



SHELL OIL COMPANY

PETROLEUM BUILDING
P.O. BOX 1509
MIDLAND, TEXAS 79701

March 15, 1978

17 1978
S. 11

DHC-240
Due - 4/6/78

Subject: Application for Downhole
Commingled for Shell Grimes
Well No. 9, Section 28,
T-18-S, R-38-E
Hobbs Field
Lea County, New Mexico

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

Hobbs - Blinebry
Hobbs - Drinkard

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 Grimes Well No. 9, located in Unit M of Section 28, T-18-S, R-38-E, Lea County, New Mexico.

Both Blinebry and Drinkard zones are classified as oil zones with the Blinebry currently pumping an average of 21 BO + 56 MCFGPD (GOR 2,600 CF/B). The Drinkard zone is flowing an average of 11 BO + 130 MCFGPD (GOR 11,800 CF/B). Commingled production is not expected to exceed the 40 BOPD oil limit or the 852 MCFPD gas limit. Both zones are in a state of steady decline.

Production from the Blinebry and Drinkard pools is commingled at the battery by NMOCC Order No. MC-1894, with no indications of fluid incompatibility. Therefore, commingling downhole would not create a difference in value of the two zones. Ownership is common throughout all zones.

MC-1894 ✓

Bottom hole pressures are estimated to be 450 psi for the Blinebry and 400 psi for the Drinkard.

A copy of this application is being sent to the 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:DCW

Attachments

cc - Offset Operators

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

Bl	21 BO	56 mcf
Dr	<u>11 BO</u>	<u>130 mcf</u>
	32	186

Bottom pf 6956

OFFSET OPERATORS
SHELL GRIMES LEASE
LEA COUNTY, NEW MEXICO

AMERADA HESS CORPORATION
P. O. BOX 2040
TULSA, OK 74102

ATLANTIC RICHFIELD COMPANY
P. O. BOX 1610
MIDLAND, TX 79702

CHEVRON OIL COMPANY
P. O. BOX 1660
MIDLAND, TX 79702

CONTINENTAL OIL COMPANY
P. O. BOX 431
MIDLAND, TX 79702

GETTY OIL COMPANY
P. O. BOX 1231
MIDLAND, TX 79702

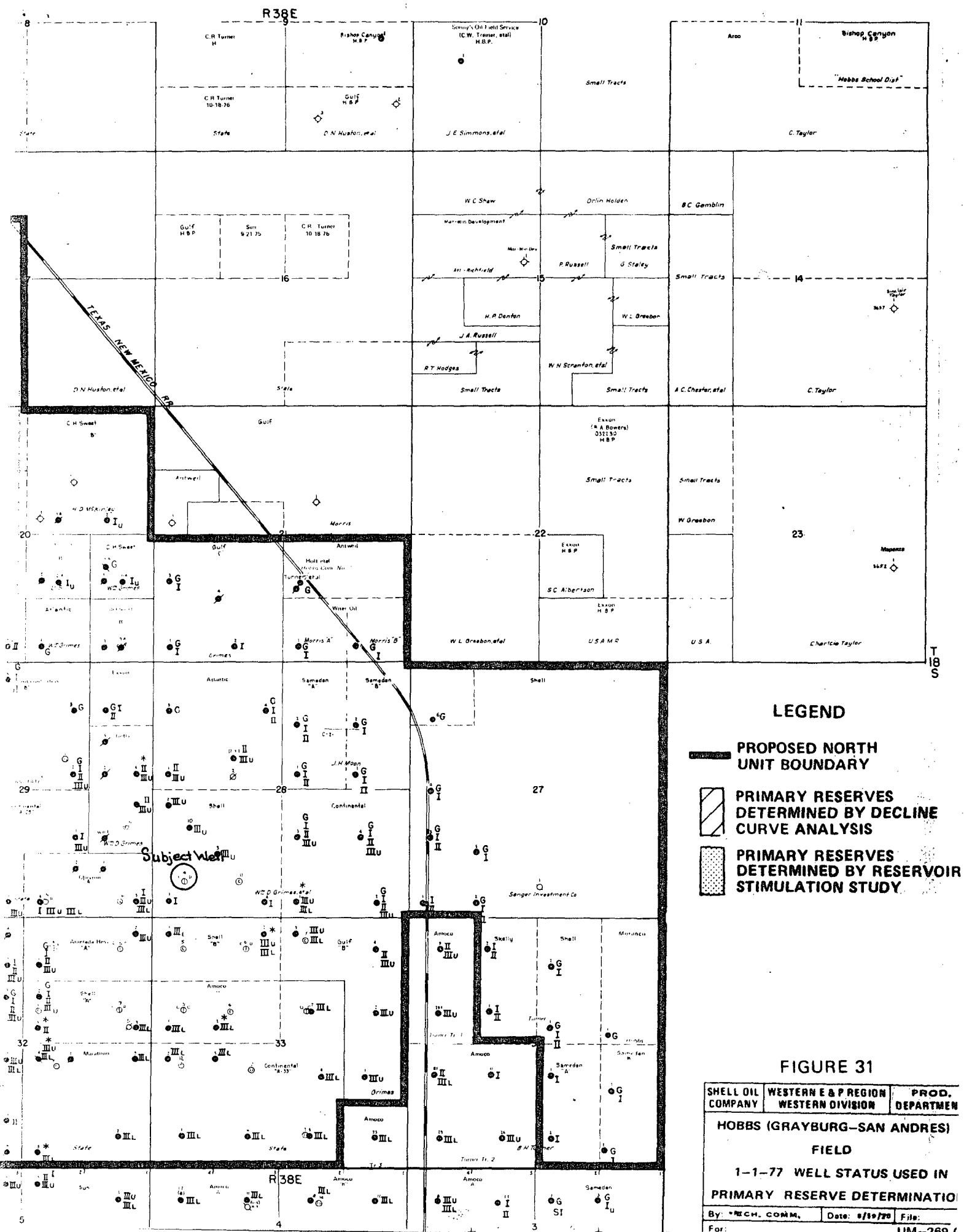
GULF OIL CORPORATION
P. O. BOX 1150
MIDLAND, TX 79702

