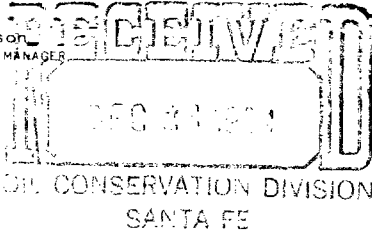


Gulf Oil Exploration and Production Company

R. C. Anderson
PRODUCTION MANAGER
HOBBS AREA



December 17, 1984

P. O. Box 670
Hobbs, NM 88240

Re: C. D. Woolworth #7
Unit J, Section 30-T24S-R37E
Lea County, New Mexico

Case 8467

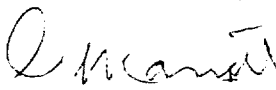
Mr. Richard L. Stamets
Energy and Minerals Department
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Your administrative approval is requested for an exception to Rule 303-C to permit down-hole commingling of Jalmat Yates Seven Rivers and Langlie Mattix Seven Rivers Queen production in the subject well.

Please find enclosed all pertinent data regarding this application as outlined in Rule No. 303-C.

Yours very truly,


for R. C. ANDERSON

MJP/skc
Enclosures

cc: New Mexico Oil Conservation Division
District I Office
P. O. Box 1980
Hobbs, New Mexico 88240

Offset Operators



C. D. Woolworth #7
Unit J, Section 30-T24S-R37E
Lea County, New Mexico

Approval is requested for an exception to Rule 303-C to permit down-hole commingling of the Jalmat Yates Seven Rivers and Langlie Mattix Seven Rivers Queen production in the subject well.

The C. D. Woolworth #7 was approved for dual completion in the Jalmat and Langlie Mattix on Form C-107 dated 10-4-84. Permission to commingle the Jalmat with the Langlie Mattix at the surface was approved on Commingling Order PC-683 dated 12-10-84.

Both the Jalmat and Langlie Mattix are currently being pumped. The Langlie Mattix is being produced into the tank battery along with Langlie Mattix production from the C. D. Woolworth #4 and #5 and Jalmat production from the C. D. Woolworth #6. The Jalmat production from the C. D. Woolworth #7 is currently being produced into a portable tank while it is being tested.

The fluids show no evidence of incompatibility; therefore, down-hole commingling is not expected to result in reservoir damage. Ownership in the two pools is common and correlative rights will not be violated.

Should secondary recovery operations become practical in the future, the two zones could be separated at such time without damaging either reservoir.

Offset operators are being notified of the intent to down-hole commingle subject well by copy of this application.

1. Operator: Gulf Oil Corporation, P. O. Box 670, Hobbs, NM 88240
2. Lease, Well and Location: C. D. Woolworth #7, Unit J, 1980' FSL and 1980' FEL, Section 30-T24S-R37E, Lea County, New Mexico.
3. Producing Zones: Currently producing both the Jalmat Yates Seven Rivers and the Langlie Mattix Seven Rivers Queen which are to be commingled if approved.
4. Production Decline: The Jalmat gas is expected to decline 20% per year after an IP of 150 MCFPD while the oil will decline 20% per year after an IP of 4.5 BOPD. The Langlie Mattix gas is expected to decline 15% per year after an IP of 50 MCFPD while the oil will decline 23% per year after an IP of 10 BOPD.
5. Bottom Hole Pressure: Jalmat BHP at 3224' is 202 psi. Langlie Mattix BHP corrected to 3224' is 242 psi. See attached sheet.
6. Fluid Characteristics: The Jalmat and Langlie Mattix are currently commingled in surface facilities located on the C. D. Woolworth lease per Commingling Order PC-683 dated 12-10-84. To date, there has been no evidence of fluid incompatibility.
7. Well History: The well was spudded 8-1-84 and drilled to a total depth of 3750'. Ten and three-quarter inch surface pipe was set at 450' and cement was circulated to surface. Seven inch production casing was set at 3737' and cement was circulated to the surface.

