

**Stabilized M-Factors (Pressure-Cum Slopes) for  
Replacement Yates-U7R Gas Wells Drilled Near  
An Original Yates-U7R Gas Well**

Current Operator	Infill Well	Location (T-R-S-U)	M <sub>2</sub> : Stabilized P/z Slope (MCF/psi)	Initial Pressure (psia)	Projected Ultimate Recovery (MMCF)	Recovery Improvement Ratio (M <sub>2</sub> /M <sub>1</sub> )
Gruy	Lankford No. 2	23S-36E-25-G	15,848	112	1,284	2.10
Gruy	W. H. King No. 4	23S-37E-06-M	10,667	123	910	1.99
Gruy	Toby No. 3	24S-37E-07-L	9,057	205	1,635	1.87
Gruy	Northshore Woolworth No. 6	24S-37E-33-E	9,375	99	798	2.70
Hartman	Dabbs No. 3	25S-37E-34-M	15,000	171	968	1.97

Average:

11,989

2.13

OIL CONSERVATION DIVISION  
HARTMAN EXHIBIT NO. 31  
CASE NOS. 12015 & 12017





NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-85

All distances must be from the outer boundaries of the Section

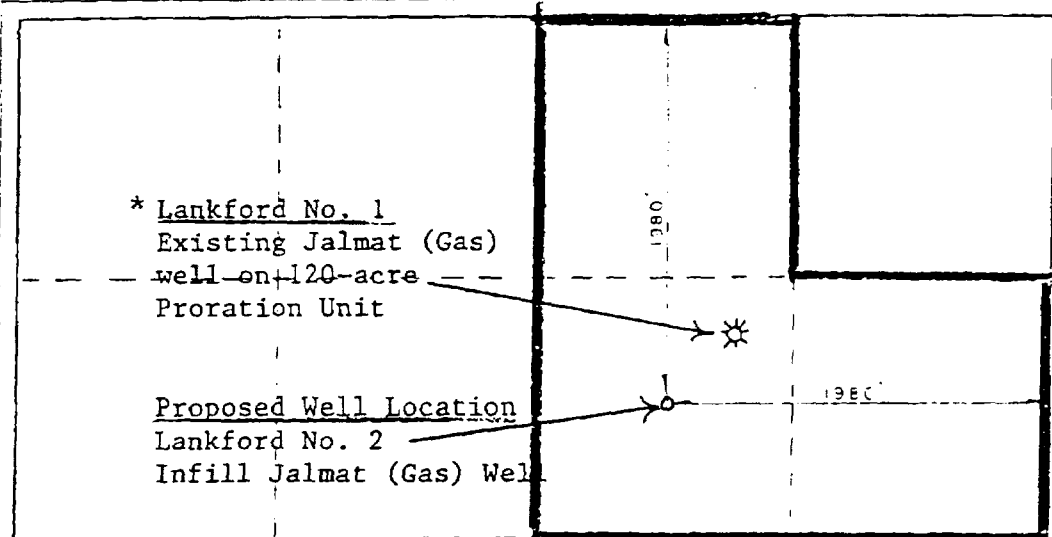
Owner <b>DOYLE HARTMAN</b>		Lease <b>LANKFORD</b>		Well No. <b>2</b>	
Tract Letter <b>G</b>	Section <b>25</b>	Township <b>23 SOUTH</b>	Range <b>36 EAST</b>	County <b>LEA</b>	
Actual Footage Location of Well:					
<b>1980</b>	feet from the	<b>NORTH</b>	line and	<b>1980</b>	feet from the
				<b>EAST</b>	line
Ground Level Elev. <b>3348.5</b>	Producing Formation <b>Yates-Seven Rivers</b>		Pool <b>Jalmat (Gas)</b>	Dedicated Acreage <b>120</b>	

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?

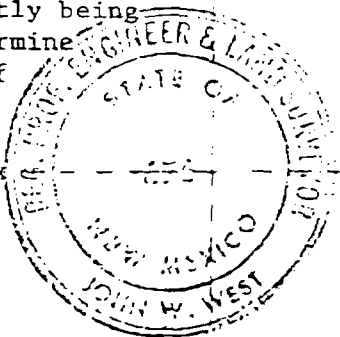
Yes  No If answer is "yes," type of consolidation \_\_\_\_\_

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.



**\*NOTE:** A study is presently being performed to determine the feasibility of recompleting the Lankford No. 1 to the Langlie Mattix interval



CERTIFICATION

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

Larry A. Nermyr

*Larry A. Nermyr*

Engineer

Doyle Hartman

October 12, 1983

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

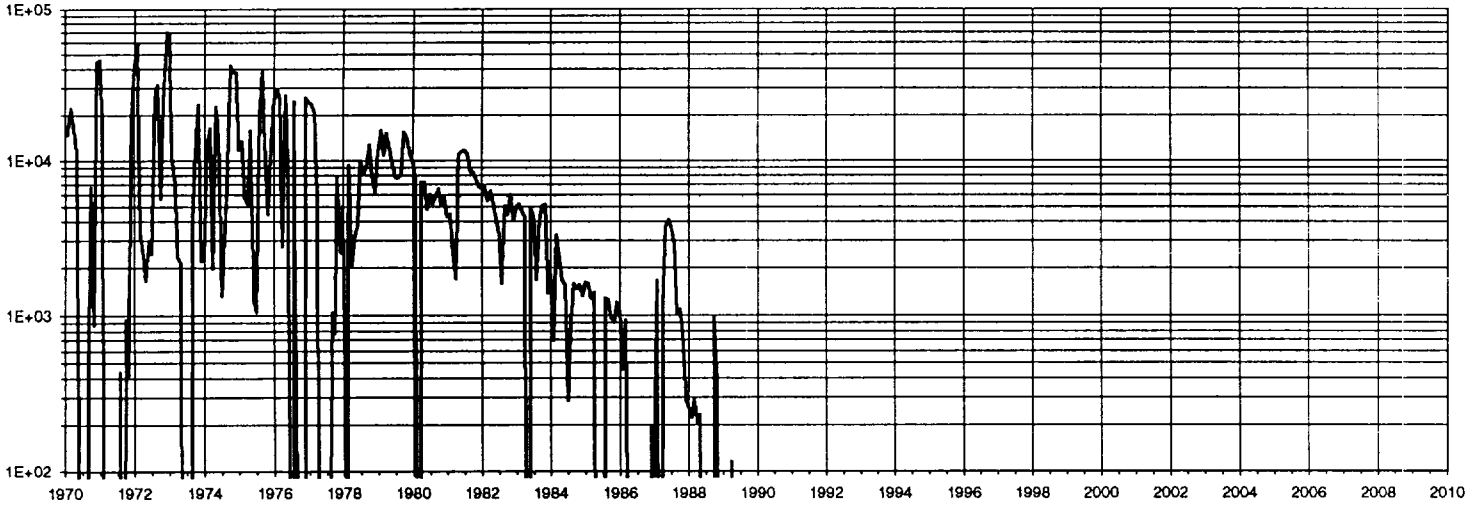
OCTOBER 4, 1983

*John W. West*

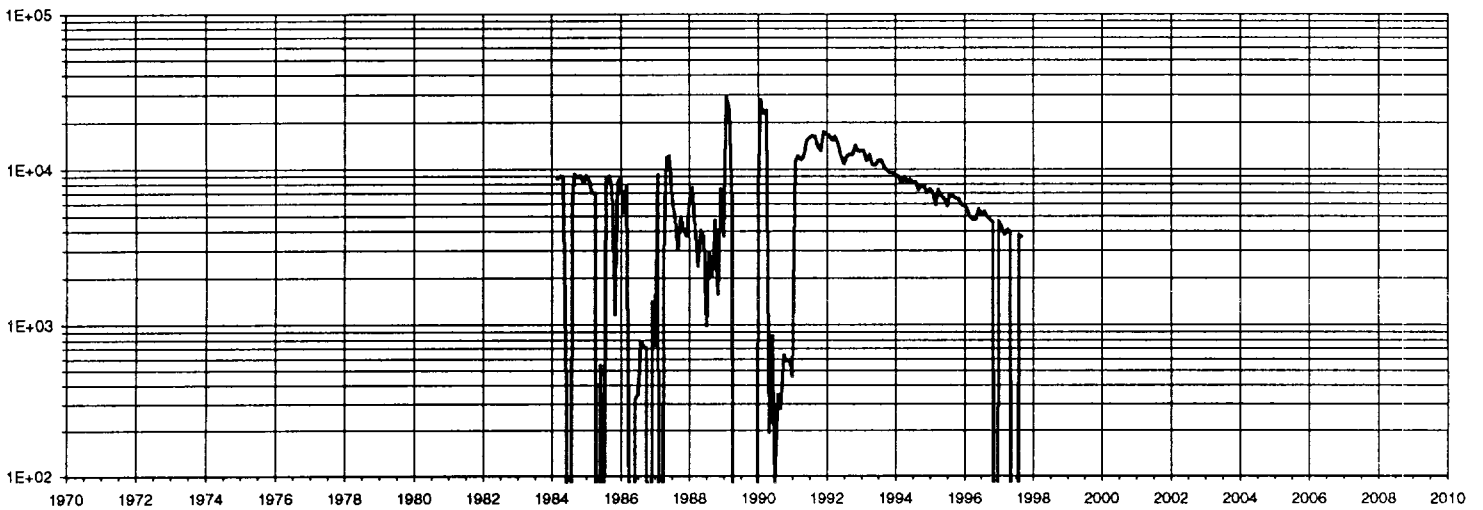
Certificate No. 171

Lankford Nos. 1 & 2  
 Jalmat Gas Pool  
 G-25-23S-36E  
 Gruy Petroleum Management Co.

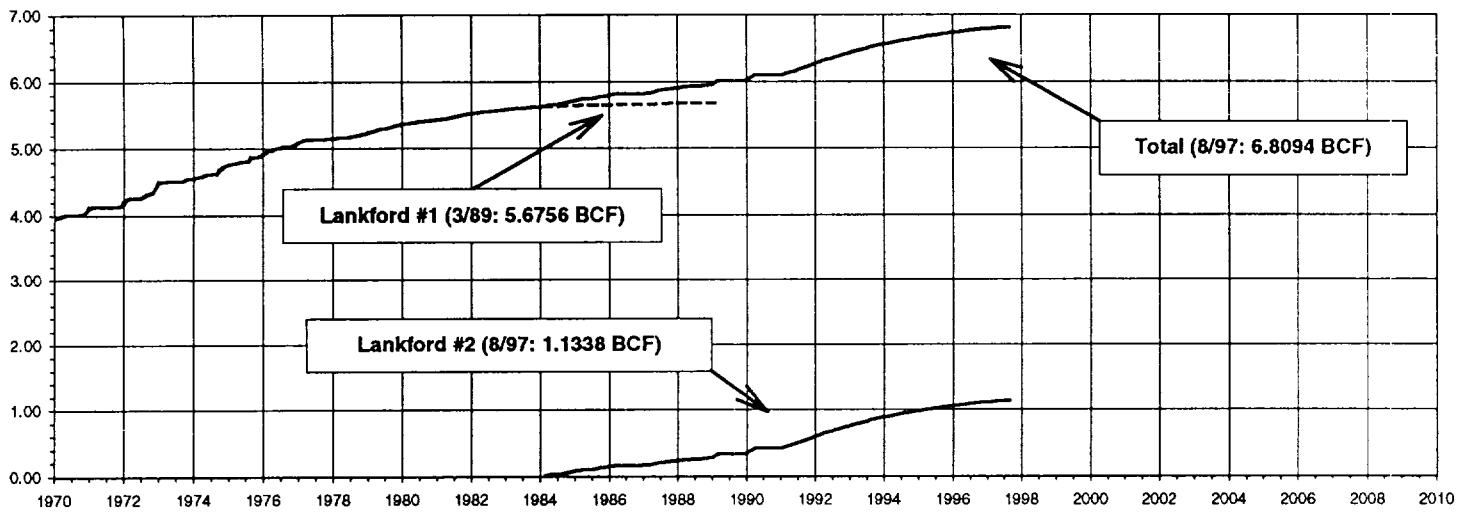
Lankford #1 Gas Production (MCFPM)



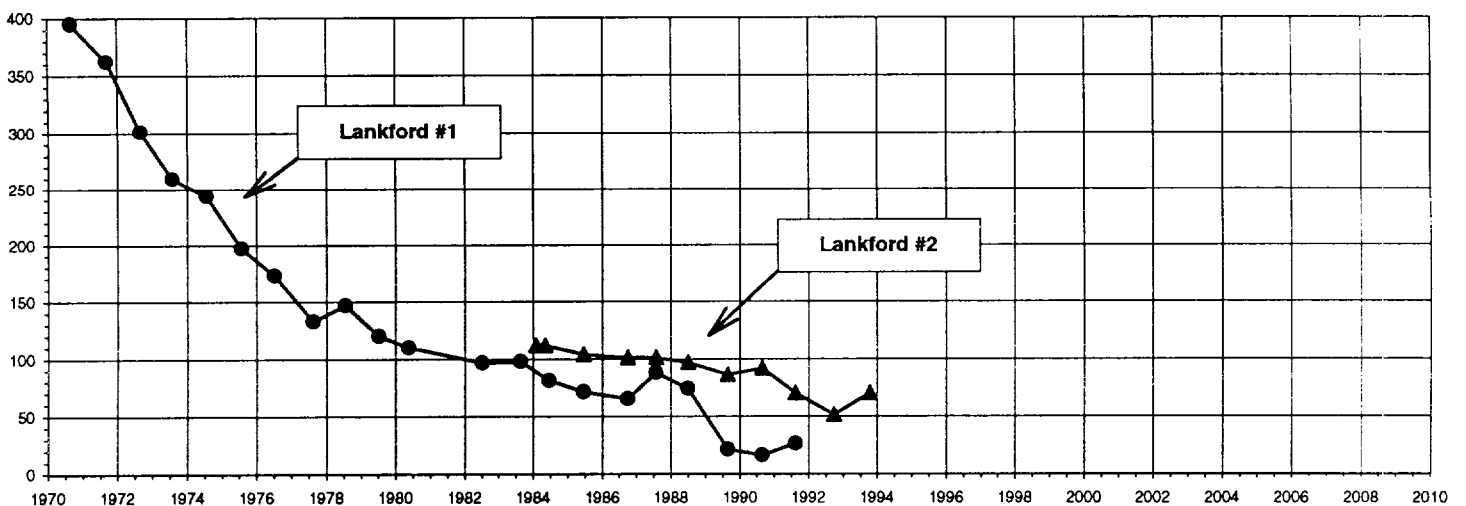
Lankford #2 Gas Production (MCFPM)



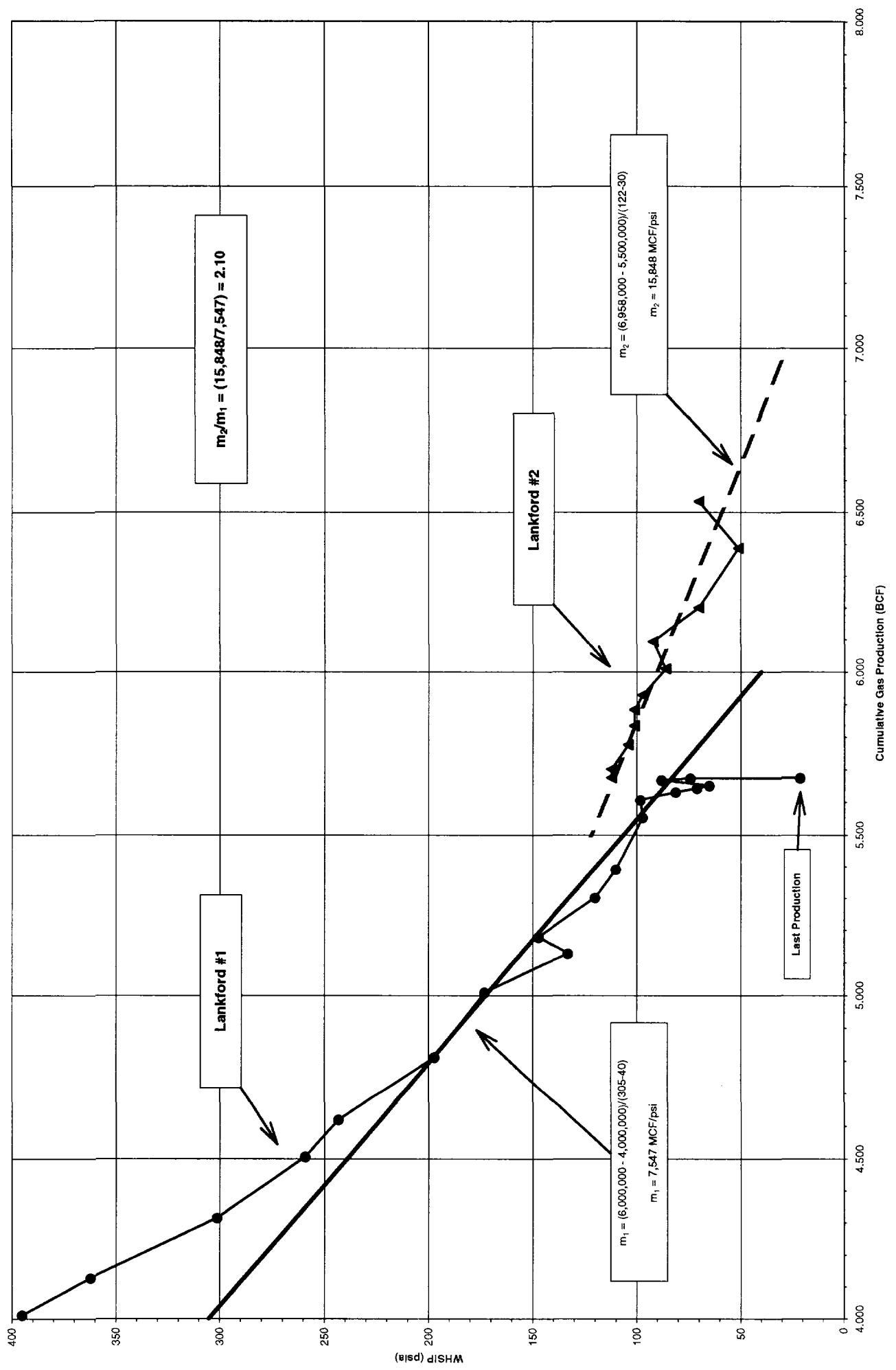
Lankford Nos. 1 & 2 Cumulative Gas Production (BCF)



WHSIP (psia)

