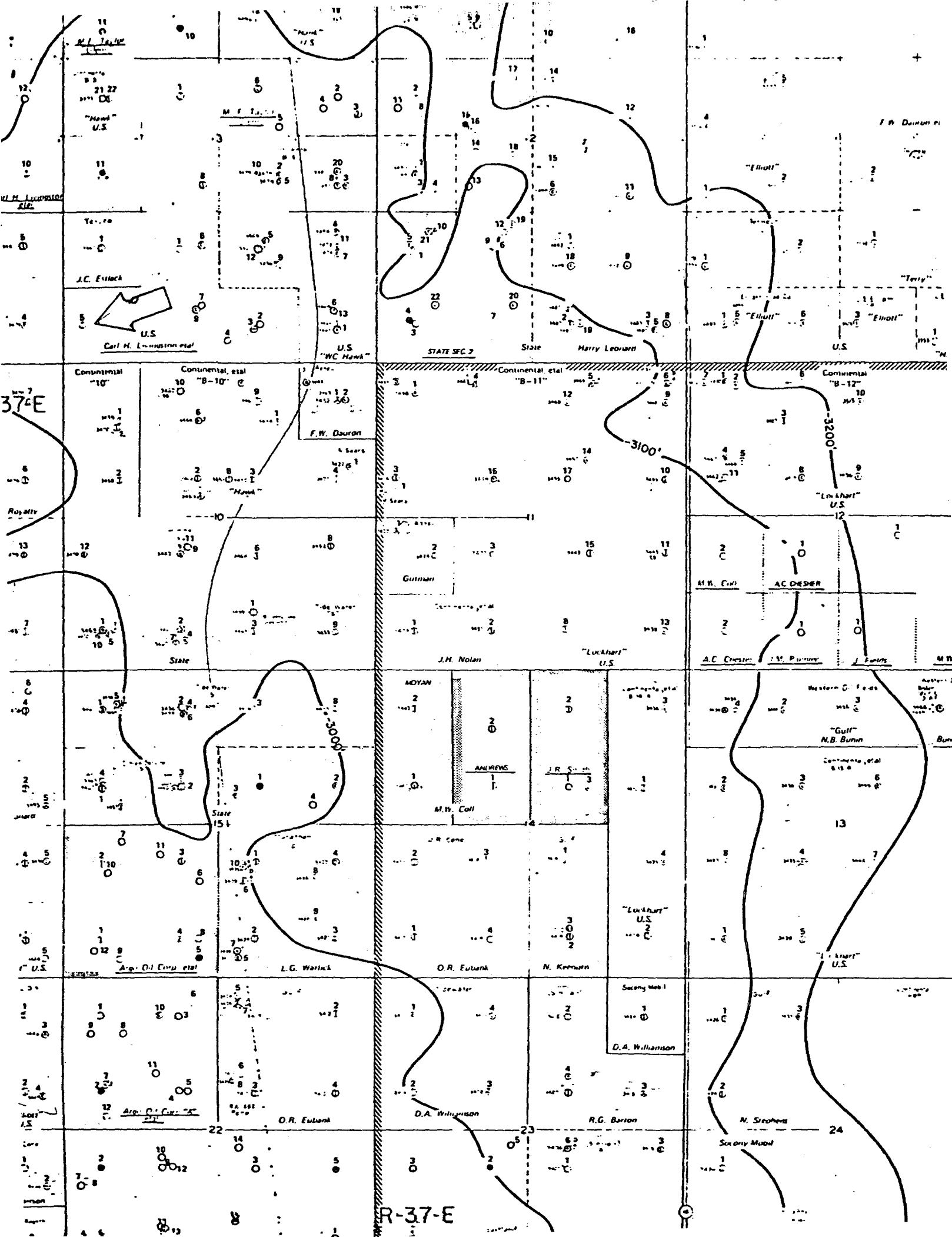
MORRIS R. ANTWEIL
P. O. BOX 2010
HOBBS, NM 88240

