

INFILL DRILLING FINDINGS PURSUANT TO
SECTION 271.305(b) OF THE FEDERAL ENERGY REGULATORY
COMMISSION REGULATIONS, NATURAL GAS POLICY ACT OF 1978
AND OIL CONSERVATION DIVISION ORDER NO. R-6013-A

Operator Doyle Hartman Well Name and No. Northshore Woolworth Well No. 6
Location: Unit E Sec. 33 Twp. 24S Rng. 37E Cty. Lea

THE DIVISION FINDS:

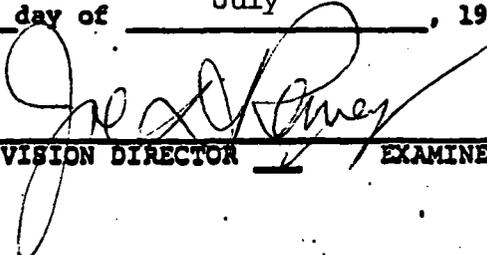
- 1) That Section 271.305(b) of the Federal Energy Regulatory Commission Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find that the infill well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit.
- 2) That by Order No. R-6013-A, dated February 8, 1980, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.
- 3) That the well for which a finding is sought is completed in the Jalmat Tansill Yates Seven (Pro Gas) Pool, and the standard spacing unit in said pool is 640 acres.
- 4) That a 160-acre proration unit comprising the NW/4 of Sec. 33, Twp. 24 S, Rng. 37E, is currently dedicated to the Northshore Woolworth Well No. 3 located in Unit E of said section.
- 5) That this proration unit is () standard (X) nonstandard; if nonstandard, said unit was previously approved by Order No. NSP-339.
- 6) That said proration unit is not being effectively and efficiently drained by the existing well(s) on the unit.
- 7) That the drilling and completion of the well for which a finding is sought should result in the production of an additional 626,100 MCF of gas from the proration unit which would not otherwise be recovered.
- 8) That all the requirements of Order No. R-6013-A have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.
- 9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved.

IT IS THEREFORE ORDERED:

1) That the applicant is hereby authorized to drill the well described in Section I above as an infill well on the existing proration unit described in Section II(4) above. The authorization for infill drilling granted by this order is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.

2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

WITNESSED at Santa Fe, New Mexico, on this 22nd day of July, 19 83.



DIVISION DIRECTOR EXAMINER

OIL CONSERVATION DIVISION
P. O. Box 2088
SANTA FE, NEW MEXICO
87501

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

INFILL DRILLING FINDINGS PURSUANT TO
SECTION 271.305(b) OF THE FEDERAL ENERGY REGULATORY
COMMISSION REGULATIONS, NATURAL GAS POLICY ACT OF 1978
AND OIL CONSERVATION DIVISION ORDER NO. R-6013-A

I.
Operator Doyle Hartman Well Name and No. Northshore Woolworth Well No. 6
Location: Unit E Sec. 33 Twp. 24S Rng. 37E Cty. Lea

II.
THE DIVISION FINDS:

- (1) That Section 271.305(b) of the Federal Energy Regulatory Commission Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find that the infill well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit.
- (2) That by Order No. R-6013-A, dated February 8, 1980, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.
- (3) That the well for which a finding is sought is completed in the Jalmat Tansill Yates Seven Rivers (Pro. Gas) Pool, and the standard spacing unit in said pool is 640 acres.
- (4) That a 160 -acre proration unit comprising the nw/4 of Sec. 33, Twp. 24S, Rng. 37E, is currently dedicated to the Northshore Woolworth Well No. 3 located in Unit E of said section.
- (5) That this proration unit is () standard (X) nonstandard; if nonstandard, said unit was previously approved by Order No. NSP-339.
- (6) That said proration unit is not being effectively and efficiently drained by the existing well(s) on the unit.
- (7) That the drilling and completion of the well for which a finding is sought should result in the production of an additional 626,100 MCF of gas from the proration unit which would not otherwise be recovered.
- (8) That all the requirements of Order No. R-6013-A have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.
- (9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved.

IT IS THEREFORE ORDERED:

- (1) That the applicant is hereby authorized to drill the well described in Section I above as an infill well on the existing proration unit described in Section II(4) above. The authorization for infill drilling granted by this order is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.
 - (2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.
- DONE at Santa Fe, New Mexico, on this 22nd day of July, 19 83.

DIVISION DIRECTOR _____ EXAMINER _____

DOYLE HARTMAN

Oil Operator

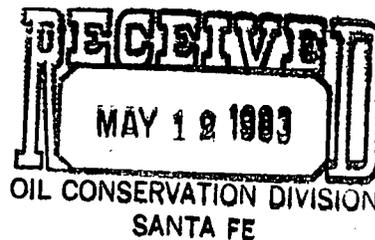
500 N. MAIN

P. O. BOX 10426

MIDLAND, TEXAS 79702

(915) 684-4011

May 10, 1983



State of New Mexico
Energy and Minerals Department
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Mike Stogner

Re: Administrative Procedure
Infill Finding
Northshore Woolworth No. 6
1720 FNL & 310 FWL (E)
Section 33, T-24-S, R-37-E
Lea County, New Mexico

Gentlemen:

Pursuant to Section 271.305 of the Final Rules and Regulations of the Federal Energy Regulatory Commission relating to Section 103 of the Natural Gas Policy Act of 1978, and to Order R-7247 of the New Mexico Oil Conservation Division, we hereby request an infill finding (NFL) for the above captioned Northshore Woolworth No. 6 located 1720 FNL & 310 FWL (E) Section 33, T-24-S, R-37-E, Lea County, New Mexico.

With regard to our request, and in accordance with Order R-7247, we submit the following:

Rule 5 A copy of approved Form C-101 for the infill well and Form C-102 showing the proration unit dedicated to the well are enclosed.

Rule 6 The name of the pool in which the infill well has been drilled is Jalmat (Gas) Pool, and the standard spacing unit therefor is 640 acres.

Rule 7 The number of the Administrative Order approving the directional drilling, unorthodox location and non-standard proration unit dedicated to the well is R-7247.

Rule 8 Table 1 attached to William P. Aycock's letter dated May 9, 1983 shows the following:

- a. Lease name and well location;
- b. Spud date;
- c. completion date;

- d. a description of any mechanical problems experienced along with a summary of remedial action(s) taken and the results obtained;
- e. the current rate of production;
- f. date of plug and abandonment, if any, and;
- g. a clear and concise statement indicating why the existing well(s) on the proration unit cannot effectively and efficiently drain the portion of the reservoir covered by the proration.

Rule 9

Letter dated May 9, 1983 from William P. Aycock submits geological and engineering information sufficient to support a finding as to the necessity for an infill well including:

- a. formation structure map;
- b. the volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined;
- c. any other supporting data which the applicant deems to be relevant which may include:
 1. porosity and permeability factors
 2. Production/pressure decline curve
 3. effects of secondary recovery or pressure maintenance operations
 4. C-104 and C-105 (including Inclination Report)
 5. Scout Ticket and Well Log Summary for Doyle Hartman's Northshore Woolworth No. 6 (Infill Jalmat (Gas) Well)
 6. Production Histories and Plots, Scout Tickets and Well Log Summaries for Doyle Hartman's Northshore Woolworth No. 3 and No. 5 wells

Rule 10

This application for infill finding is being filed in duplicate with the Santa Fe office of the Oil Conservation Division.

Rule 11

All operators of proration or spacing units offsetting the unit for which this infill finding is sought have been notified of this application by certified or registered mail.

New Mexico Oil Conservation Division
May 10, 1983
Page 3

We respectfully request that the Commission grant our request for an
infill finding pursuant to Order R-6013-A.

Very truly yours,

DOYLE HARIMAN

Michelle Hembree

Michelle Hembree
Administrative Assistant

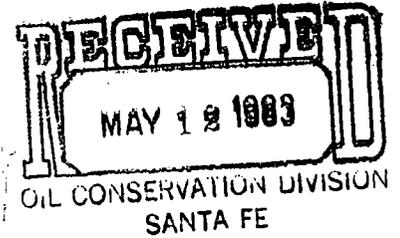
/mh

Enclosures as above

WILLIAM P. AYCOCK & ASSOCIATES, INC.

Petroleum Engineering Consultants
308 WALL TOWERS WEST
MIDLAND, TEXAS 79701
PHONE 915/683-5721

May 9, 1982



New Mexico Department of Energy and Minerals,
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Mike Stogner

Subject: Administrative Application for Infill Well Findings
for Doyle Hartman's Northshore Woolworth No. 6,
Section 33, Township 24 South, Range 37 East,
Surface Location, 1720' FNL and 310' FWL,
Jalmat (Gas) Pool, Lea County, New Mexico

Gentlemen:

Application is hereby made for an administrative infill well finding effective with initial gas deliveries for the described well in accordance with Exhibit "A", Order R-6013-A. The following constitute the requirements of the said Order:

- Rule 5: Attached are copies of the Forms C-101 and C-102.
- Rule 6: The name of the pool in which the infill well has been drilled is the Jalmat Pool, and the standard spacing therefor is 640 acres.
- Rule 7: The non-standard proration unit, unorthodox well location, simultaneous dedication and deviation permit were approved by Order No. R-7247, a copy of which is attached hereto.
- Rule 8: See attached Table No. 1, "Summary of Required Information, Rule 8, Exhibit "A", Order No. R-6013-A" for requirements of Sections "a." through "f.". Also required by Section "g." is "a clear and concise statement indicating why the existing well(s) on the proration unit cannot effectively and efficiently drain the portion of the reservoir covered by the

proration unit." The Jalmat (Gas) Pool wells to which the present 160-acre non-standard proration unit was assigned were the Doyle Hartman (originally Husky Oil Co. of Delaware) Northshore Woolworth No. 3 (2,310' FNL & 330' FWL) and the Doyle Hartman (also originally Husky Oil Co. of Delaware) Northshore Woolworth No. 5 (730' FNL and 1980' FWL); these wells had produced 7,503.3 MMCF as follows:

Operator Well Name and No.	Cumulative Gas Recovery, MMCF at 5-1-83	Estimated Future Gas Recovery, MMCF at 5-1-83
Doyle Hartman		
Northshore Woolworth 3	7,485.3	None
Northshore Woolworth 5	18.0	102.5
TOTAL	<u>7,503.3</u>	<u>102.5</u>

The estimated ultimate gas recovery as noted for the Doyle Hartman Northshore Woolworth No. 5 is 120.5 MMCF as of May 1, 1983, resulting in an estimated future gas recovery for this pre-existing well of 102.5 MMCF. The estimated future life is about twenty years. The Northshore Woolworth No. 3 has not been included in these estimates, as, by virtue of Order R-7247, the Northshore Woolworth 3 "will be shut-in upon successful completion of the Northshore Woolworth 6. Accordingly, any producible gas reserves that remain beneath the subject lease in excess of 120.5 MMCF would have been substantially not recoverable from the subject property without the drilling of the infill application well.

Rule 9:

- Section a. Requires that a formation structure map be submitted; attached is a Yates formation structure map of the immediate area containing the subject lease.
- Section b. Requires that the "volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined " be submitted. The estimated ultimate gas recovery for the Doyle Hartman Northshore Woolworth No. 6 is 626.1 MMCF. Since the gas to be recovered from the

Doyle Hartman Northshore Woolworth No. 5 is estimated to be 102.5 MMCF, the increased ultimated recovery is 523.6 MMCF. The estimate of increased recovery for the Doyle Hartman Northshore Woolworth No. 6 was accomplished as follows:

(1) Well logs for the Doyle Hartman Northshore Woolworth No. 6 were analyzed, resulting in the following:

Mean Porosity, Fraction of Bulk Volume	0.21
Mean Connate Water Saturation, Fraction of Net Effective Pore Volume	0.19
Net Effective Pay Thickness, Feet	82.

Since the gross pay thickness constituting potential gas reservoir for the Northshore Woolworth No. 6 is 95 feet, the above represents a net effective pay thickness to gross pay thickness ratio of 86 percent.

(2) The production test for the Doyle Hartman Northshore Woolworth No. 6 performed on May 2, 1983, was analyzed, resulting in the following:

Stabilized Deliverability Coefficient, MCF/day per psia ² ,	0.072806
Initial Stabilized Wellhead Shut-in Pressure (Pc), psia	133.2
Initial Gas Formation Volume Factor scf/rcf	8.12

(3) The results of steps (1) and (2) were then combined, resulting in the following:

Original Gas-in-Place

MMCF/Acre	4.91
MMCF/160 Acres	785.5

New Mexico Department of Energy and Minerals,
Oil Conservation Division
May 9, 1983
Page 4

Estimated Gas Recovery Factor,
Fraction of Original Gas-in-Place 0.797

Estimated Ultimate Recovery,
MMCF per 160 Acres 626.1

Section c. Other supporting data submitted include the following:

Well Log/Completion Summary for the pre-existing Doyle
Hartman Northshore Woolworth No. 5.

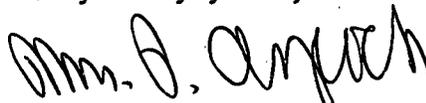
Gas Production History Tabulation and Graph for Doyle Hartman
Northshore Woolworth No. 5 (the pre-existing well).

Complete New Mexico Oil Conservation Division (NMOCD) Forms
on file for both the pre-existing Doyle Hartman Northshore
Woolworth No. 5 and the Infill Hartman Northshore Woolworth
No. 6.

New Mexico Oil Conservation Division Order No. R-7247

We believe that the above adequately documents this request and has been
prepared in accordance with Exhibit "A", Order R-6013-A; however, we should
be pleased to supply anything else which you might require in this
connection.

Very truly yours,


Wm. P. Aycock, P.E.

WPA/pkm

Enclosures

TABLE NO. 1

SUMMARY OF REQUIRED INFORMATION, RULE 8, EXHIBIT "A", ORDER R-6013-A,
 (Sections "a." through "f.")
 NATURAL GAS POLICY ACT INFILL FINDINGS, ADMINISTRATIVE PROCEDURE

<u>SECTION OF RULE 8</u>	<u>RULE 8 REQUIREMENT</u>	<u>PRE-EXISTING WELL DOYLE HARTMAN, OPERATOR*</u>	<u>INFILL APPLICATION WELL DOYLE HARTMAN, OPERATOR</u>
a.	Lease Name and Well Location	Northshore Woolworth No. 5 Section 33, T-24-S, R-37-E 730' FNL and 1980' FWL	Northshore Woolworth No. 6 Section 33, T-24-S, R-37-E 1720' FNL and 310' FWL
b.	Spud Date	March 7, 1980	April 7, 1983
c.	Completion Date	June 12, 1980	April 21, 1983
d.	Mechanical Problems	None.	None.
e.	Current Rate of Production	50 MCF/day	C-105: 112 MCF/day
f.	Date of Plug and Abandonment	Not plugged.	Not plugged.

*Originally operated by Husky Oil Company of Delaware.

30-025-28099^{REC}

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5A. Indicate Type of Lease
 STATE FEDERAL
 State Oil & Gas Lease No.

RECEIVED
 MAY 12 1983
 PLUG BACK

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
 DRILL DEEPEN
 b. Type of Well
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE
 2. Name of Operator: Doyle Hartman
 3. Address of Operator: P. O. Box 10426 Midland, Texas 79702
 4. Location of Well
 UNIT LETTER E LOCATED 1720 FEET FROM THE North LINE
 AND 310 FEET FROM THE West LINE OF SEC. 33 TWP. 24S RGE. 37E NMPM
 5. Indicate Type of Lease: STATE FEDERAL
 6. Farm or Lease Name: Northshore Woolworth
 7. Well No.: 6
 8. Field and Pool, or Wildcat: Jalmat (Gas)
 9. County: Lea
 10. Proposed Depth: 3350'
 11. Formation: Yates-Seven Rivers
 12. Rotary or C.T.: Rotary
 13. Elevations (Show whether DT, KT, etc.): 3162.0
 14. Kind & Status Plug. Bond: Multi-well Approved
 15. Drilling Contractor: Not Selected
 16. Approx. Date Work will start: January 1983

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	9 5/8"	36.0	400	300	Surface
8 3/4"	7"	23.0	3350	700	Surface

This proposed well will be drilled to a total depth of 3350 feet and will be completed as a Jalmat (Yates-Seven Rivers) gas producer. From the base of the surface pipe through the running of the production casing, the well will be equipped with a 3000 psi double ram BOP system.

Note: Any gas produced from the proposed well has previously been dedicated to El Paso Natural Gas Company.