8-22-84, perforated the Langlie Mattix at 3509', 3545', 3585', 3601', 3604', 3618', 3624', and 3636' with 1-Q.4" JHPF. Broke down each perforation with 42 gallons of 15% MCA. Fractured with 5000 gallons of 20# guar and 40,000 gallons of cross-linked 40# HPG with 124,000# of 20/40 mesh sand.

9-6-84, installed electric service and equipped Langlie Mattix to pump.

10-3-84, perforated Jalmat at 3206', 3208', 3216', 3219', 3222', 3279', 3349', 3376', 3404', 3406', 3432', and 3434' with 1-½" JHPF. Broke down each perforation with 42 gallons of 15% MCA. Fractured with 5000 gallons of 20# guar and 33,000 gallons of cross-linked 40# HPG with 50,000# of 10/20 mesh Ottawa sand.

10-10-84, equipped Jalmat to pump.

8. Value of Commingled Fluids: Jalmat and Langlie Mattix oil production is currently being commingled in surface storage facilities on the subject lease, therefore, downhole commingling will not effect the price which is approximately 6 cents per day more than the total revenue from the individual pools. (see attached sheet)
9. Current Production: See attached State Form C-116.

SUGGESTED ALLOCATION

	<u>Jalmat</u>	<u>Langlie Mattix</u>
Oil	33%	67%
Gas	88%	12%

The suggested allocation of produced hydrocarbons is based on the percentages of oil and gas produced on the latest C-116.

WOOLWORTH OFFSET OPERATORS

Conoco
P. O. Box 460
Hobbs, New Mexico 88240

John Yuronka
102 Petroleum Bldg.
Midland, Texas 79701

Union Texas Petroleum Co.
1300 Wilco Bldg.
Midland, Texas 79701

Getty Oil
P. O. Box 730
Hobbs, New Mexico 88240

ARCO Oil and Gas
P. O. Box 1710
Hobbs, New Mexico 88240

Doyle Hartman
500 N. Main
Midland, Texas 79701

Texaco
P. O. Box 728
Hobbs, New Mexico 88240

Cities Service
P. O. Box 1919
Midland, Texas 79702

APPLICATION FOR MULTIPLE COMPLETION

Gulf Oil Corporation		Lea	9-27-84
Operator		County	Date
P. O. Box 670, Hobbs, NM		C. D. Woolworth	7
Address		Lease	Well No.
J	30	24S	37E
Location of Well	Unit	Section	Township
			Range

All Applicants for multiple completion must complete Items 1 and 2 below.

1. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Jalmat Yates 7 Rivers		Langlie Mattix 7 Rivers Queen
b. Top and Bottom of Pay Section (Perforations)	3206-3434'		3509-3636'
c. Type of production (Oil or Gas)	Gas		Oil
d. Method of Production (Flowing or Artificial Lift)	Flow		Pump
e. Daily Production ☐ Actual ☒ Estimated Oil Bbls. Gas MCF Water Bbls.	0 BO 150 MCF 0 EW		13 BO 100 MCF 45 BW

2. The following must be attached:

- Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease
- Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