SAMEDAN OIL CORPORATION
2207 WILCO BUILDING
MIDLAND, TX 79701

SHELL-GRIMES WELL NO. 9
HOBBS (BLINEBRY-DRINKARD) FIELD
LEA COUNTY, NEW MEXICO
BLINEBRY AND DRINKARD POOLS

ESTIMATED BOTTOM HOLE PRESSURES

Blinebry Pool	450 psi
Drinkard Pool	400 psi



NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-63

Operator		Pool		County		Lea								
Shell Oil Company		HOBBS (BLINBERRY)												
Address		P. O. Box 576 Houston, Texas 77001		TYPE OF TEST - (X)		SCHEDULED								
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL	
		U	S	T						R	WATER BBL.	GRAV. OIL		OIL BBL.
Grimes	9	M	28	18	38	12-5-77	P	17	24	5	34.8	21	56	2,667

Completion ☐ Special ☒

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.

M. J. Adams
(Signature)

M. J. ADAMS

Supv. Oil Acctg.

(Title)

12-9-77

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-1116
Revised 1-1-63

Operator Shell Oil Company		Pool Hobbs (Drinkard)		County Lea										
Address P. O. Box 576 Houston, Texas 77001		TYPE OF TEST - (X)		Completion ☐ Spectral ☐										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	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.
Grimes	9	M	28	18	38	2-1-78	F	8	24	11	34.5	11	130	11,818

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.

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

M. J. Adams M. J. ADAMS
(Signature)

Supv. Oil Acctg.

(Title)

2-7-78

(Date)

INDIVIDUAL WELL TEST RECORD (OIL)

WELL DATA

LEASE & WELL Grimes - 9
 FIELD Hobbs
 FORMATION DRINKARD
 DATE COMP. _____
 PROD. METHOD Natural Flow
 SINGLE _____ MULTIPLE ☒
 DATUM TO CHF 9'
 TOTAL DEPTH 7102'
 PBTD 7065'
 SURFACE CSG. _____
 INTERM. CSG. _____
 OIL STRING 9 5/8" 36# to 3757
 LINER 7" 23# 3589 - 7102
 TYPE COMP. perf
 PROD. INTERVALS 6765 - 6956
(8 holes)
 TYPE LIFT EQUIP. _____
 ORIGINAL PRESS. _____
 PRESS. DEPTH & DATE _____

