

Mobil Exploration & Producing U.S. Inc.

January 26, 1994

HOUSTON DIVISION
12450 GREENSPPOINT DRIVE
HOUSTON, TEXAS 77060-1991

State of New Mexico
Oil Conservation Division
State Land Office Bldg.
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Attn: William J. Lemay
Director

EXCEPTION TO RULE 104(F) &
RULE 303(A)
CORRIGAN GAS COM, WELL NO. 5
BLINEBRY & TUBB GAS POOLS
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Exploration & Producing U.S. Inc., (MEPUS) as agent for Mobil Producing Texas & New Mexico, Inc. (MPTM) requests administrative approval to downhole commingle production from the Blinebry and Tubb Gas Pools and produce the existing Paddock up the annulus within the wellbore of its Corrigan Gas Com, Well No. 5 at an unorthodox location. Well No. 5 is located 535 feet from the West line and 660 feet from the North line (Unit J) of Section 33, T-21-S, R-37-E, Lea County, New Mexico and will be located on the same 160-acre proration unit as Well No. 7, which is currently a Blinebry producer. Well No. 5 is currently carried as the Hugh Corrigan Well No. 5

The subject well meets all prerequisites for commingling, as set out in Rule 303(C). The ownership of these zones is common, and they have been successfully commingled on adjacent leases with no incompatibility of fluids found.

In support of this application, the following is submitted:

- 1) Forms C-101 and C-102
- 2) Location plat
- 3) Data sheet for both zones
- 4) Computation of relative values for hydrocarbons

Mobil

New Mexico Oil Conservation Div.

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- 5) Present/proposed wellbore sketches
- 6) Production plats
- 7) Form C-116 Well Test for offset well
- 8) List of offset operators

A copy of this letter and Forms C-101 and C-102 and location plats are being furnished to offset operators on the attached list by certified mail as their notification of this application.

Should you need additional information, please feel free to contact me at 713-775-2099.

Sincerely,



Bobbie R. Brown
Env. & Reg. Technician II

Attachments

cc: Oil Conservation Division - Hobbs
Offset Operators

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL ☐ RE-ENTER ☐ DEEPEN ☒ PLUG BACK ☐		7. Lease Name or Unit Agreement Name Corrigan Gas Com
b. Type of Well: OIL WELL ☐ GAS WELL ☒ OTHER Downhole Commingle ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐		
2. Name of Operator Mobil Producing TX & NM Inc. Mobil Exploration & Producing U.S. Inc. as agent for		8. Well No. 7
3. Address of Operator 12450 Greenspoint Dr., Houston, TX 77060		9. Pool name or Wildcat Blinebry Gas & Tubb Gas
4. Well Location Unit Letter <u>J</u> : <u>660</u> Feet From The <u>North</u> Line and <u>535</u> Feet From The <u>West</u> Line		

Section 33

Township 21S

Range 37E

NMPM

Lea

County

10. Proposed Depth 6440' PBTD		11. Formation Blinebry/Tubb	12. Rotary or C.T. Rotary		
13. Elevations (Show whether DF, RT, GR, etc.) 3440' GR	14. Kind & Status Plug. Bond on file	15. Drilling Contractor NA	16. Approx. Date Work will start ASAP		
17. PROPOSED CASING AND CEMENT PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/4"	13 3/8"	48#	300'	300	Surf
11"	8 5/8"	32#	3925'	1000	
7 3/4"	5 1/2"	17#	6595'	475	3575'

Well No. 5 is currently carried as Hugh Corrigan #5 and is a single completion in the Paddock (5250-5270'). The well will now be included on the Corrigan Gas Com and permission is requested to perf the Blinebry (5470-5916') and Tubb (5982-6307'), downhole commingle the Tubb and Blinebry and produce the Paddock up the annulus.

- 1) POOH w/2 3/8" tubing
- 2) Set retrievable packer +/-5900', perf Tubb, acidize, frac, test and set plug
- 3) Set test packer +/- 5450', perf Blinebry, acidize, frac, test
- 4) Pull plug above Tubb
- 5) RIH w/2 3/8" production tubing, set packer above Blinebry, swab and put on production