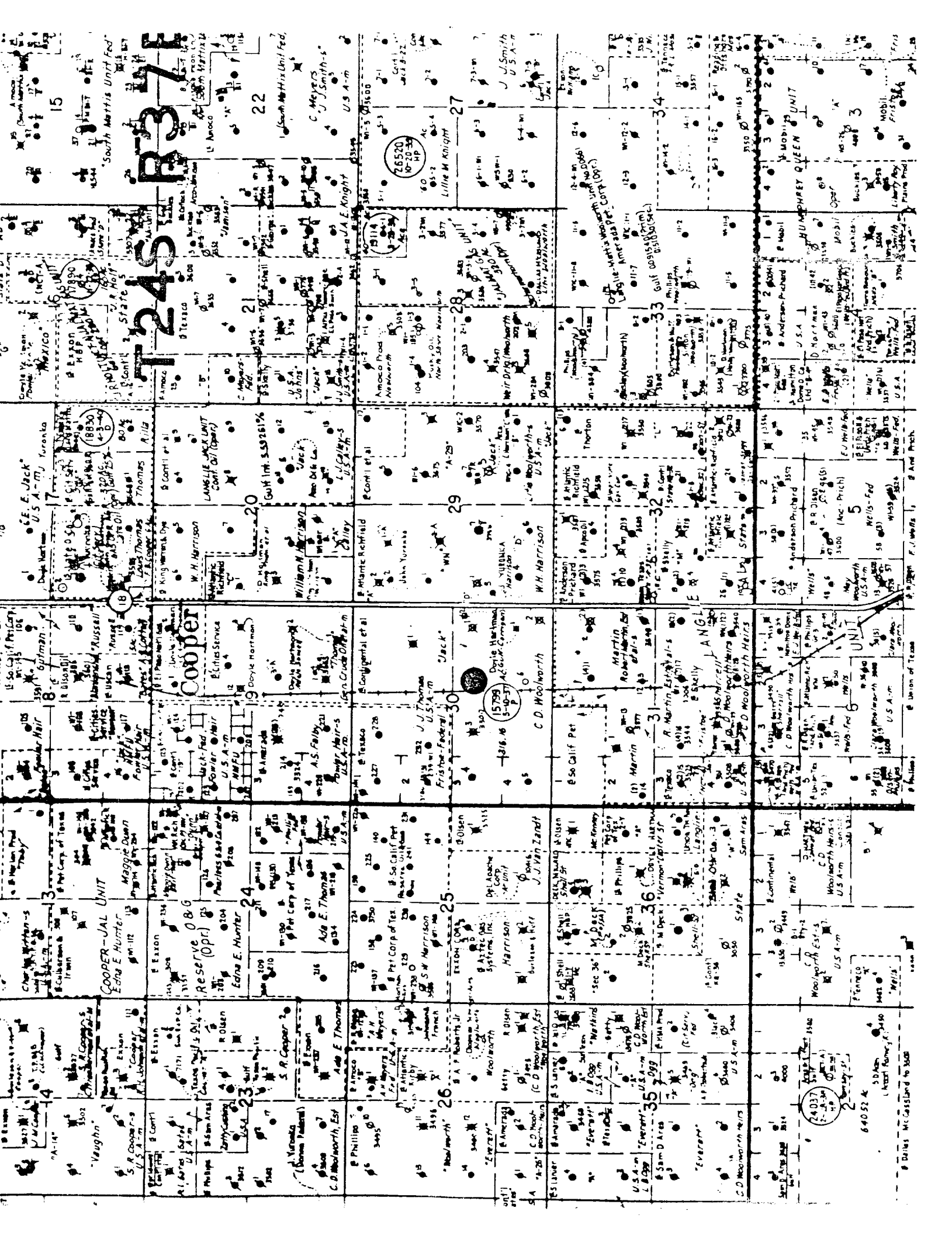
I hereby certify that, the information above is true and complete to the best of my knowledge and belief.

Signed R. D. Patte Title Area Prod Mgr Date 9-27-84

(This space for State Use)