PUMP DATA

TUBING SIZE 2"
 PUMP SIZE _____
 PUMP DEPTH _____
 S.P.M. _____
 STROKE LENGTH _____

LEGEND

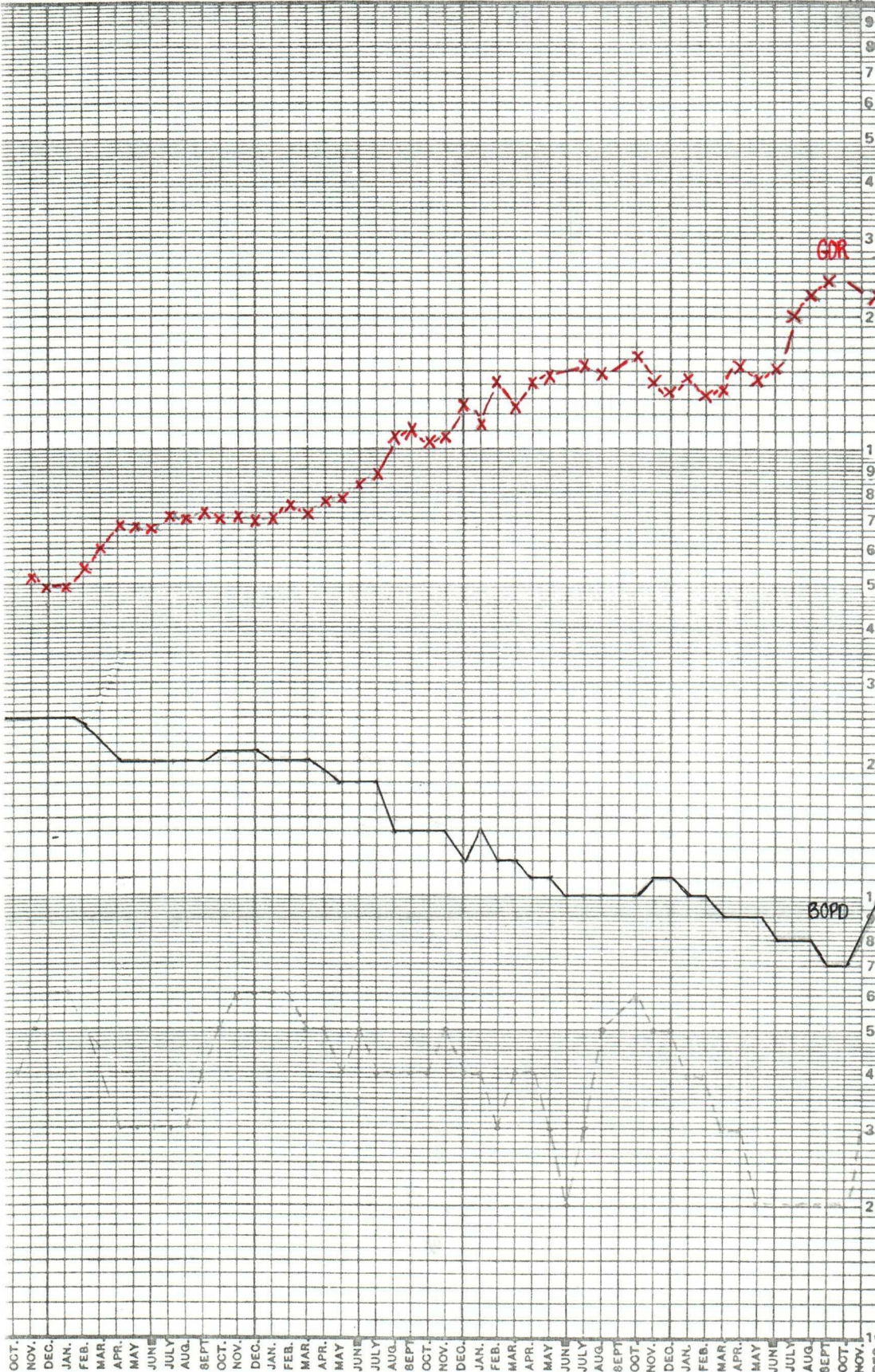
— BOPD, - - - - - BWPD,
 x-x-x-x GOR, FTP,
 Δ 02 thru Δ 99 refers to NON-
 SCHEDULED DOWN TIME CODES