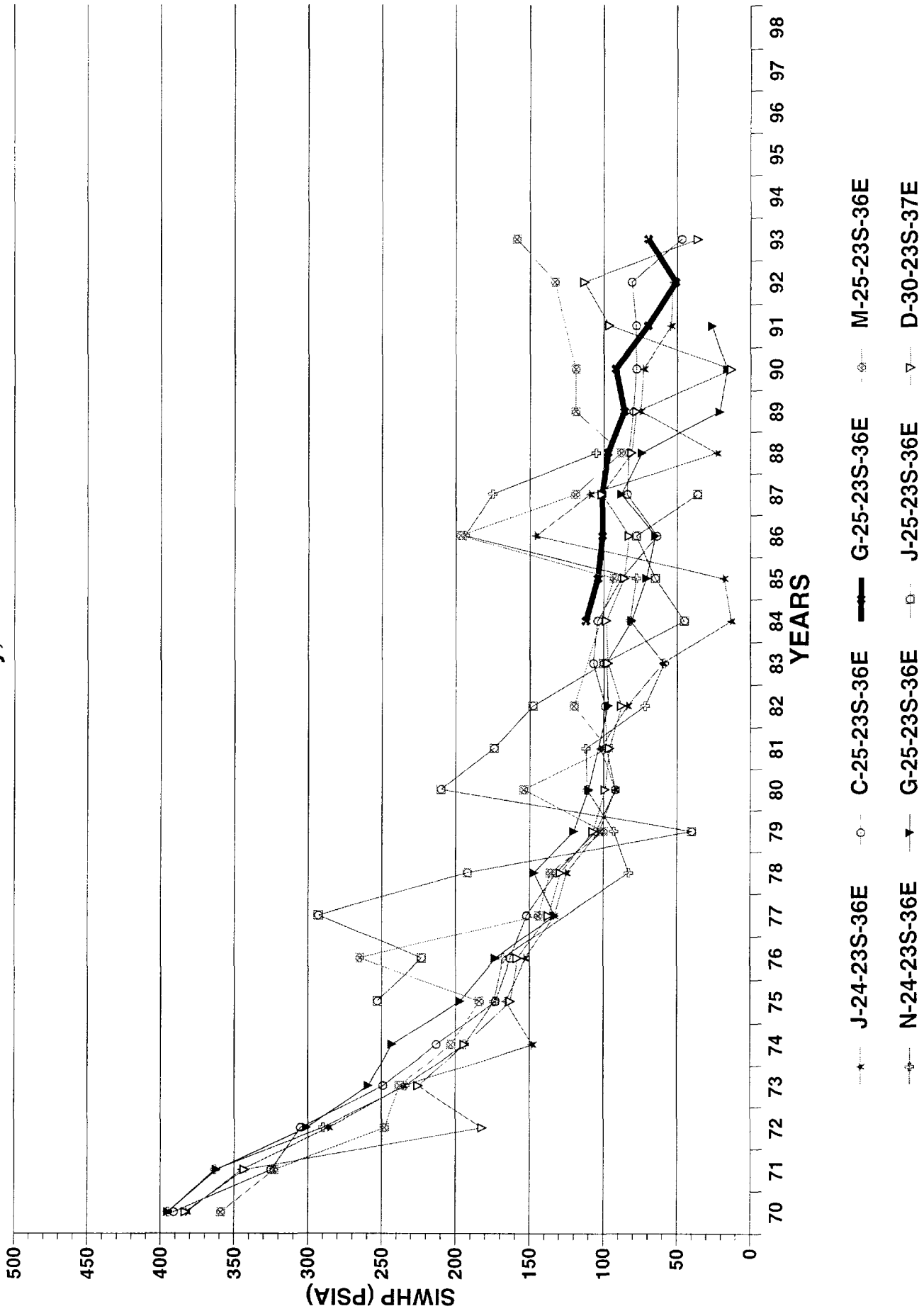


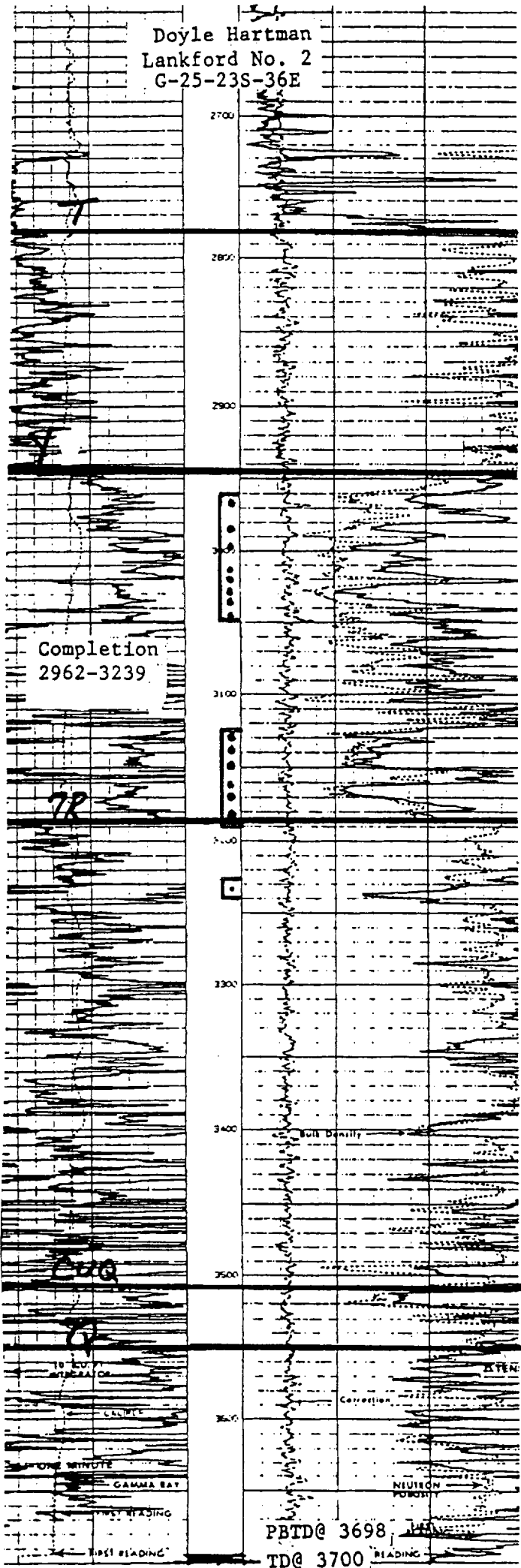
Lankford Nos. 1 & 2  
 Jalmat Gas Pool  
 G-25-23S-36E  
 Gruy Petroleum Management Co.



# Jalmat (Tansill-Yates-Seven-Rivers) Pool

Lankford # 1,2  
Composite Pressure - Time Plot  
Lea County, New Mexico





COMPANY Gruy Operating  
(Doyle Hartman)

WELL Lankford No. 2

FIELD Jalmat (Gas)

LOCATION 1980' FNL & 1980' FEL (G)  
Sec. 25, T-23-S, R-36-E

COUNTY Lea

STATE New Mexico

ELEVATIONS: KB 3362.5  
DF 3361.5  
GL 3348.5

### COMPLETION RECORD

SPUD DATE 12-17-83 COMP. DATE 1-3-84

TD 3700 PBTDC 3697

CASING RECORD:

9 5/8" @ 400 w/250 (TOC @ \_\_\_\_\_)

7" @ 3700 w/850 (TOC @ \_\_\_\_\_)

(TOC @ \_\_\_\_\_)

(TOC @ \_\_\_\_\_)

COMP. INTERVAL Perf 2962-3239 w/22

STIMULATION A/6000 15% MCA  
ATR = 5 BPM. ATP = 1700 psi.  
ISIP = 400 psi. 1.5-min SIP = 0 psi.

POT IPF = 58 MCFPD

GOR \_\_\_\_\_ GR \_\_\_\_\_

TP 60 CP 60

CHOKE 12/64 TUBING 2 3/8 @ 3080

REMARKS

01-05-84: POP @ 9 x 64 x 1 1/4"

01-10-84: P/130 MCFPD  
Choke = 64/64  
PCP = 22 psi

01-18-84: SWF/110,950 + 25,300  
ATR = 32 BPM  
ATP = 1900 psi  
ISIP = 700 psi  
1-hr. SIP = 520 psi

01-20-84: P/657 MCFPD  
Choke = 43/64  
PCP = 78 psi

01-30-84: SIP = 99 psig

01-30-84: Tied well into EPNG.  
P/324 MCFPD  
PCP = 94 psig

09-01-97: Cum. = 1.1338 BCF  
Est. Rem. = 150.0 MMCF  
Est. Ult. = 1.2838 BCF  
m = 15,848 MCF/psi

G-25-23S-36E







### WELL LOCATION AND ACREAGE DEDICATION PLAT

Boundaries must be from the outer boundaries of the section.

Operator <b>Doyle Hartman</b>		Lease <b>W. H. King</b>		Well No. <b>4</b>
Well Letter <b>M</b>	Section <b>6</b>	Township <b>23S</b>	Range <b>37 36E</b>	County <b>Lea</b>

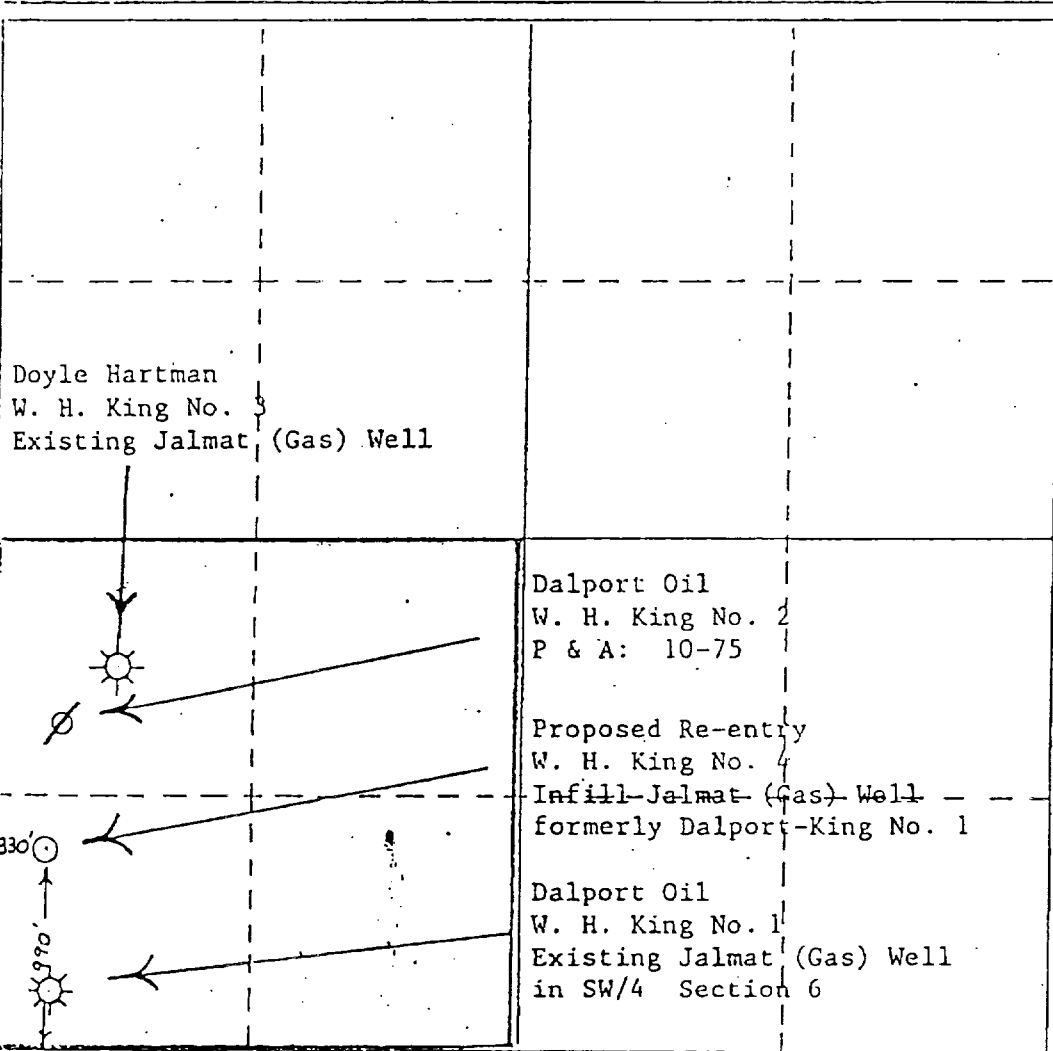
Actual Location of Well:				
<b>990</b>	feet from the	<b>South</b>	line and	<b>330</b>
			feet from the	<b>West</b>
Ground Level Elev. <b>3395</b>	Producing Formation <b>Yates-Seven Rivers</b>		Pool <b>Jalmat (Gas)</b>	Dedicated Acreage <b>160</b>

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

*Larry A. Nermyr*

Name

**Larry A. Nermyr**

Position

**Engineer**

Company

**Doyle Hartman**

Date

**June 7, 1985**

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.

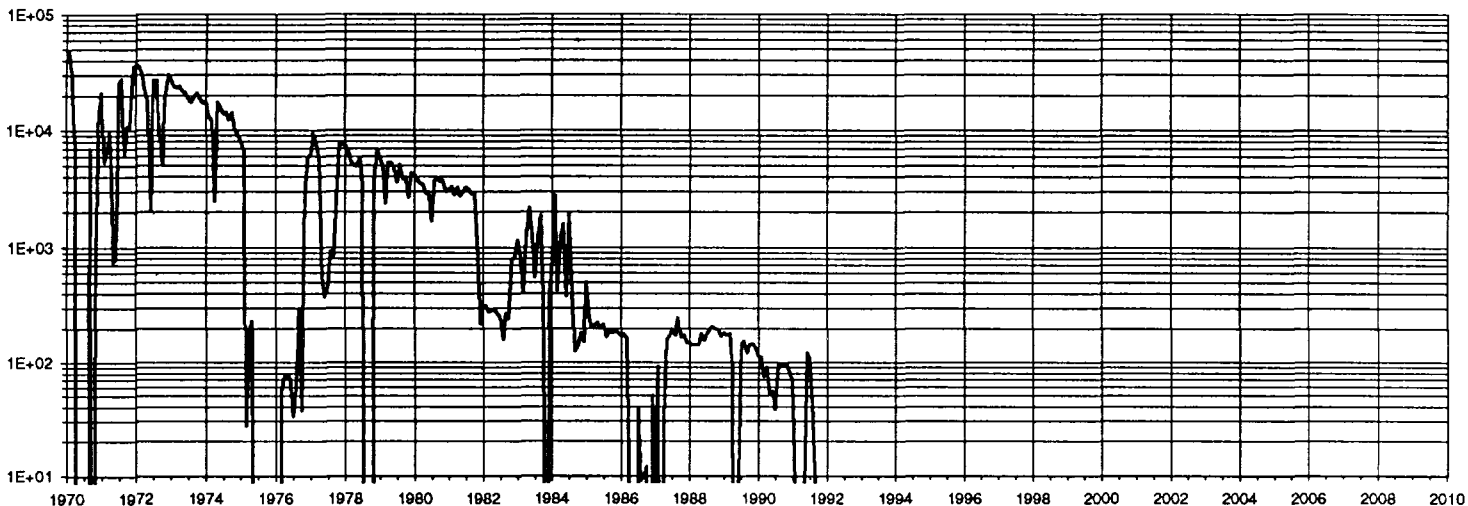
Date Surveyed

Registered Professional Engineer and/or Land Surveyor

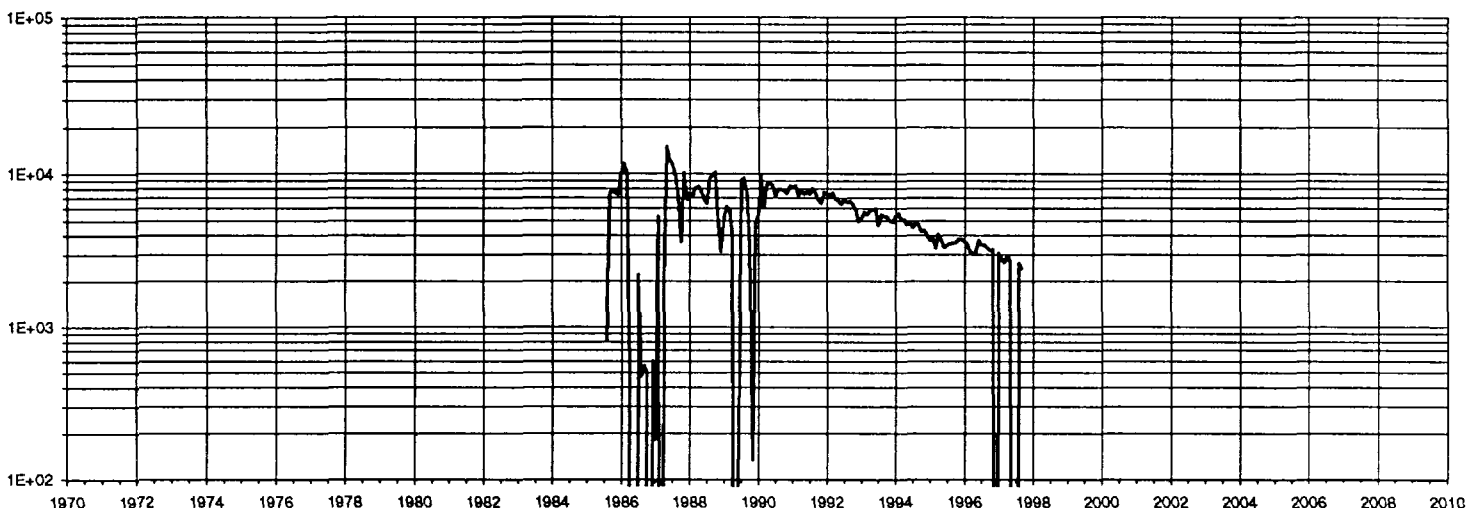
Certification No.