APPROVAL VALID FOR 180 DAYS
 PERMIT EXPIRES 10/6/83
 UNLESS DRILLING UNDERWAY

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

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

Signed Larry C. Nimmey Title Engineer Date 12/14/82

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

MAR 6 1983

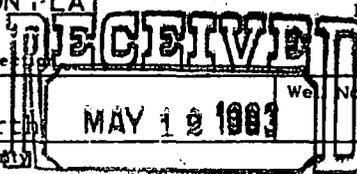
APPROVED BY DISTRICT 1 SUPERVISOR TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

N MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section



Operator Doyle Hartman, Oil Operator		Lease North Shore Woolworth		Well No. 6
Unit Letter E	Section 33	Township 24 South	Range 37 East	County OIL CONSERVATION DIVISION

Actual Footage Location of Well:
1720 feet from the **North** line and **310** feet from the **West** line
 SANTA FE

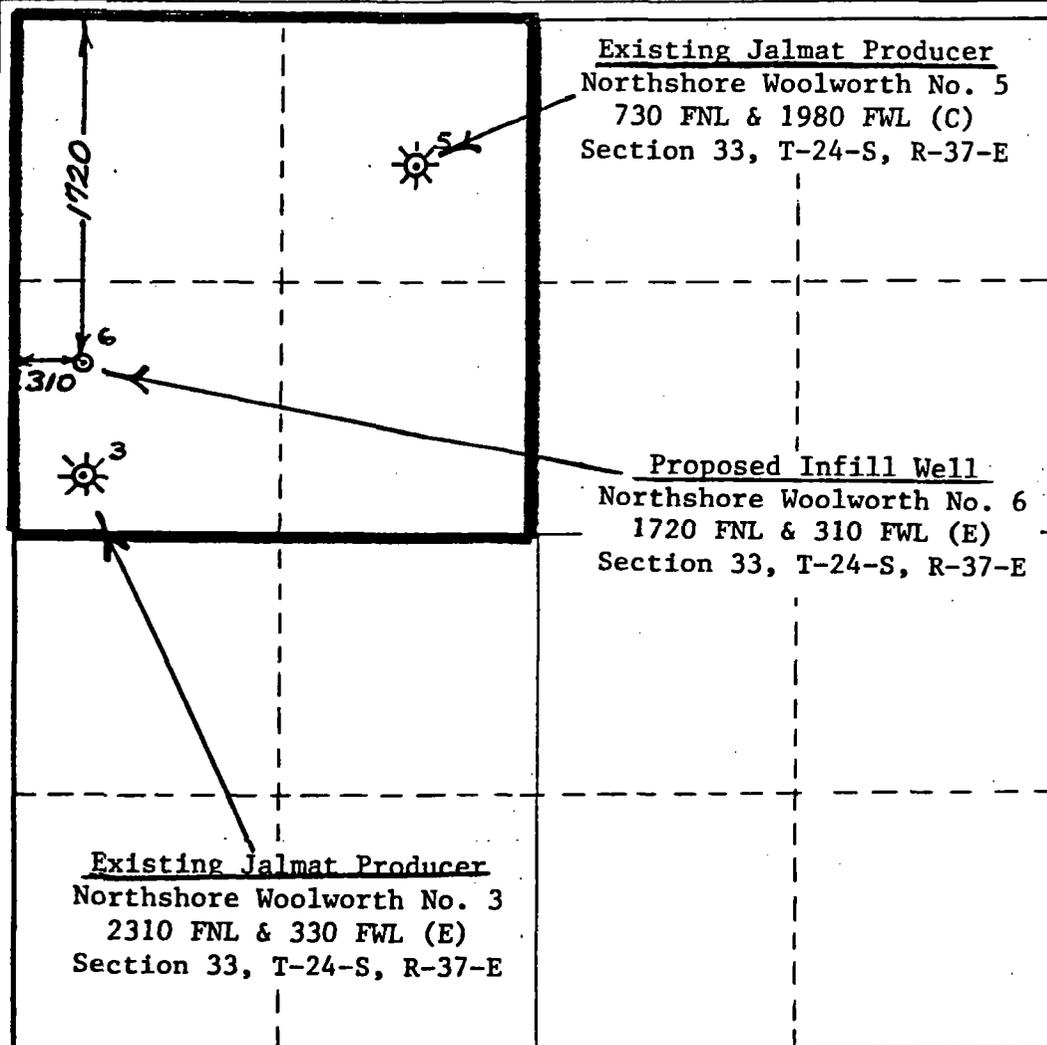
Ground Level Elev. 3162.0	Producing Formation Yates-Seven Rivers	Pool Jalmat (Gas)	Dedicated Acreage: 160 Acres
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1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is 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



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION COMMISSION

FEEC

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 7786
Order No. R-7247

APPLICATION OF DOYLE HARTMAN FOR
DIRECTIONAL DRILLING, SIMULTANEOUS
DEDICATION, NON-STANDARD PRORATION UNIT,
UNORTHODOX LOCATION, AND INFILL DRILLING,
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9:00 a.m. on February 23, 1983, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 31st day of March, 1983, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Doyle Hartman, seeks approval for directional drilling, simultaneous dedication, non-standard proration unit, unorthodox location, and infill drilling for its Northshore Woolworth Well No. 6 to be located no less than 1550 feet and no more than 1750 feet from the North line and no less than 230 feet and no more than 430 feet from the West line of Section 33, Township 24 South, Range 37 East, NMPM, to be directionally drilled to a bottom hole location 1980 feet from the North and 660 feet from the West line of said Section 33, Jalmat Pool, Lea County, New Mexico.
- (3) That the applicant further seeks to infill drill and to simultaneously dedicate to a non-standard gas proration unit comprising the NW/4 of said Section 33, the above described well and its Northshore Woolworth Well No. 5 located in Unit C of said Section 33.

(4) That the Northshore Woolworth Well No. 3, a third well on the proration unit, located in Unit E of said Section 33, will be shut-in upon successful completion of said Well No. 6.

(5) That the unorthodox location is necessitated by the existence of a gasoline plant in the SW/4 NW/4 of said Section 33.

(6) That the applicant proposes to directionally drill the above well to a bottom hole location within 100 feet of a point 1980 feet from the North line and 660 feet from the West line.

(7) That offset operators did appear and opposed any bottom hole location closer than 660 feet to the South and West lines of the NW/4 of said Section 33.

(8) That the bottom hole location of said Northshore Woolworth Well No. 6 should be no closer than 660 feet to the South and West lines of the NW/4 of said Section 33.

IT IS THEREFORE ORDERED:

(1) That Doyle Hartman is hereby authorized to drill its Northshore Woolworth Well No. 6 at an unorthodox location to be located no less than 1550 feet and no more than 1750 feet from the North line and no less than 230 feet and no more than 430 feet from the West line of Section 33, Township 24 South, Range 37 East, NMPM, Jalmat Pool, Lea County, New Mexico.

(2) That the NW/4 of said Section 33 shall be simultaneously dedicated to the above-described well and to applicant's Northshore Woolworth Well No. 5 located in Unit C of said Section 33.

(3) That said Northshore Woolworth Well No. 6 shall be directionally drilled to a bottom hole location no closer than 660 feet nor further than 990 feet from the South and West lines of the NW/4 of said Section 33.

(4) That the Northshore Woolworth Well No. 3, located in Unit E of said Section 33, shall be shut-in upon successful completion of said Well No. 6.

(5) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

-3-
Case No. 7786
Order No. R-7247

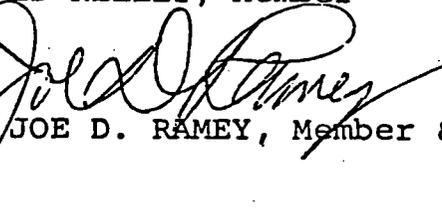
DONE at Santa Fe, New Mexico, on the day and year
hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

JIM BACA, Member

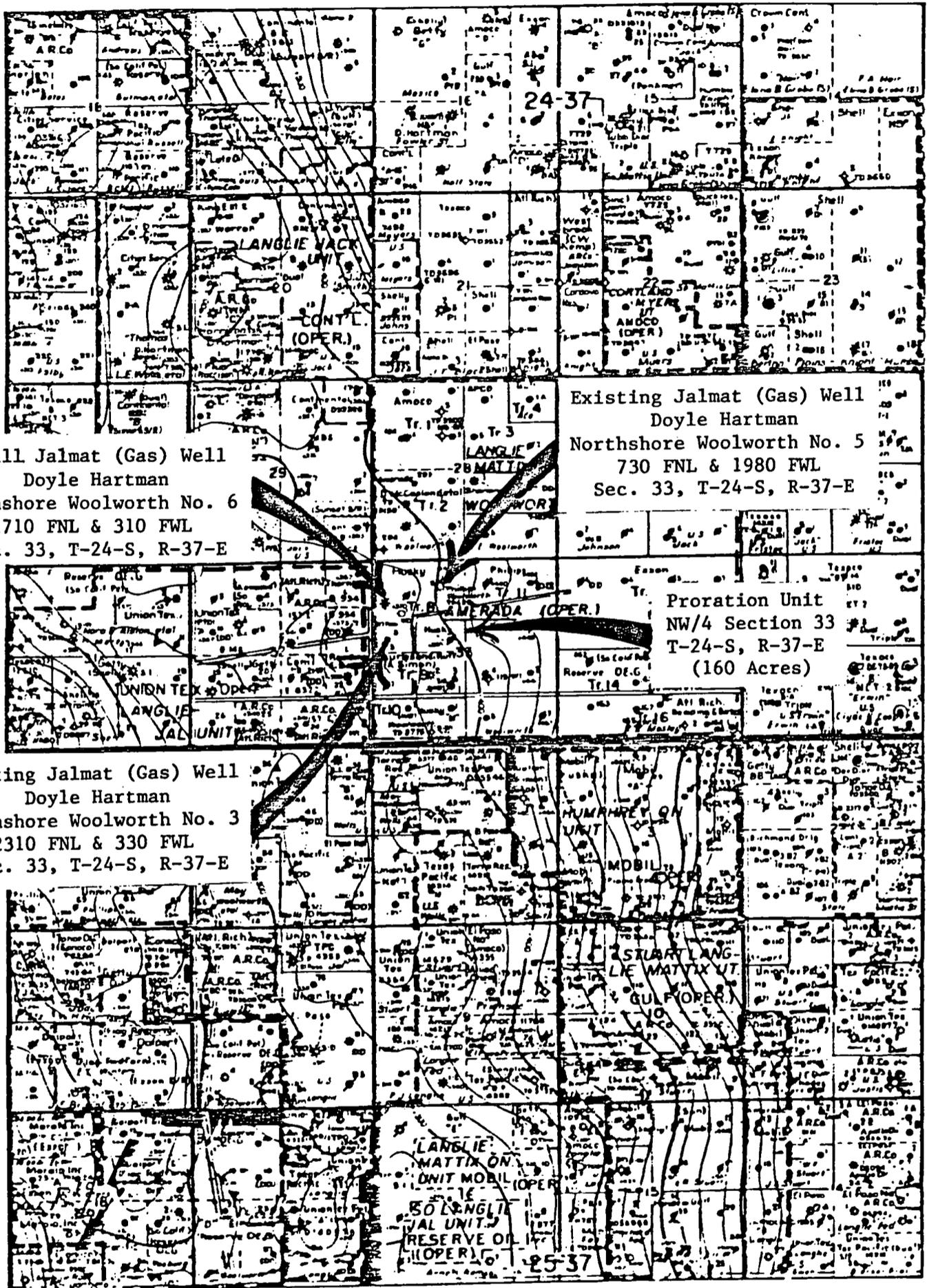


ED KELLEY, Member



JOE D. RAMEY, Member & Secretary

S E A L



STRUCTURE MAP
 T/Yates
 T-24-S & T-25-S
 R-37-E
 Jalmat (Gas) Pool
 Lea County, New Mexico
 Scale 1"=4000' April, 1983
 D. Hartman



COMPANY Doyle Hartman

WELL Northshore Woolworth No. 6

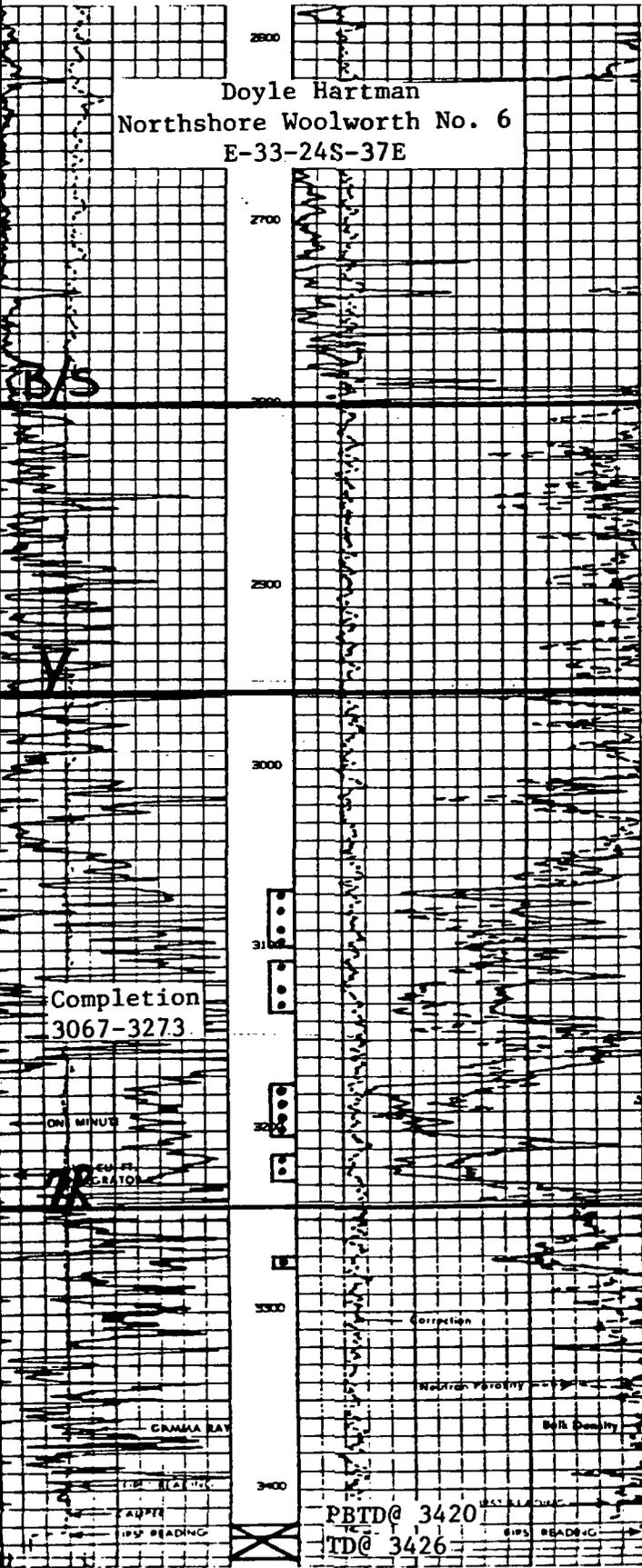
FIELD Jalmat (Gas)

LOCATION 1710 FNL & 310 FWL (E)
Section 33, T-24-S, R-37-E
(24-37-33-E)

COUNTY Lea

STATE New Mexico

ELEVATIONS: KB 3273
 DF 3272
 GL 3262



COMPLETION RECORD

SPUD DATE 4-7-83 COMP. DATE 4-21-83

TD 3426 * (3366) PBD 3420 * (3361)

CASING RECORD 9 5/8 @ 467 w/250
7 @ 3426 w/700

PERFORATING RECORD Perf: 3067-3273 w/21.
* (3009-3220)

STIMULATION A/5500

IP IPF= 112 MCFPD + 1 BWPD

GOR GR

TP 45 CP83

CHOKE 18/64 TUBING @

REMARKS *(True Vertical Depth)

FERC

Form O-105
Revised 10-78

NO. COPIES RECEIVED	
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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No. _____

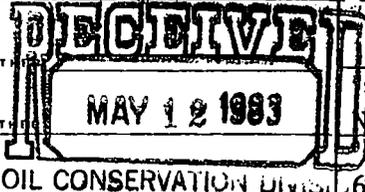
6. Unit Agreement Date _____

7. Term or Lease Time _____

8. Leasehold Interest
Northshore Woolworth
Well No. _____

1a. TYPE OF WELL
OIL WELL GAS WELL DRY

b. TYPE OF COMPLETION
NEW WELL WORK OVER DEEPEN PLUG BACK DIFF. RESVR.



2. Name of Operator
Doyle Hartman

3. Address of Operator
SANTA FE

4. Location of Well
Bottom Hole Location = Unit E, 1967 FNL & 711 FWL

UNIT LETTER **E** LOCATED **1720** FEET FROM THE **North** LINE AND **310** FEET FROM _____

THE **West** LINE OF SEC. **33** TWP. **24S** RGE. **37E** NMPM _____

15. Date Spudded **4-7-83** 16. Date T.D. Reached **4-18-83** 17. Date Compl. (Ready to Prod.) **4-21-83** 18. Elevations (DF, RKB, RT, GR, etc.) **3262 GL** 19. Elev. Casinghead **3262**

20. Total Depth **3426 (3366)** 21. Plug Back T.D. **3420 (3361)** 22. If Multiple Compl., How Many _____ 23. Intervals Drilled By Rotary Tools **0-3426** Cable Tools _____

24. Producing Interval(s), of this completion - Top, Bottom, Name
3067-3273 (3009-3220) W/21 Yates-Seven Rivers
Note: (True Vertical Depth)

25. Was Directional Survey Made
Yes

26. Type Electric and Other Logs Run
CDL-DSN-GR and Guard Forxo

27. Was Well Cored
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8	36.0	467	12 1/4	250 (Circ)	None
7	26.0	3426	8 3/4	700 (Circ)	None

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
21 Holes with one shot each at:				

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8	3397 (3338)	

31. Perforation Record (Interval, size and number) **3067 (3009)**

3070 (3012), 3079 (3021), 3091 (3033), 3099 (3041), 3108 (3050), 3123 (3065), 3133 (3075), 3173 (3115), 3178 (3120), 3183 (3125), 3187 (3129), 3193 (3135), 3198 (3140), 3202 (3144), 3213 (3155), 3217 (3159), 3222 (3164), 3227 (3169), 3270 (3212), 3273 (3215).