Approved By Jerry S. [Signature] Title DISTRICT 1 SUPERVISOR Date OCT - 4 1984

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

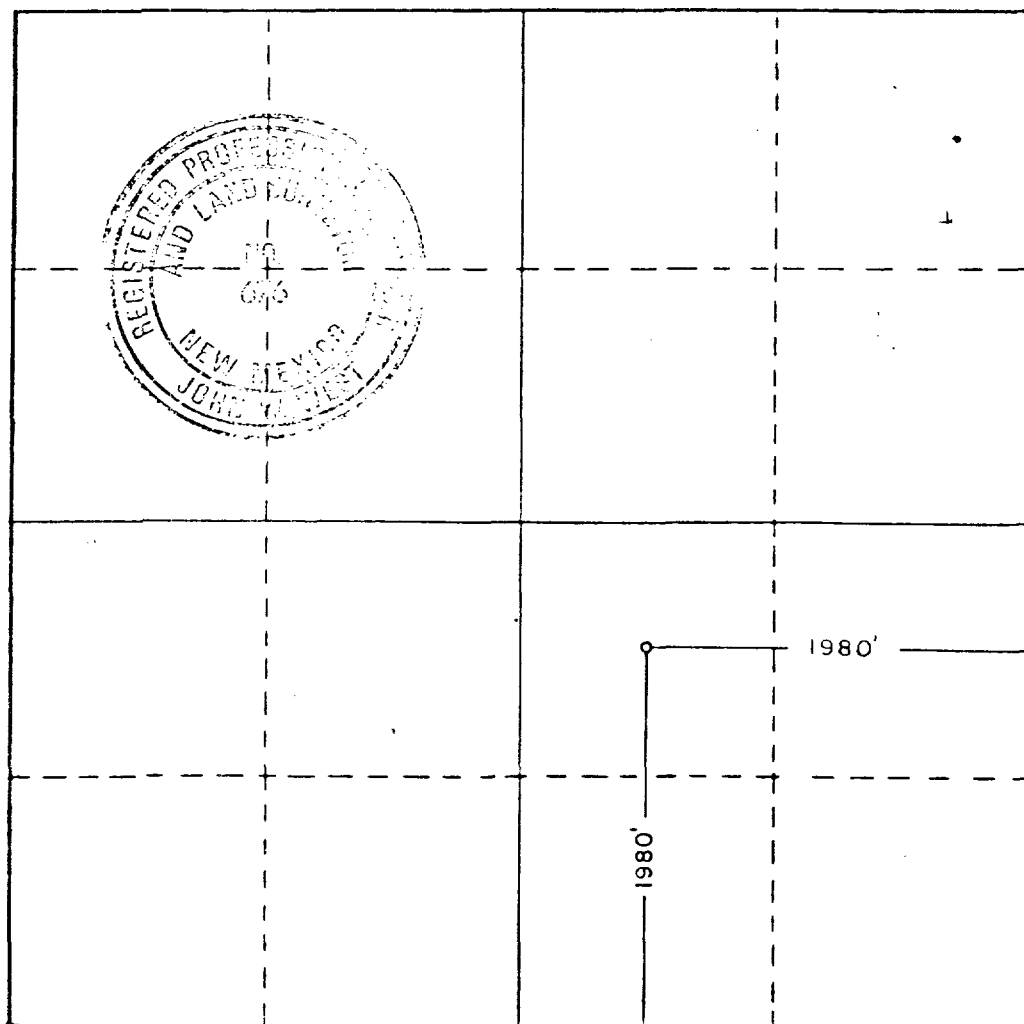
Operator Gulf Oil Corporation			Lease C. D. Woolworth		Well No. 7
Unit Letter J	Section 30	Township 24 South	Range 37 East	County Lea County	
Actual Footage Location of Well: 1980 feet from the South line and 1980 feet from the East line					
Ground Level Elev. 3257.7	Producing Formation Yates 7 Rivers		Pool Jolmat	Dedicated Acreage 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

R.D. Pitre

Name

R.D. PITRE

Position

AREA ENGINEER

Company

GULF OIL CORP

Date

10-23-84

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

July 2, 1984

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. JOHN W. WEST.

676

RONALD J. SIDER

[illegible]

GAS-OIL RATIO TESTS

[illegible]

C. D. WOOLWORTH LEASE, TANK BATTERY
 Section 30-T24S-R37E
 LEA COUNTY, NEW MEXICO

<u>WELLS AND POOL</u>	<u>PRODUCTION</u>		<u>TOTAL</u>	<u>AVG. EOPD</u>
	<u>AUG. 84</u>	<u>SEPT. 84</u>		
C. D. Woolworth #6, 7 Jalmat				3
C. D. Woolworth #4, 5, 7 Langlie Mattix	313	310	623	10.2
	<u>BOPD</u>	<u>GRAVITY</u>	<u>\$/BEL</u>	<u>\$/DAY</u>
Jalmat	3	31.3	31.33	93.99
Langlie Mattix	10.2	32.6	31.35	319.77
TOTAL				413.76
Commingled	13.2	32.3	31.35	413.82
			Difference	+0.06