TREATMENT HISTORY

(date, amount, type, improvement)

OTHER INFORMATION

Dual well
2" tbq under pkr



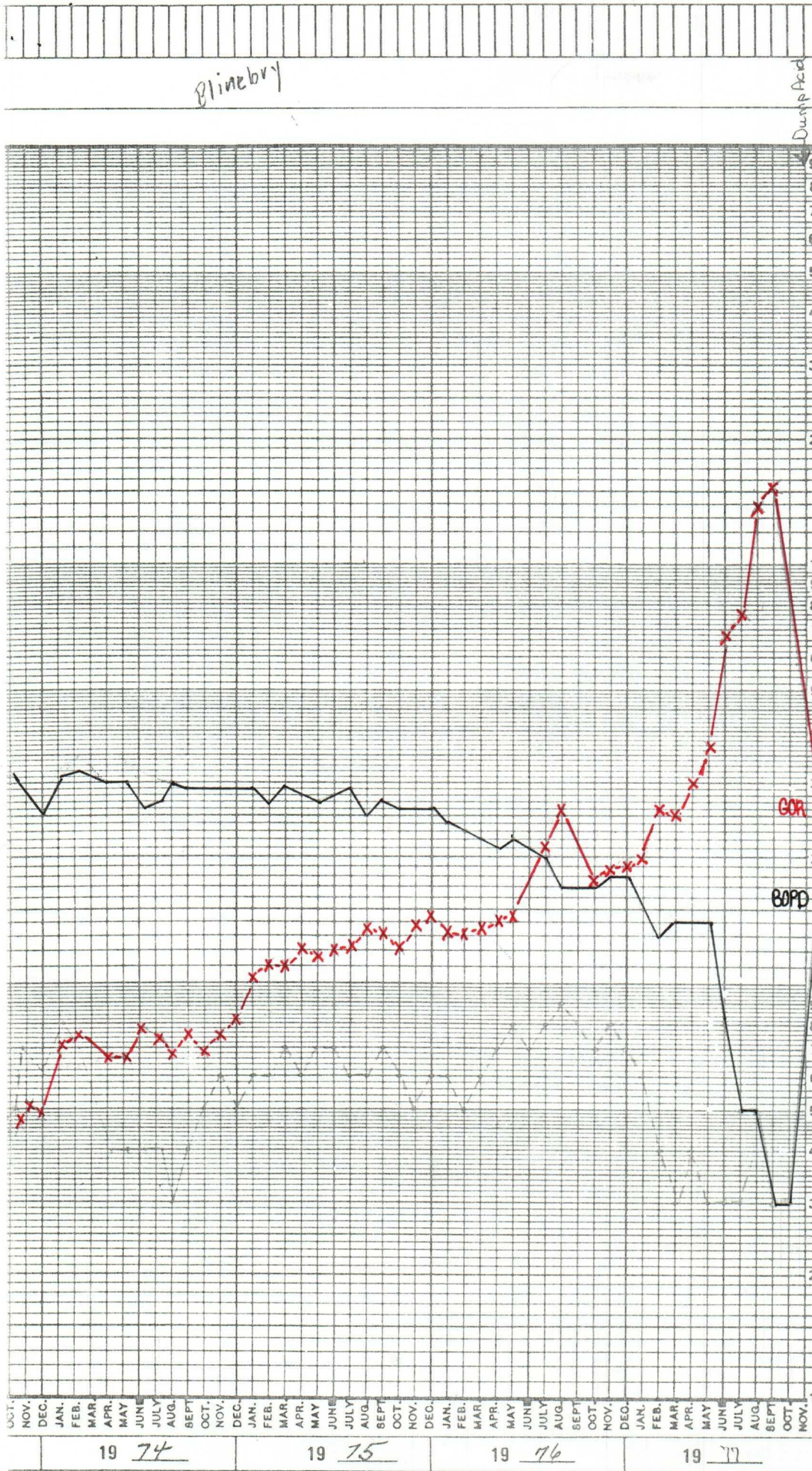
19 74

19 75

19 76

19 77

control No. 28274



INDIVIDUAL
WELL TEST RECORD
(OIL)