W. H. King Nos. 1 & 4  
 Jalmat Gas Pool  
 M-6-23S-37E  
 Gruy Petroleum Management Co.

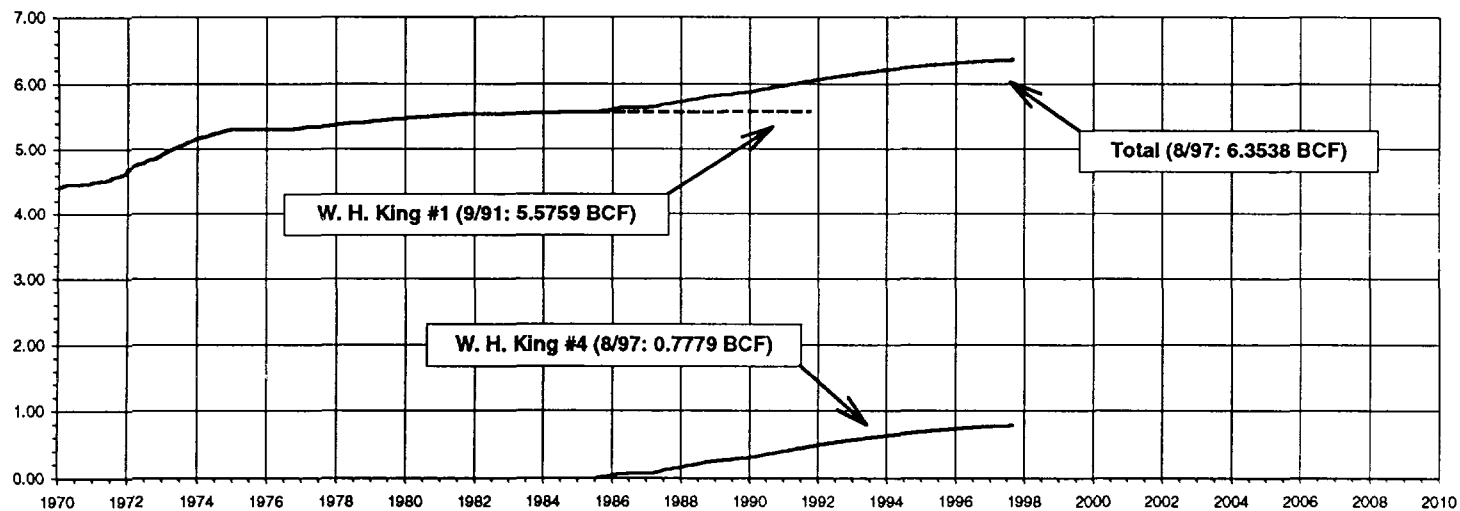
W. H. King #1 Gas Production (MCFPM)



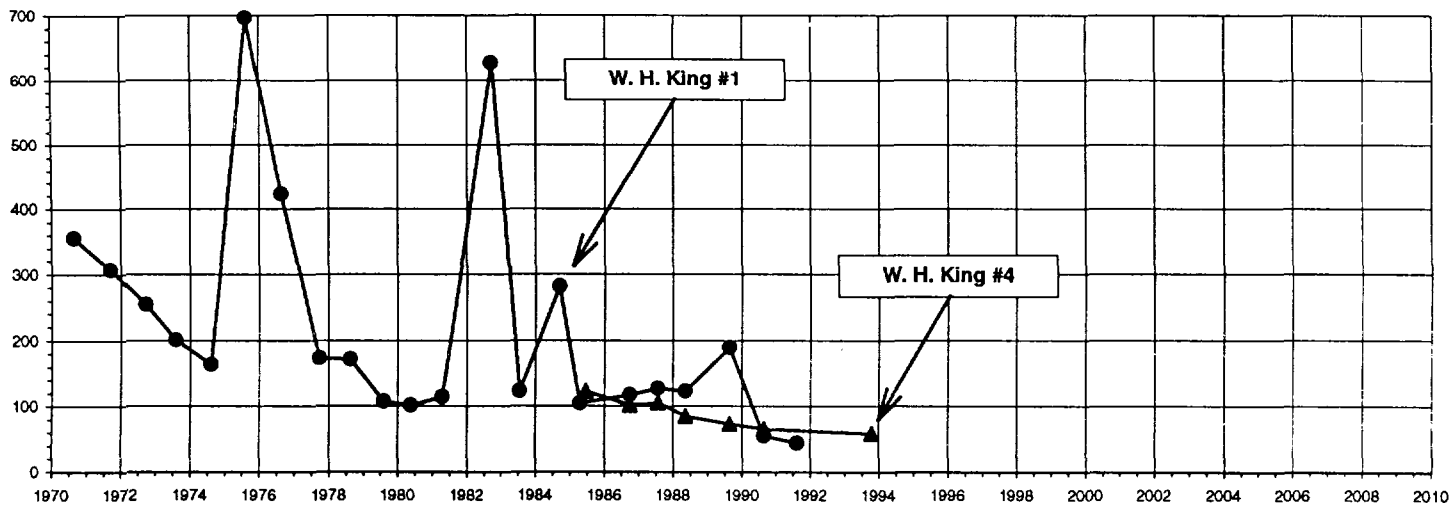
W. H. King #4 Gas Production (MCFPM)



Cumulative Gas Production (BCF)

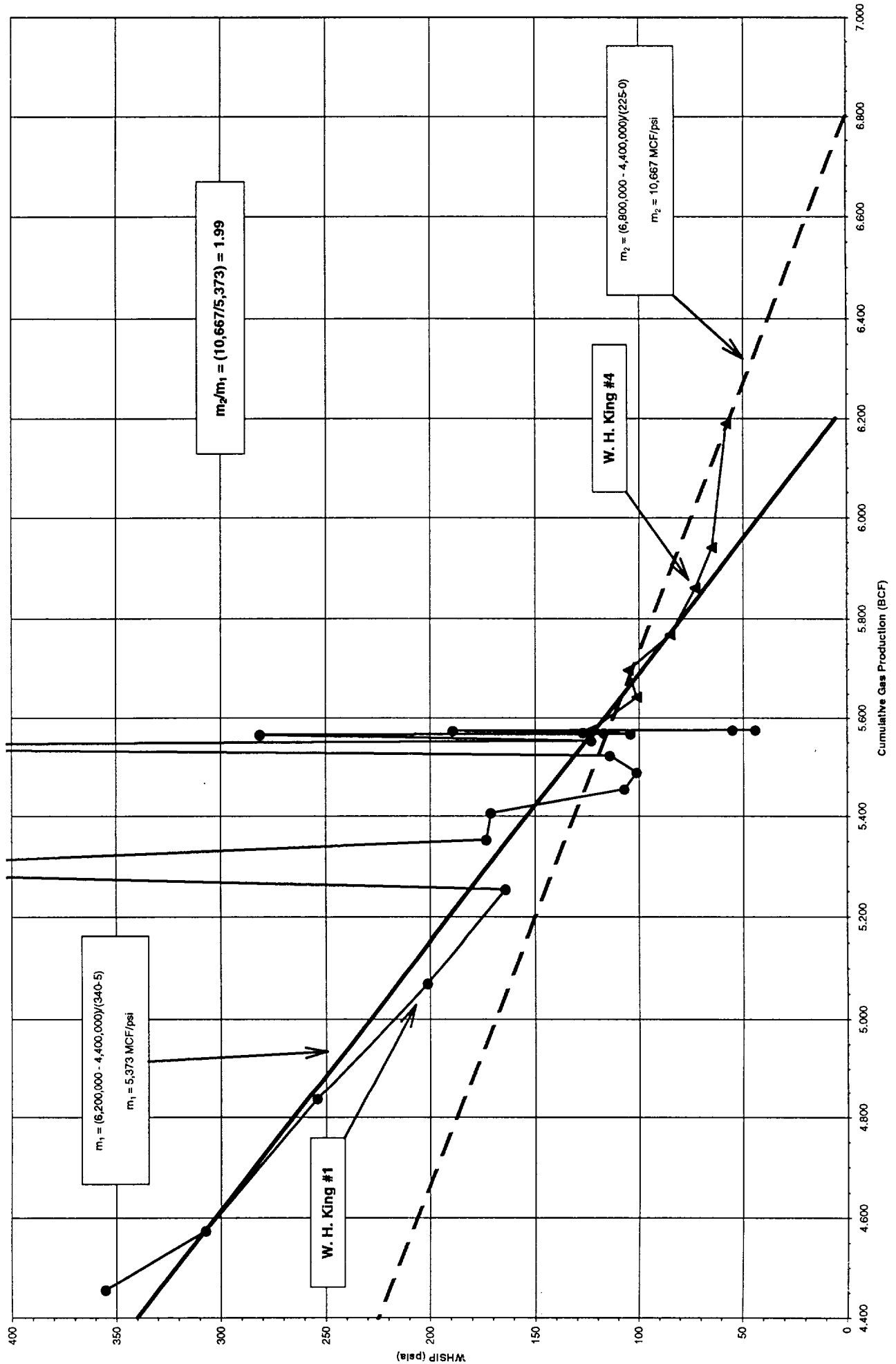


WHSIP (psia)



W. H. King Nos. 1 & 4  
 Jalmat Gas Pool  
 M-6-23S-37E

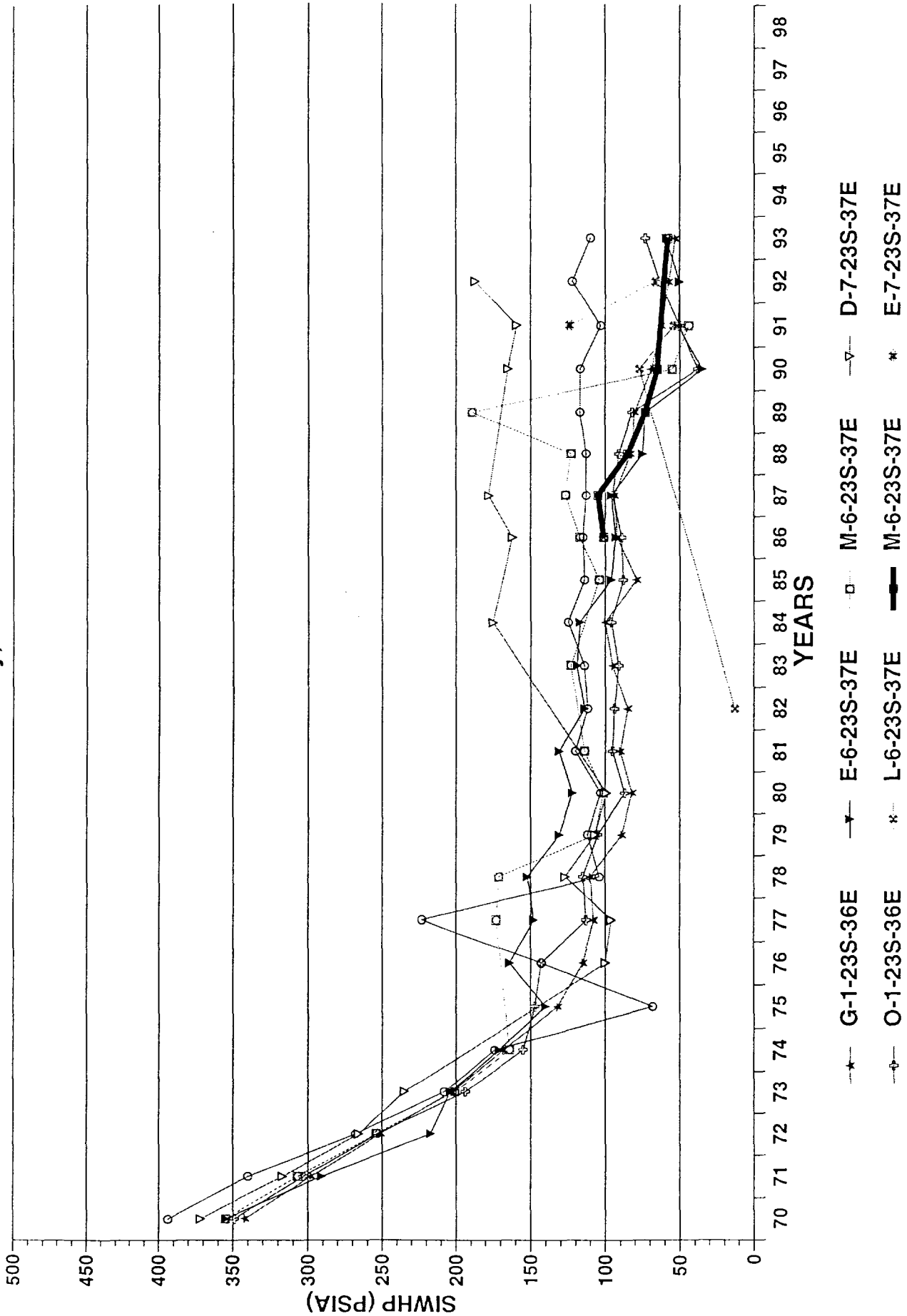
Gruy Petroleum Management Co.

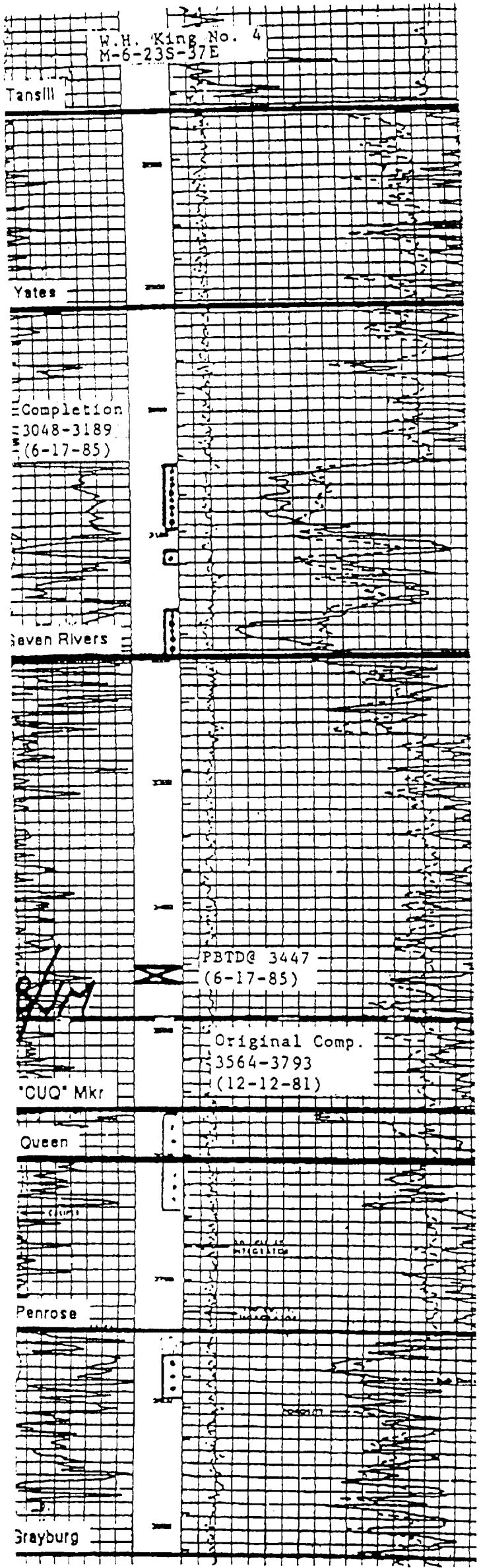




# Jalmat (Tansill-Yates-Seven-Rivers) Pool

W. H. King # 1,4  
 Composite Pressure - Time Plot  
 Lea County, New Mexico





COMPANY Gruy Operating  
(Doyle Hartman/Yuronka)

WELL W.H. King No.4

FIELD Jalmat/Langlie Mattix

LOCATION 990' FSL & 330' FWL (M)  
Sec. 6, T-23-S, R-37-E

COUNTY Lea

STATE New Mexico

ELEVATIONS: KB 3406  
DF 3405  
GL 3395

COMPLETION RECORD

SPUD DATE 11-7-81 COMP. DATE 12-12-81

TD 4000 PBTDC 3950

CASING RECORD:  
8 5/8, 23# @ 419 w/325 (TOC @ Circ. )  
5 1/2, 14# @ 4000 w/700 (TOC @ Circ. )  
(TOC @ )  
(TOC @ )

COMP. INTERVAL Perf 3564-3793 (Langlie Mattix)

STIMULATION A/4150

POT IPF = 11 BOPD + 3 BWPD

GOR 356 GR 36

TP CP

CHOKE TUBING 2 3/8 @ 3772

REMARKS

1-18-85: Langlie Mattix abandoned. Well P & A'd.

6-14-85: CO to 3447'  
Perf 3048-3189 w/20 (Jalmat)

6-15-85: A/4250 15% MCA  
ATR = 3.2 BPM. ATP = 1500 psi.  
ISIP = 0 psi.

6-18-85: SICP = 110 psig (After acid)

6-19-85: SWF/163,000 + 320,000  
ATR = 30 BPM. ATP = 2500 psi.  
ISIP = 1090 psi. 1-hr. S1P = 705 psi.  
Flare @ FCP = 170 psig.

6-21-85: POP @ 9.5 x 54 x 1 1/2  
SICP = 127 psig (After frac)

6-24-85: P/1135 MCFPD. Choke = 40/64. FCP = 68 psig.  
Est. C = 87. Est. M = 10,667.

09-01-97: Cum. = .7779 BCF  
Est. Rem. = 131.9 MMCF  
Est. Ult. = .9098 BCF  
b = 0.173

M-6-23S-37E







NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-85

All distances must be from the outer boundaries of the Section

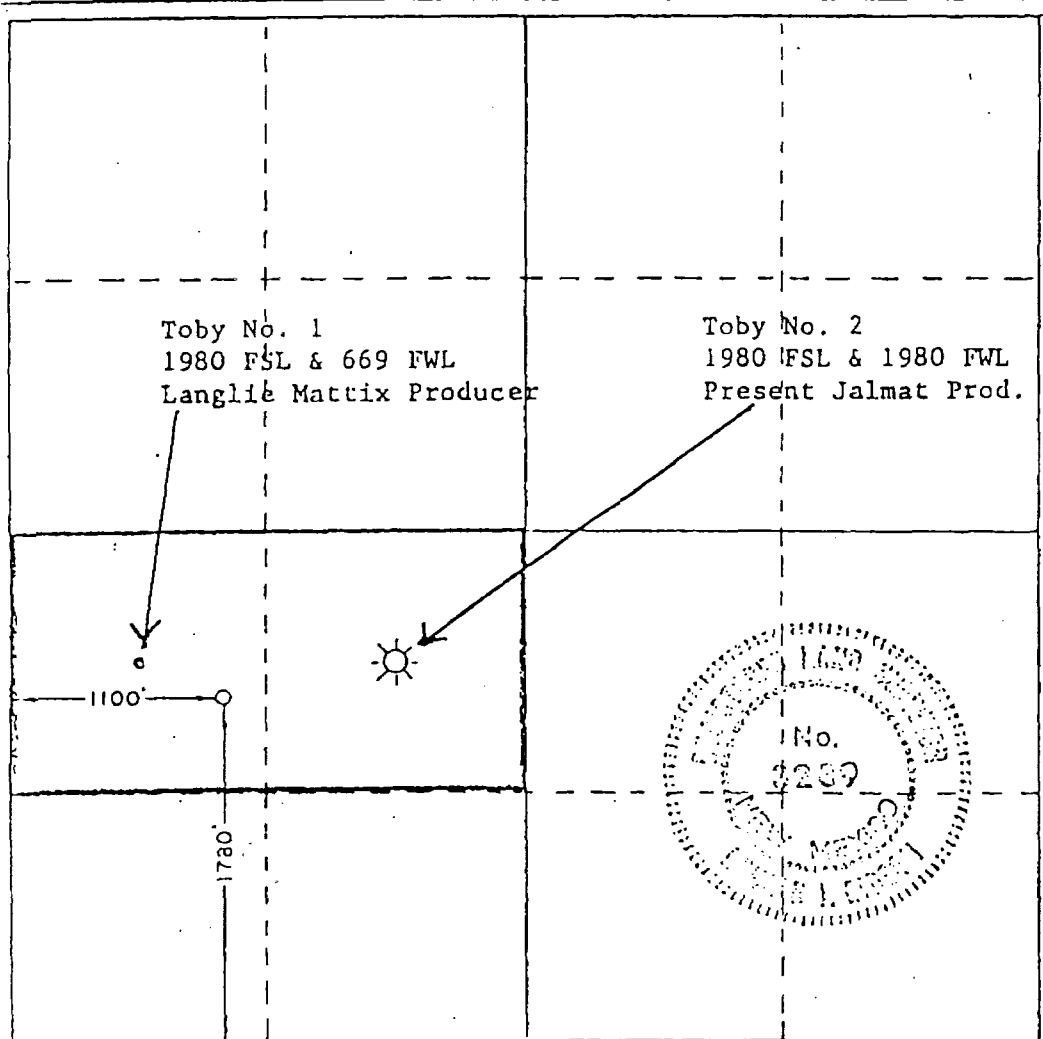
Operator <b>Doyle Hartman</b>		Lease <b>Toby</b>			Well No. <b>3</b>
Well Letter <b>1</b>	Section <b>7</b>	Township <b>24-S</b>	Range <b>37-E</b>	County <b>Lea</b>	
Actual Footage Location of Well: <b>1780</b> feet from the <b>South</b> line and <b>1100</b> feet from the <b>West</b> line					
Ground Level Elev. <b>3303.0'</b>	Producing Formation <b>Yates-Seven Rivers</b>		Pool <b>Jalmat (Gas)</b>	Produced Acreage <b>80</b>	

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.