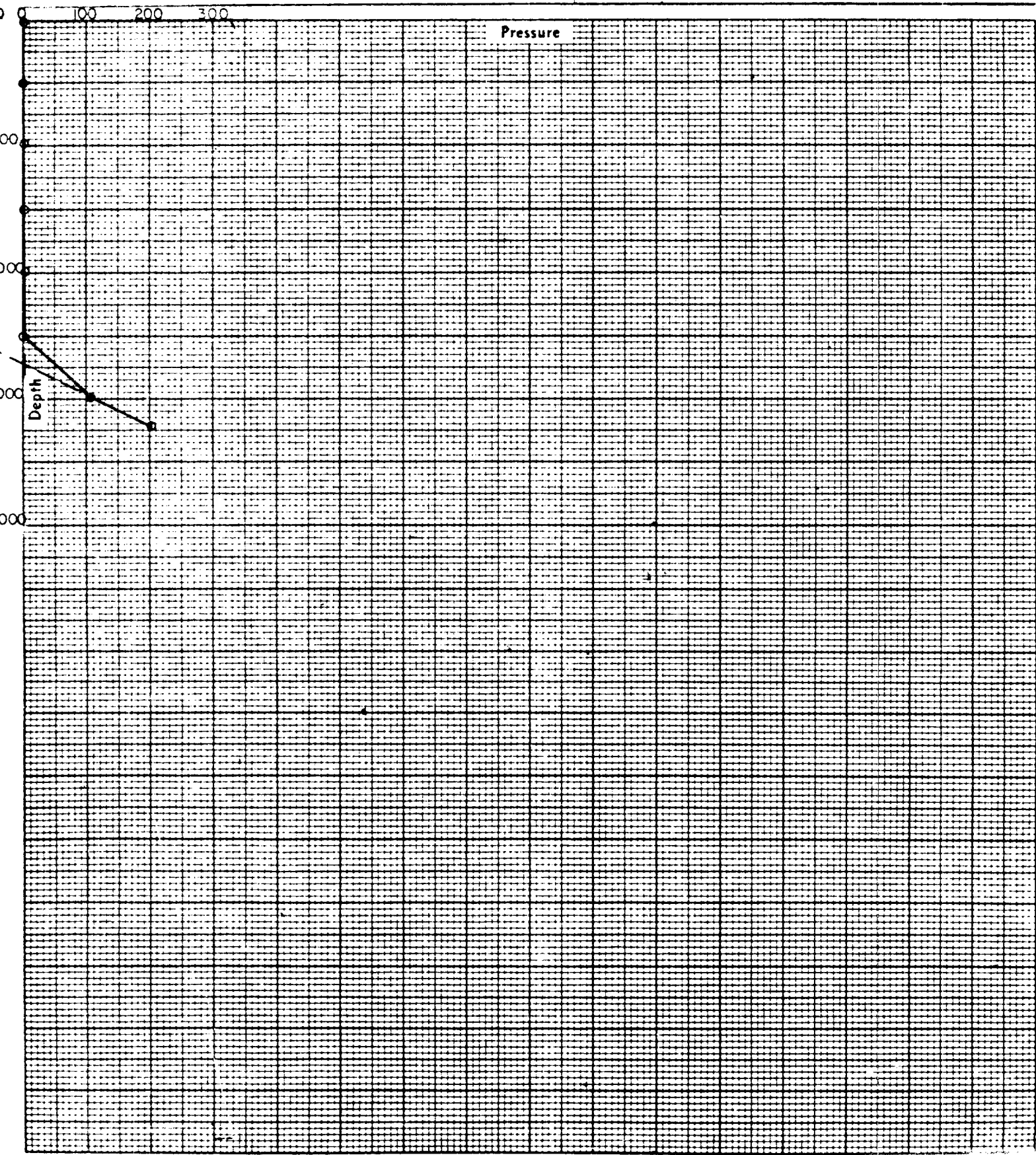
JOHN W. WEST ENGINEERING COMPANY
412 NORTH DAL PASO, HOBBS, NEW MEXICO

TELEPHONES 393-3942
393-3117

BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR GULF OIL CORPORATION
LEASE C.B. WOOLWORTH
WELL NO. 7 (Jalmat Upper Zone)
FIELD _____
DATE 12-1-8 TIME 8:00 A.M.
STATUS _____ TEST DEPTH 3224'
TIME S.I. _____ LAST TEST DATE _____
CAS. PRES _____ BHP LAST TEST _____
TUB. PRES. 0 PSI BHP CHANGE _____
ELEV. _____ FLUID TOP 2750'
DATUM _____ WATER TOP _____
TEMP _____ RUN BY R.B.
CLOCK NO. 23123 GAUGE NO. 19389
ELEMENT NO. 13129 (0-2500 PSI)

DEPTH	PRESSURE	GRADIENT
000	000	
500	000	Neg.
1000	000	Neg.
1500	000	Neg.
2000	000	Neg.
2500	000	Neg.
3000	108	.108
3224	202	.420