WELL DATA

LEASE & WELL GRIMES-9
FIELD HOBAS
FORMATION Blindbry
DATE COMP. _____
PROD. METHOD pumping
SINGLE _____ MULTIPLE ✓
DATUM TO CHF 9'
TOTAL DEPTH 7102'
PBDT 7065'
SURFACE CSG. _____
INTER. CSG. _____
OIL STRING 9 5/8" 36# to 3757
LINER 7" 23# 3589-7102
TYPE COMP. perf
PROD. INTERVALS 5892-5979
TYPE LIFT EQUIP. _____
ORIGINAL PRESS. _____
PRESS. DEPTH & DATE _____

PUMP DATA

TUBING SIZE 2" EVE
PUMP SIZE _____
PUMP DEPTH 6042
S.P.M. 12
STROKE LENGTH 74

LEGEND

— BOPD, - - - - BOPD,
x - x - x - GOR, FTP,
△ 02 thru △ 99 refers to NON-
SCHEDULED DOWN TIME CODES

TREATMENT HISTORY

(date, amount, type, improvement)

OTHER INFORMATION

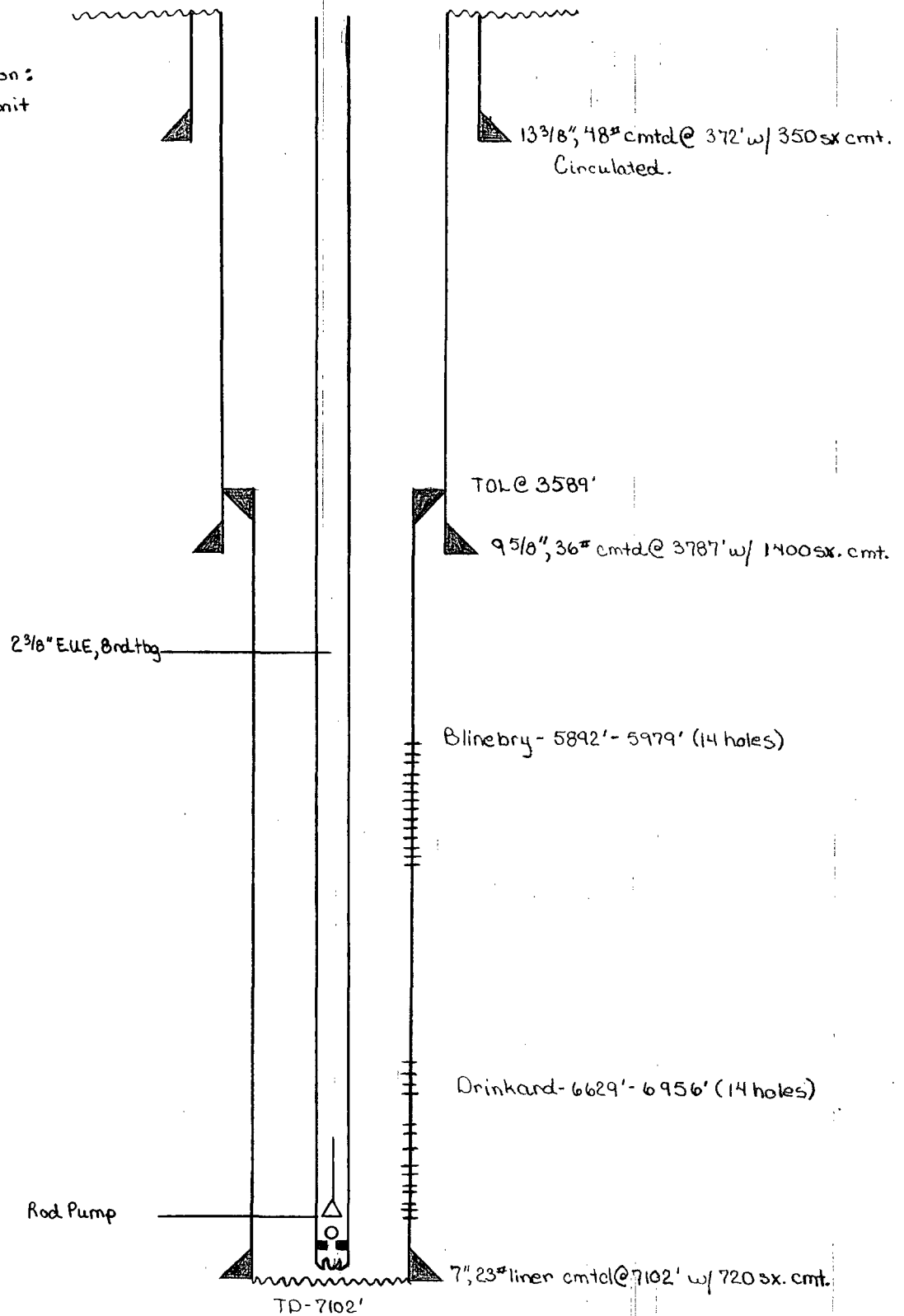
191 jts 2" EVE hung
@ 6076
Dual well

Control No. 28379

Shell-Grimes Well No. 9
Hobbs (Blinebry / Drinkard) Field
Lea County, New Mexico
Drinkard & Blinebry Pools
Proposed Downhole Mechanical Arrangement

T.D. - 7102'
Elev - 3657' DF
Zero = GL + 9'