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

SIGNATURE Bobbie R. Brown TITLE Env. & Reg. Tech II DATE July 26, 1994

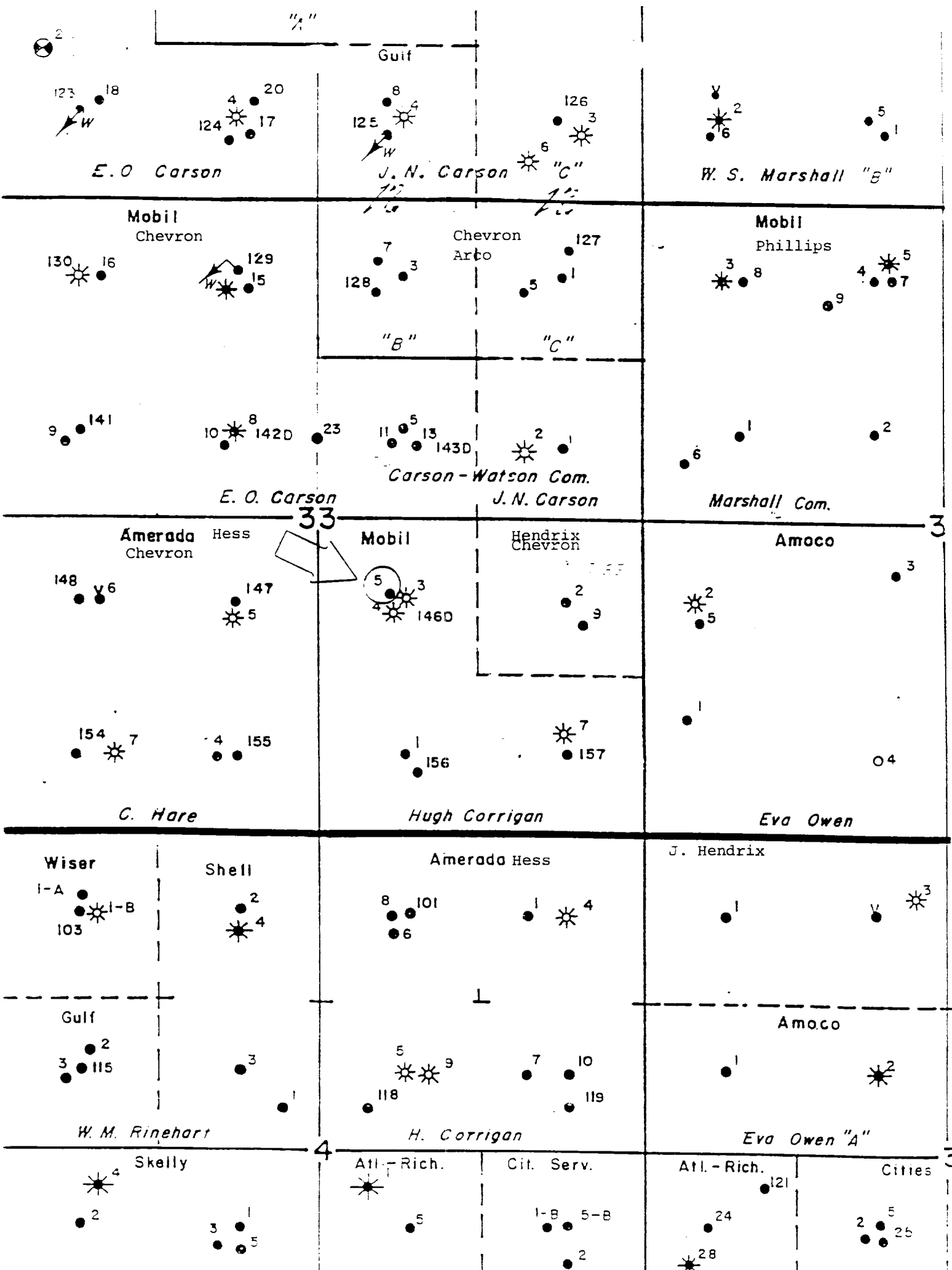
TYPE OR PRINT NAME Bobbie R. Brown

TELEPHONE NO. 713/775-209

This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



DATA SHEET

1. Lease Name Corrigan Gas Com
2. Well No. 5
3. Well Location: Unit J, 535 feet from West line,
660 feet from North line of Section 33,
Township 21-S Range 37-E, Lea County, New Mexico
4. Upper Zone Blinebry
5. Completion Interval 5470-5916'
6. Lower Zone Tubb
7. Completion Interval 5982-6307'
8. Current Productivity Test Summary:

	<u>Blinebry</u> (Upper Zone)	<u>Drinkard</u> (Lower Zone)
	Proposed Values	Proposed Values
Producing Method	<u>Flowing</u>	<u>Flowing</u>
Oil Bbl/day	<u>3</u>	<u>3</u>
Gas Mcf/day	<u>350</u>	<u>150</u>
Water Bbl/day	<u>0</u>	<u>0</u>