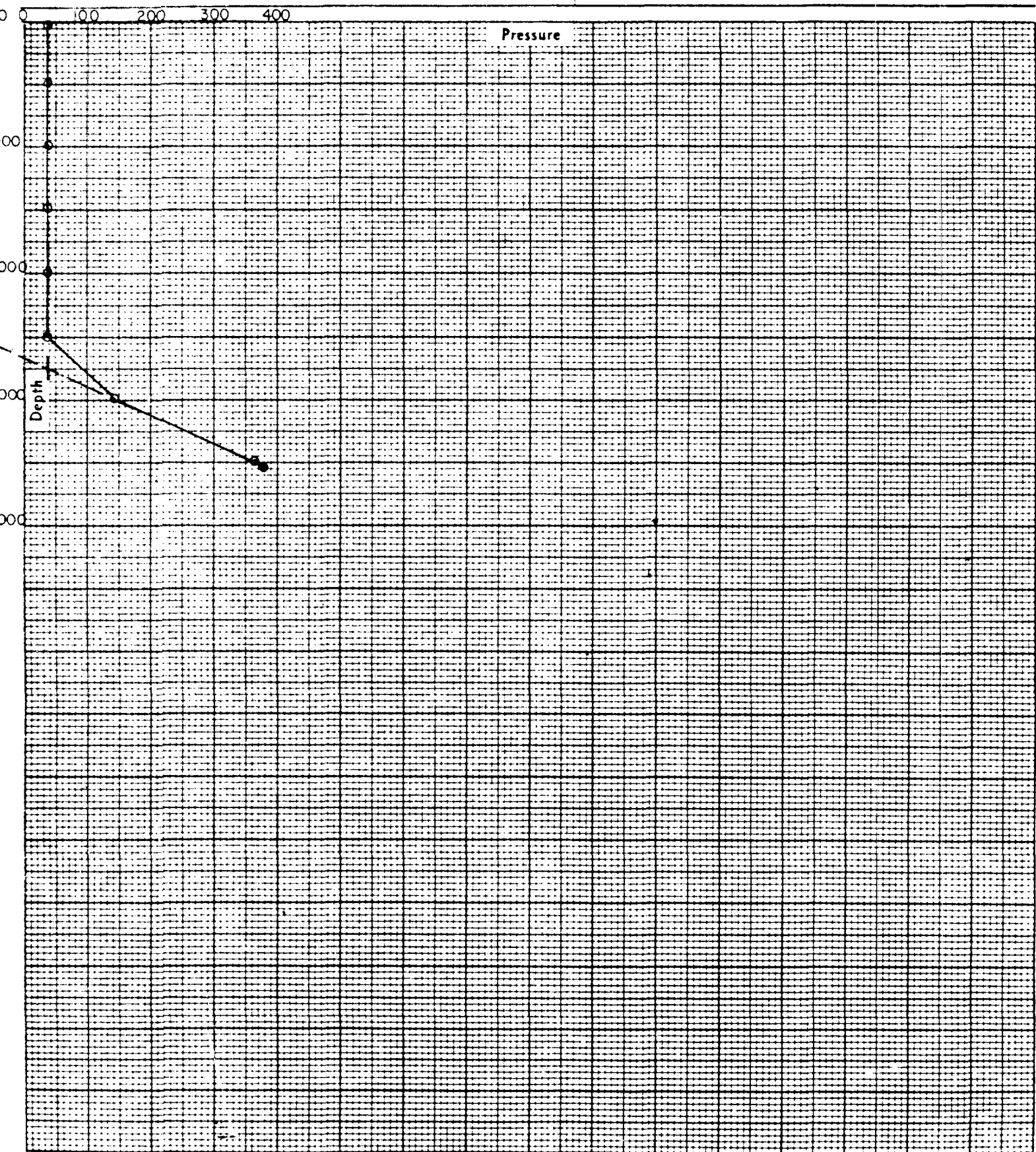
JOHN W. WEST ENGINEERING COMPANY
412 NORTH DAL PASO, HOBBS, NEW MEXICO

TELEPHONES 393-3942
393-3117

BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR GULF OIL CORPORATION
LEASE C.B. WOOLWORTH Langlie Mattix
WELL NO. 7 Lower Zone.
FIELD _____
DATE 12-1-84 TIME 8:45 A.M.
STATUS Shut-In TEST DEPTH 3530'
TIME S.I. _____ LAST TEST DATE _____
CAS. PRES. _____ BHP LAST TEST _____
TUB. PRES. 35 PSI BHP CHANGE _____
ELEV _____ FLUID TOP 2750'
DATUM _____ WATER TOP _____
TEMP _____ RUN BY R.B.
CLOCK NO 23123 GAUGE NO. 19389
ELEMENT NO. 18129 (0-2500 PSI)

DEPTH	PRESSURE	GRADIENT
000	035	
500	035	Neg.
1000	035	Neg.
1500	035	Neg.
2000	035	Neg.
2500	035	Neg.
3000	142	.214
3500	366	.448
3530	380	.467



WELL DATA SHEET

Langlie Mattix Rivers Queen