Larry Nermyr

*Larry G. Nermyr*

Engineer

Company  
Doyle Hartman

Date  
March 31, 1982

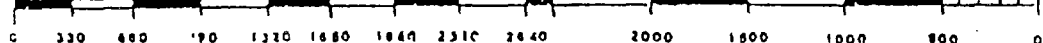
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
March 31, 1982

Registered Professional Engineer and/or Land Surveyor

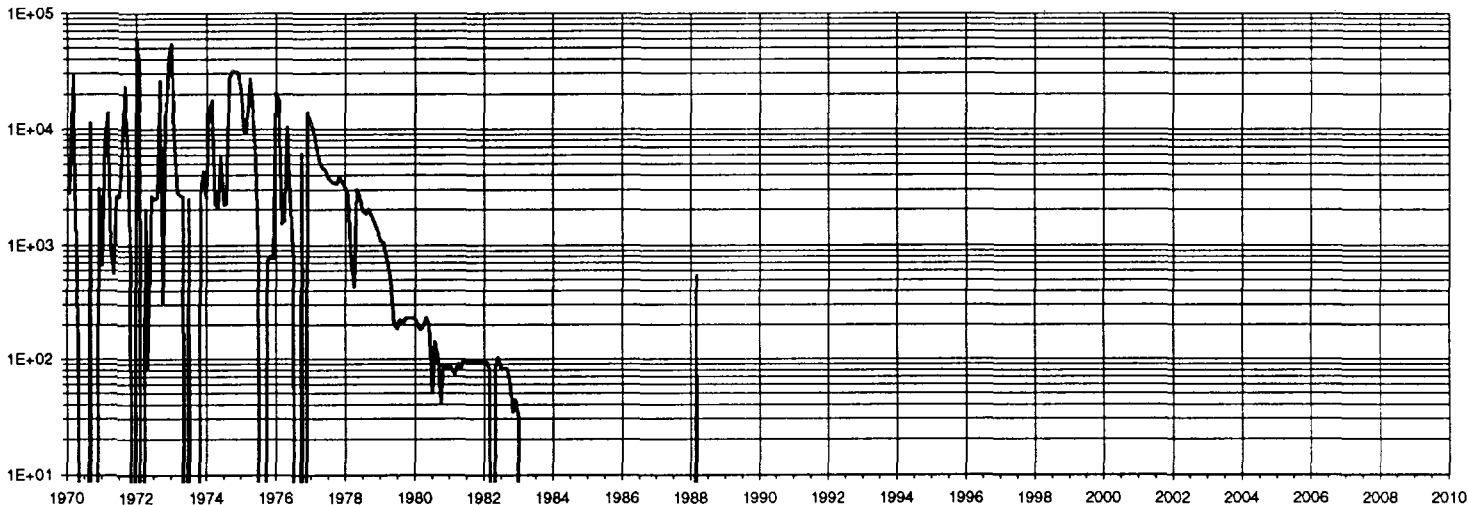
*Ronald J. Eidsen*

Certificate No. **JOHN W. WEST 676**  
**PATRICK A. ROMERO 8865**  
**Ronald J. Eidsen 3239**

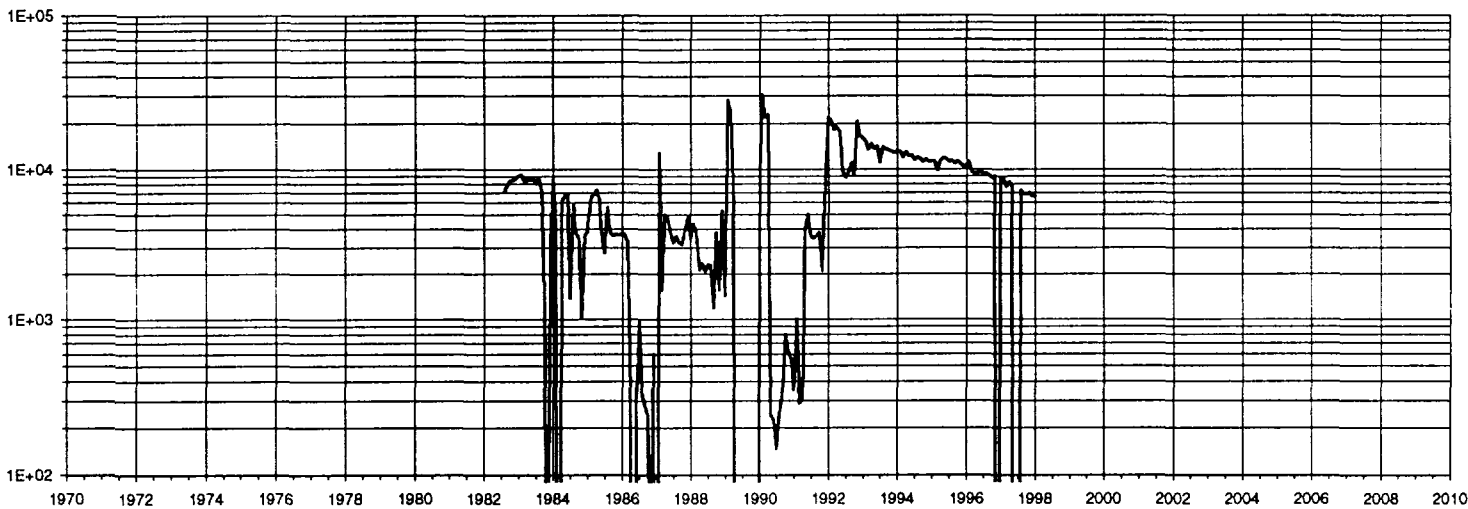


Toby Nos. 2 & 3  
 Jalmat Gas Pool  
 L-7-24S-37E  
 Gruy Petroleum Management Co.

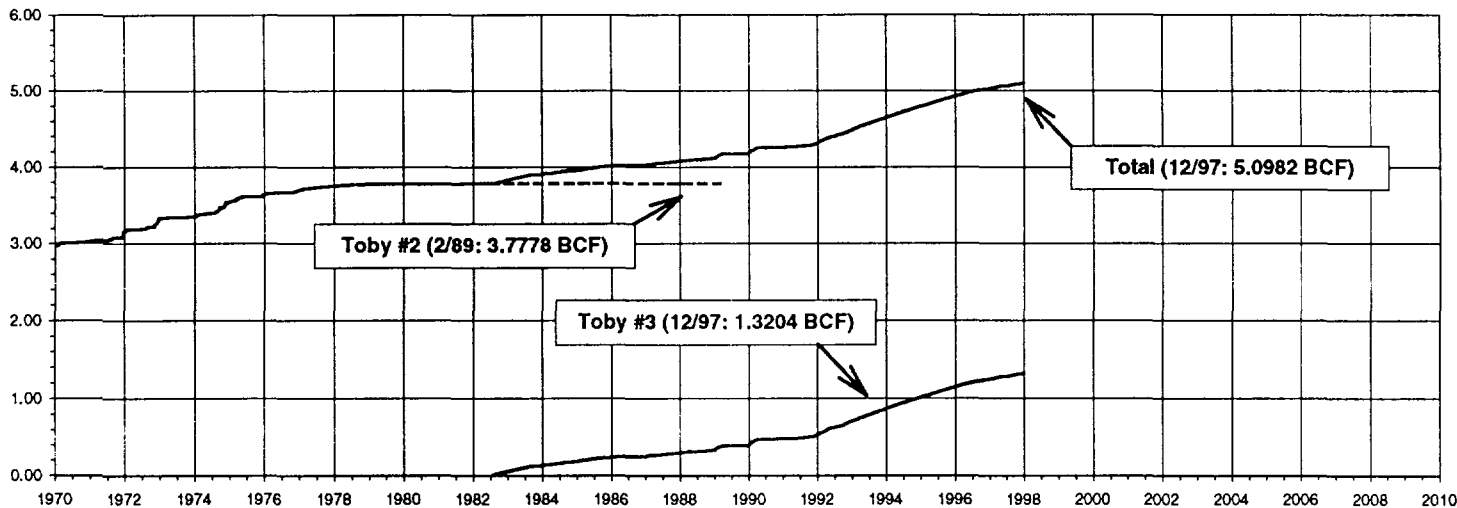
Toby No. 2 Gas Production (MCFPM)



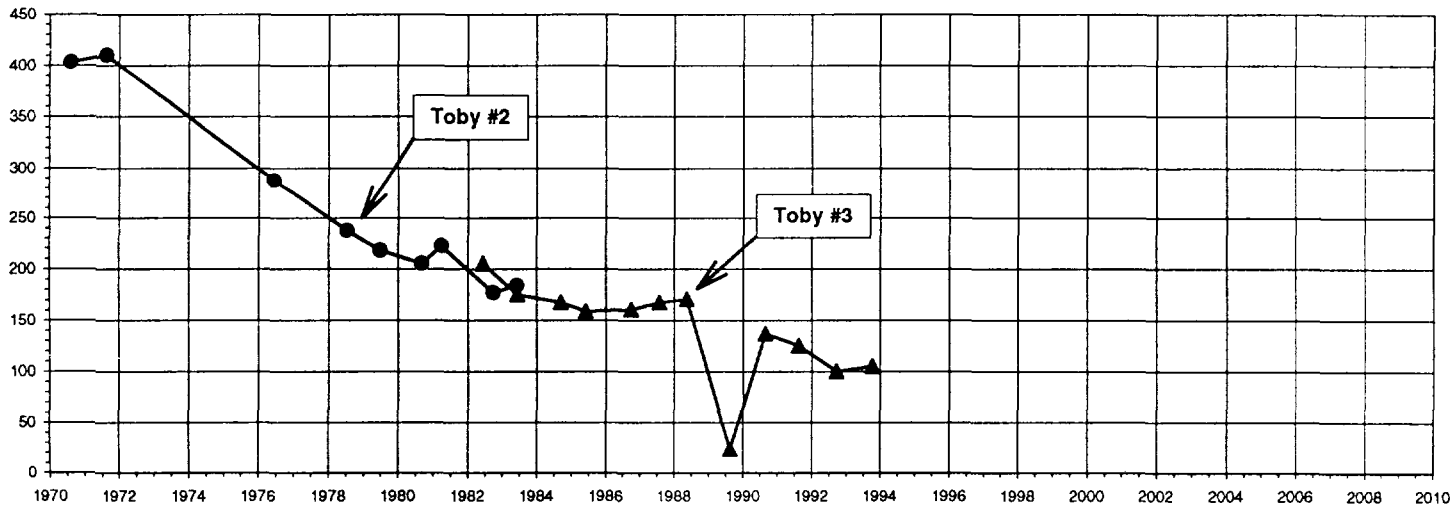
Toby No. 3 Gas Production (MCFPM)



Cumulative Gas Production (BCF)

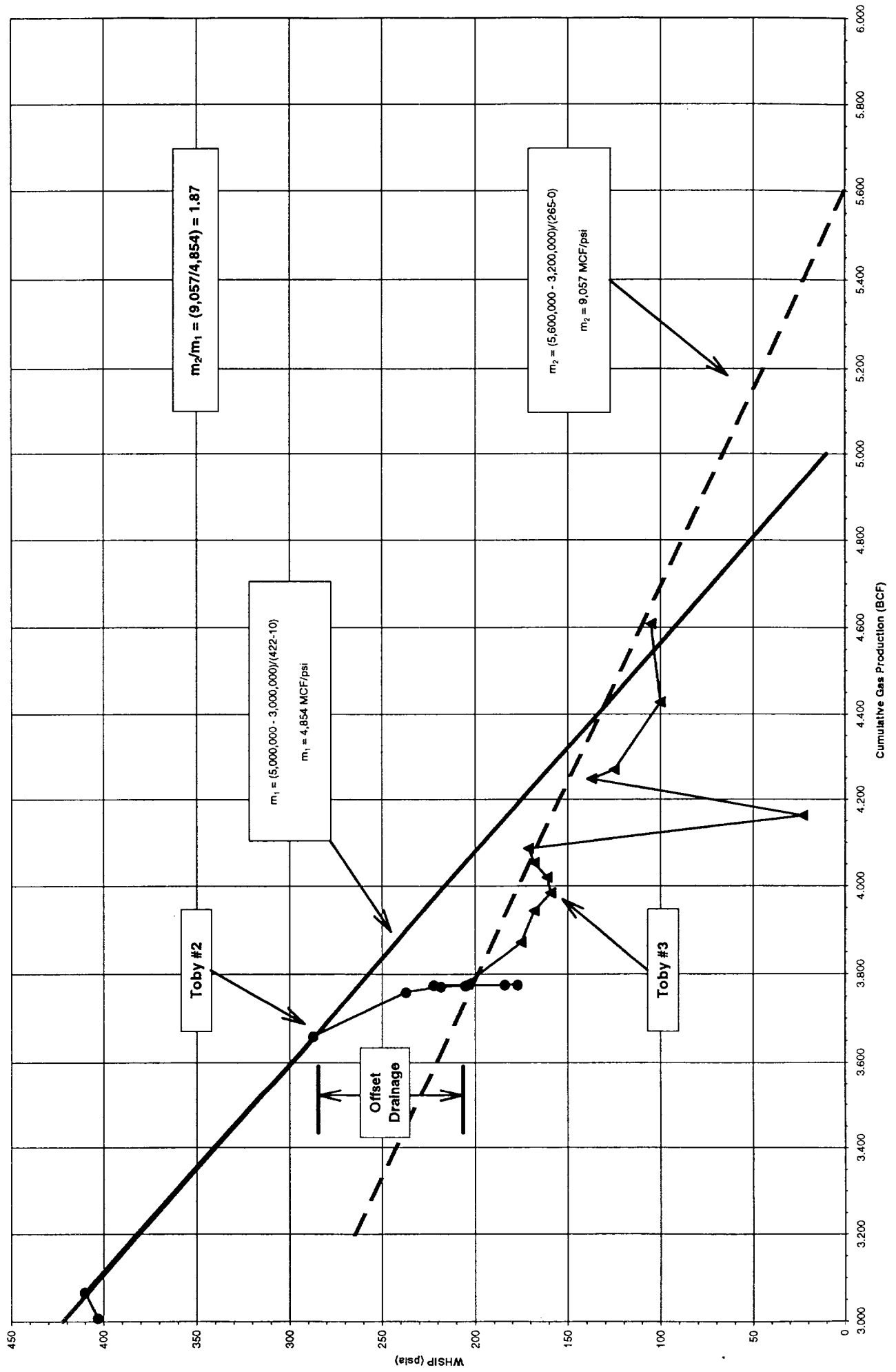


WHSIP (psia)



Toby Nos. 2 & 3  
 Jalmat Gas Pool  
 L-7-24S-37E

Gruy Petroleum Management Co.