9. Bottom-hole Pressure of Upper Zone 580 psi*
10. Bottom-hole Pressure of Lower Zone 580 psi*
11. Fluid Characteristics of Each Zone 0.68 gas gravity

* Bottom-hole pressures are estimated based on shut-in tubing pressure of offset well

COMPUTATION OF RELATIVE
VALUES OF THE HYDROCARBON
PRODUCTIVE BEFORE AND
AFTER DOWNHOLE COMMINGLING
(STATEWIDE RULE 303-C-2-H)

Lease and Well No. Corrigan Gas Com #5

	<u>Proposed Upper Pool</u>	<u>Lower Pool</u>	<u>Commingled</u>
Pool Name	Blinebry	Tubb	
Selling price/MCF	1.96	1.96	1.96
Daily Production/MCF	350	150	500
Daily Income	<u>\$686.00</u>	<u>\$294.00</u>	<u>\$980.00</u>

TOTAL DAILY INCOME
(POOLS SEPARATED) \$980.00

Net difference realized from downhole commingling \$686.00

REMARKS: This commingle permit is being requested in an attempt to meet allowable for acreage. An expense savings of \$55,000 for dual tubing, hanger and tie would be saved with a single completion versus a dual completion. A single Tubb completion would not be as economical as a commingled single.

Well : H. CORRIGAN NO.5 Location: 21S-37E-33
Field : EUNICE AREA Date : 10/18/93
Function: PRODUCER By : D.B. HEBERT

CONDUCTOR CASING
SIZE : 13-3/8 WT: 48#
SET @: 300' W/: 300 SX
SURFACE CASING
SIZE : 8-5/8" WT: 32#
SET @: 3925' W/: 1000 SX
PRODUCTION CASING
SIZE : 5-1/2" WT: 17#
BOT : 6595' W/: 475 SX

=/=<SQZ'D HOLE @ 3150' W/400 SX
<<PREVIOUS CMT Top @ +/-3000' CALC W/
7-3/4" HOLE

PRODUCTION TUBING
SIZE : 2-3/8" WT:

=/ Paddock perfs sqz'd
--SN @ 5201'
--Guiberson KV-30 pkr @ 5231'

=/ sqz'd
== Paddock Perfs 5250'-5270' @ 1spf
=/ sqz'd

.....
--CIBP @ 6450' W/ 10' CMT

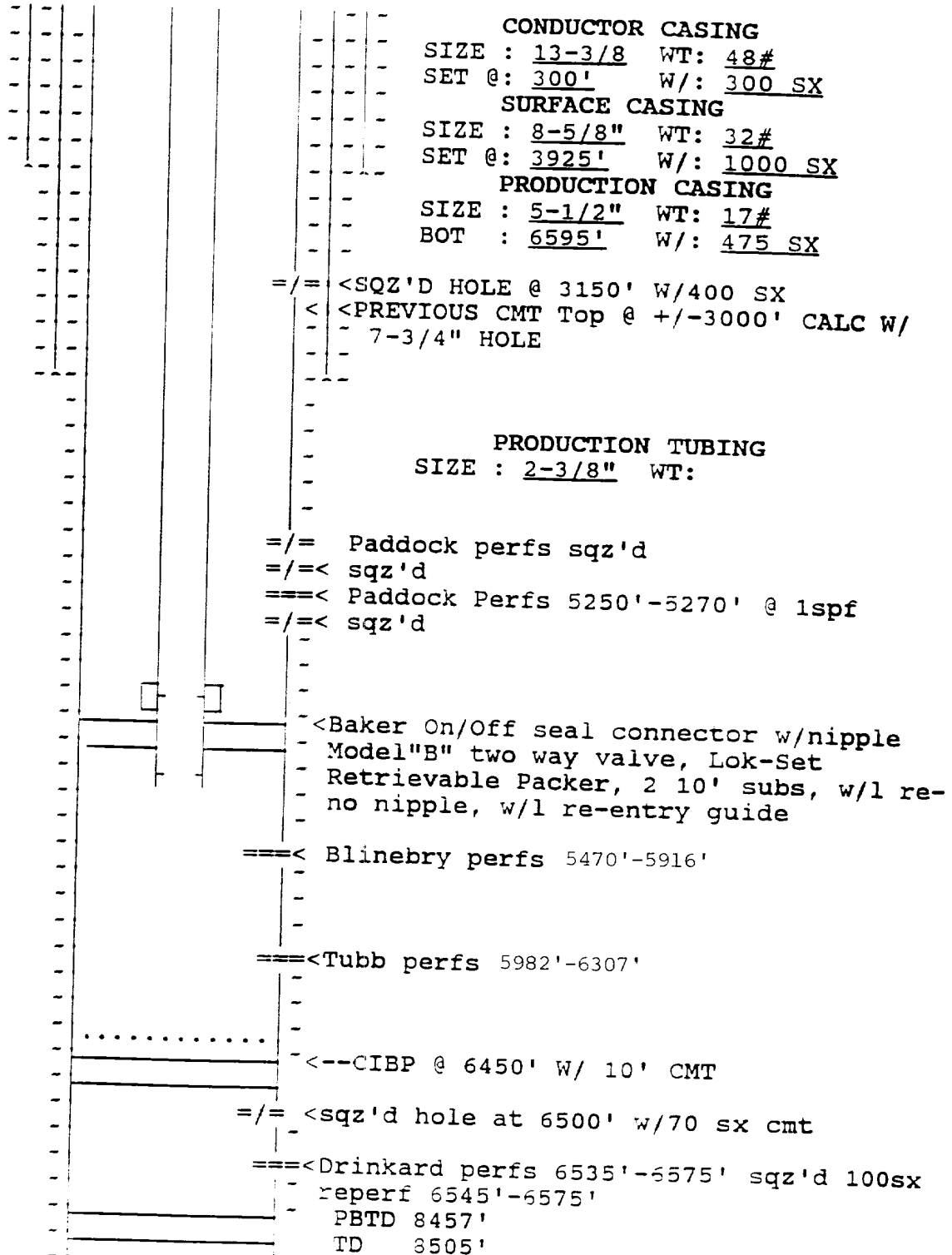
=/ <sqz'd hole at 6500' w/70 sx cmt
==<Drinkard perfs 6535'-6575' sqz'd 100sx
~ reperf 6545'-6575'