EASE & WELL NO. C.D. Woolworth #7 FIELD/POOL Jalmat Yates Rivers DATE 11/27/84LOCATION 1980 FEET FROM south LINE AND 1980 FEET FROM East LINESECTION 30, T24S, R37E COUNTY LEG STATE NMGE 3258
KDB to GE 12
DF to GE Date Completed 8-84 / 10-84
Initial Formation Langlie-Mattix / Jalmat
From: 3509/3206 to 3636/3434 GOR
Initial: Production ☐ bopd bwpd
Or: Injection ☐ bwpd @ psi
Completion Data:10 3/4" OD Surface Pipe
set @ 450' w/ 450 sx
Cmt. Circulated? yes

Subsequent Workover or Reconditioning:

3206'
3208'
3216'
3219'
3222'
3279'
3349'
3376'
3404'
3406'
3432'
3434'Jalmat
1-1/2" JHPF3509'
3545'
3585'
3601'
3604'
3618'
3624'
3636'Langlie-Mattix
1-0.4" JHPFPresent Inj. ☐ bwpd @ psi Date
Present Prod. ☐ bopd bwpd Date
GAS MCFPD

Remarks Or Additional Data:

PBD 3490
TD 37507 " OD 23# Thd
Gr. K-55, 5792 Csg.
set @ 3737' w/ 1900 sx
Cmt Circulated? yes
TOC @ surf by

MJP