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
3067-3273 (3009-3220)	A/5500 15% MCA

33. PRODUCTION

Date First Production **4-21-83** Production Method (*Flowing, gas lift, pumping - Size and type pump?*) **Flowing** Well Status (*Prod. or Shut-in*) **Shut-in**

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
4-22-83	24	18/64	→	-----	112	1	-----

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)
45 psi	83 psi	→	-----	112	1	-----

34. Disposition of Gas: (*Sold, used for fuel, vented, etc.*) **Vented** Test Witnessed By **Harold Swain**

35. List of Attachments
None

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Larry G. [Signature] TITLE Engineer DATE April 22, 1983

This form is to be filed with the appropriate District Office of the Commission not later than 30 days after the completion of any newly-drilled or deepened well. It shall be accompanied by a copy of all electrical and radioactivity logs in the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of conventionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy <u>1210 (1190)</u>	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt <u>1304 (1279)</u>	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt <u>2800 (2741)</u>	T. Atoka _____	T. Fictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>2958 (2899)</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers <u>3243 (3183)</u>	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from <u>3067 (3009)</u> to <u>3273 (3215)</u>	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet	_____
No. 2, from _____ to _____ feet	_____
No. 3, from _____ to _____ feet	_____
No. 4, from _____ to _____ feet	_____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1210 (1190)	1304 (1279)	89	Anhydrite				
1304 (1279)	2800 (2741)	1462	Salt and Anhydrite				
2800 (2741)	2958 (2899)	158	Dolomite and Anhydrite				
2958 (2899)	3243 (3183)	248	Dolomite and Sandstone				
3243 (3183)	3426 (3366)	183	Dolomite and Sandstone				



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

Doyle Hartman
COMPANY

Northshore Woolworth Well No. 6
WELL NAME

Lea County, New Mexico
LOCATION

JOB NUMBER
WT0483-G0189
WT0483-S0200

TYPE OF SURVEY
Gyroscopic Multi Shot
Magnetic Multi Shot

DATE
4/8/83
4/10/83

SURVEY BY
Gary DeSpain, Doug Jeffers

OFFICE
West Texas

DOYLE HARTMAN
NORTH SHORE WOOLWORTH WELL NO. 6
LEA COUNTY, NEW MEXICO
4/8/83

BD1-271

EASTMAN WHIPSTOCK INC.
GYROSCOPIC MULTI SHOT SURVEY
SURVEYOR: GARY DESPAIN
MAGNETIC MULTI SHOT SURVEY
SURVEYOR: DOUG JEFFERS

WT0483-G0189
(0'-400')
WT0483-S0200
(400'-3420')

VERTICAL SECTION CALCULATED IN PLANE OF PROPOSAL
DIRECTION: S 54 DEG 1 MIN. E

Eastman

Whipstock

A PETROLANE COMPANY

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET	DOGLEG SEVERITY DG/100FT
0.	0 0	0	0.	0.00	0.00	0.00	0.00
50.	0 30	N 29 E	50.	50.00	-0.03	0.19 N 0.11 E	1.00
100.	0 30	N 62 W	50.	100.00	-0.34	0.57 N 0.01 W	1.43
150.	0 30	N 20 W	50.	150.00	-0.75	0.89 N 0.29 W	0.72
200.	0 30	N 47 W	50.	199.99	-1.16	1.25 N 0.52 W	0.47
250.	0 45	N 61 W	50.	249.99	-1.70	1.57 N 0.96 W	0.58
300.	0 45	N 52 W	50.	299.99	-2.35	1.93 N 1.51 W	0.24
350.	0 45	N 48 W	50.	349.98	-3.01	2.35 N 2.01 W	0.10
400.	0 45	N 44 W	50.	399.98	-3.66	2.80 N 2.48 W	0.10
454.	0 15	N 50 W	54.	453.98	-4.12	3.13 N 2.83 W	0.93
517.	2 0	S 35 E	63.	516.95	-4.29	2.55 N 3.45 W	3.56
581.	5 0	S 25 E	64.	580.83	-0.71	0.83 S 1.50 W	4.77
644.	8 0	S 30 E	63.	643.42	5.65	7.15 S 1.79 E	4.84
707.	10 0	S 47 E	63.	705.64	15.11	14.84 S 7.90 E	5.25
770.	12 30	S 50 E	63.	767.43	27.34	22.98 S 17.10 E	4.07
833.	13 0	S 63 E	63.	828.87	41.20	30.64 S 28.67 E	4.61
896.	13 45	S 69 E	63.	890.17	55.45	36.56 S 41.98 E	2.50
959.	15 30	S 72 E	63.	951.12	70.70	41.87 S 56.97 E	3.03
1022.	15 45	S 71 E	63.	1011.79	86.89	47.25 S 73.06 E	0.58
1085.	15 45	S 72 E	63.	1072.43	103.20	52.68 S 89.28 E	0.43
1148.	15 30	S 71 E	63.	1133.10	119.38	58.06 S 105.37 E	0.58
1212.	16 0	S 70 E	64.	1194.70	136.04	63.86 S 121.75 E	0.89
1275.	15 45	S 71 E	63.	1255.29	152.56	69.61 S 137.99 E	0.59
1338.	16 0	S 72 E	63.	1315.89	169.00	75.08 S 154.34 E	0.59
1401.	16 15	S 73 E	63.	1376.41	185.60	80.34 S 171.02 E	0.59
1464.	15 45	S 72 E	63.	1436.97	202.07	85.57 S 187.58 E	0.91
1527.	15 15	S 71 E	63.	1497.68	218.12	90.91 S 203.55 E	0.90
1590.	16 15	S 59 E	63.	1558.31	234.88	98.12 S 219.02 E	5.40
1653.	17 45	S 58 E	63.	1618.56	253.24	107.75 S 234.73 E	2.43
1716.	17 0	S 59 E	63.	1678.68	272.00	117.58 S 250.77 E	1.28

Eastman
 Whistock
 METROLANE COMPANY

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	R E C T A N G U L A R C O O R D I N A T E S FEET		DOGLEG SEVERITY DG/100FT
1779.	15 45	S 59 E	63.	1739.13	289.69	126.72 S	265.99 E	1.98
1843.	15 15	S 59 E	64.	1800.80	306.73	135.53 S	280.65 E	0.78
1906.	14 15	S 59 E	63.	1861.72	322.71	143.79 S	294.40 E	1.59
1969.	13 30	S 58 E	63.	1922.88	337.77	151.69 S	307.28 E	1.25
2032.	12 45	S 57 E	63.	1984.24	352.05	159.37 S	319.35 E	1.24
2095.	12 15	S 55 E	63.	2045.75	365.68	167.00 S	330.65 E	1.05
2158.	11 45	S 58 E	63.	2107.37	378.76	174.23 S	341.57 E	1.27
2221.	11 0	S 61 E	63.	2169.13	391.13	180.53 S	352.28 E	1.52
2284.	10 45	S 62 E	63.	2231.00	402.91	186.20 S	362.72 E	0.50
2347.	10 15	S 64 E	63.	2292.94	414.25	191.41 S	372.95 E	0.98
2410.	9 0	S 65 E	63.	2355.06	424.61	195.95 S	382.46 E	2.00
2474.	8 45	S 68 E	64.	2418.29	434.25	199.89 S	391.51 E	0.82
2537.	8 0	S 67 E	63.	2480.62	443.17	203.40 S	399.99 E	1.21
2600.	6 45	S 64 E	63.	2543.09	451.10	206.75 S	407.35 E	2.08
2663.	5 30	S 50 E	63.	2605.73	457.79	210.40 S	412.97 E	3.08
2726.	4 15	S 30 E	63.	2668.50	462.96	214.48 S	416.39 E	3.32
2789.	4 15	S 6 E	63.	2731.33	466.71	218.89 S	417.83 E	2.80
2852.	4 15	S 20 W	63.	2794.16	468.95	223.49 S	417.26 E	3.03
2915.	4 0	S 34 W	63.	2856.99	469.66	227.51 S	415.21 E	1.64
2978.	3 45	S 33 W	63.	2919.85	469.84	231.06 S	412.86 E	0.41
3041.	3 0	S 35 W	63.	2982.74	469.97	234.14 S	410.79 E	1.20
3105.	2 45	S 35 W	64.	3046.66	470.03	236.77 S	408.94 E	0.39
3168.	3 0	S 37 W	63.	3109.58	470.02	239.32 S	407.09 E	0.43
3231.	2 45	S 31 W	63.	3172.50	470.13	241.94 S	405.32 E	0.62
3294.	2 0	S 36 W	63.	3235.45	470.25	244.12 S	403.88 E	1.23
3357.	1 45	S 47 W	63.	3298.41	470.05	245.66 S	402.52 E	0.69
3420.	1 45	S 45 W	63.	3361.38	469.71	247.00 S	401.13 E	0.10

*Eastman
 Wastock*

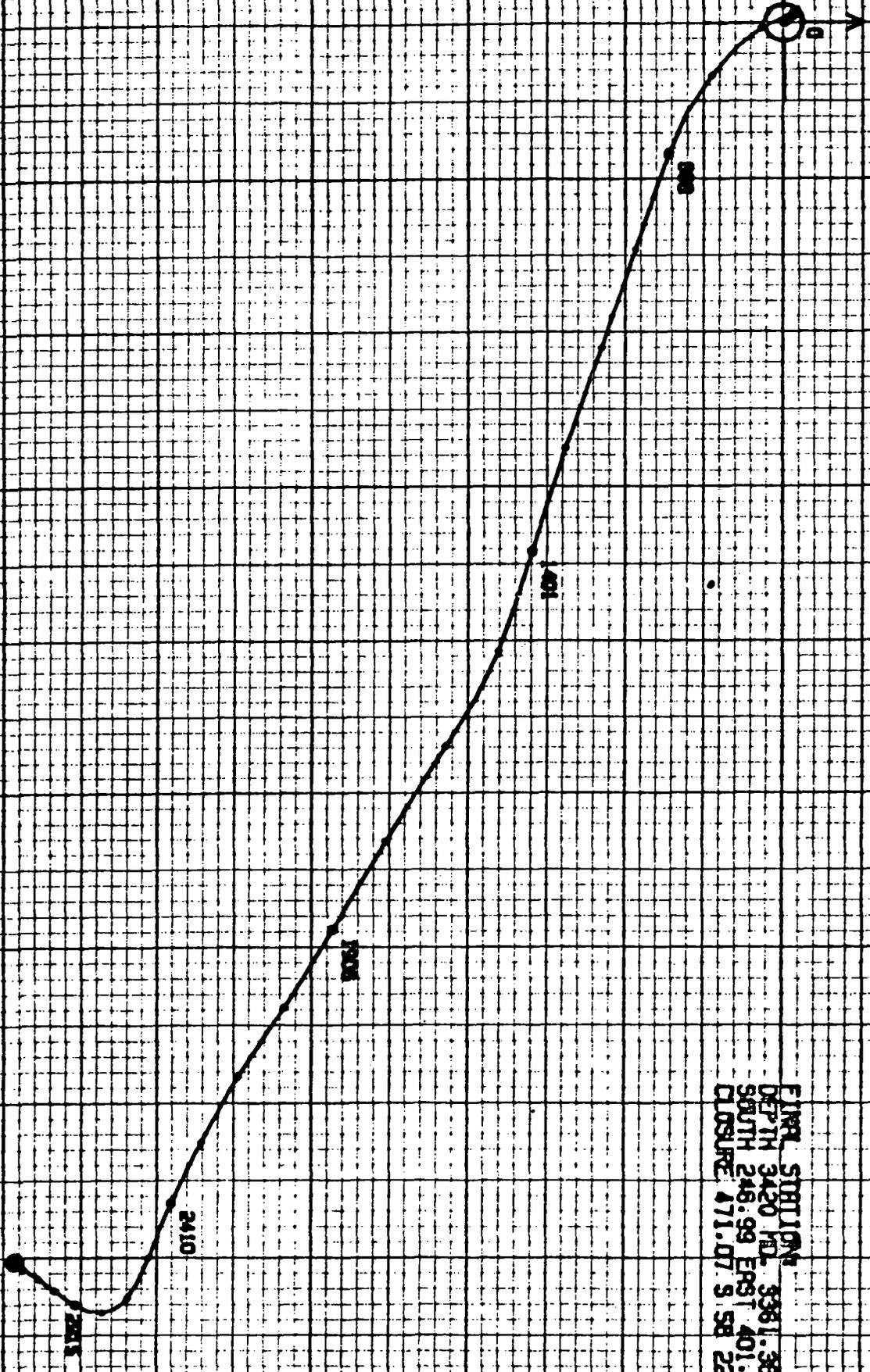
FINAL CLOSURE - DIRECTION: S 58 DEGS 23 MINS E
 DISTANCE: 471.08 FEET

DOYLE PATRICK
NORTH STATE LOG NORTH WELL NO. 6
LER COUNTY, NEW MEXICO 801-271

EASTERN INSTRUMENT, INC.

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

FINAL STATION:
DEPTH 3420 MD. 3381.38 TVD
SOUTH 248.99 EAST 401.19
CLOSURE 471.07 S. 58 22.39 E





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

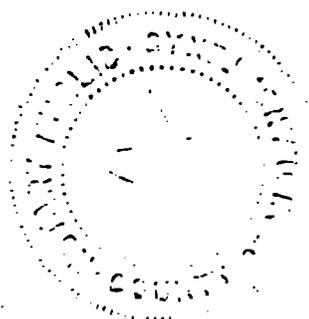
The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.

Troy Dwyer

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

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





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

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, Doug Jeffers, in the employ of Eastman Whipstock, Inc., did on the days of April 18, 1983 thru April 18, 1983 conduct or supervise the taking of a Magnetic Multi Shot survey by the method of magnetic orientation from a depth of 400 feet to 3420 feet, with recordings of inclination and direction being obtained at approximate intervals of 93 feet.

This survey was conducted at the request of Doyle Hartman for their North Shore Woolworth #6, Lea 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.

Doug Jeffers
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.

Ray Steinke

Before me, the undersigned authority, on this day personally appeared Doug Jeffers, 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

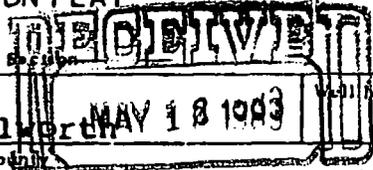
Ray Steinke
Notary Public in and for the
County of Midland, Texas
My commission expires 7/9/85



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-107
Supersedes C-124
Effective 1-1-65

All distances must be from the outer boundaries of the Section

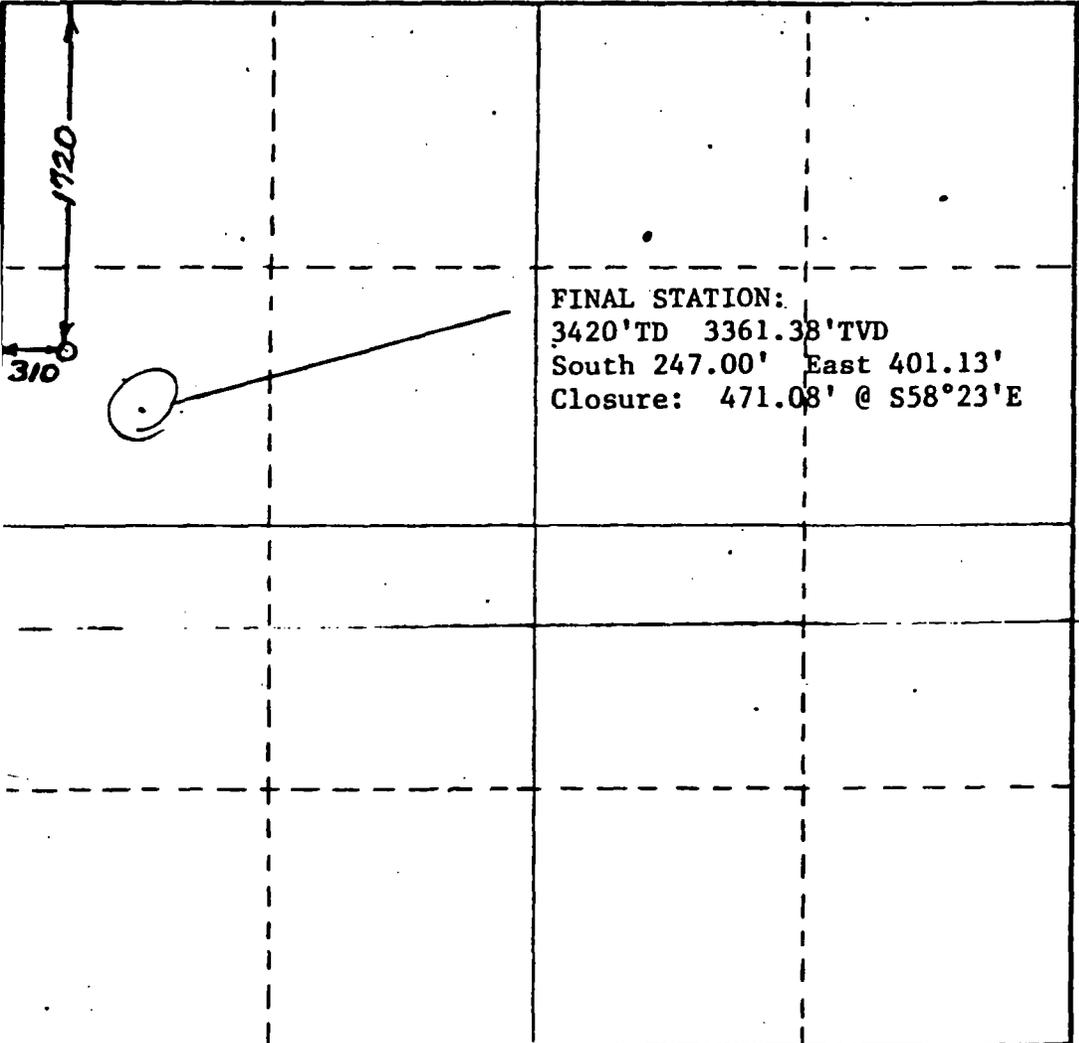


Operator Doyle Hartman		Lease Northshore-Woolworth		Well No. 6
Unit Letter E	Section 33	Township 24 South	Range 37 East	County SANTA FE
Actual Footage Location of Well: 1720 feet from the North line and 310 feet from the West line.				
Ground Level Elev. 3162.0	Producing Formation Yates-Seven Rivers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

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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.

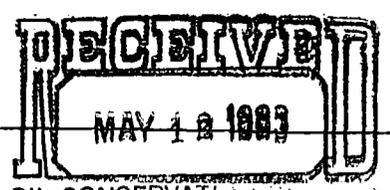


CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
<i>Larry A. Nermyr</i>	
Name	Larry A. Nermyr
Position	Engineer
Company	Doyle Hartman
Date	February 11, 1983
I hereby certify that the well location shown on this plat was 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.	
Date Surveyed	December 10, 1982
<i>Truman Gaskin</i> Truman Gaskin	
Certificate No.	2126

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SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PRODUCTION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
**REQUEST FOR ALLOWABLE
 AND
 AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS**

Form C-104
 Supersedes Old C-104 and C-105
 Effective 1-1-65



Operator
Doyle Hartman
 Address
Post Office Box 10426, Midland, Texas 79702

Reason(s) for filing (Check proper box) Other (Please explain)

New Well <input checked="" type="checkbox"/>	Change In Transporter of:	
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/>	Dry Gas <input checked="" type="checkbox"/>
Change In Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/>	Condensate <input type="checkbox"/>

If change of ownership give name and address of previous owner _____

DESCRIPTION OF WELL AND LEASE

Lease Name Northshore Woolworth	Well No. 6	Pool Name, including Formation Jalpat (Gas)	Kind of Lease State, Federal or Fee Fee	Lease No.
Location Bottom Hole Location = 1967 FNL & 711 FWL Section 33, T-24-S, R-37-E				
Unit Letter E : 1720 Feet From The North Line and 310 Feet From The West				
Line of Section 33 Township 24S Range 37E , NMPM, Lea County				

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas Company	Post Office Box 1384, Jal, New Mexico 88252
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	No 4-27-83

If this production is commingled with that from any other lease or pool, give commingling order number: _____

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					
Date Spudded 4-7-83	Date Compl. Ready to Prod. 4-21-83	Total Depth 3426 (3366 TVD)		P.B.T.D. 3420 (3361 TVD)				
Elevations (DF, RKB, RT, GR, etc.) 3262 GL	Name of Producing Formation Yate-Seven Rivers	Top Oil/Gas Pay 3067 (3009 TVD)		Tubing Depth 3397 (3338 TVD)				
Perforations 3067-3273 (3009-3220) Yates-Seven Rivers			Depth Casing Shoe 3426 (3366 TVD)					

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
12 1/4	9 5/8	467	250 (Circ)
8 3/4	7	3426 (3366 TVD)	700 (Circ)

TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bble.	Water-Bble.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D 112	Length of Test 24 Hr	Bble. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.) Orifice Tester	Tubing Pressure (shut-in) 45 psi	Casing Pressure (shut-in) 83 psi	Choke Size 18/64

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Larry G. Newman
 (Signature)
ENGINEER
 (Title)
APRIL 22, 1983
 (Date)

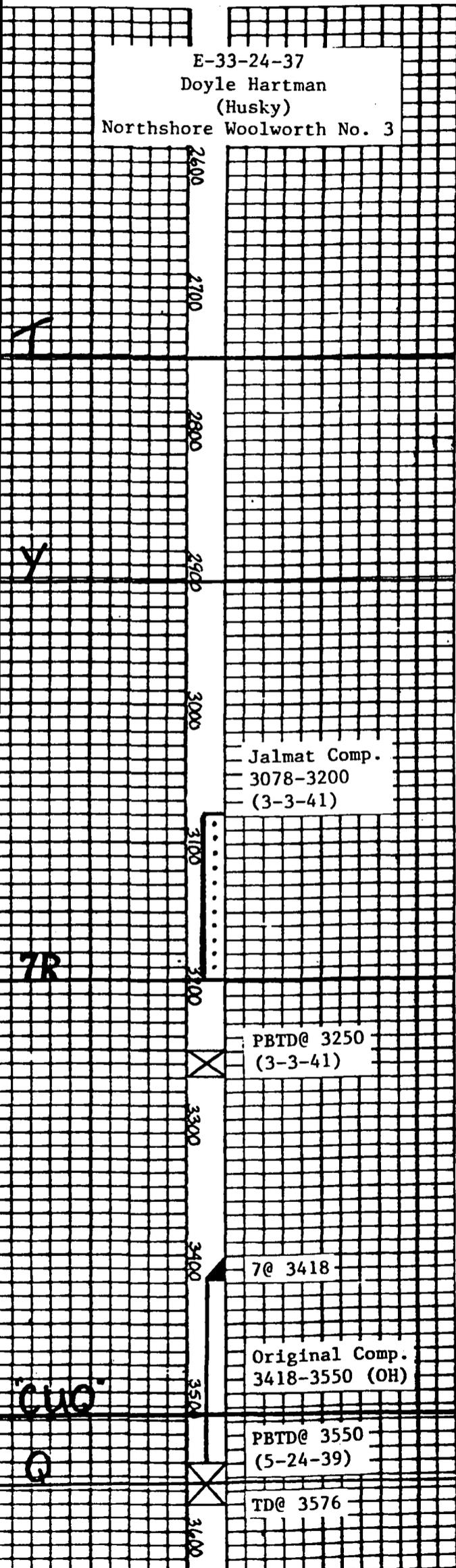
OIL CONSERVATION COMMISSION

APPROVED _____, 19____

BY _____

TITLE _____

This form is to be filed in compliance with RULE 1104.
 If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the existing tests taken on the well in accordance with RULE 111.
 All sections of this form must be filled out completely for allowable on new and recompleted wells.
 Fill out only Sections I, II, III, and VI for change of owner, well name or number, or transporter, or other such change of conditions.