AMOCO PRODUCTION COMPANY
P. O. BOX 3092
HOUSTON, TX 77001

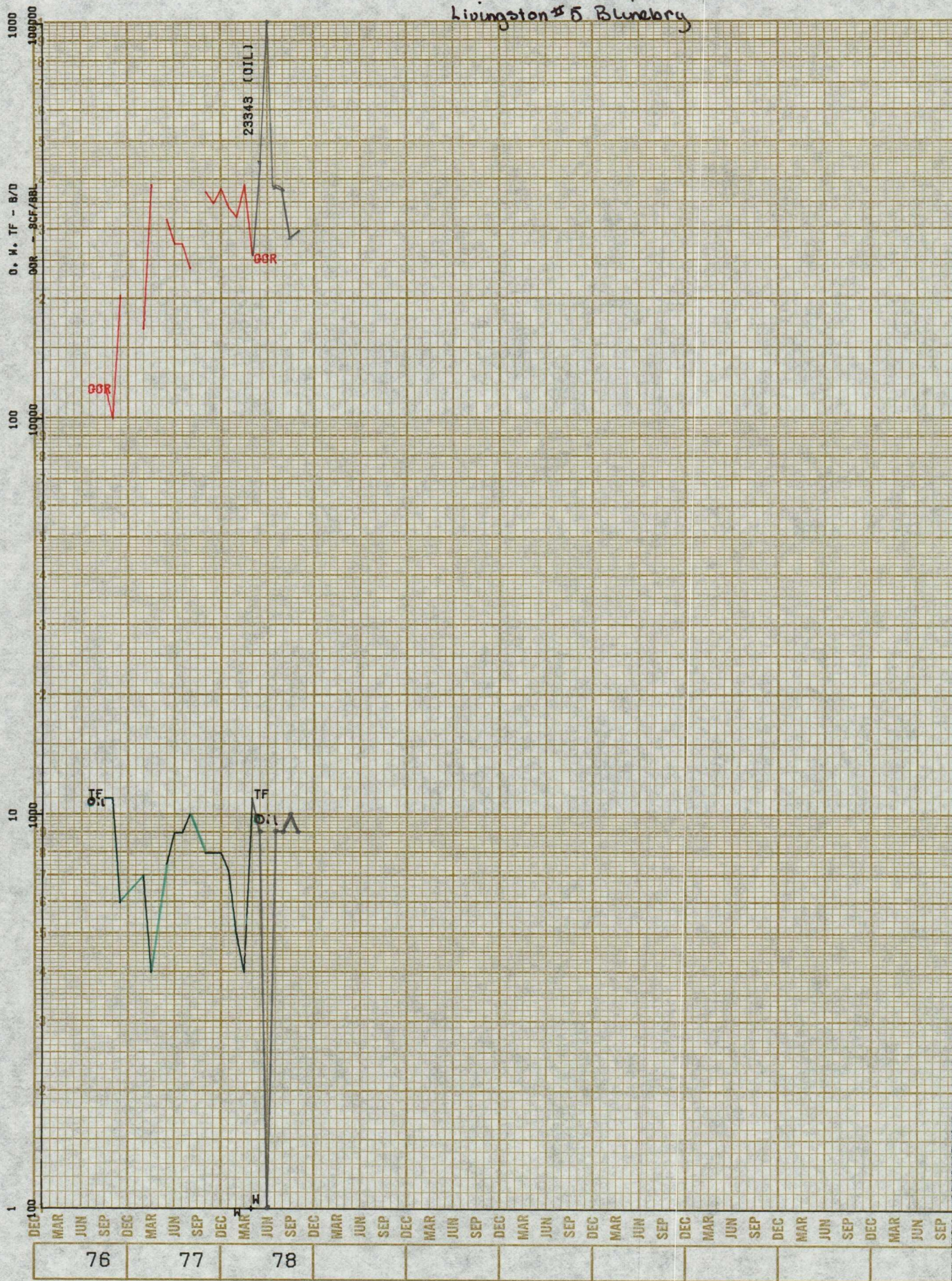
TEXACO, INC.
P. O. BOX 3109
MIDLAND, TX 79702