~ PBTD 8457'
~ TD 8505'

PROPOSED COMPLETION

Well : H. CORRIGAN NO.5
Field : EUNICE AREA
Function: PRODUCER

Location: 21S-37E-33
Date : 10/18/93
By : D.B. HEBERT



The graph displays three production metrics over a 19-year period (1980-1999):

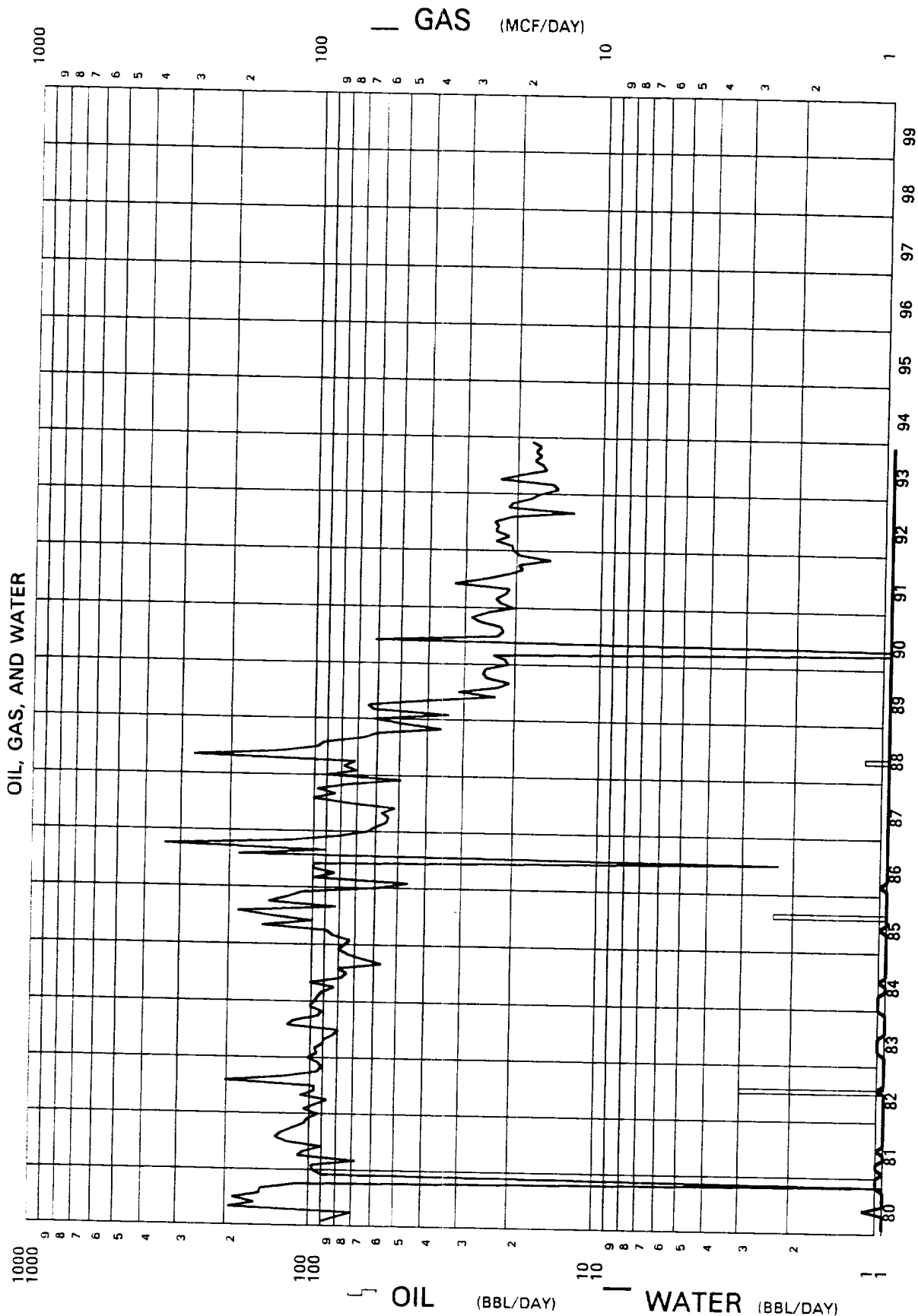
- OIL (BBL/DAY):** Represented by the left Y-axis (log scale, 1 to 1000). The production curve shows high volatility, with major peaks around 1985 and 1993, and a general downward trend after 1993.
- GAS (MCF/DAY):** Represented by the right Y-axis (log scale, 1 to 1000). The production curve shows a consistent, steady increase from 1980 to 1999.
- WATER (BBL/DAY):** Represented by the bottom Y-axis (log scale, 1 to 10). The production curve shows a sharp peak around 1990, followed by a decline.

Field: BLINEBRY (OIL & GAS) District: 004
Lease: CARSON WATSON COM 002 Cum: 1904
Operator: MOBIL OPERATED Gas Cum: 1623507

Retrieval Code: „0404230056119

Date: Tue Jan 25 14:49:08 1994

Mobil Exploration & Producing U.S.



Field: TUBB (OIL & GAS) District: 004
 Lease: CARSON WATSON COM 002 IOTI Cum: 1832
 Operator: MOBIL OPERATED Gas Cum: 1665585

Retrieval Code: .0404340056119

Date: Tue Jan 25 14:49:08 1994

GAS - OIL RATIO TEST

