

# Gulf Oil Exploration and Production Company

R. C. Anderson  
PRODUCTION MANAGER, HOBBS AREA

June 25, 1981

P. O. Box 670  
Hobbs, NM 88240

Re: T. R. Andrews No. 5  
Unit A-Section 32, T22S, R38E  
Lea County, New Mexico

Mr. Joe D. Ramey, Director  
New Mexico Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Dear Sir:

Your administrative approval is requested for an exception to Rule 303-C to permit down-hole commingling of marginal Drinkard and Blinebry production in the subject well.

The T. R. Andrews No. 5 was drilled and dually completed in the Drinkard and Blinebry in 1961 under Administrative Order PC-38. The two zones are currently commingled in surface facilities on the Andrews Lease under Amended Commingling Order PC-38, dated June 17, 1976.

Fluids from the two zones show no evidence of incompatibility; down-hole commingling is not expected to result in any reservoir damage. Ownership in the two pools is common and correlative rights will not be violated.

Currently, the Drinkard Zone is flowing while the Blinebry is produced with pumping equipment. If commingling in the well bore is approved, both producing zones will be pumped.

All Offset operators have been notified of the proposal to down-hole commingle the subject well. Should secondary recovery operations become practical in the future, the two zones should be separated at that time without damaging either reservoir.

Yours very truly,

  
R. C. ANDERSON

RAL/skj  
Att'd



A DIVISION OF GULF OIL CORPORATION

OFFSET OPERATORS

Texaco, Inc.  
P. O. Box 3109  
Midland, TX 79701

Amoco, Inc.  
P. O. Box 68  
Hobbs, New Mexico 88240

1. Operator: Gulf Oil Corporation, P. O. Box 670 Hobbs, New Mexico 88240
2. Lease, Well, and Location: T. R. Andrews No. 5, Unit A, 560' FNL and 660' FEL, Sec 32, T22S R38E, Lea County, New Mexico.
3. Producing Zones: Presently producing from both the Blinebry and Drinkard zones, which are to be down-hole commingled, if authorization is obtained.
4. Decline Curve: See attached sheets.
5. Bottom Hole Pressure: See attached sheets.
6. Fluid Characteristics: Production from the Blinebry and Drinkard are currently commingled in surface facilities located on the T. R. Andrews lease per Amended Commingling Order PC-38, dated June 17, 1976. To date, there has been no evidence of fluid incompatibility.
7. Well History: The T. R. Andrews No. 5 was spudded 7-4-61 and drilled to a total depth of 7150'. Seven inch production casing was set at 7323' with top of cement at 1395' by temperature survey.

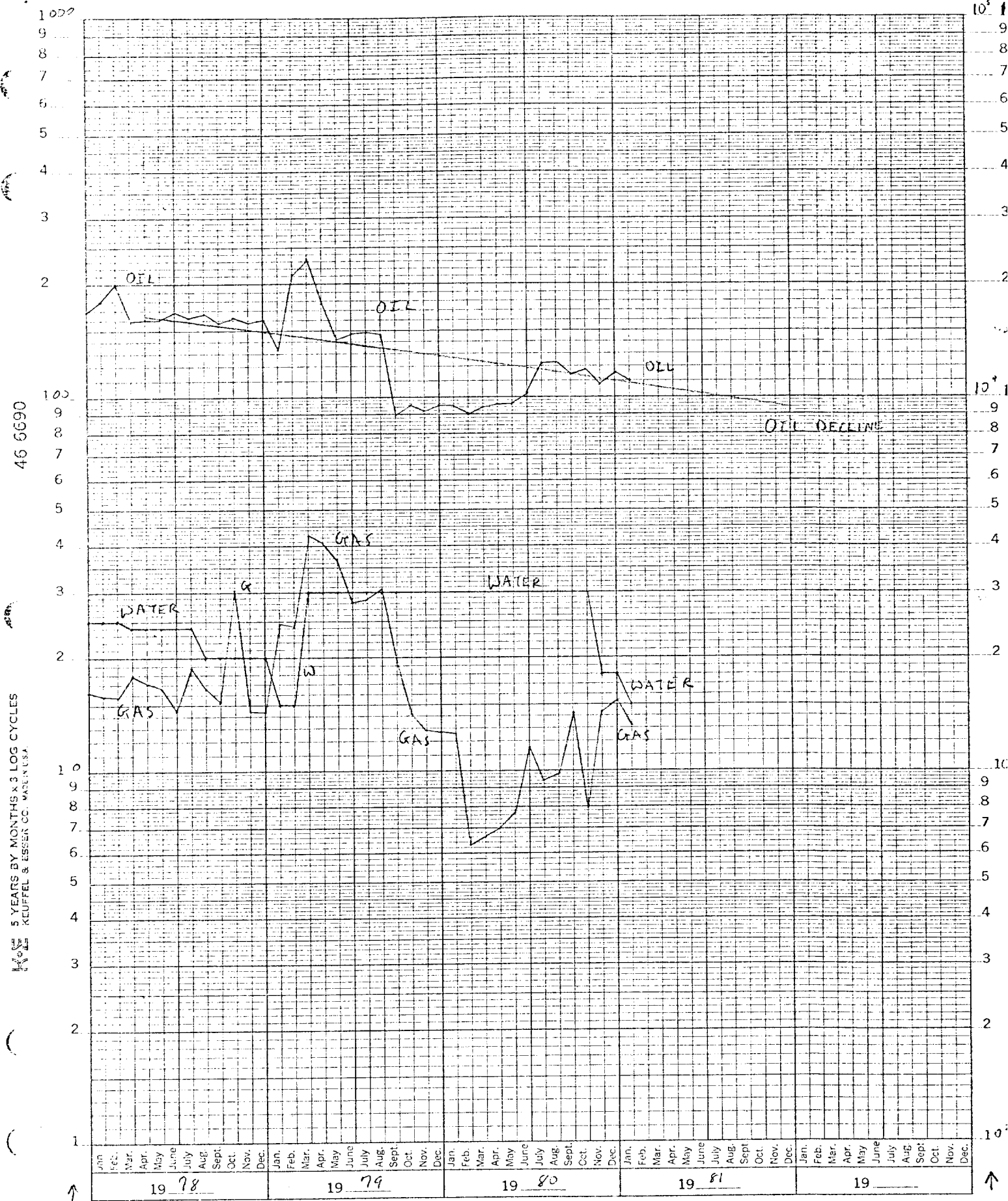
8-10-61, Drinkard zone was perforated in the intervals 6876-78', 6890-92', 6943-45', 6974-76', 7004-06', 7044-46', 7060-62', and 7108-10' with (4) ½" JHPF. The interval 6876-7110' was treated with 1000 gallons 15% NEA and 14,000 gallons dolofrac.