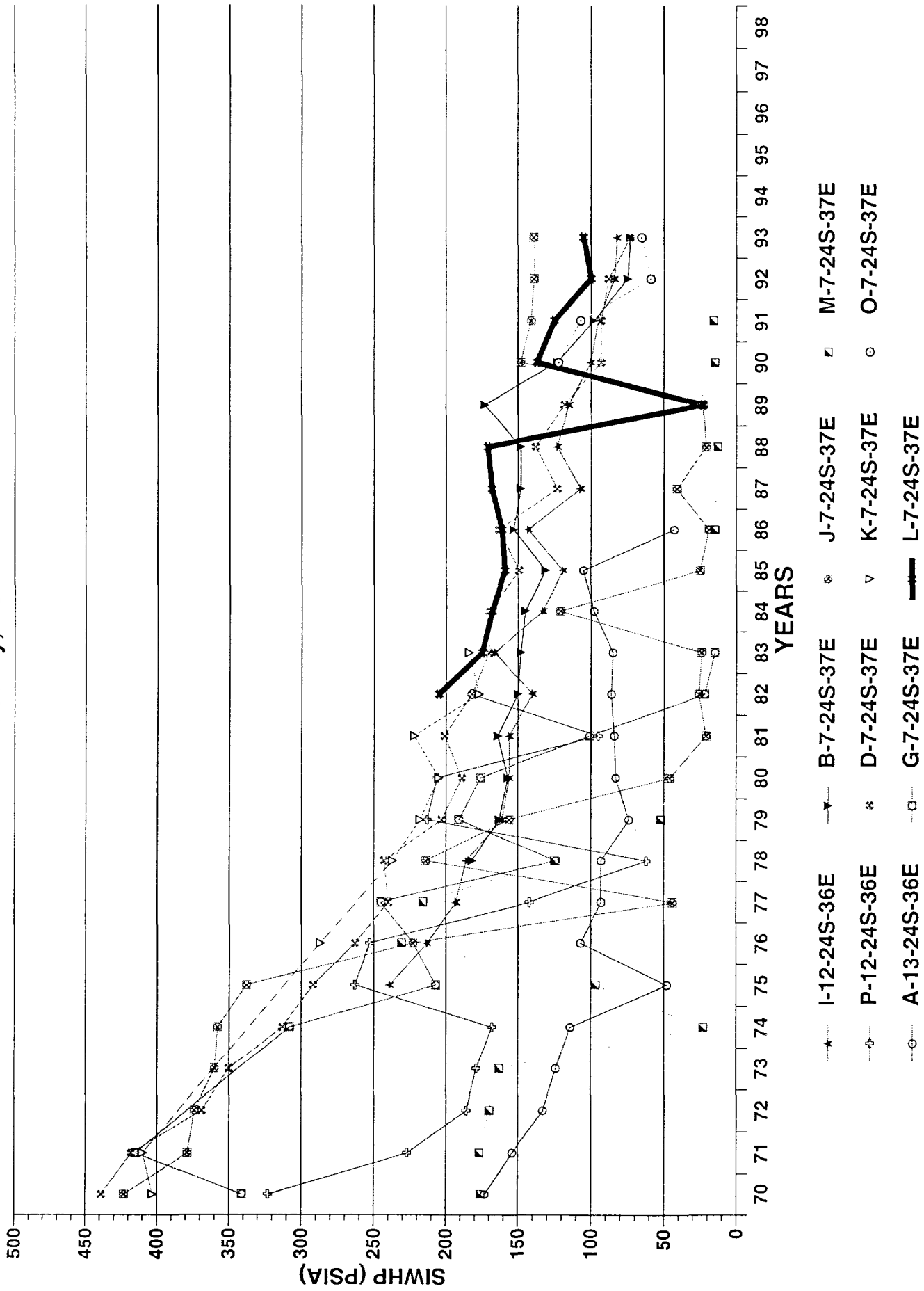


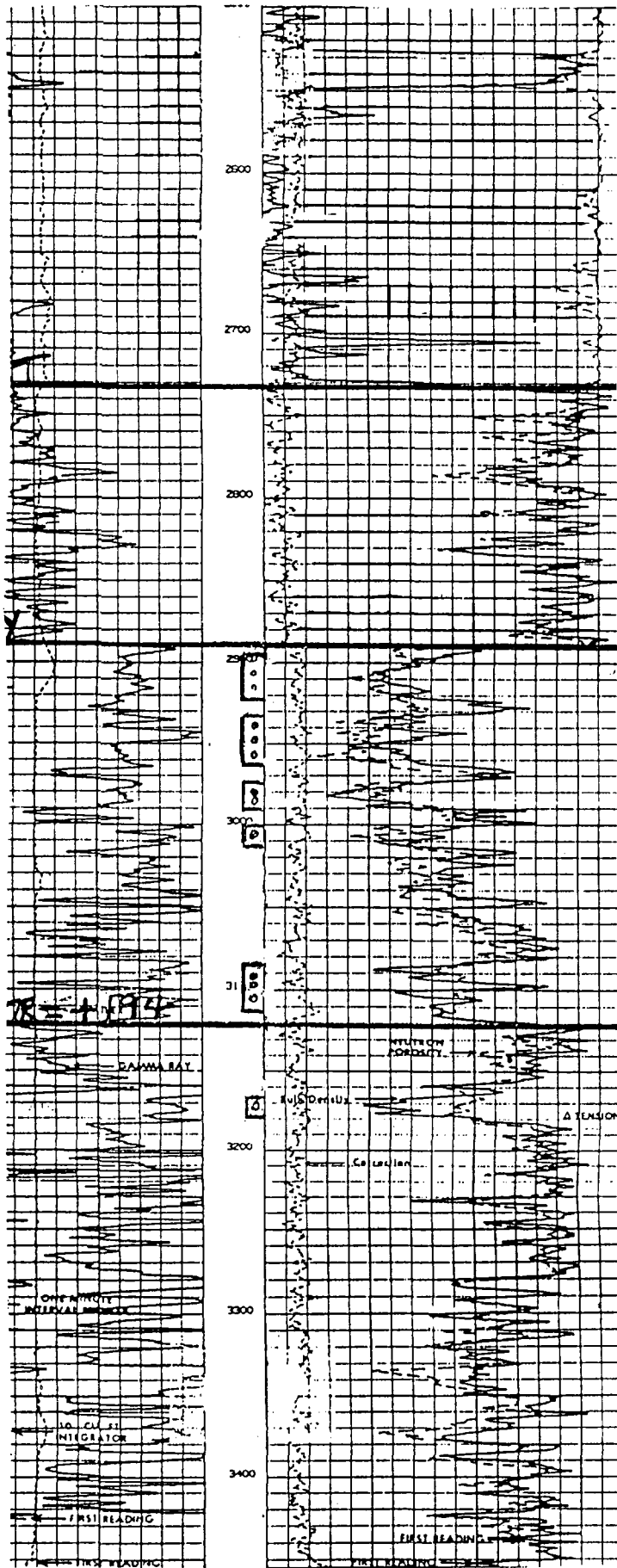


# Jalmat (Tansill-Yates-Seven-Rivers) Pool

Toby # 2,3

Composite Pressure - Time Plot  
Lea County, New Mexico





COMPANY Gruy Operating  
 (Doyle Hartman)  
 WELL Toby No. 3  
 FIELD Jalmat (Gas)  
 LOCATION 1780' FSL & 1100' FWL (L)  
Sec. 7, T-24-S, R-37-E  
 COUNTY Lea  
 STATE New Mexico  
 ELEVATIONS: KB 3314  
 DF \_\_\_\_\_  
 GL 3303

COMPLETION RECORD

SPUD DATE 5-28-82 COMP. DATE 6-12-82  
 TD 3450 PBTD 3386  
 CASING RECORD:  
9 5/8, 36# @ 430 w/250 (TOC @ Circ. )  
7, 23# @ 3450 w/500 (TOC @ Circ. )  
 \_\_\_\_\_ (TOC @ \_\_\_\_\_)  
 \_\_\_\_\_ (TOC @ \_\_\_\_\_)  
 COMP. INTERVAL Perf 2897-3177 w/21  
 STIMULATION A/5600 15% MCA  
ATR = 5 % BPM. ATP = 1450 psi.  
ISIP = 300 psi. 3-min. SIP = 0.  
 POT P/725 MCFPD (After Frac)  
 GOR \_\_\_\_\_ GR \_\_\_\_\_  
 TP \_\_\_\_\_ CP 182 psig (SICP = 196 psig)  
 CHOKE 28/64 TUBING 2 3/8 @ 3262  
 REMARKS  
06-10-82: SICP = 206 psig (After acid)  
06-10-82: SWF/92,000 + 214,000  
ATR = 30 BPM  
ATP = 1300 psi  
ISIP = 530 psi  
1-hr. SIP = 470 psi  
19.5-hr. Test:  
Flow Path - annulus  
Choke = 64/64  
FCP = 63 psi  
FTP = 153 psi  
(Sand Fill @ 3310' RKB)  
6-11-82: POP @ 8 1/2 x 64 x 1 1/2.  
SICP = 196 psig (After Frac)  
6-12-82: Est. C = 128  
01-01-98: Cum. = 1.3204 BCF  
Est. Rem. = 314.4 MMCF  
Est. Ult. = 1.6348 BCF  
b = .229  
M = 9057 MCF/psia

L-7-24S-37E



# Northshore Woolworth No. 6

## E-33-24S-37E

Northshore Woolworth No. 6  
E-33-24S-37E

Northshore Woolworth No. 5  
C-33-24S-37E

Northshore Woolworth No. 3  
E-33-24S-37E

M.C. Woolworth No. 4  
J-33-24S-37E

Humble "L" State No. 3  
I-32-24S-37E

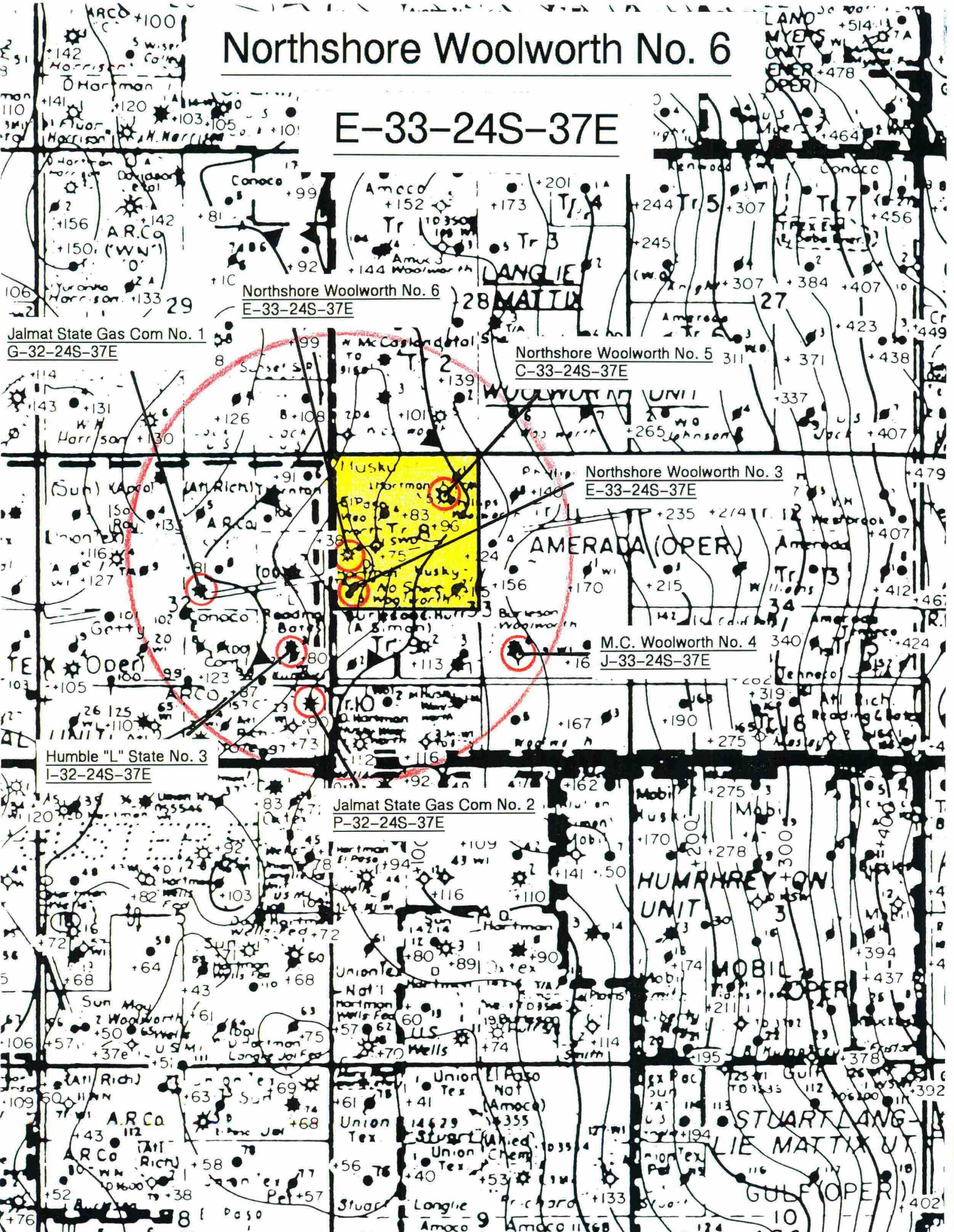
Jalmat State Gas Com No. 2  
P-32-24S-37E

HUMPHREY ON  
UNIT

MOBIL  
OPER

STUART LANG  
LIE MATTHEW

GULF (OPER)





NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION AT

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

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

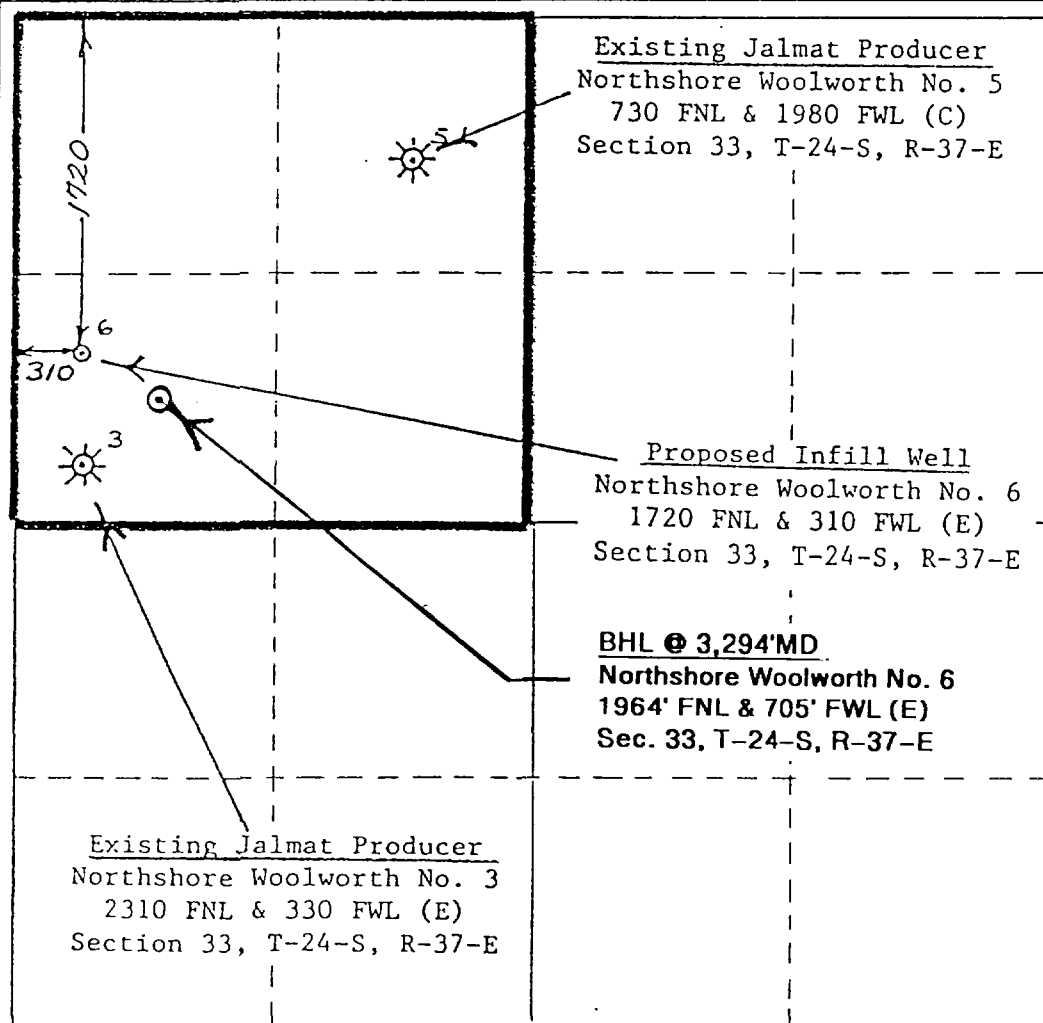
Operator <b>Doyle Hartman, Oil Operator</b>			Lease <b>North Shore Woolworth</b>		Well No. <b>6</b>
Unit Letter <b>E</b>	Section <b>33</b>	Township <b>24 South</b>	Range <b>37 East</b>	County <b>Lea</b>	
Actual Footage Location of Well: <b>1720</b> feet from the <b>North</b> line and <b>310</b> feet from the <b>West</b> line					
Ground Level Elev. <b>3162.0</b>	Producing Formation <b>Yates-Seven Rivers</b>		Pool <b>Jalmat (Gas)</b>	Dedicated Acreage: <b>160</b> 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.*

*Larry A. Nermyr*

Name  
**Larry A. Nermyr**

Position  
**Engineer**

Company  
**Doyle Hartman**

Date  
**December 14, 1982**

*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  
**December 10, 1982**

Registered Professional Engineer and/or Land Surveyor

*Truman Gaskin*  
**Truman Gaskin**

Certificate No. **2126**

0042607

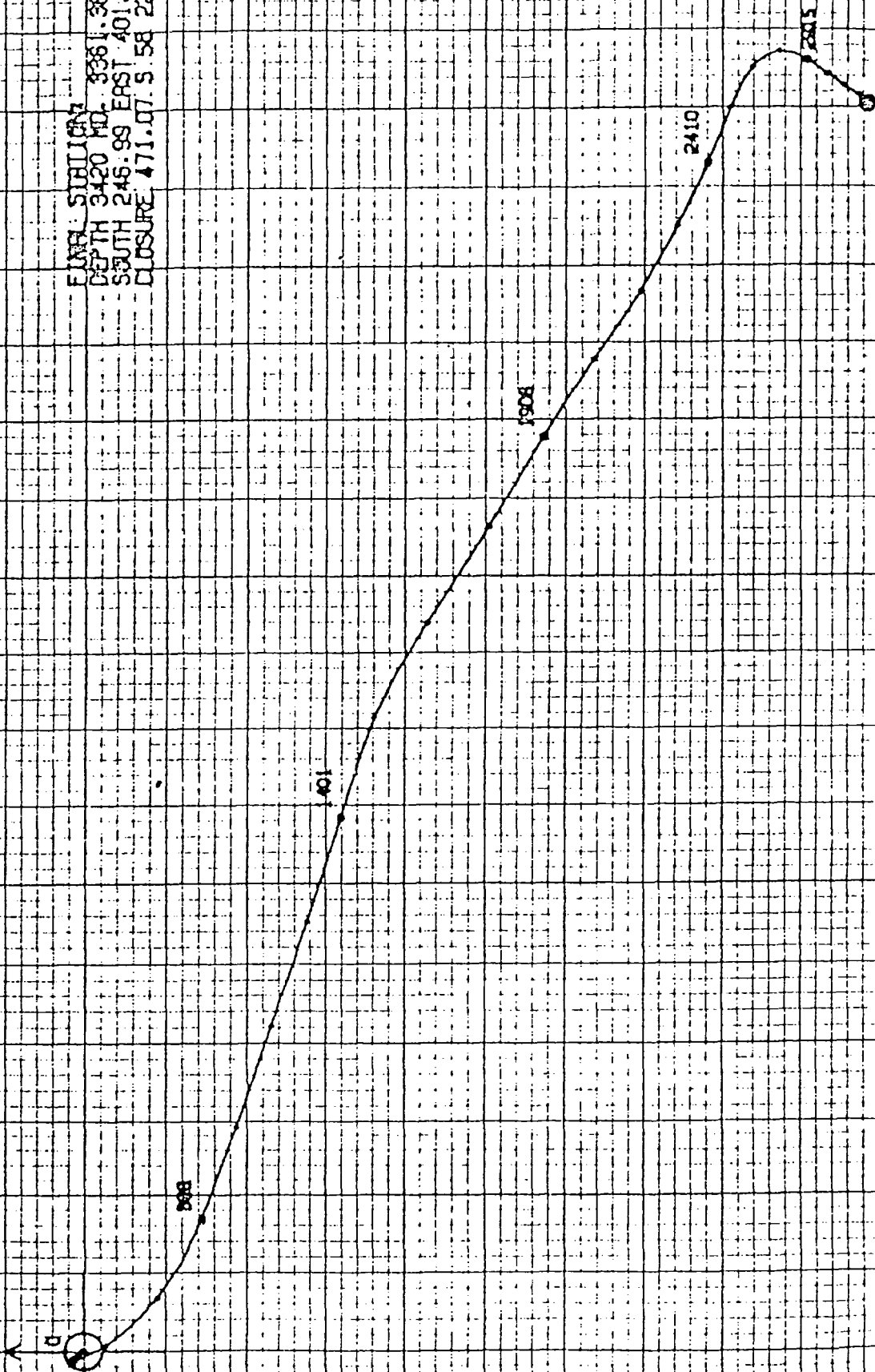


BOYLE HARTMAN  
NORTH SHORE WOODWORTH WELL NO. 6  
LEA COUNTY, NEH MEXICO 801-271

HORIZONTAL PROJECTION  
SCALE 1 IN. = 50 FEET  
DEPTH INDICATOR NO.