EXXON COMPANY - U.S.A.
P. O. BOX 1600
MIDLAND, TX 79702

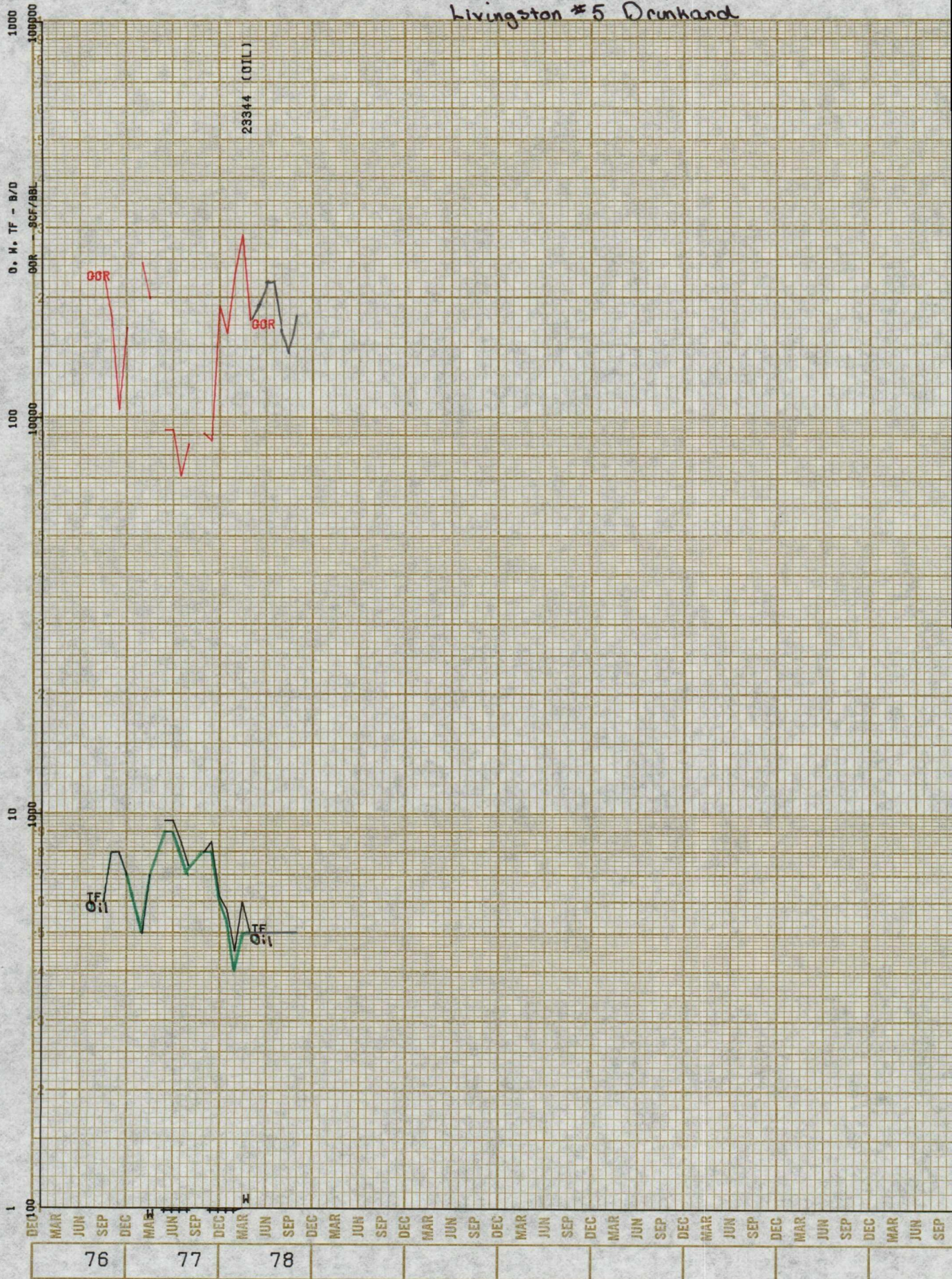
SUMMIT ENERGY, INC.
112 NORTH FIRST
ARTESIA, NM 88210



Livingston #5 Blueberry



Livingston #5 Drinkhand



NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator		Pool		County											
Shell Oil Company		Drinkard		Lea											
Address		TYPE OF TEST - (X)		Completion ☐ 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 CU.FT./BBL	
		U	S	T						R	WATER BBLs.	GRAV. OIL	OIL BBLs.		GAS M.C.F.
Livingston	5	U	3	21S	37E	11-03-78	F 48/64	95		24	0	36.5	5	90	18,000

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 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.

Mail original 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.