COMPANY Doyle Hartman
 (Northshore/Husky)

WELL Northshore Woolworth No. 3

FIELD Jalmat (Gas)

LOCATION 2310 FNL & 330 FWL (E)
 Section 33, T-24-S, R-37-E
 (24-37-33-E)

COUNTY Lea

STATE New Mexico

ELEVATIONS: KB _____
 DF 3273
 GL _____

COMPLETION RECORD

SPUD DATE 2-26-39 **COMP. DATE** 5-24-39

TD 3576 **PBTD** 3550

CASING RECORD 9 5/8 @ 1218 w/250
 7 @ 3418 w/250

PERFORATING RECORD OH: 3418-3550

STIMULATION Shot w/320 quarts
 (3475-3570)
 T/P @ 3531

IP IPF= 60 BOPD

GOR _____ **GR** _____

TP _____ **CP** _____

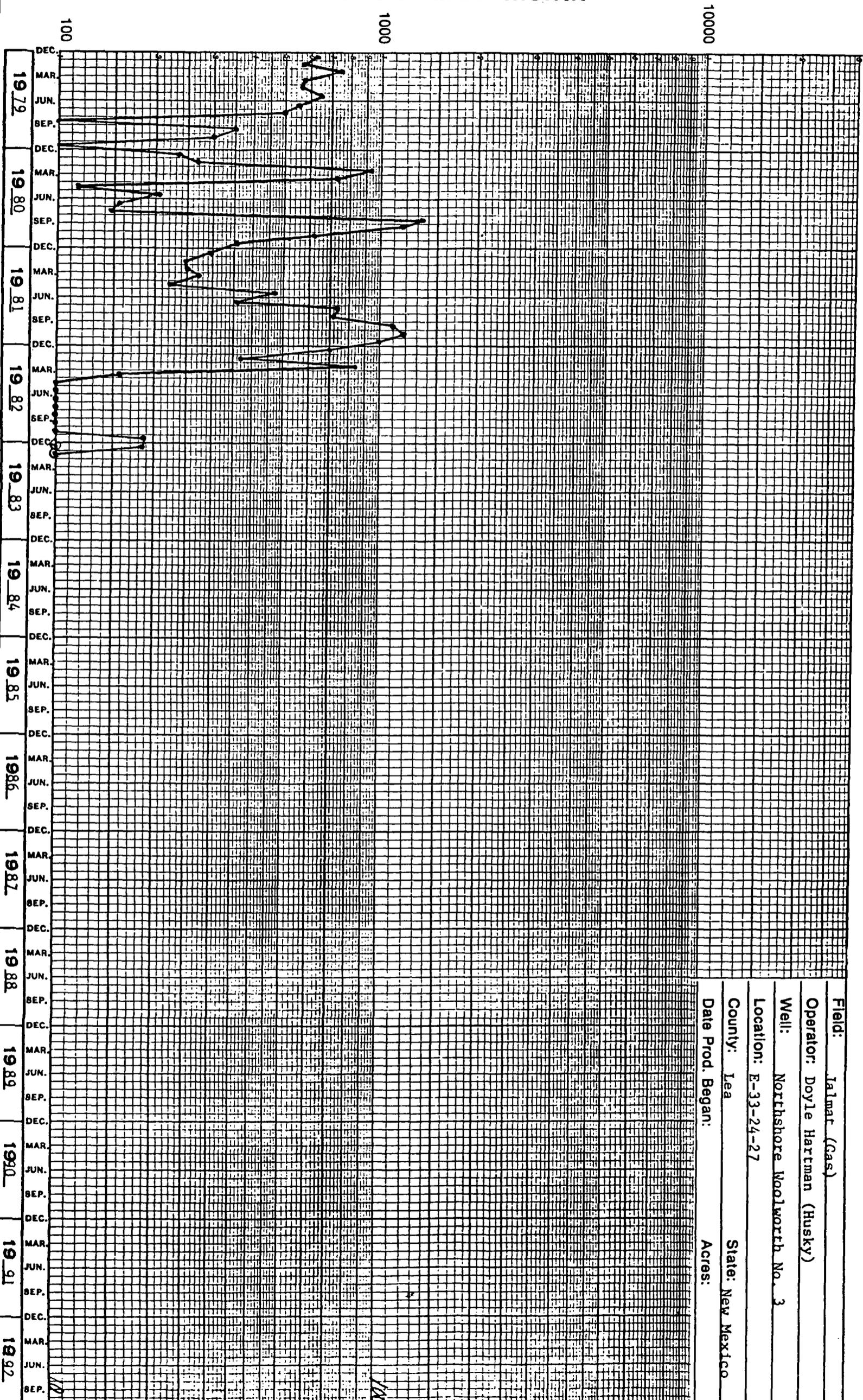
CHOKE _____ **TUBING** _____ @ _____

REMARKS 3-3-41: PBT@ 3250. Perf
 3078-3200 (Yates). F/8000 MCFPD.
 Recompleted to gas.

Final Langmat Cum: 24.0 MBO
 2-83 Cum Prod: 7485 MMCF
 1982 Avg. Prod: 7 MCFPD

Pursuant to NMOCD Order No. R-7247, well disconnected from El Paso Natural Gas Company's Gathering System on April 28, 1983.

Gas Production - .MCF/month



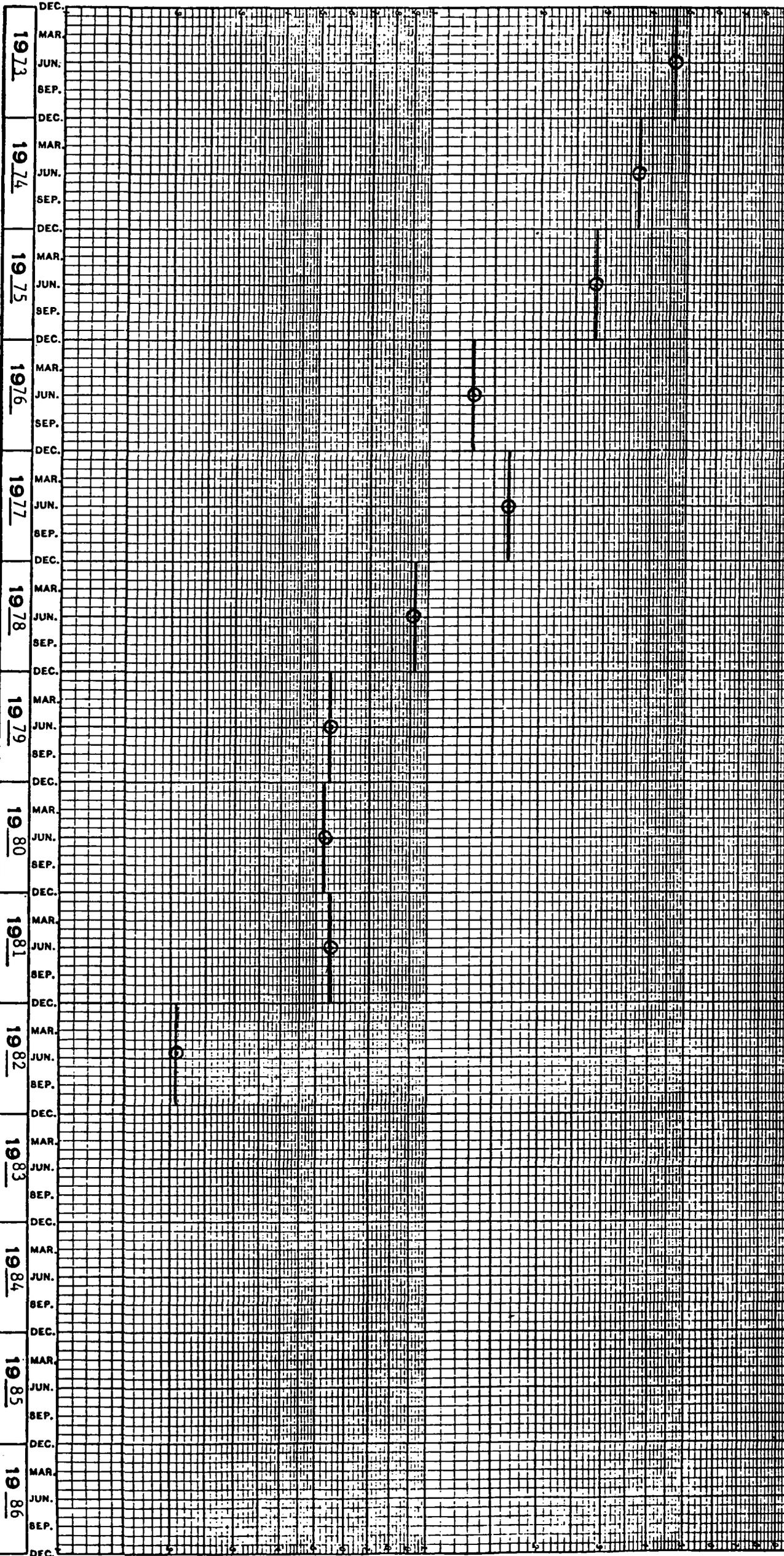
Field: Talmat (Gas)
Operator: Doyle Hartman (Husky)
Well: Northshore Woolworth No. 3
Location: E-33-24-27
County: Lea
State: New Mexico
Date Prod. Began: _____
Acres: _____

Gas Production - MCF/month

10000

1000

100

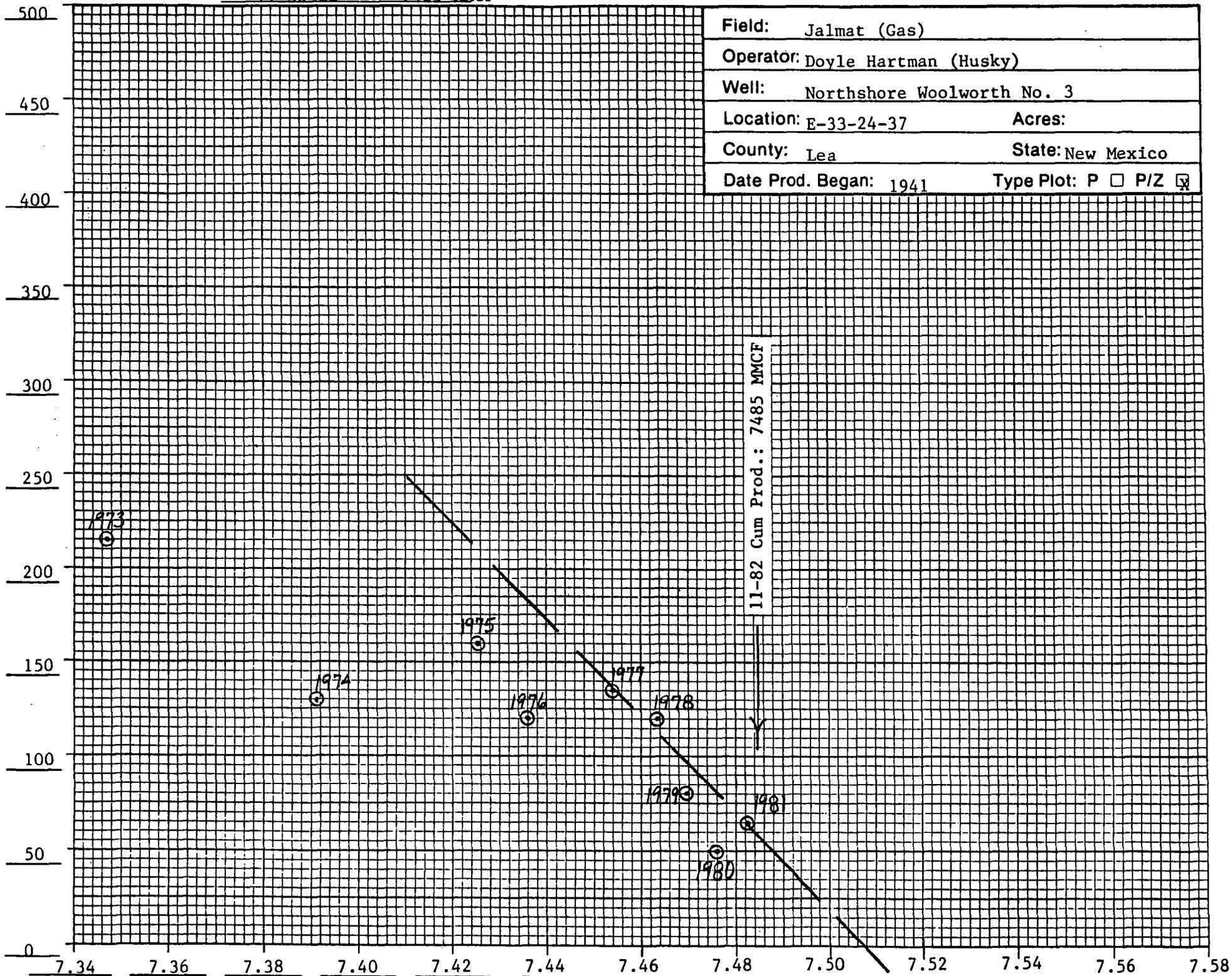


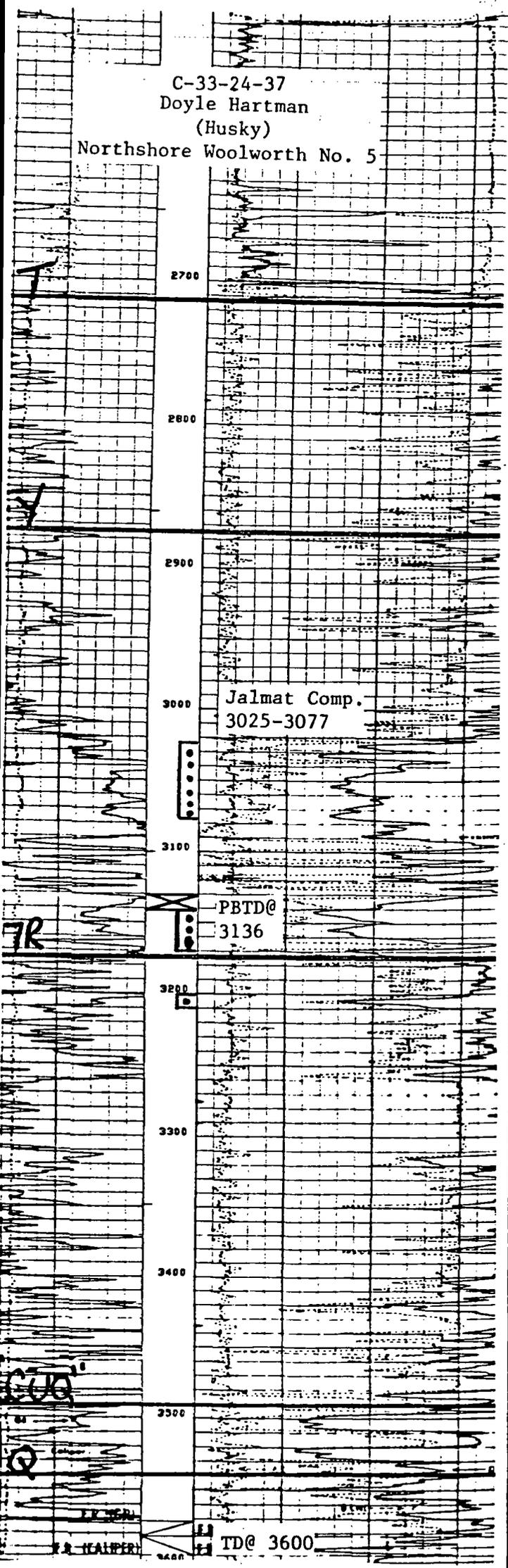
Field: Jalmat (Gas)
Operator: Doyle Hartman (Husky)
Well: Northshore Woolworth No. 3
Location: E-33-24-37
County: Lea
State: New Mexico
Date Prod. Began: 1941
Acres:

11-30-82 CUM: 7485 MMCF

Field:	Jalmat (Gas)		
Operator:	Doyle Hartman (Husky)		
Well:	Northshore Woolworth No. 3		
Location:	E-33-24-37	Acres:	
County:	Lea	State:	New Mexico
Date Prod. Began:	1941	Type Plot:	P <input type="checkbox"/> P/Z <input checked="" type="checkbox"/>

Pressure or P/Z - (psia)





COMPANY Doyle Hartman
(Husky)

WELL Northshore Woolworth No. 5

FIELD Jalmat

LOCATION 730 FNL & 1980 FWL (C)
Section 33, T-24-S, R-37-E
(24-37-33-C)

COUNTY Lea

STATE New Mexico

ELEVATIONS: KB 3268
DF
GL 3258

COMPLETION RECORD

SPUD DATE 3-7-80 COMP. DATE 6-12-80

TD 3600 PBTDO 3136

CASING RECORD 8 5/8 @ 1203 w/600
5 1/2 @ 3598 w/1026

PERFORATING RECORD Perf: 3025-3077 w/17*

STIMULATION A/2800
SWF/60,000 + 60,000

IP IPF= 50 MCFPD

GOR GR

TP 90 CP 150

CHOKE 16/64 TUBING 2 3/8 @ 3069

REMARKS

*4-12-80: Perf 3141-3204 w/4.
A/1200 and tested. Set CIBP @
3136. Perf 3025-3077 w/17.