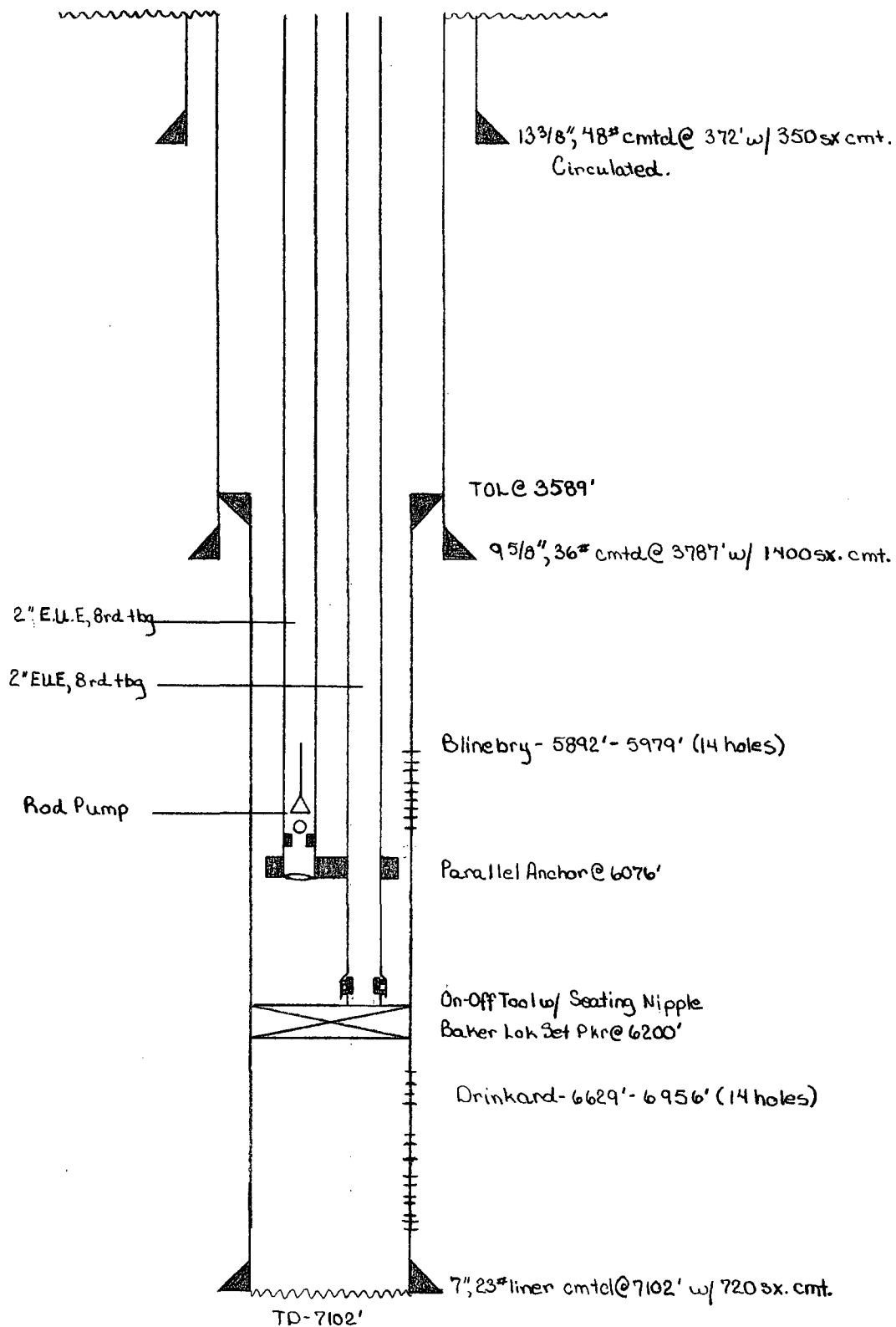
Method of Production:
Beam Pumping Unit



Shell = Grimes Well No. 9
Hobbs (Blinebry / Drinkard) Field
Lea County, New Mexico
Drinkard & Blinebry Pools
Current Downhole Mechanical Arrangement

T.D. - 7102'
Elev - 3657' DF
Zero = 61+9'

Blinebry - pumping
Drinkard - flowing



SECTION 28, T-18-S, R-38-E

COUNTY Lea Co NM

DATUM 3657' [OF] G.L. ELEV. 3648' TD 7102' PBD [

Elev 3657' Zero-Gk+9'	CASING RECORD					LOGGING RECORD			
	SIZE	WT.	DEPTH	CMT.	TOC	DATE	CO.	TYPE	INTERVAL
	13 3/8"	48#	372'	350sx	Circ				
	9 5/8"	36#	3787'	1400sx					
	7" Unier	23#	3589'-7102'	720sx					
13 3/8" @ 372'	E-LOG TOPS			PERFORATIONS AND/OR OPEN HOLE					
	ZONE	TOP	SUBSEA	DATE	ZONE	DEPTHS		DENS & SIZE	
	Yates	2644'	+1012'	9-10-68	Drnk	67165'; 6910'; 6913'; 6937';		1JSPF	
	Queen	3367'	+290'			6944'; 6946'; 6954';			
	Grybry	3680'	-23'			6956'			
	SA	3971'	-314'	9-16-69	Drnk	6705'; 6707'		1-1/2" JSPF	
	Glor	5344'	-1687'	9-19-69	"	6029'; 6031'; 60607'; 60609'		1-1/2" JSPF	
	Blinbry	5742'	-2085'	9-29-69	Blinbry	5892'; 5901'; 5904'; 5910'; 5918'		1-1/2" JSPF	
	Tubb	6044'	-2787'			5928'; 5934'; 5939'; 5949'; 5953';			
	Drnk	6550'	-2893'			5956'; 5960'; 5966'; 5979'			