8-10-61, the Blinebry was perforated with (4) ½" JHPF, 5633-55', 5673-75', 5720-22', 5766-68', 5821-23', 5848-50'. The Blinebry perfs were treated with 500 gallons MA and fracture stimulated with a 24,000 gallon refined oil frac, 8-17-61.

8-25-76, the original Drinkard perforations were abandoned and new perfs made with (4) ½" JHPF in the intervals, 6400-02', 6431-33', 6454-56', 6491-93', 6522-24', and 6576-78'. The new Drinkard interval 6400-6578' was straddle acidized with 4500 gallons 15% NEA and fracture stimulated with 45,000 gallons gel water and 60,000# sand.

8-25-76, additional intervals 5488-90', 5516-18', 5569-71', and 5596-98' were perforated with (4) ½" JHPF. The interval 5488-5598' was treated with 2000 gallons 15% NEA and fraced with 4000 gallons 8.6# GW, 8000 gallons 8.6# GW pad with ½# 100 mesh SPG, and 20,000 gallons 1-3# 20-40 SPG.

8. Value of Commingled Fluids: Blinebry and Drinkard production is now commingled in surface tank facilities on the subject lease per Amended Commingling Order PC-38; therefore, down-hole commingling of the zones will not effect the price.
9. Current Production: See attached C-116
10. All other operators are being notified by copy of this application.