Operator		Pool		BLINEBRY (PRO GAS) (CONSOLIDATED)		TUBB (PRORATE)	GAS	LEA						
MOBILE PRODUCING TX & NM INC														
Address		TYPE OF TEST - (X)		Scheduled	X	Completion	Special							
12450 GREENSPPOINT DR, HOUSTON ,TX 77060														
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						WATER BBL'S.	GRAV. OIL	OIL BBL'S.		GAS MCF
CARSON WATSON COM	2	H	33	21	8-7-93	F	55		24	0	0	0	65	
														DHC 794
														BLINEBRY TUBB
														TOTAL
							76%				0	0	58	
							24%				0	0	7	
							100%				0	0	65	

Instructions:

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."

(See Rule 301, Rule 116 & appropriate pool rules.)

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

Signature

CARLA C GHAZIZADEH

Printed name and title

9-30-93

File

ENV & REG ASST

(713 775-2092

Telephone No. _____

CORRIGAN GAS COM, WELL NO. 5
OFFSET OPERATORS

Amoco Production Co.
P.O. Box 3092
Houston, TX 77253

Shell Oil Co.
P.O. Box 2463
Houston, TX 77252

Chevron USA
P.O. Box 1150
Midland, TX 79702

ARCO Oil and Gas Co.
P.O. Box 1710
Hobbs, NM 88240

Amerada Hess Corp.
1201 Louisiana, Suite 700
Houston, TX 77002

John H. Hendrix Corp.
223 W. Wall, Suite 525
Midland, TX 79701-4519

Phillips Petroleum Co.
4044 Penbrook
Odessa, TX 79762