TOLP 3589' 9 5/8" @ 3787'							* NOT OPEN NOW		
	SQUEEZE & REPAIR								
	GOC			DATE	DEPTH	WORK DONE			
	OWC								
Blinbry 5892'- 5979'	STIMULATION								
	DATE	ZONE	AMOUNT & TYPE			METHOD	BEFORE	AFTER	
	9-11-69	Drnk	9000g 15% Unisol			AT Drnk			
	9-16-69	"	1000g 15% Unisol			AT 6705'-6707'			
	9-19-69	"	800g " "			AT 6029'-6069'			
			10,000g " "			AT 6029'-6707'			
	9-30-69	Blinbry	5,000g 15% Unisol			AT Blinbry 5892'-5979'			
			3,000g 7 1/2% EFA acid			" "		93	
	7-1-72	Drnk	3000g 15% NMAcid			AT 6029'-6956'	2080+	2280+	
						Max/Min-Vac ISIP-Vac	12 MCF	18 MCF	
7" @ 7102' TD 7102'						AIR-4.2 BPM			
	11-30-77		500g 15% NEA			Dump acid down + log / log			
						annulus			
	DATA AVAILABLE						DST CORE ☒	PVT OTHER ☐	
	REMARKS: Core #1 & #2 @ 6902'								
	Blinbry - ppg. Luffkin 228								
	Drinkard - flow								
							DATE:		

OIL CONSERVATION COMMISSION
Hobbs DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE March 21, 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. Shell Grimes #9-M 28-18-38
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

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

Yours very truly,