A. Ramirez
(Signature)
Supv. Oil Acctg.

11-17-78
(Title)

**NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS**

C-116
Revised 1-1-65

Operator Shell Oil Company		Pool Blinbry		County Lea										
Address P. O. Box 576 Houston, Texas 77001		TYPE OF TEST - (X)		Completion ☐ Special ☒										
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 BBLs.	GRAV. OIL	OIL BBLs.	
Livingston	5	U	3	21S	37E	11-02-78	F 48/64	85	24	1	36.3	8	270	33,750

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 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.

Mail original 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. Ramirez A. Ramirez
(Signature)

Supv. Oil Acctg.

11-17-78
(Title)

SHELL OIL COMPANY
SUBSURFACE PRESSURE SURVEY

Company SHELL Oil Company
Lease LIVINGSTON Well No. 5
Field DRINKARD State N. MEX.
Test Date 11/13/78

Producing Formation BLINEBRY
 Elevation (CHF, DF, KB, etc.) 3476 (DF)
 Datum -2400 subsea, or 5876 (DF)
 Tubing Obstruction at _____
 Production Packer at _____
 Perforations _____

Instrument Data

Company Running Survey	<u>SHELL OIL Co.</u>
Element—Range & No.	<u>4200 psi - 41273N</u>
Clock — Range & No.	<u>3 R - 736A</u>
Calibration Date	<u>10/22/78</u>

Static Pressure Data

Test Depth	5650	ft
Pressure at Datum (5876)	412	psig
Shut-in Time	48	hrs
P _i at Datum	—	psig
Shut-in Tubing Pressure	330	psig
Shut-in Casing Pressure	—	psig
Top of Oil	—	
Top of Water	—	
Temperature at _____ feet	—	°F
Date of Last Test		
Pressure @ Datum, Last Test	UNKNOWN	psig
Shut-in Time, Last Test		

Flow Test Data

Test Date	_____	_____
Choke Size	_____	in
Period of Stabilized Flow	_____	hrs
Stabilized Production (q)	_____	
Oil _____	_____	bbls/day
Gas _____	_____	MCF/day
Water _____	_____	bbls/day
Flowing Tubing Pressure	_____	psig
Flowing Casing Pressure	_____	psig
Cumulative Production (Q)	_____	
Oil _____	_____	bbls
Gas _____	_____	MCF
Water _____	_____	bbls
Effect. Prod' Life, $t=24 Q/q$	_____	hrs

Remarks:

SURVEYOR

FIZA

3 - M. O. KEENE LN FD 18110
1 - Cy JONES - Hobbs
1 - D. J. Rouch

[illegible]

SHELL OIL COMPANY

SUBSURFACE PRESSURE SURVEY

Company SHELL Oil Company
Lease LIVINGSTON Well No. 5
Field DRINKARD State N. MEX.
Test Date 11/13/78

Producing Formation Druckara
Elevation (CHF, DF, KB, etc.) 3476 (DF)
Datum -3050 subsea, or 6526 (DF)
Tubing Obstruction at _____
Production Packer at _____
Perforations _____

Instrument Data

Company Running Survey
Element—Range & No.
Clock — Range & No.
Calibration Date

Static Pressure Data

Test Depth	6420	ft
Pressure at Datum (6536)	453	psig
Shut-in Time	48	hrs
P _i at Datum	—	psig
Shut-in Tubing Pressure	345	psig
Shut-in Casing Pressure	—	psig
Top of Oil	—	
Top of Water	—	
Temperature at _____ feet	—	°F
Date of Last Test	12/7/77	
Pressure @ Datum, Last Test	461	psig
Shut-in Time, Last Test	49.5	

Flow Test Data

Test Date	_____	_____
Choke Size	_____	in
Period of Stabilized Flow	_____	hrs
Stabilized Production (q)	_____	
Oil	_____	bbls/day
Gas	_____	MCF/day
Water	_____	bbls/day
Flowing Tubing Pressure	_____	psig
Flowing Casing Pressure	_____	psig
Cumulative Production (Q)	_____	
Oil	_____	bbls
Gas	_____	MCF
Water	_____	bbls
Effect. Prod' Life, $t=24 Q/q$	_____	hrs

Remarks:

SURVEYOR

F12A 3-M.O. Reinbach - E210110
1-Cy Jones - H6665
1-D.J. Roach

[illegible]

OIL CONSERVATION COMMISSION
Hobbs DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE December 15, 1978

RE: Proposed MC _____
Proposed DHC X _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated _____
for the Shell Oil Co. Livingston #5-U 3-21-37
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.----J.S.

Yours very truly,