2-83 Cum Prod: 16.5 MMCF

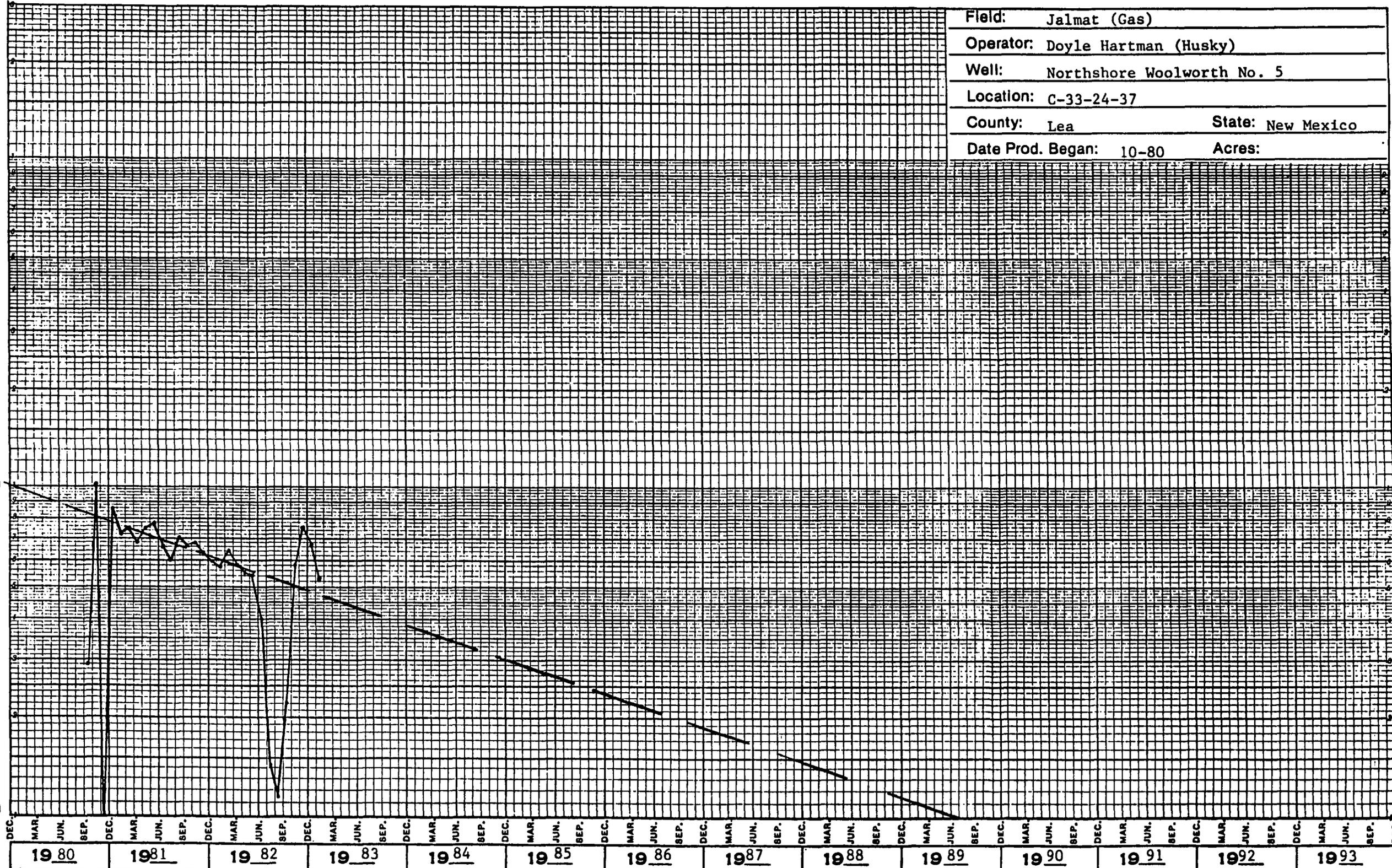
1982 Avg. Prod: 15.1 MCFPD

Gas Production - MCF/month

10000

1000

100



Field:	Jalpat (Gas)		
Operator:	Doyle Hartman (Husky)		
Well:	Northshore Woolworth No. 5		
Location:	C-33-24-37		
County:	Lea	State:	New Mexico
Date Prod. Began:	10-80	Acres:	

1. El Paso Natural Gas Company
Woolworth Estate Well
1570' FNL - 20, 1980 (as a SWD Well)
Spud: ~~Matrix Salt Water Disposal Well~~

Doyle Hartman
Northshore Woolworth Well No. 5
730' FNL - 1980' FWL
Spud: March 27, 1980
Jalmat Tansill Yates Seven Rivers producer (NW/4 - 160 acre dedication)
Cumulative Production as of 12/31/82
Gas - 15,948 MCF

3. Doyle Hartman
Northshore Woolworth Well No. 3
2310' FNL - 330' FWL
Spud: February 25, 1939
Was Langlie-Mattix producer until 7/6/56, was placed in the Jalmat Tansill Yates
Seven Rivers (prorated gas pool) 7/6/56; MSP 338 NW/4 160 acre dedication approved
Jan. 17, 1957
Jalmat Cumulative production as of 12/31/82
Gas - 7485477 MCF

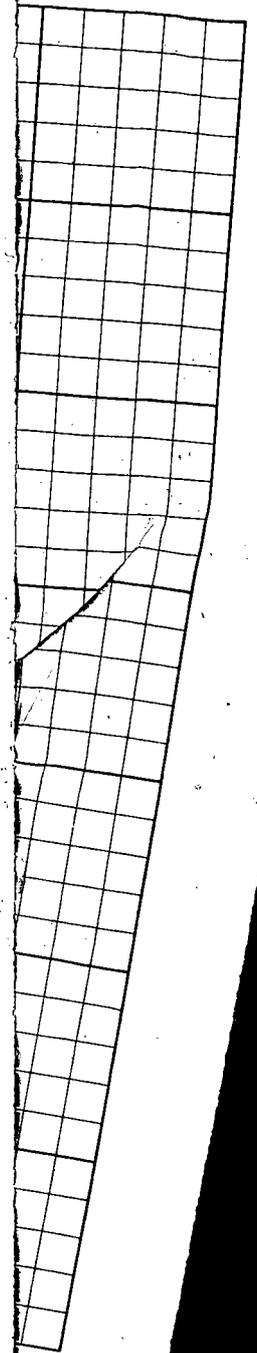
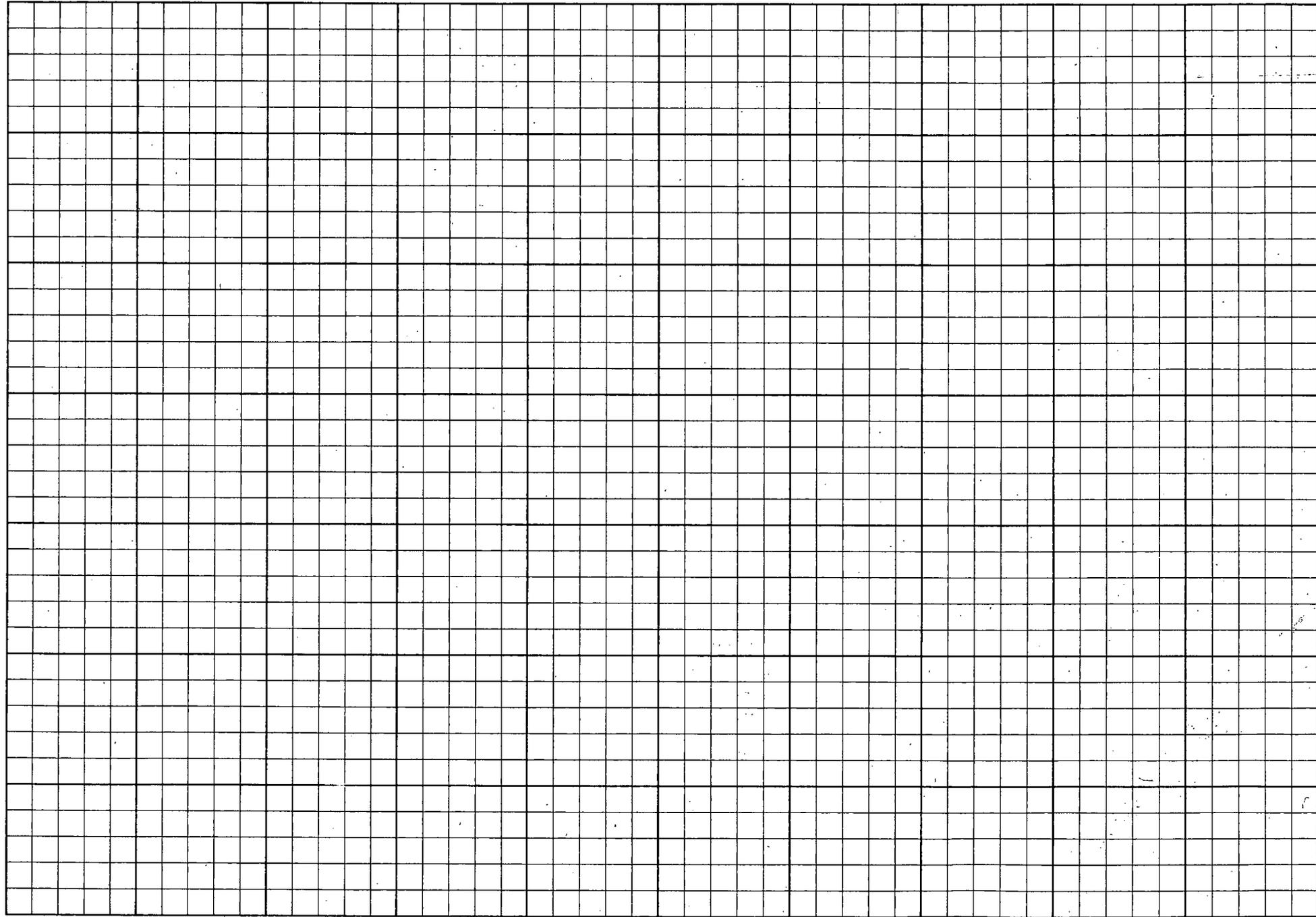
4. Doyle Hartman (APPLICATION WELL)
Northshore Woolworth Well No. 6
1720' FNL - 310' FWL
Spud: April 7, 1983
proposed Jalmat Tansill Yates Seven Rivers (prorated gas pool) producer (NW/4 160 acre dedication)

5. Amerada Hess Corporation
Langlie Mattix Woolworth Unit Well No. 805
2400' FNL - 330' FWL
Spud: October 23, 1970
Langlie Mattix producer

6. Amerada Hess Corporation
Langlie Mattix Woolworth Unit Well No. 804
990' FNL + WL
Spud: April 23, 1939
Langlie - Mattix producer

1/4 SQUARE
1/4 SQUARE
1/4 SQUARE



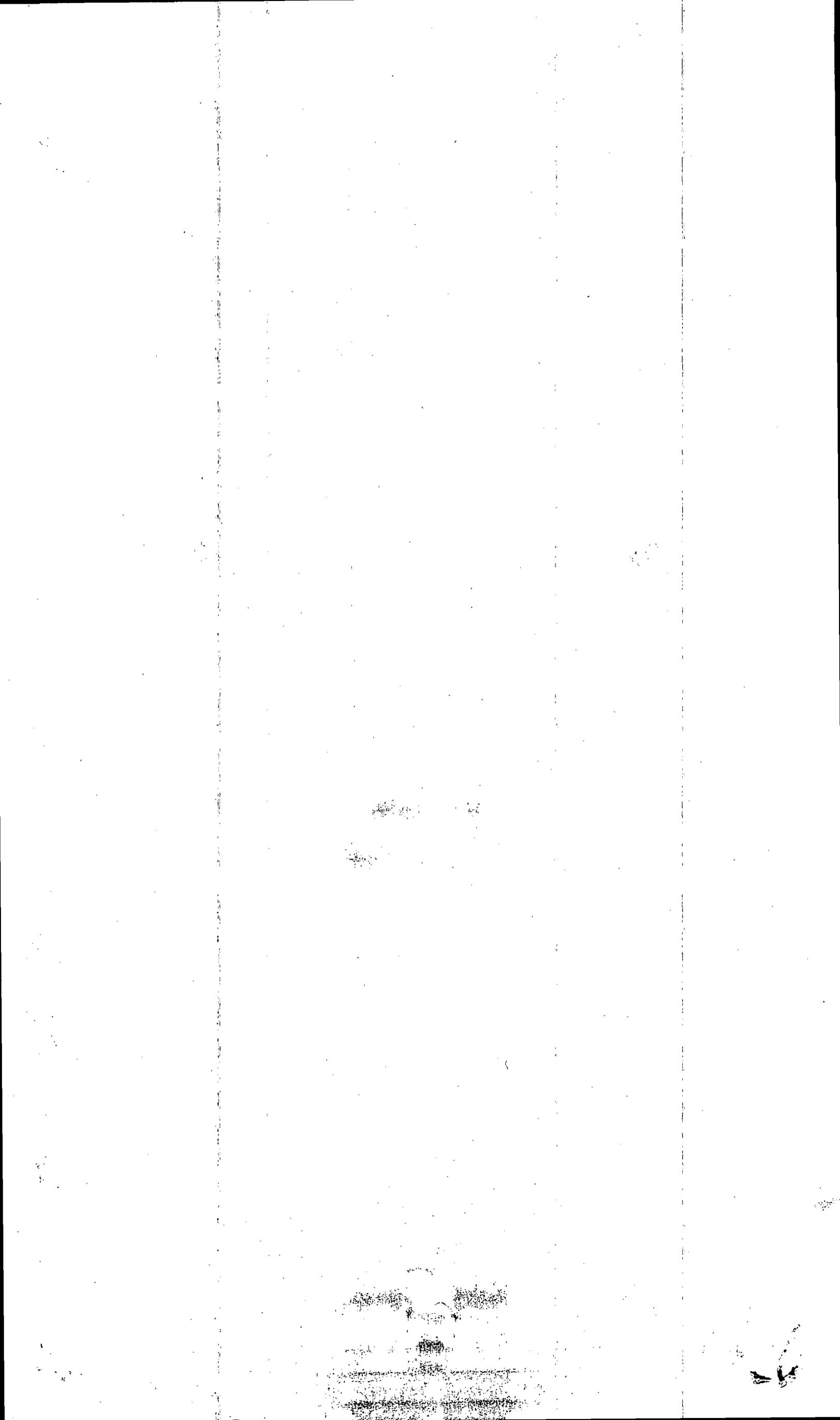


MONTHLY TOTALS ARE THRU MONTH OF DECEMBER
 MONTHLY TOTALS ARE ADDED TO CUMULATIVE TOTALS.