ERSTMAN INSTRUMENT CO., INC.

FURNAL STRICTION  
DEPTH 3420 MD. 3361.38 TVD  
SOUTH 246.99 EAST 401.19  
CLOSURE 471.07 S 58 22 39 E



0012599



P. O. Box 5577/Midland, Texas 79704/(915) 563-0511

SURVEY CERTIFICATION SHEET

STATE OF TEXAS  
COUNTY OF MIDLAND

I, Gary DeSpain, in the employ of Eastman Whipstock, Inc., did on the days of 4-8, 1983 thru 4-8, 1983 conduct or supervise the taking of a Gyroscopic Multi Shot survey by the method of magnetic orientation from a depth of 0 feet to 400 feet, with recordings of inclination and direction being obtained at approximate intervals of 50 feet.

This survey was conducted at the request of Doyle Hartman for their North Shore Woolworth #6, Lea County County, State of New Mexico, in the \_\_\_\_\_ field.

This data for this survey and the calculation were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

Gary DeSpain  
Directional Supervisor / Surveyor

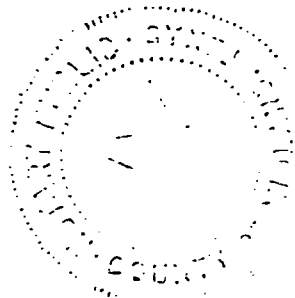
The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.

Troy DeSpain

Before me, the undersigned authority, on this day personally appeared Gary DeSpain, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this 19th day of April, 1983

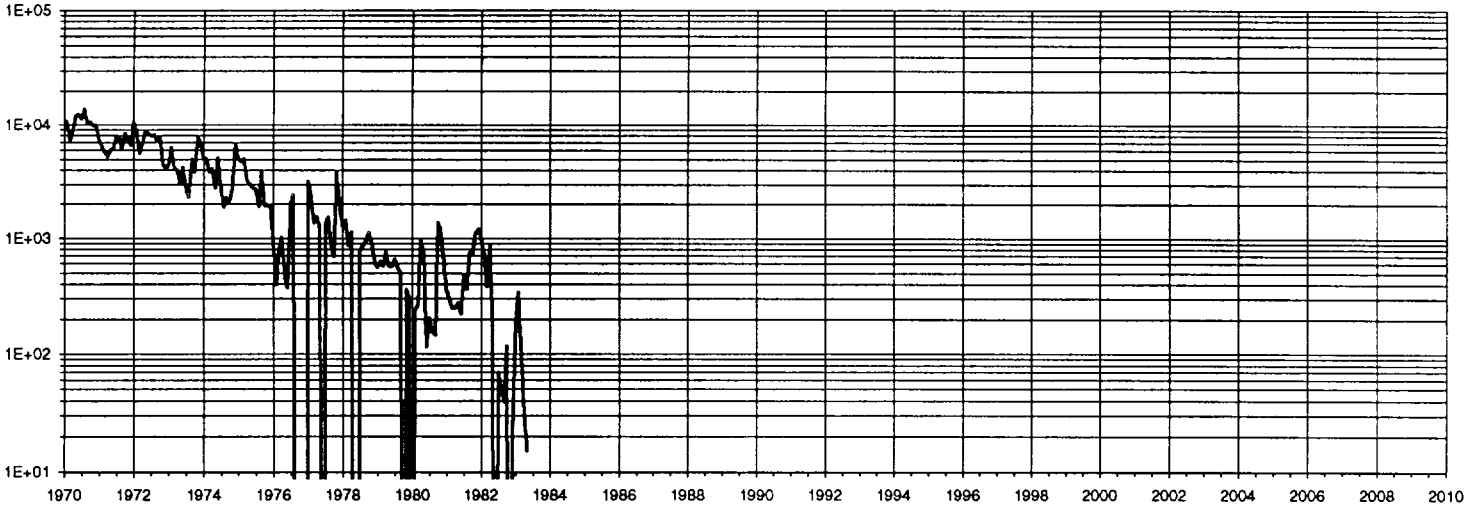
Ray E. Stainke  
Notary Public in and for the  
County of Midland, Texas  
My commission expires 7/9/85



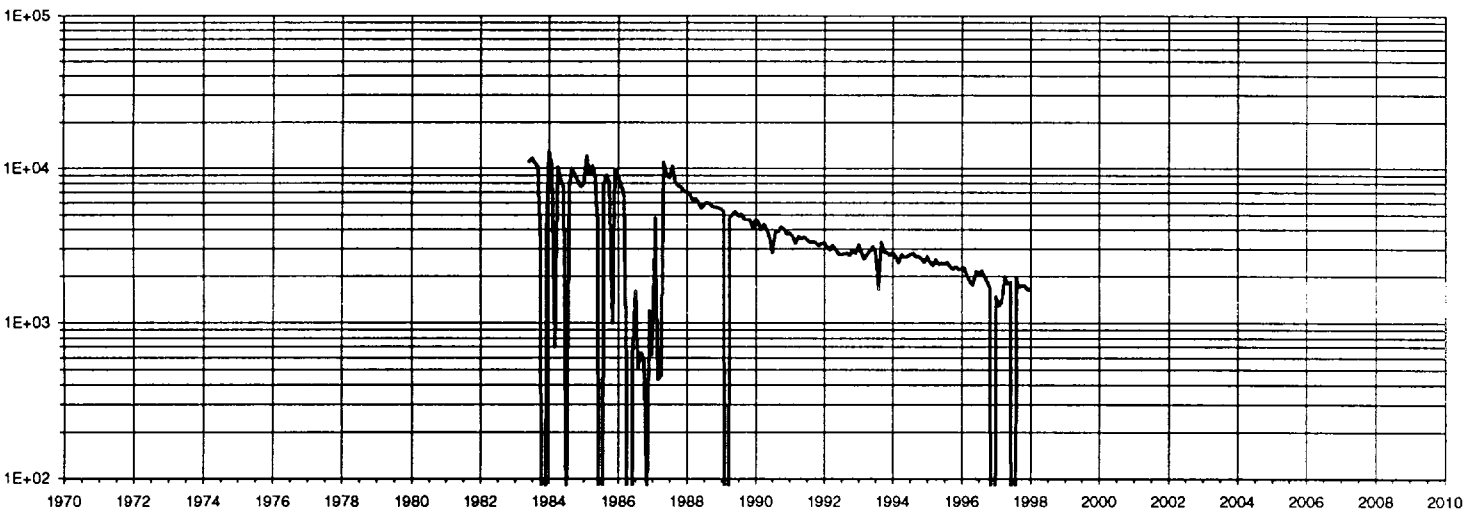
0042600

North Shore Woolworth Nos. 3 & 6  
 Jalmat Gas Pool  
 E-33-24S-37E  
 Gruy Petroleum Management Co.

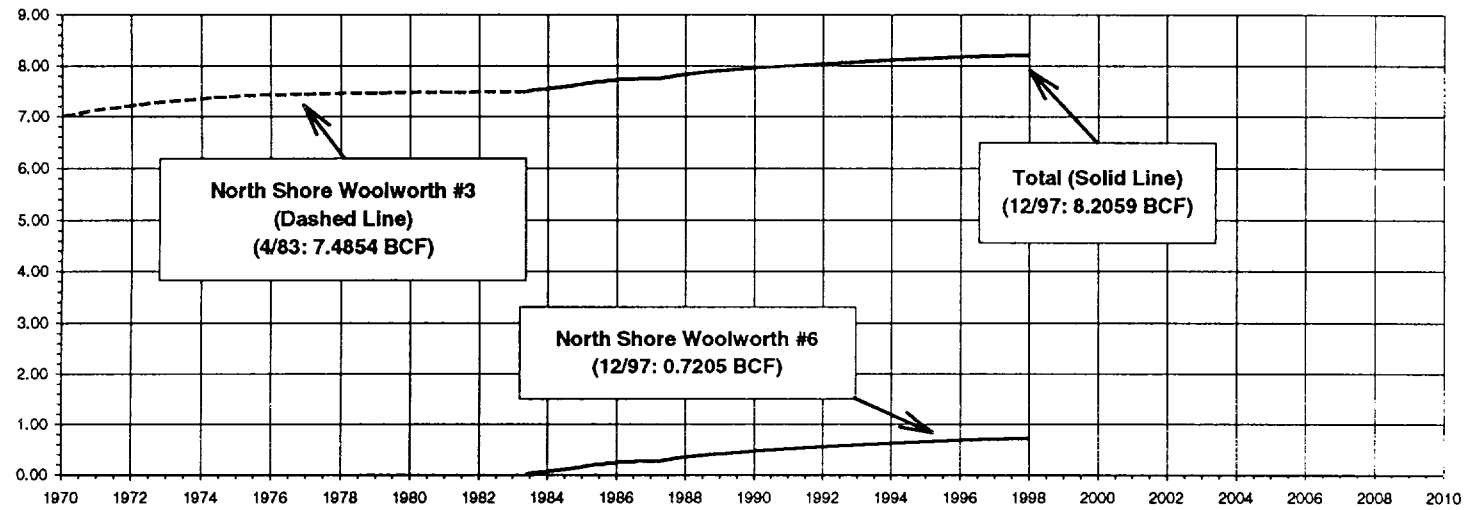
North Shore Woolworth #3 Gas Production (MCFPM)



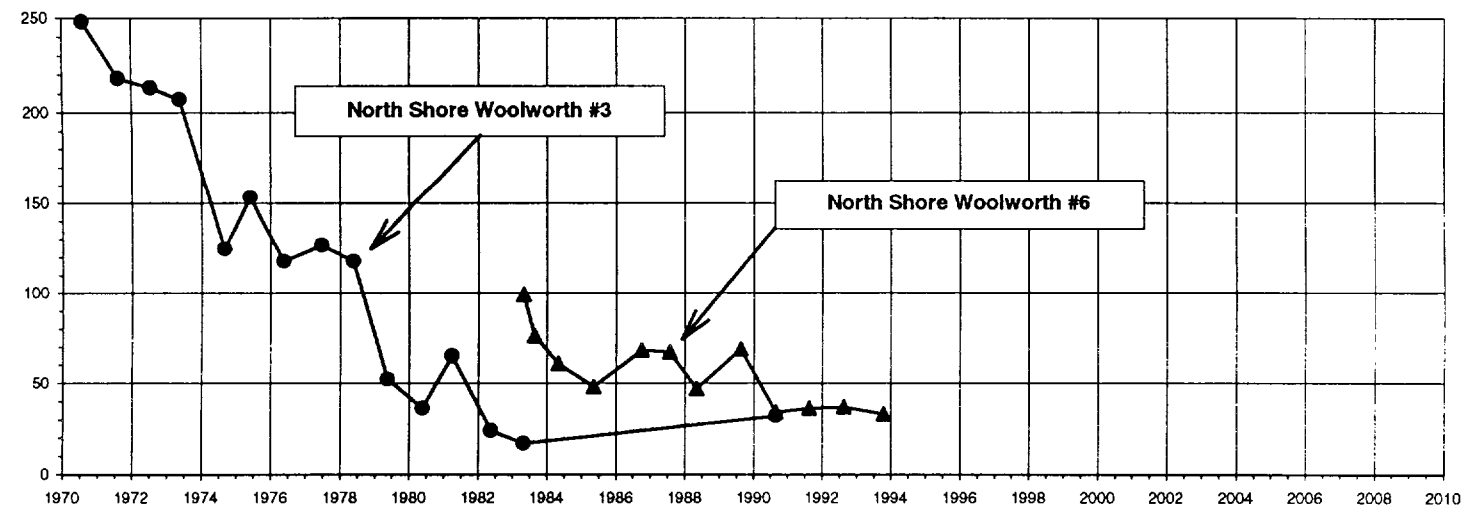
North Shore Woolworth #3 Gas Production (MCFPM)



Cumulative Gas Production (BCF)

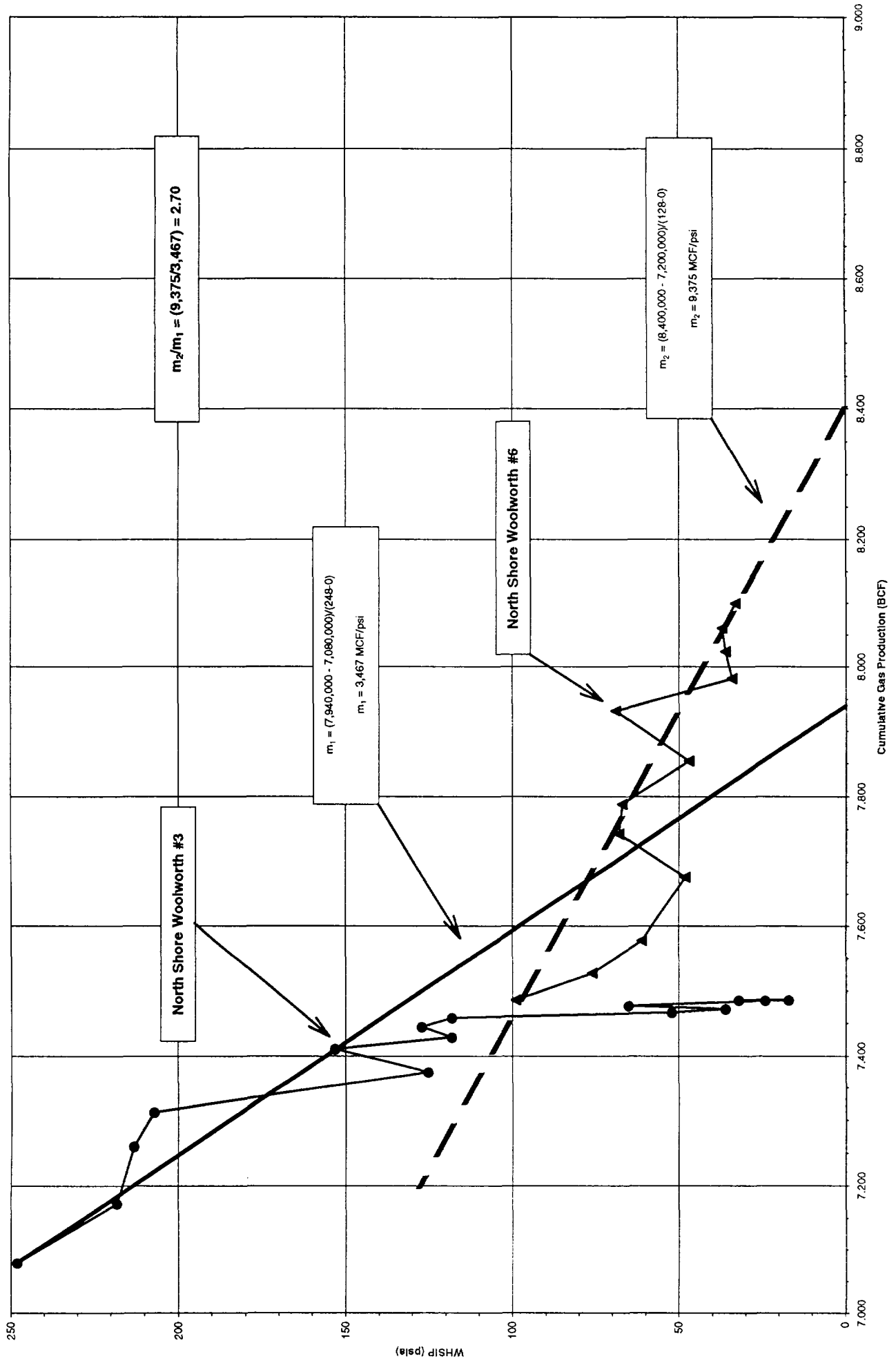


WHSIP (psia)