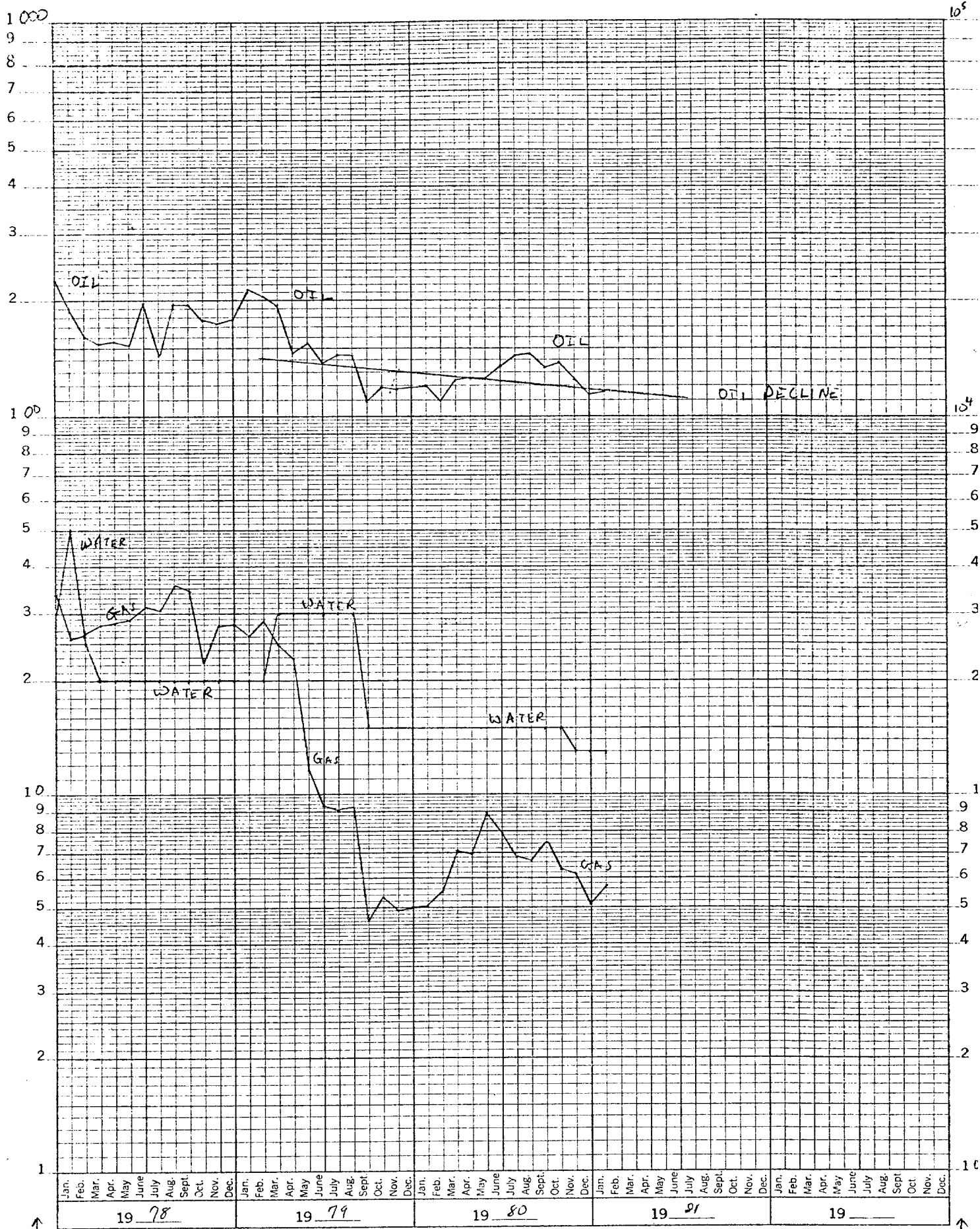
OIL PROD 80/mo.  
WATER PROD 1200/mo.

T.R. Andrews #5  
Blindbry

GAS PROD MCFG/mo

5 YEARS BY MONTHS X 3 LOG CYCLES  
KEUFFEL & ESSER CO. MADE IN U.S.A.

46 6690



Oil Prod BOPD  
WATER PROD BW/MO

T.R. Andrews #5  
Drinkard

Gas Prod MCFG/MO

## GAS-OIL RATIO TESTS

Operator		Pool		County													
Gulf Oil Corporation		Blinbry		Lea													
Address		Box 670, Hobbs, NM 88240		TYPE OF TEST - (X)													
LEASE NAME		WELL NO.		SCHEDULED <input type="checkbox"/> COMPLETION <input type="checkbox"/> SPECIAL <input checked="" type="checkbox"/>													
		LOCATION		DATE OF TEST													
		U	S	T	R												
		DATE OF TEST		CHOKE SIZE													
		TBG. PRESS.		DAILY ALLOW-ABLE													
		LENGTH OF TEST HOURS		PROD. DURING TEST													
		WATER BBL.S.		GRAV. OIL BBL.S.													
		GAS M.C.F.		GAS - OIL RATIO CU.FT/BBL													
T. R. Andrews		5	A	32	22	38	6-12-81	P	2" WO	40	4	24	10	37.4	13	43.0	3308

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 allowances 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.

A. E. Anderson  
(Signature)  
Well Tester

June 16, 1981



## RESERVOIR PRESSURE REPORT

TYPE OF REPORT - (X)		Tool		County		Date												
Initial Completion	Special	Drinkard		Lea		6-8-81												
General Survey	X	Producing Formation		Oil Gradient		Water Gradient												
Operator		Address		psi./ft.		psi./ft.												
Gulf Oil Corporation		P.O. Box 670 Hobbs, N.M. 88240		Drinkard		-3050												
LEASE	WELL NO.	LOCATION			ELEV. (ft.)	OIL OR GAS (g)	DATE TESTED	SHUT-IN PRESS.	BOMB TEST DATA				SONIC INSTRUMENT TEST DATA*				PRESS. AT DATUM	
		U	S	T					R	TEST DEPTH	B.M. TEMP. °F	OB. SERVED PRESS.	PROD. TEST (BBL./DAY)	LIQUID LEVEL	LIQUID GRAD. (lb./ft.)	WT. OF LIQUID COL. PSI		WT. OF GAS COL. PSI
T.R. Andrews	5	A	32	22	38	3374	6-4-81	26	78	6300	106	1300						1341

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.

Signature

June 8, 1981