LEA COUNTY * * * * *

FOLLOWING WELL PLUGGED AND ABANDONED 1977

5N31	24S37E			6117	29787	30532	4040146	JALMAT TANSILL*SKELLY OIL C*J W SHERRELL	* P
28031	24S37E	1859 P	5395		53939	10440	259798	LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT* P
27P31	24S37E			10412	142443	215311	120953	I LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT* P
6A32	24S37E	11676 P	21419		73913	1137	374589	I LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT* S
5832	24S37E						156285	I LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT* S
								FOLLOWING WELL RECOMPLETED TO JALMAT TANSILL YT 7 RVRS (PRO GAS)	
					5065			LANGLIE MATTIX*APCO OIL COR*STATE	* S
					39182	711893	95524	LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT*UP
1C32	24S37E	2104 P	100900	6922	754	2714	1793273	JALMAT TANSILL*SOOTHLAND RD*STATE	* S
4C32	24S37E			10432	51446	226	102229	I LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT* S
1C32	24S37E	754 P	2714					FOLLOWING WELL RECOMPLETED TO JALMAT TANSILL YT 7 RVRS (PRO GAS)	
3D32	24S37E				47329			LANGLIE MATTIX*UNION TEXAS	*STATE A 32 * S
								FOLLOWING WELL RECOMPLETED TO LANGLIE MATTIX 7 RVRS Q GRAYBURG	
1E32	24S37E						1270917	JALMAT TANSILL*UNION TEXAS	*LANGLIE JAL UNIT* S
10E32	24S37E	3244 P	56221	6949	40755	243207	78950	LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT*UF
10E32	24S37E				53812	128	27095	I LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT* S
9E32	24S37E						379872	JALMAT TANSILL*UNION TEXAS	*STATE A 32 * S
4F32	24S37E				41555	G		FOLLOWING WELL RECOMPLETED TO JALMAT TANSILL YT 7 RVRS (PRO GAS)	
								LANGLIE MATTIX*SINCLAIR OIL*STATE 157 E	* S
1G32	24S37E	8360 P	48138	9858	148982	310361	140669	LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT*US
8G32	24S37E				280	231	1275029	JALMAT TANSILL*ARCO OIL & G*JALMAT STATE GAS*CS	* S
1G32	24S37E	12	107	17935	11194			I LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT* S
7H32	24S37E							FOLLOWING WELL NEW 8 1982	
					2009	4609	7351	LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT*US
98I32	24S37E	2009 P	4609	7351				FOLLOWING WELL RECOMPLETED TO JALMAT TANSILL YT 7 RVRS (PRO GAS)	
					3324			LANGLIE MATTIX*RODMAN PETRO*HUMBLE L STATE	* S
3I32	24S37E	3847 P	21321	7685	52273	124236	68870	LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT*UF
22I32	24S37E				45551	G	7282306	JALMAT TANSILL*READING AND *HUMBLE L STATE	* S
3I32	24S37E						138895	I LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT*US
21J32	24S37E							FOLLOWING WELL NEW 8 1982	
					1159	11275	20231	LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT*US
99K32	24S37E	1159 P	11275	20231				FOLLOWING WELL ZONE ABANDONED	
							1747441	JALMAT TANSILL*SKELLY OIL C*STATE M	* S
3K32	24S37E				226862	385612	137356	LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT* S
20K32	24S37E	12012 P	50609	10563				FOLLOWING WELL NEW 8 1982	
					4660	9737	13531	LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT*US
100L32	24S37E	4660 P	9737	13531	72562	1727	630937	I LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT* S
19L32	24S37E				114	235	181595	JALMAT TANSILL*GETTY OIL CO*SKELLY M STATE	* S
4L32	24S37E	13	22	21867				FOLLOWING WELL NEW 8 1982	
					2760	11847	3737	LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT*US
95M32	24S37E	2760 P	11847	3737	203951	90711	133231	LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT* S
26M32	24S37E	9272 P	15287	18065				FOLLOWING WELL NEW 8 1982	
					3788	19480	2568	LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT*US
96N32	24S37E	3788 P	19480	2568				FOLLOWING WELL ZONE ABANDONED	
							3175589	JALMAT TANSILL*UNION TEXAS	*LANGLIE JAL UNIT* S
25N32	24S37E				62245			I LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT*US
25N32	24S37E							FOLLOWING WELL RECOMPLETED TO JALMAT TANSILL YT 7 RVRS (PRO GAS)	
					56210			LANGLIE MATTIX*SINCLAIR OIL*STATE 157 C	* S
1032	24S37E				4776	94518	72903	LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT*UF
24032	24S37E	1837 P	15615	5932	76409		2350702	JALMAT TANSILL*ARCO OIL & G*JALMAT STATE GAS*CS	* S
3032	24S37E							FOLLOWING WELL NEW 8 1982	
					879	10376	2579	LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT*US
97P32	24S37E	879 P	10376	2579				FOLLOWING WELL RECOMPLETED TO JALMAT TANSILL YT 7 RVRS (PRO GAS)	
								LANGLIE MATTIX*SINCLAIR OIL*STATE 157 C	* S
2P32	24S37E							I LANGLIE MATTIX*UNION TEXAS	*LANGLIE JAL UNIT* S
23P32	24S37E						2181847	JALMAT TANSILL*ARCO OIL & G*JALMAT STATE GAS*CS	* S
2P32	24S37E				69382	G	155408	LANGLIE MATTIX*AMERADA HESS*LANGLIE MATTIX W*UP	
					1551		96029	I LANGLIE MATTIX*AMERADA HESS*LANGLIE MATTIX W*UP	
116A33	24S37E	5626 P	22155		640627	470605	53784	LANGLIE MATTIX*AMERADA HESS*LANGLIE MATTIX W*UP	
118B33	24S37E				213798	994560	26166	LANGLIE MATTIX*AMERADA HESS*LANGLIE MATTIX W*UP	
801C33	24S37E	4411 P	90738	543			15948	JALMAT TANSILL*DOYLE HARTMA*NORTH SHORE WOOL*CP	
5C33	24S37E				43834		3514	I LANGLIE MATTIX*AMERADA HESS*LANGLIE MATTIX W*UP	
804033	24S37E							FOLLOWING WELL RECOMPLETED TO JALMAT TANSILL YT 7 RVRS (PRO GAS)	
					23949			LANGLIE MATTIX*HUSKY OIL CO*NORTH SHORE WOOL* P	
					12454	20280	3896	LANGLIE MATTIX*AMERADA HESS*LANGLIE MATTIX W*UP	
3E33	24S37E	389 P	567	2606			7485477	JALMAT TANSILL*DOYLE HARTMA*NORTH SHORE WOOL* P	
805E33	24S37E				102728	5673	62517	I LANGLIE MATTIX*AMERADA HESS*LANGLIE MATTIX W*UP	
3E33	24S37E				413775	1280114	101126	LANGLIE MATTIX*AMERADA HESS*LANGLIE MATTIX W*UP	
802F33	24S37E	2239 P	68451	166					
117G33	24S37E								



Buyer grants Seller a purchase mortgage interest in the goods sold, substituted, stored, additions or accessories thereto, and the proceeds of each (hereinafter collectively referred to as the collateral) to secure Buyer's performance of Buyer's obligations as specified in American Furniture Company's Retail Charge Agreement and Buyer's promissory note hereof (hereinafter called the Obligations). The collateral is personal property and not a fixture. If Buyer fails to perform any of the Obligations, Seller may declare all amounts Buyer owes Seller due and payable and pursue Seller's other remedies. Buyer will pay all costs, including attorney fees, incurred in enforcing this Agreement. If the Buyer purchases property or credit life insurance through the Seller, the Seller will have a security interest in the proceeds of the insurance policies. THERE ARE NO WRITTEN OR ORAL REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, OF FITNESS OR MERCHANTABILITY, EXCEPT ANY MANUFACTURER'S WRITTEN WARRANTY, CONCERNING THE GOODS AND SERVICES SOLD HEREUNDER.

Unless one of the blocks below is checked, the Total will be added to Buyer's Revolving Charge Account and Buyer will make payments in accordance with the terms specified in American Furniture's Retail Charge Agreement.

If checked here, the Total will be added to Buyer's Revolving Charge Account, and Buyer will pay, within 30 days after the date of each monthly statement, a monthly payment of \$ _____ and a final payment of the remaining unpaid balance. Buyer may at any time pay more than the monthly payment provided for herein. At the time of a subsequent purchase, a different monthly payment amount will be charged.

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If checked here, Buyer will pay the Total in accordance with terms of American Furniture Company's Layaway Plan specified in American Furniture Company's Retail Charge Agreement.

NOTICE TO BUYER: DO NOT SIGN THIS AGREEMENT BEFORE YOU READ IT OR IF IT CONTAINS BLANK SPACES. YOU ARE ENTITLED TO A COPY OF THE AGREEMENT YOU SIGN. BUYER ACKNOWLEDGES RECEIPT OF A FULLY EXECUTED COPY HEREOF BY HIS SIGNATURE HEREON.

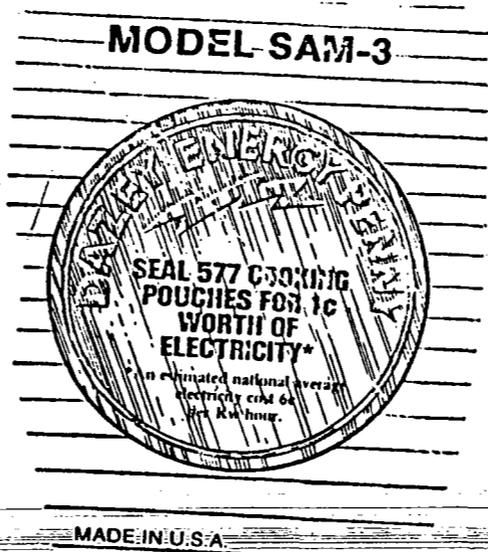
AMERICAN
FURNITURE COMPANY
P.O. BOX 3895 • ALBUQUERQUE, N.M. 87160
Phone: (505) 423-2211

ACCOUNT NO.	LOCATION	SLSMN	DATE
33707	170		221 3/25/83
DISCOUNT 221		DEL	
QUANTITY	DESC/PRICE	STOCK NO/TOTAL	TYPE
143	SMALL KIT APPL	2607612	1
			2.47
148	SMALL KIT APPL	2607604	
			29.26
1430 TOTAL			32.95
4.25% OLD TAX			1.38
SUBTOTAL PAYMENT			34.33

Linda Stogner
BUYER

1761894
LINDA STOGNER

1761894000000
TOTAL AMOUNT DUE 34.33
AUTHORIZED BY _____ CREDIT O.K.



Making life easier
With Rebates

Get up to \$5.00 Rebate from Dazey

Offer Effective through June 30, 1983

- \$5.00 Model SAM3 Vacuum Seal-A-Meal, DPK12 Perk-Up, HD61 Salon Hair Dryer
- \$3.00 Model SAM2/GBSM2/2820 Dazey Seal-A-Meal 2, FS2/FS20, FS3/FS30, FS200/FS202 Dazey Foot Saver With Heat, DF2/DF4 Dazey Donut Factory
- \$2.00 Model SAM1/GBSM1/8500 Dazey Seal-A-Meal, FJ28 Fruit Juicer, FS1/FS10 Dazey Foot Saver

I have purchased the Dazey product(s) marked above. Enclosed is the:
 Original dated sales receipt. (Circle price paid).
 Proof of Purchase — clip warranty statement from box panel of model purchased.
 Fill out coupon and mail with original sales receipt and proof of purchase so that it is postmarked no later than midnight, June 30, 1983.

Only one rebate per product, per household or customer. Allow 6 to 8 weeks for your rebate check. Offer void where prohibited, taxed, or otherwise restricted by law. Mail to: Dazey Rebate, P.O. Box 4322, Monticello, Minnesota 55365.

Requests for rebates will not be honored without all required information.

1st Initial 2nd Initial Last Name STOGNER
 Address 1761894 PASSED DE PERALTA #20
 City SAWTA FE State NM Zip 87501

DOYLE HARTMAN

Oil Operator

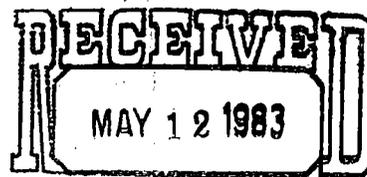
500 N. MAIN

P. O. BOX 10426

MIDLAND, TEXAS 79702

(915) 684-4011

May 10, 1983



OIL CONSERVATION DIVISION
SANTA FE

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Mike Stogner

Re: Administrative Procedure
Infill Finding
Northshore Woolworth No. 6
1720 FNL & 310 FWL (E)
Section 33, T-24-S, R-37-E
Lea County, New Mexico

Gentlemen:

Pursuant to Section 271.305 of the Final Rules and Regulations of the Federal Energy Regulatory Commission relating to Section 103 of the Natural Gas Policy Act of 1978, and to Order R-7247 of the New Mexico Oil Conservation Division, we hereby request an infill finding (NFL) for the above captioned Northshore Woolworth No. 6 located 1720 FNL & 310 FWL (E) Section 33, T-24-S, R-37-E, Lea County, New Mexico.

With regard to our request, and in accordance with Order R-7247, we submit the following:

- Rule 5 A copy of approved Form C-101 for the infill well and Form C-102 showing the proration unit dedicated to the well are enclosed.
- Rule 6 The name of the pool in which the infill well has been drilled is Jalmat (Gas) Pool, and the standard spacing unit therefor is 640 acres.
- Rule 7 The number of the Administrative Order approving the directional drilling, unorthodox location and non-standard proration unit dedicated to the well is R-7247.
- Rule 8 Table 1 attached to William P. Aycock's letter dated May 9, 1983 shows the following:
- a. Lease name and well location;
 - b. Spud date;
 - c. completion date;

New Mexico Oil Conservation Division
May 10, 1983
Page 3

We respectfully request that the Commission grant our request for an
infill finding pursuant to Order R-6013-A.

Very truly yours,

DOYLE HARTMAN

Michelle Hembree

Michelle Hembree
Administrative Assistant

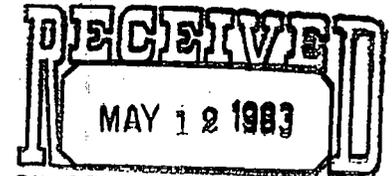
/mh

Enclosures as above

WILLIAM P. AYCOCK & ASSOCIATES, INC.

Petroleum Engineering Consultants
308 WALL TOWERS WEST
MIDLAND, TEXAS 79701
PHONE 915/683-5721

May 9, 1982



OIL CONSERVATION DIVISION
SANTA FE

New Mexico Department of Energy and Minerals,
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Mike Stogner

Subject: Administrative Application for Infill Well Findings
for Doyle Hartman's Northshore Woolworth No. 6,
Section 33, Township 24 South, Range 37 East,
Surface Location, 1720' FNL and 310' FWL,
Jalmat (Gas) Pool, Lea County, New Mexico

Gentlemen:

Application is hereby made for an administrative infill well finding effective with initial gas deliveries for the described well in accordance with Exhibit "A", Order R-6013-A. The following constitute the requirements of the said Order:

- Rule 5: Attached are copies of the Forms C-101 and C-102.
- Rule 6: The name of the pool in which the infill well has been drilled is the Jalmat Pool, and the standard spacing therefor is 640 acres.
- Rule 7: The non-standard proration unit, unorthodox well location, simultaneous dedication and deviation permit were approved by Order No. R-7247, a copy of which is attached hereto.
- Rule 8: See attached Table No. 1, "Summary of Required Information, Rule 8, Exhibit "A", Order No. R-6013-A" for requirements of Sections "a." through "f.". Also required by Section "g." is "a clear and concise statement indicating why the existing well(s) on the proration unit cannot effectively and efficiently drain the portion of the reservoir covered by the

proration unit." The Jalmat (Gas) Pool wells to which the present 160-acre non-standard proration unit was assigned were the Doyle Hartman (originally Husky Oil Co. of Delaware) Northshore Woolworth No. 3 (2,310' FNL & 330' FWL) and the Doyle Hartman (also originally Husky Oil Co. of Delaware) Northshore Woolworth No. 5 (730' FNL and 1980' FWL); these wells had produced 7,503.3 MMCF as follows:

Operator Well Name and No.	Cumulative Gas Recovery, MMCF at 5-1-83	Estimated Future Gas Recovery, MMCF at 5-1-83
Doyle Hartman		
Northshore Woolworth 3	7,485.3	None
Northshore Woolworth 5	18.0	102.5
TOTAL	7,503.3	102.5

The estimated ultimate gas recovery as noted for the Doyle Hartman Northshore Woolworth No. 5 is 120.5 MMCF as of May 1, 1983, resulting in an estimated future gas recovery for this pre-existing well of 102.5 MMCF. The estimated future life is about twenty years. The Northshore Woolworth No. 3 has not been included in these estimates, as, by virtue of Order R-7247, the Northshore Woolworth 3 "will be shut-in upon successful completion of the Northshore Woolworth 6. Accordingly, any producible gas reserves that remain beneath the subject lease in excess of 120.5 MMCF would have been substantially not recoverable from the subject property without the drilling of the infill application well.

Rule 9:

- Section a. Requires that a formation structure map be submitted; attached is a Yates formation structure map of the immediate area containing the subject lease.
- Section b. Requires that the "volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined " be submitted. The estimated ultimate gas recovery for the Doyle Hartman Northshore Woolworth No. 6 is 626.1 MMCF. Since the gas to be recovered from the

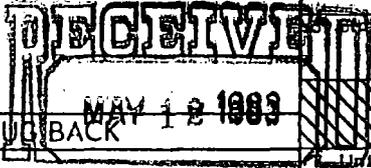
30-025-28094^{REC}

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

5A. Indicate Type of Lease
 STATE FEDERAL
 State Oil & Gas Lease No.



APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
 b. Type of Well DRILL DEEPEN
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE
 2. Name of Operator Doyle Hartman
 3. Address of Operator P. O. Box 10426 Midland, Texas 79702
 4. Location of Well UNIT LETTER E LOCATED 1720 FEET FROM THE North LINE AND 310 FEET FROM THE West LINE OF SEC. 33 TWP. 24S RGE. 37E NMPM
 5. Unit Agreement Name OIL CONSERVATION DIVISION PL SANITAFE
 6. Farm or Lease Name Northshore Woolworth
 7. Well No. 6
 8. Field and Pool, or Wildcat Jalmat (Gas)
 9. County Lea
 10. Proposed Depth 3350'
 11. Formation Yates-Seven Rivers
 12. Rotary or C.T. Rotary
 13. Elevations (Show whether DT, RT, etc.) 3162.0
 14. Kind & Status Plug. Bond Multi-well Approved
 15. Drilling Contractor Not Selected
 16. Approx. Date Work will start January 1983

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	9 5/8"	36.0	400	300	Surface
8 3/4"	7"	23.0	3350	700	Surface

This proposed well will be drilled to a total depth of 3350 feet and will be completed as a Jalmat (Yates-Seven Rivers) gas producer. From the base of the surface pipe through the running of the production casing, the well will be equipped with a 3000 psi double ram BOP system.

Note: Any gas produced from the proposed well has previously been dedicated to El Paso Natural Gas Company.

APPROVAL VALID FOR 180 DAYS
 PERMIT EXPIRES 10/6/83
 UNLESS DRILLING UNDERWAY

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.

Signed Larry C. [Signature] Title Engineer Date 12/14/82

(This space for State Use)
 ORIGINAL SIGNED BY JERRY SEXTON
 APPROVED BY DISTRICT 1 SUPERVISOR TITLE _____ DATE MAR 6 1983
 CONDITIONS OF APPROVAL, IF ANY:

0 2 2

[Handwritten signatures]

OFFICE OF THE DIRECTOR OF HEALTH SERVICES

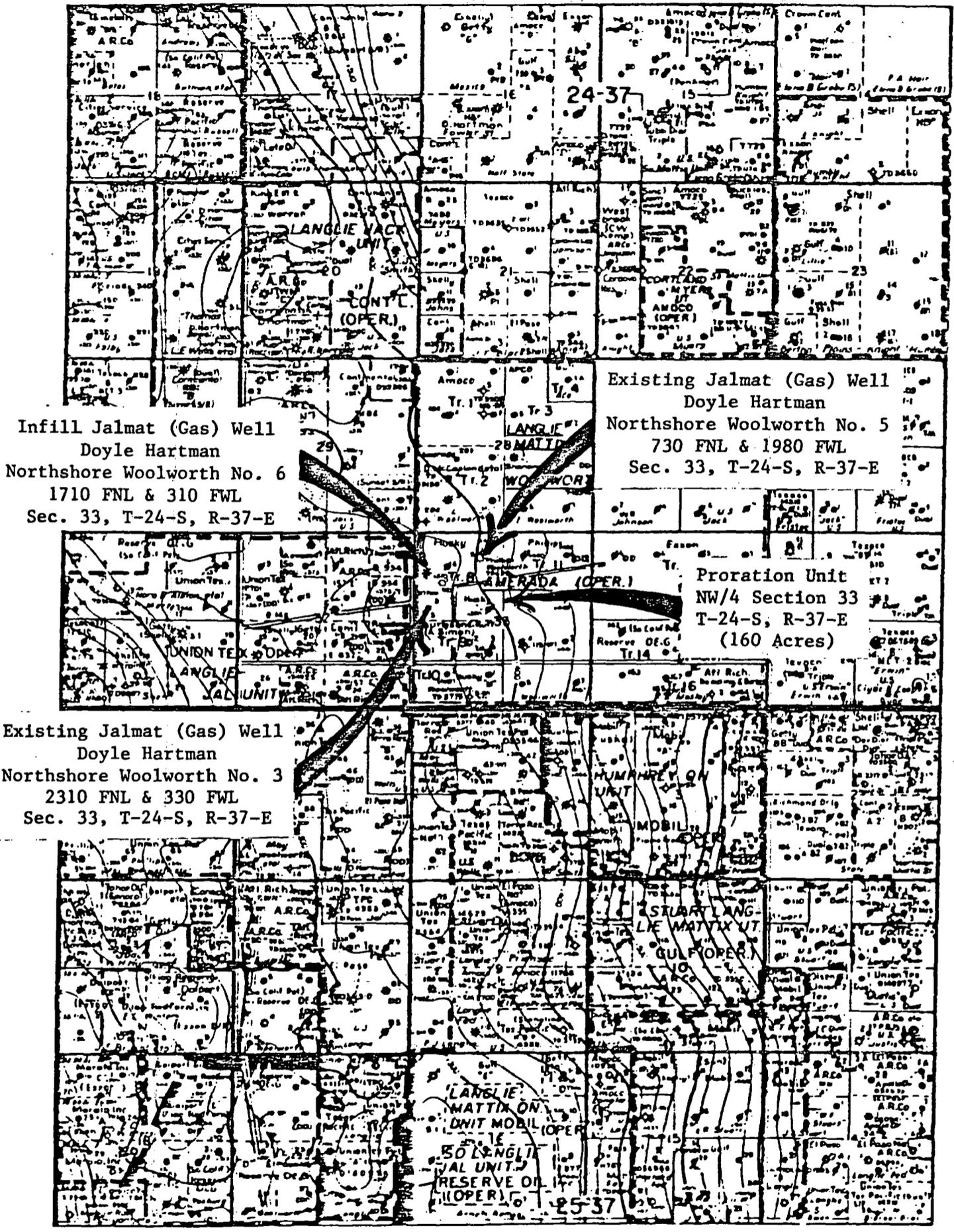
STATE OF CALIFORNIA

HEALTH SERVICES

OFFICE OF THE DIRECTOR OF HEALTH SERVICES
STATE OF CALIFORNIA

FOR THE PURPOSES OF THIS ORDER, THE FOLLOWING IS DEFINED AS:

1. "HEALTH SERVICES" means...