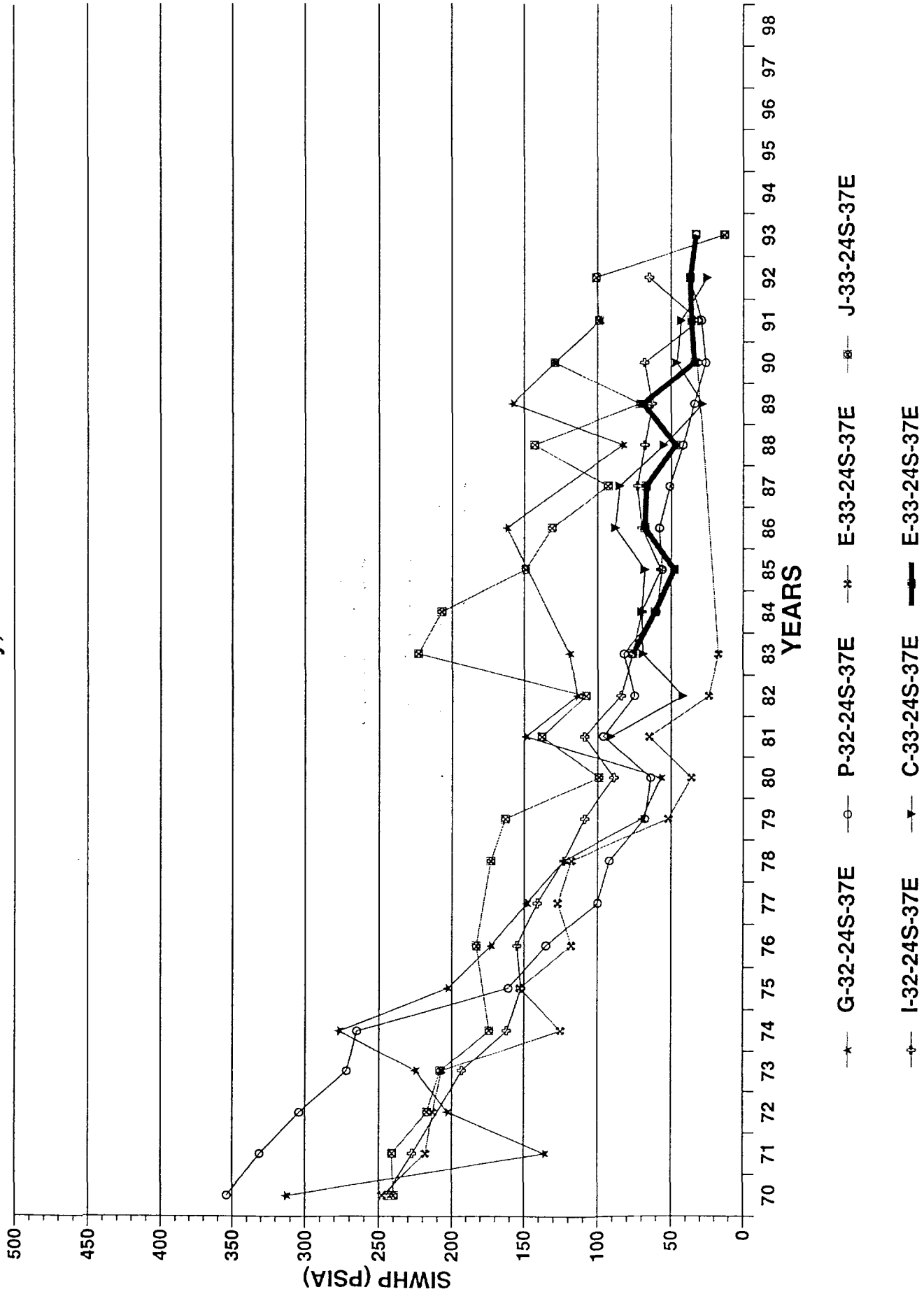


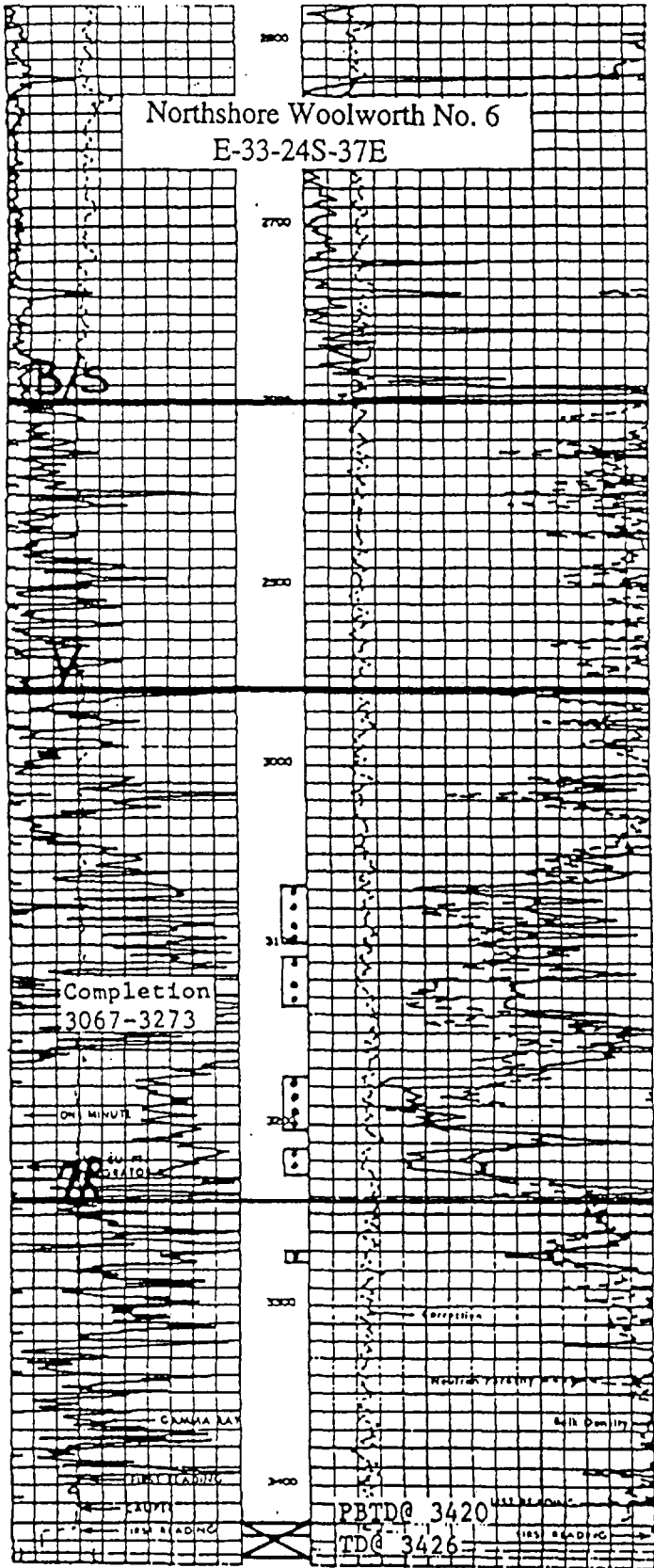
North Shore Woolworth Nos. 3 & 6  
 Jalmat Gas Pool  
 E-33-24S-37E  
 Gruy Petroleum Management Co.



# Jalmat (Tansill-Yates-Seven-Rivers) Pool

Northshore-Woolworth # 3,6  
Composite Pressure - Time Plot  
Lea County, New Mexico





COMPANY Gruy Operating  
(Doyle Hartman)

WELL Northshore Woolworth No. 6

FIELD Jalmat (Gas)

LOCATION 1710' FNL & 310' FWL (E)  
Sec. 33, T-24-S, R-37-E

COUNTY Lea

STATE New Mexico

ELEVATIONS: KB 3273'  
DF 3272'  
GL 3262'

BHL @ 3231': 1942' FNL & 715' FWL

### COMPLETION RECORD

SPUD DATE 04-07-83 COMP. DATE 04-21-83

TD 3,426' \*(3366') PBTDC 3,420' \*(3361')

CASING RECORD:

9 5/8" @ 467' w/250 sx. (TOC @ \_\_\_\_\_)

7" @ 3426' w/700 sx. (TOC @ \_\_\_\_\_)

(TOC @ \_\_\_\_\_)

(TOC @ \_\_\_\_\_)

COMP. INTERVAL Perf: 3067-3273' w/21.  
\*(3009-3220')

STIMULATION A/5500

POT IPF = 112 MCFPD + 1 BHPD

GOR \_\_\_\_\_ GR \_\_\_\_\_

TP 45 CP 83

CHOKE 18/64 TUBING a

REMARKS \* True Vertical Depth

04-25-83: F/155 MCFPD  
Choke = 30/64  
FTP = 25 psig  
FCP = 40 psig

04-27-83: 48-hr SICP = 86 psig

04-27-83: SWF/90,000 + 206,000  
ATR = 34 BPM  
ATP = 2200 psi  
ISIP = 640 psi  
1-hr SIP = 525 psi

05-04-83: SICP = 100 psig

05-25-83: P/657 MCFPD  
Choke = 54/64  
FCP = 45 psi

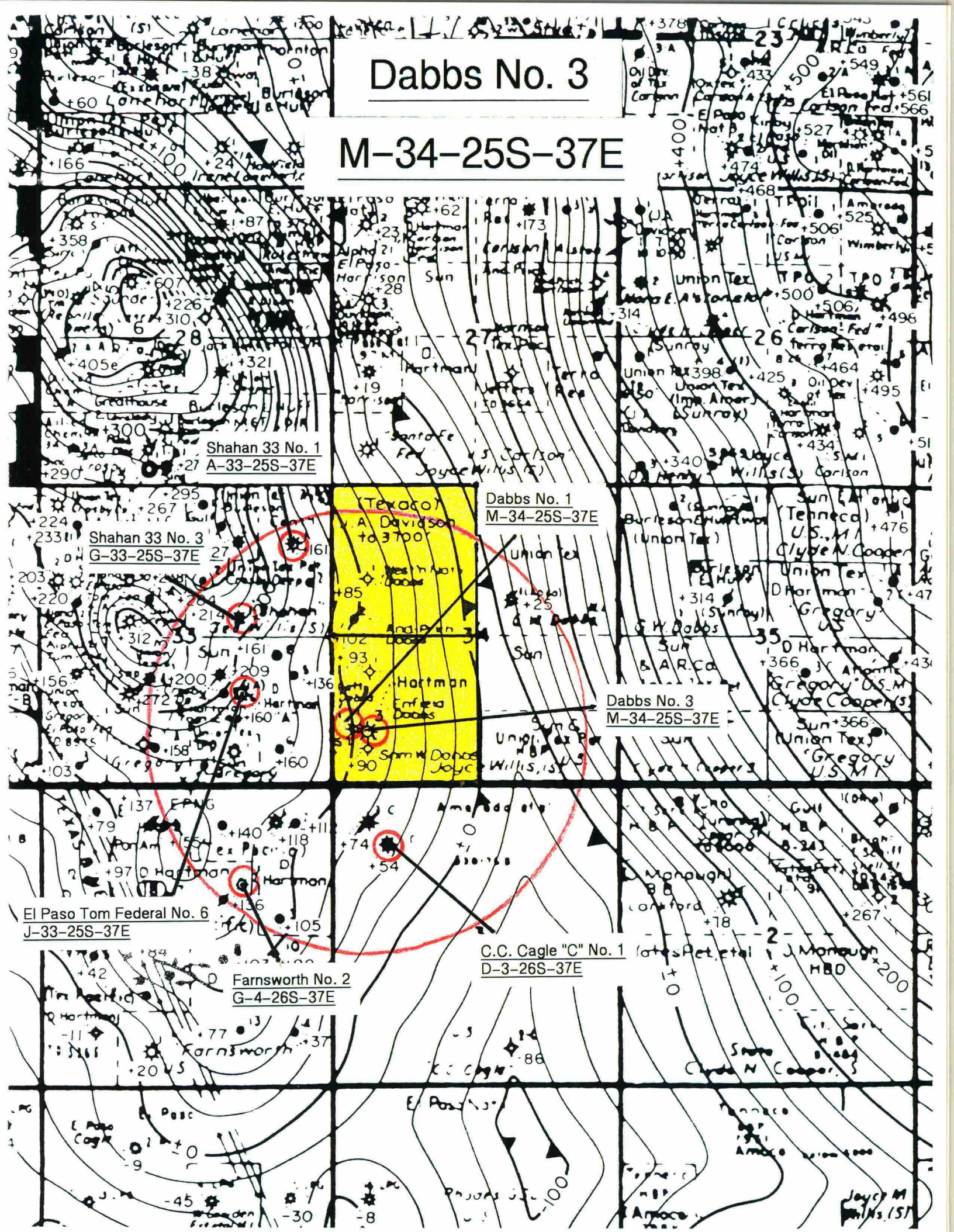
01-01-98: Cum = 0.7295 BCF  
Rem = 77.9 MMCF  
Est. Ult. = 0.7984 BCF  
b = 0.154  
m = 9375 MCF/psi

E-33-24S-37E



# Dabbs No. 3

## M-34-25S-37E



Shahan 33 No. 1  
A-33-25S-37E

Dabbs No. 1  
M-34-25S-37E

Dabbs No. 3  
M-34-25S-37E

El Paso Tom Federal No. 6  
J-33-25S-37E

Farnsworth No. 2  
G-4-26S-37E

C.C. Cagle "C" No. 1  
D-3-26S-37E

Texaco  
A Davidson  
to 3700  
Hartman  
Joyce  
Willis

Joyce M  
Willis



NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PL.

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

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

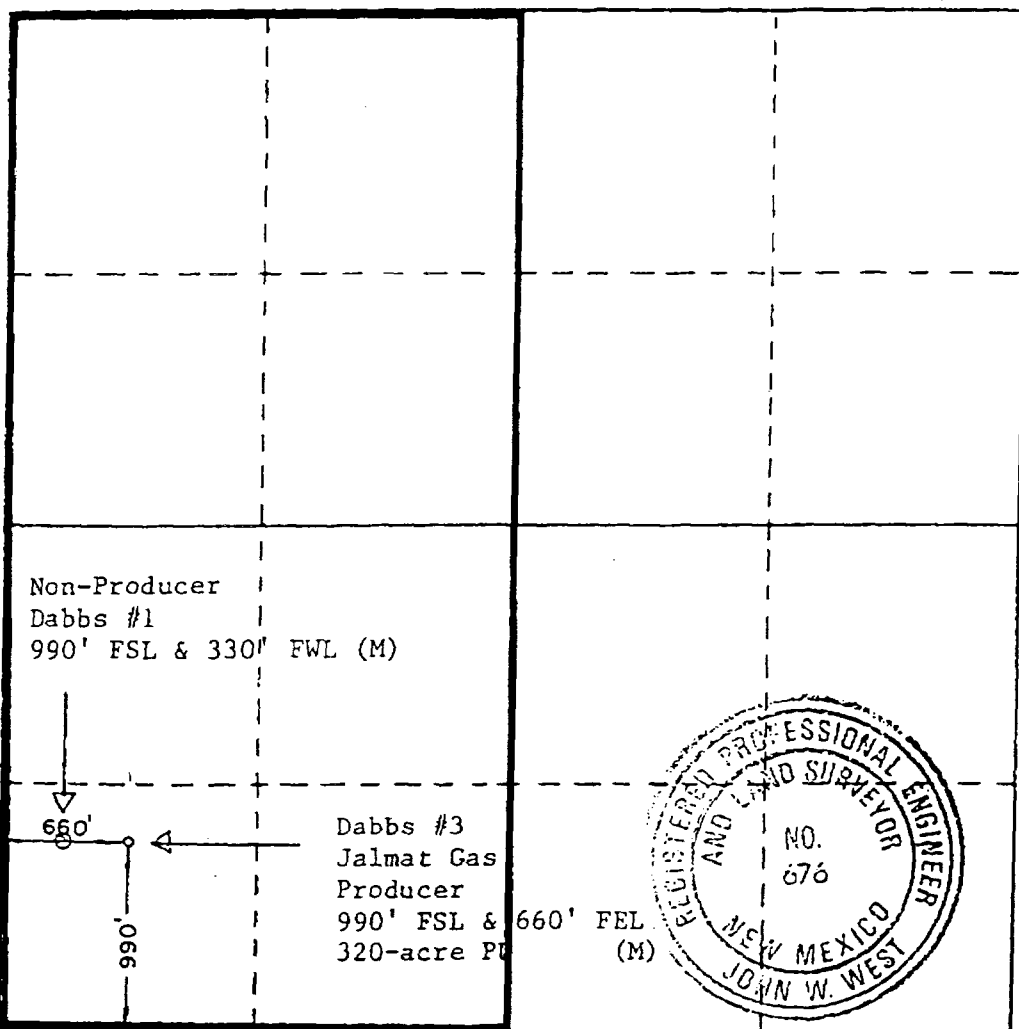
Operator Doyle Hartman		Lease Dabbs			Well No. 3
Unit Letter K	Section 34	Township 25 South	Range 37 East	County Lea County	
Actual Footage Location of Well: 990 feet from the South line and 660 feet from the West line					
Ground Level Elev. 3001.5	Producing Formation Tansil-Yates-7 Rivers		Pool Jalmat (Gas)	Dedicated Acreage: 320 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.