STRUCTURE MAP
 T/Yates
 T-24-S & T-25-S
 R-37-E
 Jalmat (Gas) Pool
 Lea County, New Mexico
 Scale 1"=4000' April, 1983
 D. Hartman

COMPANY Doyle Hartman

WELL Northshore Woolworth No. 6

FIELD Jalmat (Gas)

LOCATION 1710 FNL & 310 FWL (E)

Section 33, T-24-S, R-37-E

(24-37-33-E)

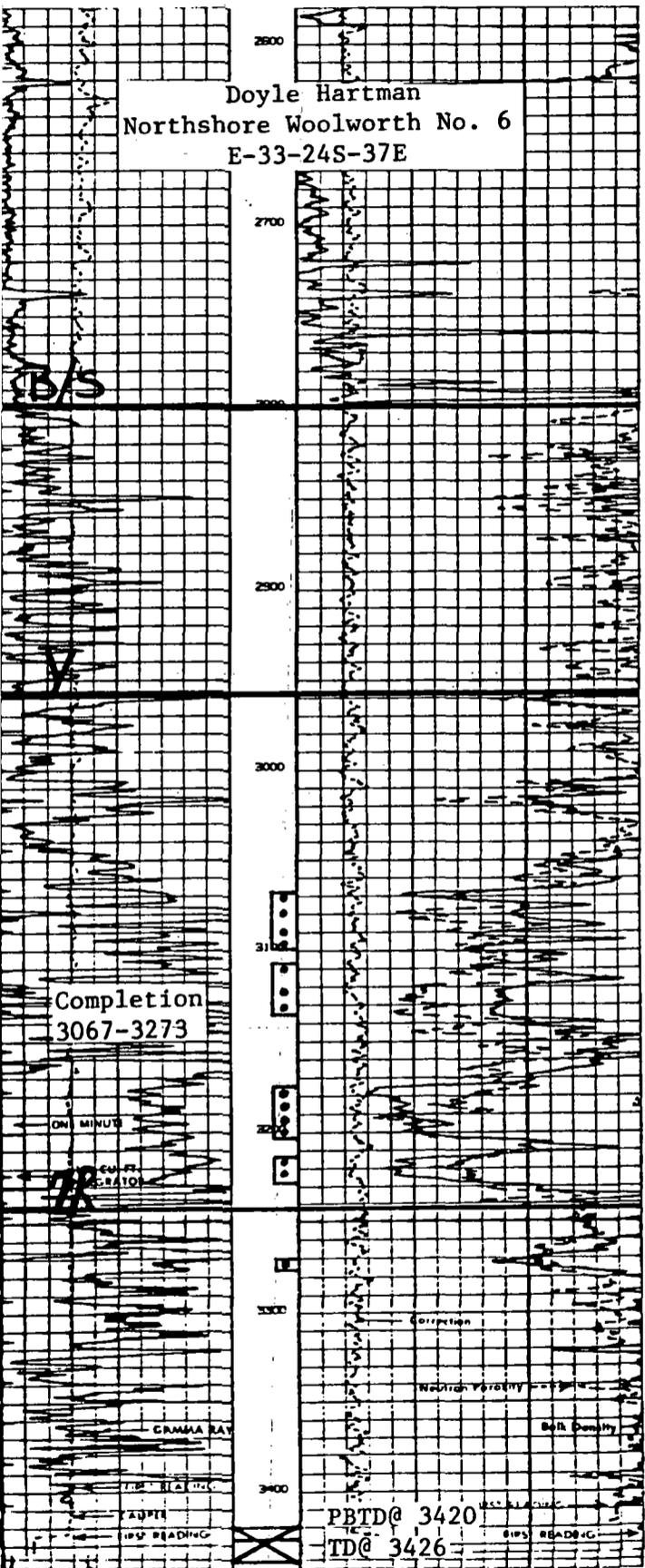
COUNTY Lea

STATE New Mexico

ELEVATIONS: KB 3273

DF 3272

GL 3262



COMPLETION RECORD

SPUD DATE 4-7-83 COMP. DATE 4-21-83

TD 3426 * (3366) PBTd 3420 * (3361)

CASING RECORD 9 5/8 @ 467 w/250'

7 @ 3426 w/700

PERFORATING RECORD Perf: 3067-3273 w/21.

*(3009-3220)

STIMULATION A/5500

IP IPF= 112 MCFPD + 1 BWPD

GOR GR

TP 45 CP83

CHOKE 18/64 TUBING @

REMARKS *(True Vertical Depth)

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OPERATOR	

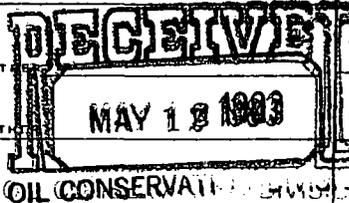
NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No.

1a. TYPE OF WELL
OIL WELL GAS WELL DRY

b. TYPE OF COMPLETION
NEW WELL WORK OVER DEEPEN PLUG BACK DIFF. RESVR.



6. Unit Agreement No.

7. Form or Lease Name
Northshore Woolworth

8. Well No.

2. Name of Operator
Doyle Hartman

3. Address of Operator
Post Office Box 10426, Midland, Texas 79702

10. Field and Pool, or Wildcat
Jalmat (Gas)

4. Location of Well Bottom Hole Location = Unit E, 1967 FNL & 711 FWL

UNIT LETTER E LOCATED 1720 FEET FROM THE North LINE AND 310 FEET FROM

THE West LINE OF SEC. 33 TWP. 24S RGE. 37E NMPM

11. County
Lea

15. Date Spudded 4-7-83	16. Date T.D. Reached 4-18-83	17. Date Compl. (Ready to Prod.) 4-21-83	18. Elevations (DF, RKB, RT, GR, etc.) 3262 GL	19. Elev. Casinghead 3262
20. Total Depth 3426 (3366)	21. Plug Back T.D. 3420 (3361)	22. If Multiple Compl., How Many -----	23. Intervals Drilled By Rotary Tools 0-3426	Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name
3067-3273 (3009-3220) W/21 Yates-Seven Rivers
Note: (True Vertical Depth)

25. Was Directional Survey Made
Yes

26. Type Electric and Other Logs Run
CDL-DSN-GR and Guard Forxo

27. Was Well Cored
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8	36.0	467	12 1/4	250 (Circ)	None
7	26.0	3426	8 3/4	700 (Circ)	None

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
21 Holes with one shot each at:				

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8	3397 (3338)	

31. Perforation Record (Interval, size and number) 3067 (3009)
3070 (3012), 3079 (3021), 3091 (3033), 3099 (3041), 3108 (3050), 3123 (3065), 3133 (3075), 3173 (3115), 3178 (3120), 3183 (3125), 3187 (3129), 3193 (3135), 3198 (3140), 3202 (3144), 3213 (3155), 3217 (3159), 3222 (3164), 3227 (3169), 3270 (3212), 3273 (3215)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
3067-3273 (3009-3220)	A/5500 15% MCA

33. PRODUCTION

Date First Production 4-21-83	Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing	Well Status (Prod. or Shut-in) Shut-in					
Date of Test 4-22-83	Hours Tested 24	Choke Size 18/64	Prod'n. For Test Period -----	Oil - Bbl. -----	Gas - MCF 112	Water - Bbl. 1	Gas - Oil Ratio -----
Flow Tubing Press. 45 psi	Casing Pressure 83 psi	Calculated 24-Hour Rate -----	Oil - Bbl. -----	Gas - MCF 112	Water - Bbl. 1	Oil Gravity - API (Corr.) -----	

34. Disposition of Gas: (Sold, used for fuel, vented, etc.)
Vented

Test Witnessed By
Harold Swain

35. List of Attachments
None

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Larry G. Murray TITLE Engineer DATE April 22, 1983



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

Doyle Hartman
COMPANY

Northshore Woolworth Well No. 6
WELL NAME

Lea County, New Mexico
LOCATION

JOB NUMBER
WT0483-G0189
WT0463-S0200

TYPE OF SURVEY
Gyroscopic Multi Shot
Magnetic Multi Shot

DATE
4/8/83
4/18/83

SURVEY BY
Gary DeSpain, Doug Jeffers

OFFICE
West Texas

DOYLE HARTMAN
NORTH SHORE WOOLWORTH WELL NO. 6
LEA COUNTY, NEW MEXICO BD1-271
4/8/83

EASTMAN WHIPSTOCK INC.
GYROSCOPIC MULTI SHOT SURVEY WT0483-G0189
SURVEYOR: GARY DESPAIN (0'-400')
MAGNETIC MULTI SHOT SURVEY WT0483-S0200
SURVEYOR: DOUG JEFFERS (400'-3420')

VERTICAL SECTION CALCULATED IN PLANE OF PROPOSAL
DIRECTION: S 54 DEG 1 MIN. E

Eastman

Whipstock

A PETROLANE COMPANY

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET	DOGLEG SEVERITY DG/100FT
0.	0 0	0	0.	0.00	0.00	0.00 0.00	0.00
50.	0 30	N 29 E	50.	50.00	-0.03	0.19 N 0.11 E	1.00
100.	0 30	N 62 W	50.	100.00	-0.34	0.57 N 0.01 W	1.43
150.	0 30	N 20 W	50.	150.00	-0.75	0.89 N 0.29 W	0.72
200.	0 30	N 47 W	50.	199.99	-1.16	1.25 N 0.52 W	0.47
250.	0 45	N 61 W	50.	249.99	-1.70	1.57 N 0.96 W	0.58
300.	0 45	N 52 W	50.	299.99	-2.35	1.93 N 1.51 W	0.24
350.	0 45	N 48 W	50.	349.98	-3.01	2.35 N 2.01 W	0.10
400.	0 45	N 44 W	50.	399.98	-3.66	2.80 N 2.48 W	0.10
454.	0 15	N 50 W	54.	453.98	-4.12	3.13 N 2.83 W	0.93
517.	2 0	S 35 E	63.	516.96	-4.29	2.55 N 3.45 W	3.56
581.	5 0	S 25 E	64.	580.83	-0.77	0.83 S 1.50 W	4.77
644.	8 0	S 30 E	63.	643.42	5.65	7.15 S 1.79 E	4.84
707.	10 0	S 47 E	63.	705.64	15.11	14.84 S 7.90 E	5.25
770.	12 30	S 50 E	63.	767.43	27.34	22.98 S 17.10 E	4.07
833.	13 0	S 63 E	63.	828.87	41.20	30.64 S 28.67 E	4.61
896.	13 45	S 69 E	63.	890.17	55.45	36.56 S 41.98 E	2.50
959.	15 30	S 72 E	63.	951.12	70.70	41.87 S 56.97 E	3.03
1022.	15 45	S 71 E	63.	1011.79	86.89	47.25 S 73.06 E	0.58
1085.	15 45	S 72 E	63.	1072.43	103.20	52.68 S 89.28 E	0.43
1148.	15 30	S 71 E	63.	1133.10	119.38	58.06 S 105.37 E	0.58
1212.	16 0	S 70 E	64.	1194.70	136.04	63.86 S 121.75 E	0.89
1275.	15 45	S 71 E	63.	1255.29	152.56	69.61 S 137.99 E	0.59
1338.	16 0	S 72 E	63.	1315.89	169.00	75.08 S 154.34 E	0.59
1401.	16 15	S 73 E	63.	1376.41	185.60	80.34 S 171.02 E	0.59
1464.	15 45	S 72 E	63.	1436.97	202.07	85.57 S 187.58 E	0.91
1527.	15 15	S 71 E	63.	1497.68	218.12	90.91 S 203.55 E	0.90
1590.	16 15	S 59 E	63.	1558.31	234.88	98.12 S 219.02 E	5.40
1653.	17 45	S 58 E	63.	1618.56	253.24	107.75 S 234.73 E	2.43
1716.	17 0	S 59 E	63.	1678.68	272.00	117.58 S 250.77 E	1.28

Eastman
Winstock
 ESTROLANS, NY

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET		DOGLEG SEVERITY DG/100FT
1779.	15 45	S 59 E	63.	1739.13	289.69	126.72 S	265.99 E	1.98
1843.	15 15	S 59 E	64.	1800.80	306.73	135.53 S	280.65 E	0.78
1906.	14 15	S 59 E	63.	1861.72	322.71	143.79 S	294.40 E	1.59
1969.	13 30	S 58 E	63.	1922.88	337.77	151.69 S	307.28 E	1.25
2032.	12 45	S 57 E	63.	1984.24	352.05	159.37 S	319.35 E	1.24
2095.	12 15	S 55 E	63.	2045.75	365.68	167.00 S	330.65 E	1.05
2158.	11 45	S 58 E	63.	2107.37	378.76	174.23 S	341.57 E	1.27
2221.	11 0	S 61 E	63.	2169.13	391.13	180.53 S	352.28 E	1.52
2284.	10 45	S 62 E	63.	2231.00	402.91	186.20 S	362.72 E	0.50
2347.	10 15	S 64 E	63.	2292.94	414.25	191.41 S	372.95 E	0.98
2410.	9 0	S 65 E	63.	2355.06	424.61	195.95 S	382.46 E	2.00
2474.	8 45	S 68 E	64.	2418.29	434.29	199.89 S	391.51 E	0.82
2537.	8 0	S 67 E	63.	2480.62	443.17	203.40 S	399.99 E	1.21
2600.	6 45	S 64 E	63.	2543.09	451.10	206.75 S	407.35 E	2.08
2663.	5 30	S 50 E	63.	2605.73	457.79	210.40 S	412.97 E	3.08
2726.	4 15	S 30 E	63.	2668.50	462.96	214.48 S	416.39 E	3.32
2789.	4 15	S 6 E	63.	2731.33	466.71	218.89 S	417.83 E	2.80
2852.	4 15	S 20 W	63.	2794.16	468.95	223.49 S	417.26 E	3.03
2915.	4 0	S 34 W	63.	2856.99	469.66	227.51 S	415.21 E	1.64
2978.	3 45	S 33 W	63.	2919.85	469.84	231.06 S	412.86 E	0.41
3041.	3 0	S 35 W	63.	2982.74	469.97	234.14 S	410.79 E	1.20
3105.	2 45	S 35 W	64.	3046.66	470.03	236.77 S	408.94 E	0.39
3168.	3 0	S 37 W	63.	3109.58	470.02	239.32 S	407.09 E	0.43
3231.	2 45	S 31 W	63.	3172.50	470.13	241.94 S	405.32 E	0.62
3294.	2 0	S 36 W	63.	3235.45	470.25	244.12 S	403.88 E	1.23
3357.	1 45	S 47 W	63.	3298.41	470.05	245.66 S	402.52 E	0.69
3420.	1 45	S 45 W	63.	3361.38	469.71	247.00 S	401.13 E	0.10

Eastman
 Weststock

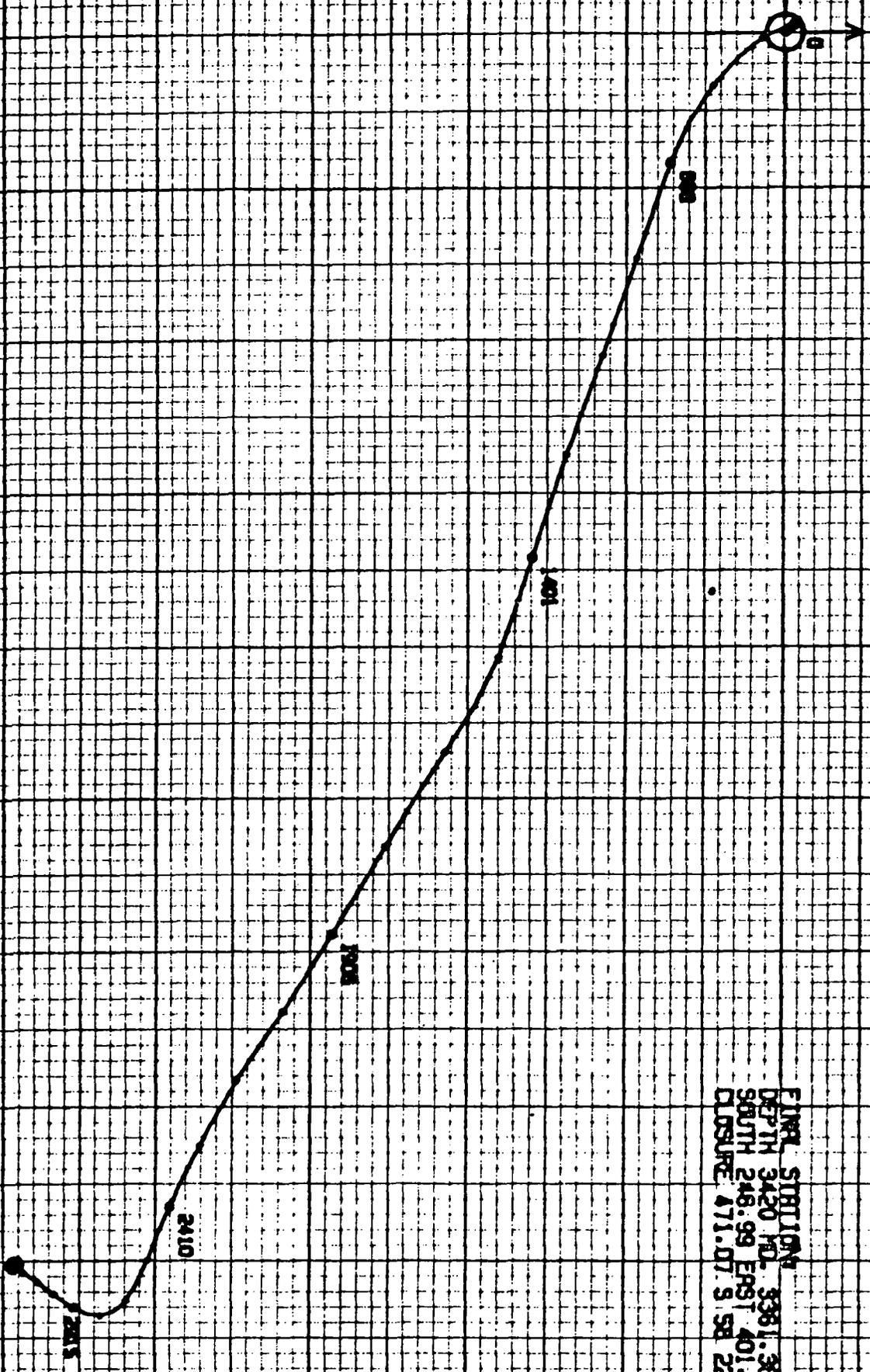
FINAL CLOSURE - DIRECTION: S 58 DEGS 23 MINS E
 DISTANCE: 471.08 FEET

BOYLE HERRING
NORTH SHORE LOG NORTH WELL NO. 6
ER COUNTY, NEW MEXICO
801-271

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

EASTMAN INSTRUMENT CO. INC.