*[Signature]*

Name  
Michael Stewart

Position  
Engineer

Company  
Doyle Hartman

Date  
February 20, 1990

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  
December 6, 1985

Registered Professional Engineer  
and/or Land Surveyor

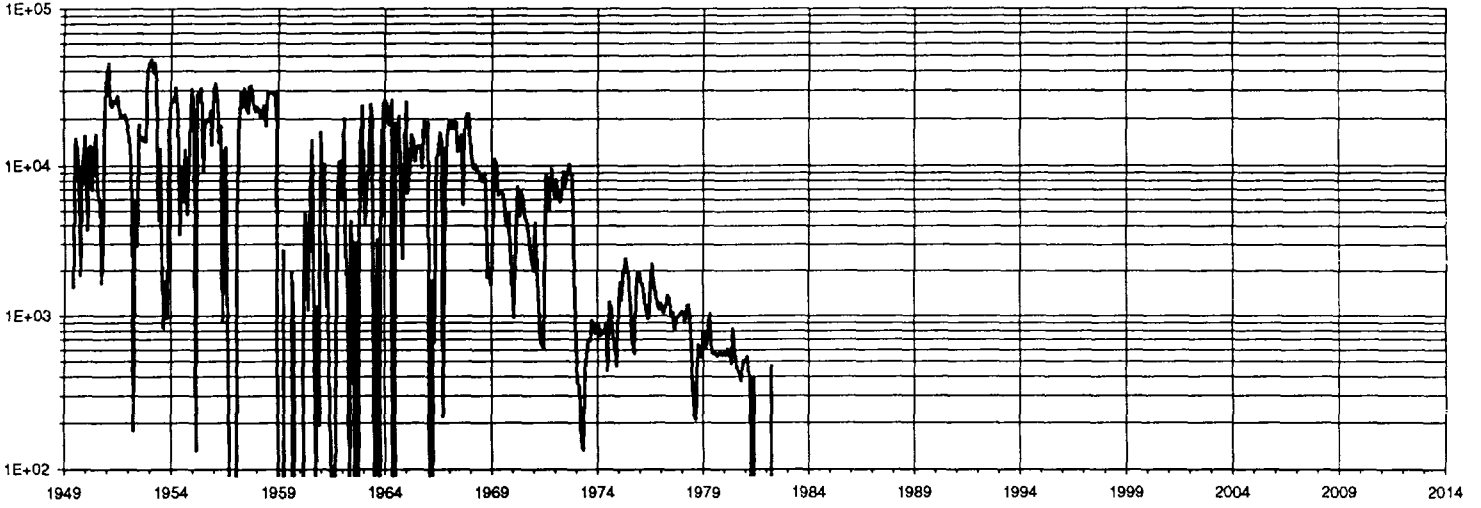
*[Signature]*

Certificate No. JOHN W. WEST, 676  
RONALD J. EIDSON, 3239

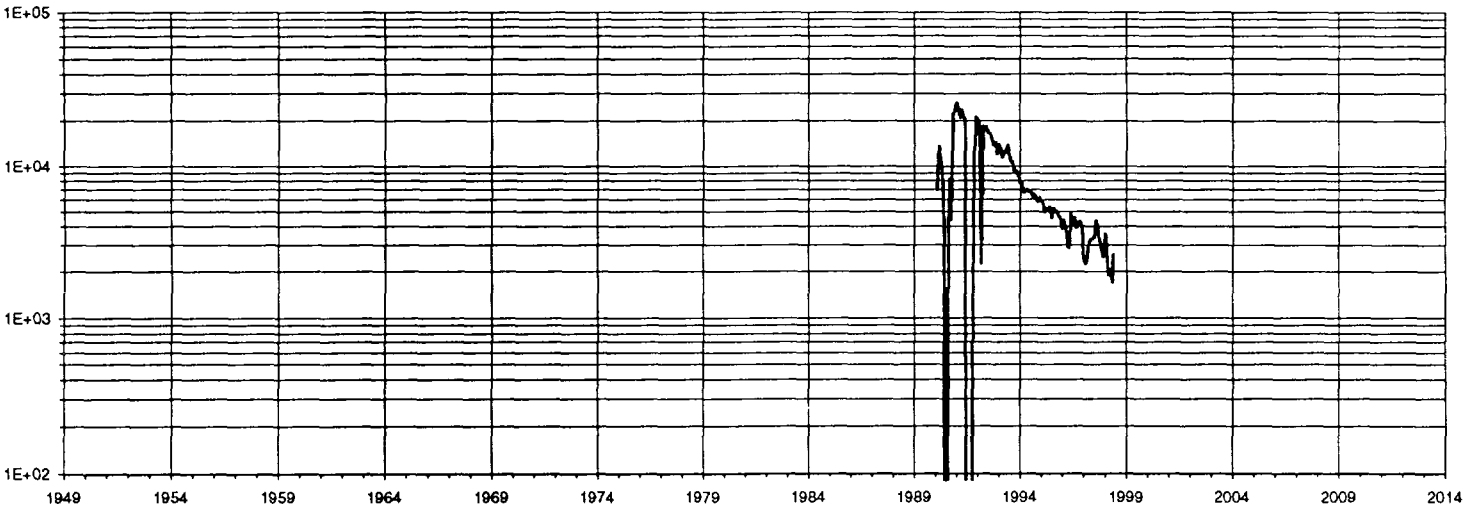
98530



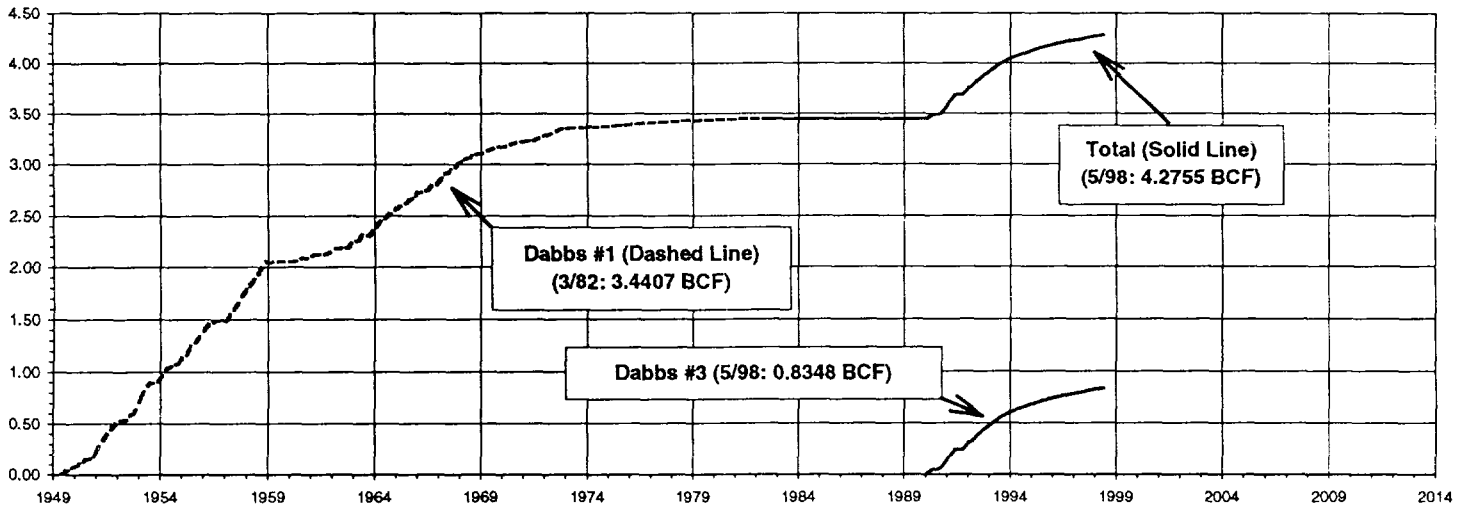
Dabbs #1 Gas Production (MCFPM)



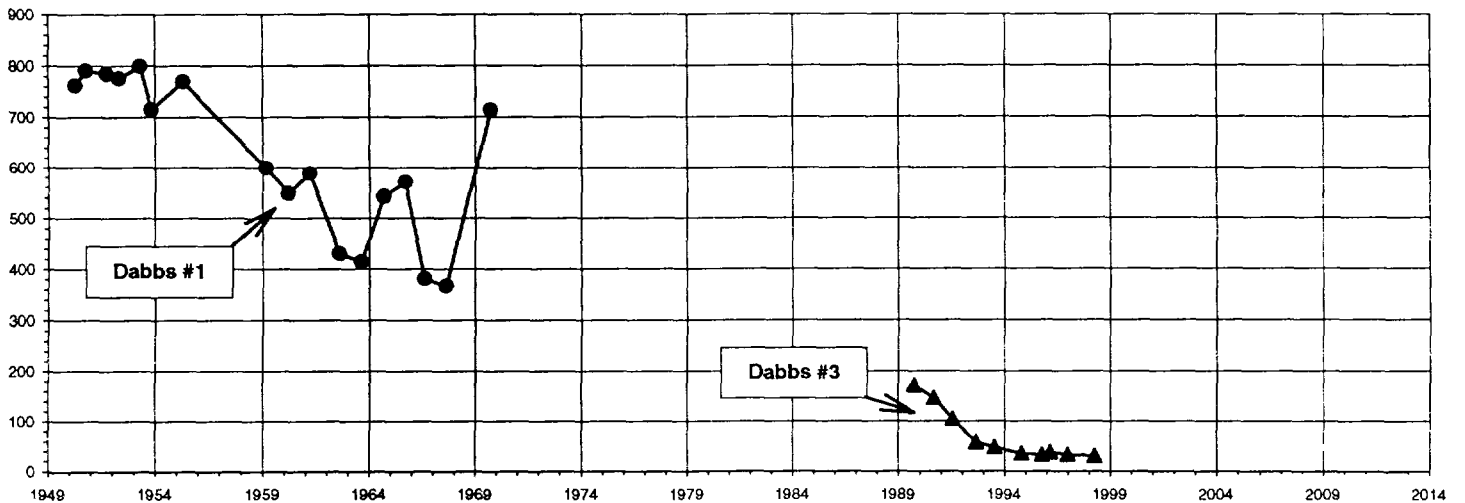
Dabbs #3 Gas Production (MCFPM)



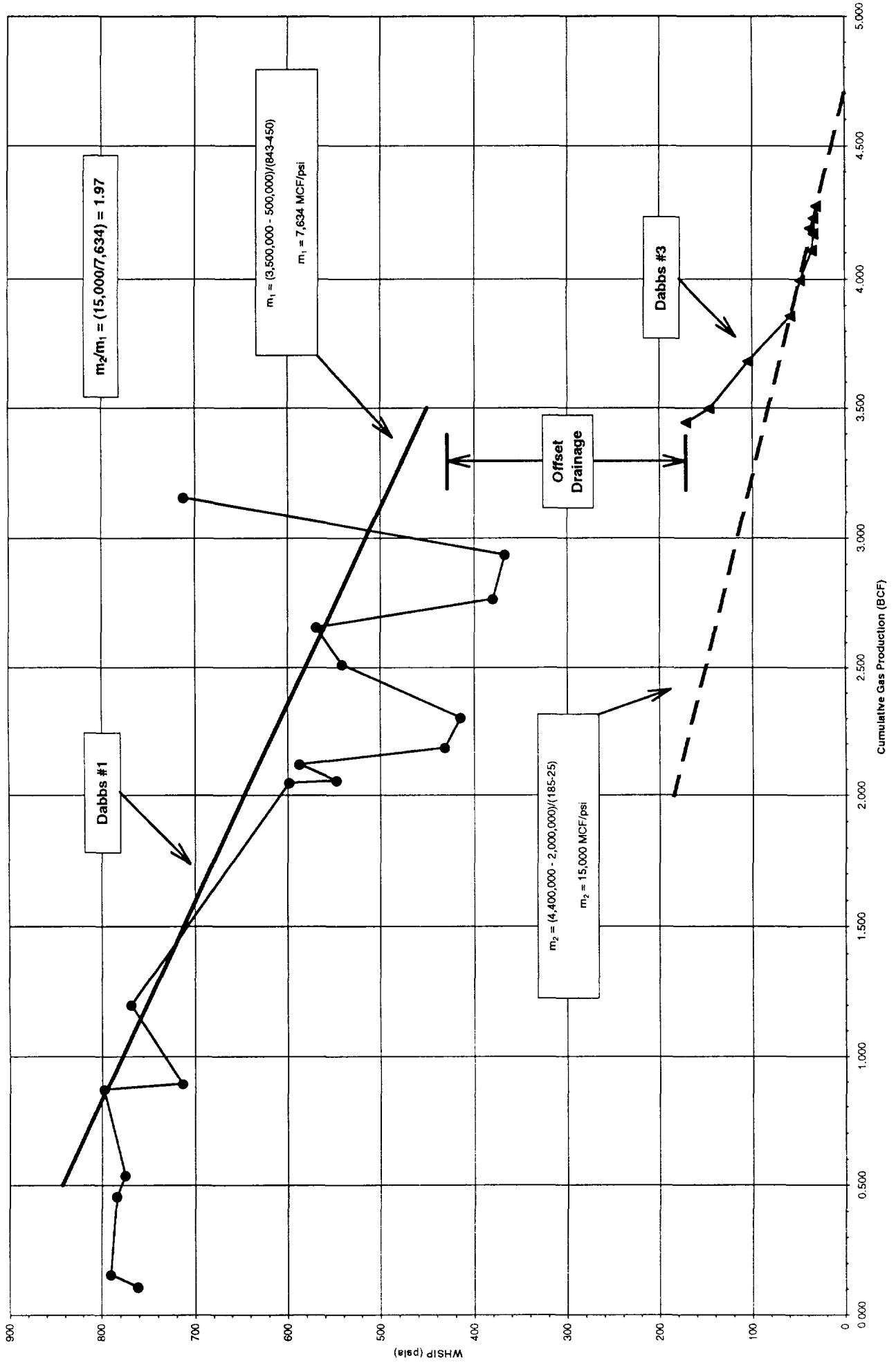
Cumulative Gas Production (BCF)



WHSIP (psia)



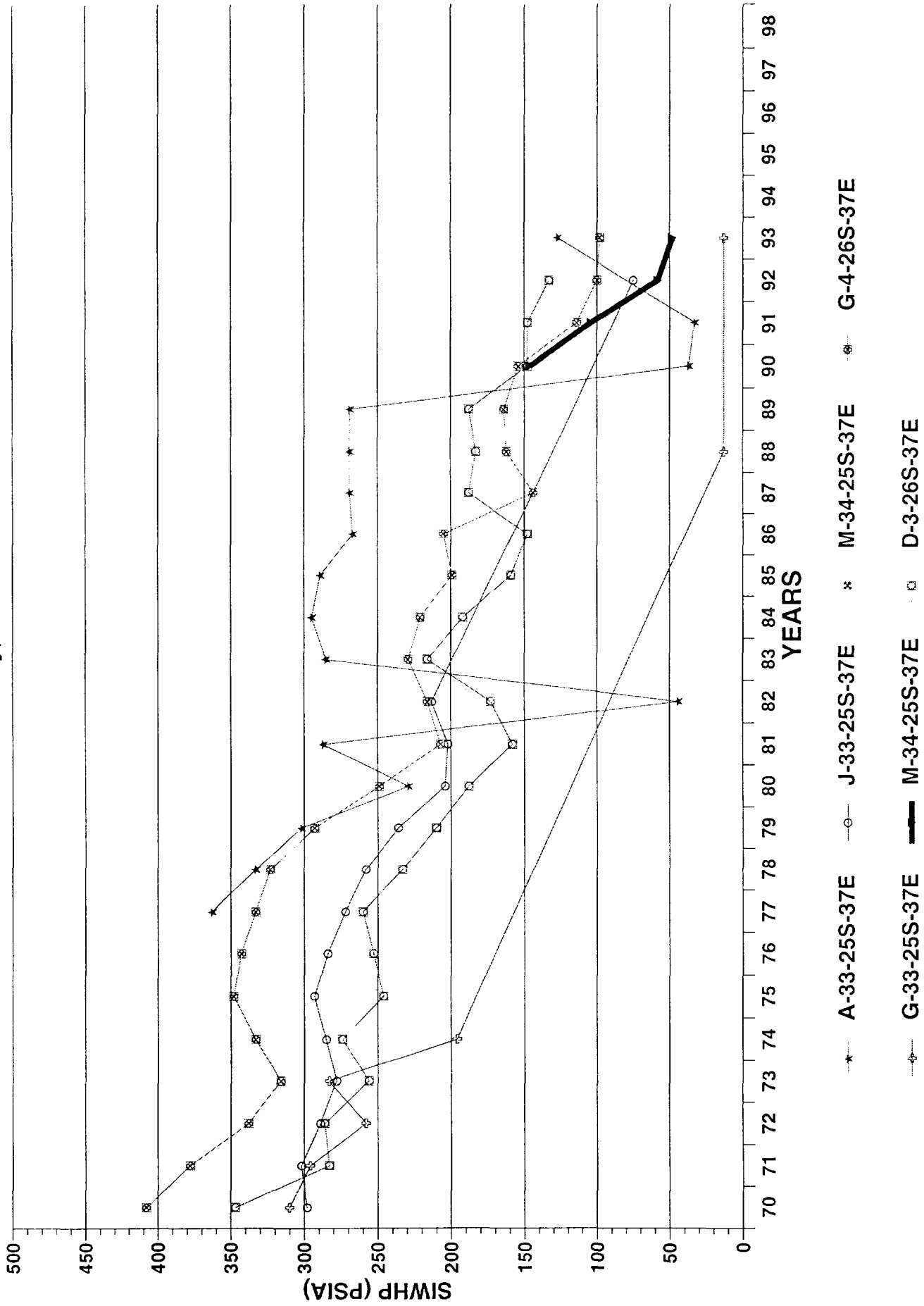
Dabbs Nos. 1 & 3  
 Jalmat Gas Pool  
 M-34-25S-37E  
 Doyle Hartman

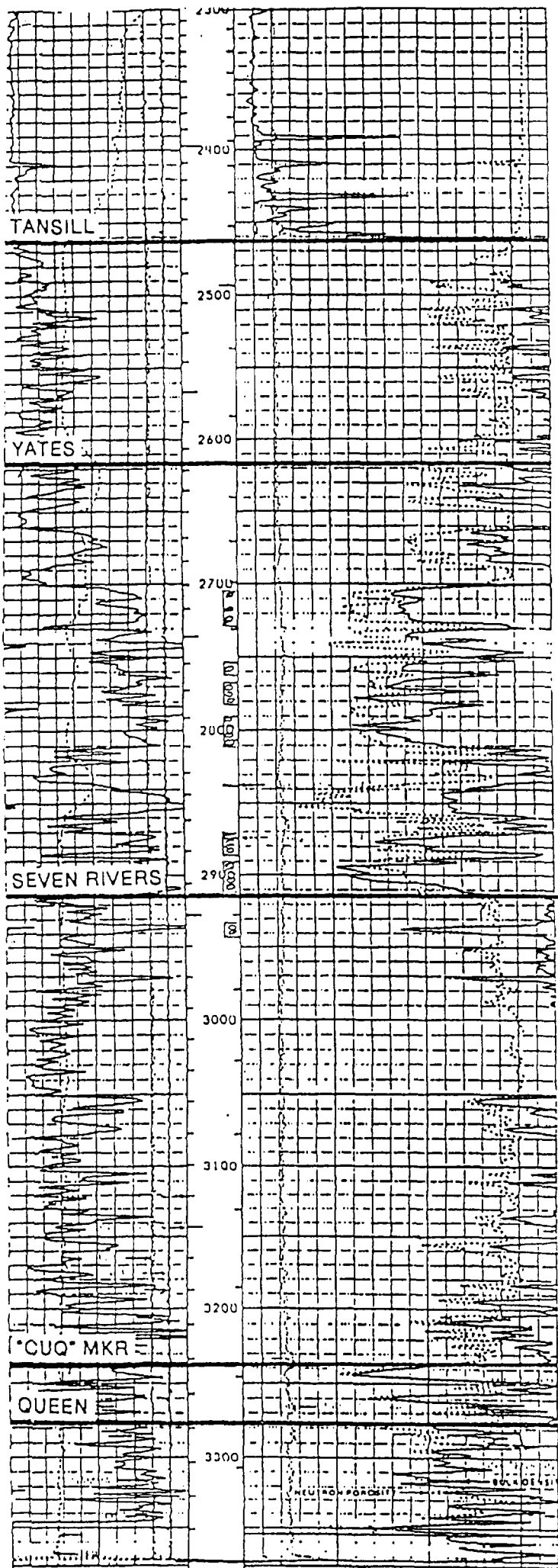


# Jalmat (Tansill-Yates-Seven-Rivers) Pool

Dabbs # 1,3

Composite Pressure - Time Plot  
Lea County, New Mexico





COMPANY Doyle Hartman

WELL Dabbs No.3

FIELD Jalmat (Gas)

LOCATION 990' FSL & 660' FWL (M)  
Sec. 34, T-25-S, R-37-E

COUNTY Lea

STATE New Mexico

ELEVATIONS: KB 3017.5  
DF \_\_\_\_\_  
GL 3001.5

COMPLETION RECORD

SPUD DATE 8-28-89 COMP. DATE 9-8-89

TD 3375 PBTD 3354

CASING RECORD:

9 5/8", @ 448 w/350 (TOC @ Circ.)

7", @ 3373 w/925 (TOC @ Circ.)

\_\_\_\_\_ (TOC @ \_\_\_\_\_)

\_\_\_\_\_ (TOC @ \_\_\_\_\_)

COMP. INTERVAL Perf 2707-2938 w/24  
(Yates-Seven Rivers)

STIMULATION A/7000

\_\_\_\_\_

POT IPF = 129 MCFPD (9-10-89)

GOR \_\_\_\_\_ GR \_\_\_\_\_

TP 42 CP SI = 185 psig

CHOKE 64/64 TUBING 2 3/8" @ 3171

REMARKS

09-08-89: SICP = 185 psig (After acid)  
Pop @ 9 x 54 x 1 1/2"

\_\_\_\_\_

09-10-89: P/129 MCFPD  
Choke = 64/64  
PCP = 42 psig

\_\_\_\_\_

09-11-89: SWF/207,000 + 504,000  
ATR = 35.6 BPM  
ATP = 1570 psi  
ISIP = 920 psi  
1-hr. SIP = 718 psi

\_\_\_\_\_

09-16-89: P/1903 MCFPD  
Choke = 72/64  
PCP = 114 psig

\_\_\_\_\_

09-29-89: SIP = 158 psig (After Frac)

\_\_\_\_\_

06-01-98: Cum. = 0.8348 BCF  
Rem. = 133.3 BCF  
Est. Ult. = 0.9681 BCF  
M = 15,000 MCF/psi

M-34-25S-37E