FINAL STATION
DEPTH 3420 MD. 3381.38 TD
SOUTH 248.99 EAST 401.19
CLOSEURE 471.07 S. 58 22 39 E





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

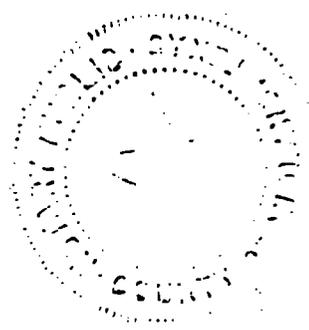
The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.

Troy Dwyer

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 G. Stinke
Notary Public in and for the
County of Midland, Texas
My commission expires 7/9/85





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

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, Doug Jeffers, in the employ of Eastman Whipstock, Inc., did on the days of April 18, 1983 thru April 18, 1983 conduct or supervise the taking of a Magnetic Multi Shot survey by the method of magnetic orientation from a depth of 400 feet to 3420 feet, with recordings of inclination and direction being obtained at approximate intervals of 93 feet.

This survey was conducted at the request of Doyle Hartman for their North Shore Woolworth #6, Lea 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.

Doug Jeffers
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.

Doyle Steinke

Before me, the undersigned authority, on this day personally appeared Doug Jeffers, 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

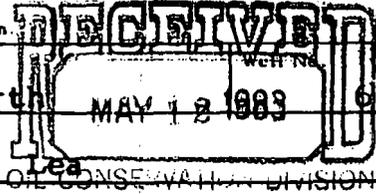
Doyle Steinke
Notary Public in and for the
County of Midland, Texas
My commission expires 7/9/85



NEW MEXICO OIL CONSERVATION COMMISS
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-107
Supersedes C-128
Effective 1-1-65

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



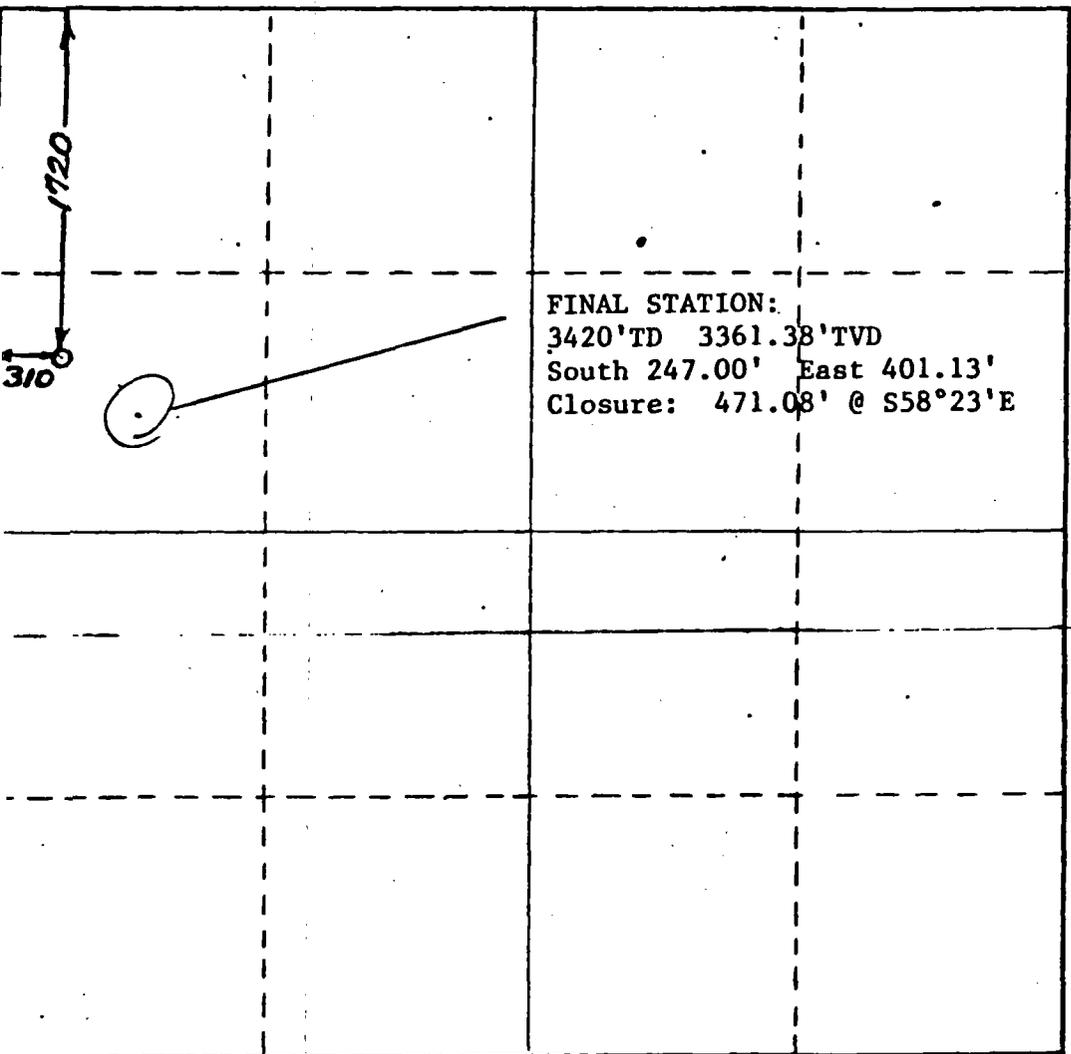
Operator Doyle Hartman		Lease Northshore-Woolworth			
Unit Letter E	Section 33	Township 24 South	Range 37 East	County	
Actual Footage Location of Well 1720 feet from the North line and 310 feet from the West line.					
Ground Level Elev. 3162.0	Producing Formation Yates-Seven Rivers		Pool Jalmat (Gas)	Dedicated Acreage: 160 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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?

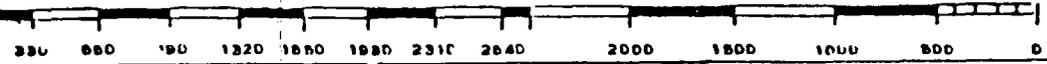
Yes No If answer is "yes," type of consolidation _____

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.



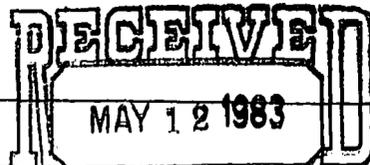
CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
<i>Larry A. Nermyr</i>	
Name	Larry A. Nermyr
Position	Engineer
Company	Doyle Hartman
Date	February 11, 1983
I hereby certify that the well location shown on this plat was 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.	
Date Surveyed	December 10, 1982
Registered Professional Engineer and/or Licensed Surveyor	<i>Truman Gaskin</i> Truman Gaskin
Certificate No.	2126



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TRANSPORTER	OIL GAS
OPERATOR	
PRODUCTION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
**REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS**

Form C-104
Supersedes Old C-104 and C-
Effective 1-1-65



Operator
Doyle Hartman

Address
Post Office Box 10426, Midland, Texas 79702

OIL CONSERVATION DIVISION
SANTA FE

Reason(s) for filing (Check proper box) Other (Please explain)

New Well Change in Transporter of: Oil Dry Gas

Recompletion Oil Casinghead Gas Condensate

Change in Ownership

If change of ownership give name and address of previous owner _____

DESCRIPTION OF WELL AND LEASE

Lease Name Northshore Woolworth	Well No. 6	Pool Name, including Formation Jalmat (Gas)	Kind of Lease State, Federal or Fee Fee	Lease No.
Location Bottom Hole Location = 1967 FNL & 711 FWL Section 33, T-24-S, R-37-E				
Unit Letter E ; 1720 Feet From The North Line and 310 Feet From The West				
Line of Section 33 Township 24S Range 37E , NMPM, Lea County				

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas Company	Post Office Box 1384, Jal, New Mexico 88252
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	No 4-27-83

If this production is commingled with that from any other lease or pool, give commingling order number: _____

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res't.	Diff. Res't.
		X	X					
Date Spudded 4-7-83	Date Compl. Ready to Prod. 4-21-83	Total Depth 3426 (3366 TVD)	P.B.T.D. 3420 (3361 TVD)					
Elevations (DF, RKB, RT, GR, etc.) 3262 GL	Name of Producing Formation Yate-Seven Rivers	Top Oil/Gas Pay 3067 (3009 TVD)	Tubing Depth 3397 (3338 TVD)					
Perforations 3067-3273 (3009-3220) Yates-Seven Rivers						Depth Casing Shoe 3426 (3366 TVD)		

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
12 1/4	9 5/8	467	250 (Circ)
8 3/4	7	3426 (3366 TVD)	700 (Circ)

TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top oil available for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D 112	Length of Test 24 Hr	Bbls. Condensate/MCF	Gravity of Condensate
Testing Method (pilot, back pr.) Orifice Tester	Tubing Pressure (shut-in) 45 psi	Casing Pressure (shut-in) 83 psi	Choke Size 18/64

CERTIFICATE OF COMPLIANCE

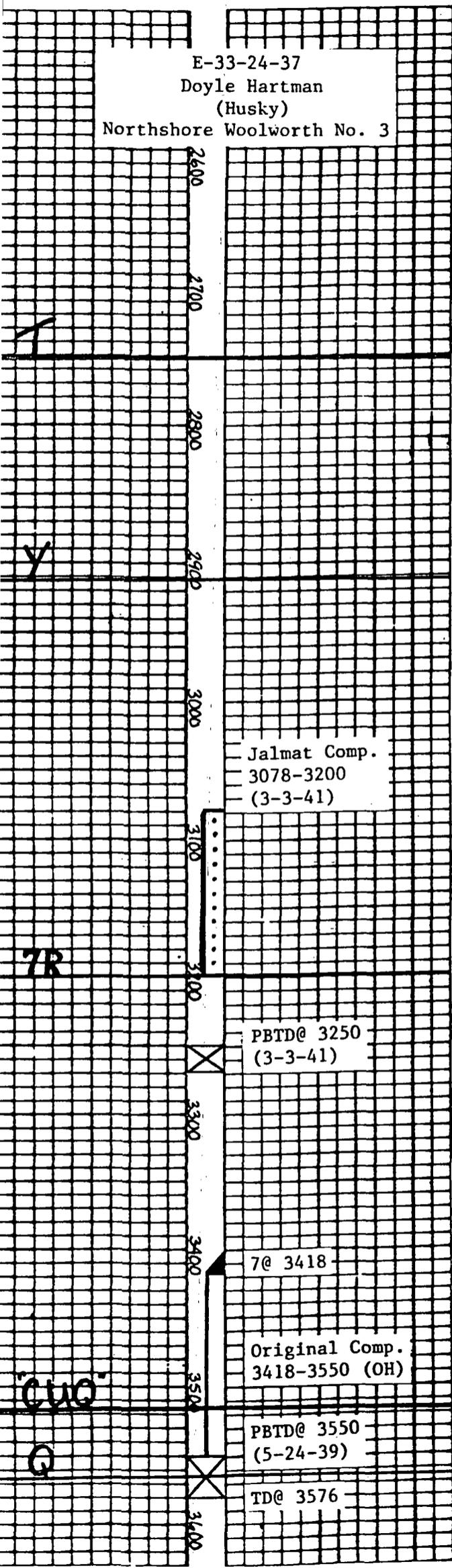
I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Larry G. Newman
(Signature)
ENGINEER
(Title)
APRIL 22, 1983
(Date)

OIL CONSERVATION COMMISSION

APPROVED _____, 19____
BY _____
TITLE _____

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviatoric tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of conditions.



COMPANY Doyle Hartman
 (Northshore/Husky)

WELL Northshore Woolworth No. 3

FIELD Jalmat (Gas)

LOCATION 2310 FNL & 330 FWL (E)
 Section 33, T-24-S, R-37-E
 (24-37-33-E)

COUNTY Lea

STATE New Mexico

ELEVATIONS: KB _____
 DF 3273
 GL _____

COMPLETION RECORD

SPUD DATE 2-26-39 COMP. DATE 5-24-39

TD 3576 PBTDE 3550

CASING RECORD 9 5/8 @ 1218 w/250
 7 @ 3418 w/250

PERFORATING RECORD OH: 3418-3550

STIMULATION Shot w/320 quarts
 (3475-3570)
 T/P @ 3531

IP IPF= 60 BOPD

GOR GR

TP CP

CHOKE TUBING @

REMARKS 3-3-41: PBTDE @ 3250. Perf
 3078-3200 (Yates). F/8000 MCFPD.
 Recompleted to gas.

Final Langmat Cum: 24.0 MBO

2-83 Cum Prod: 7485 MMCF

1982 Avg. Prod: 7 MCFPD

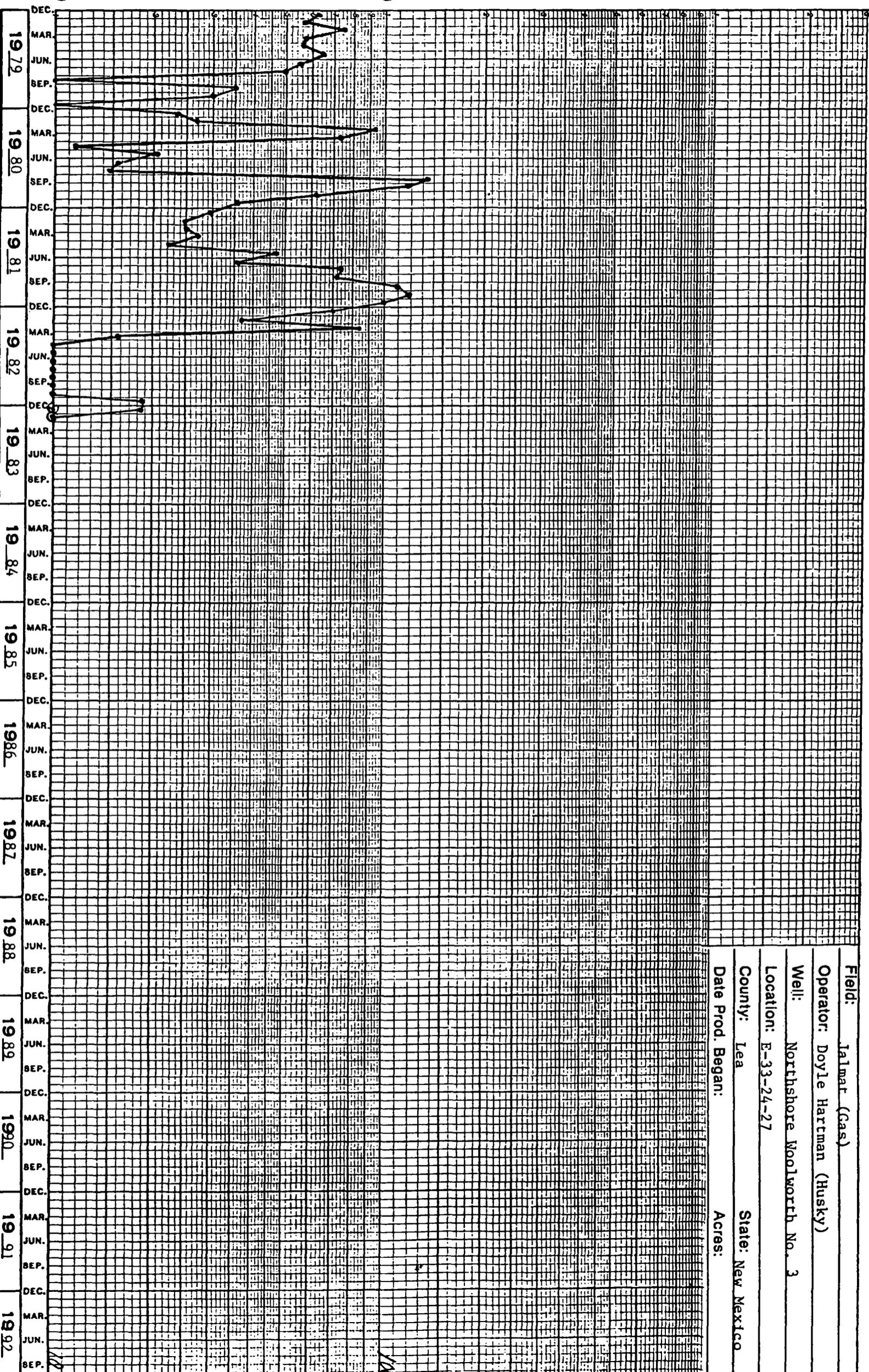
Pursuant to NMOCD Order No. R-7247, well disconnected from El Paso Natural Gas Company's Gathering System on April 28, 1983.

Gas Production - MCF/month

10000

1000

100



Field: Jalmar (Gas)
 Operator: Doyle Hartman (Husky)
 Well: Northshore Woolworth No. 3
 Location: E-33-24-27
 County: Lea
 State: New Mexico
 Date Prod. Began: Acres:

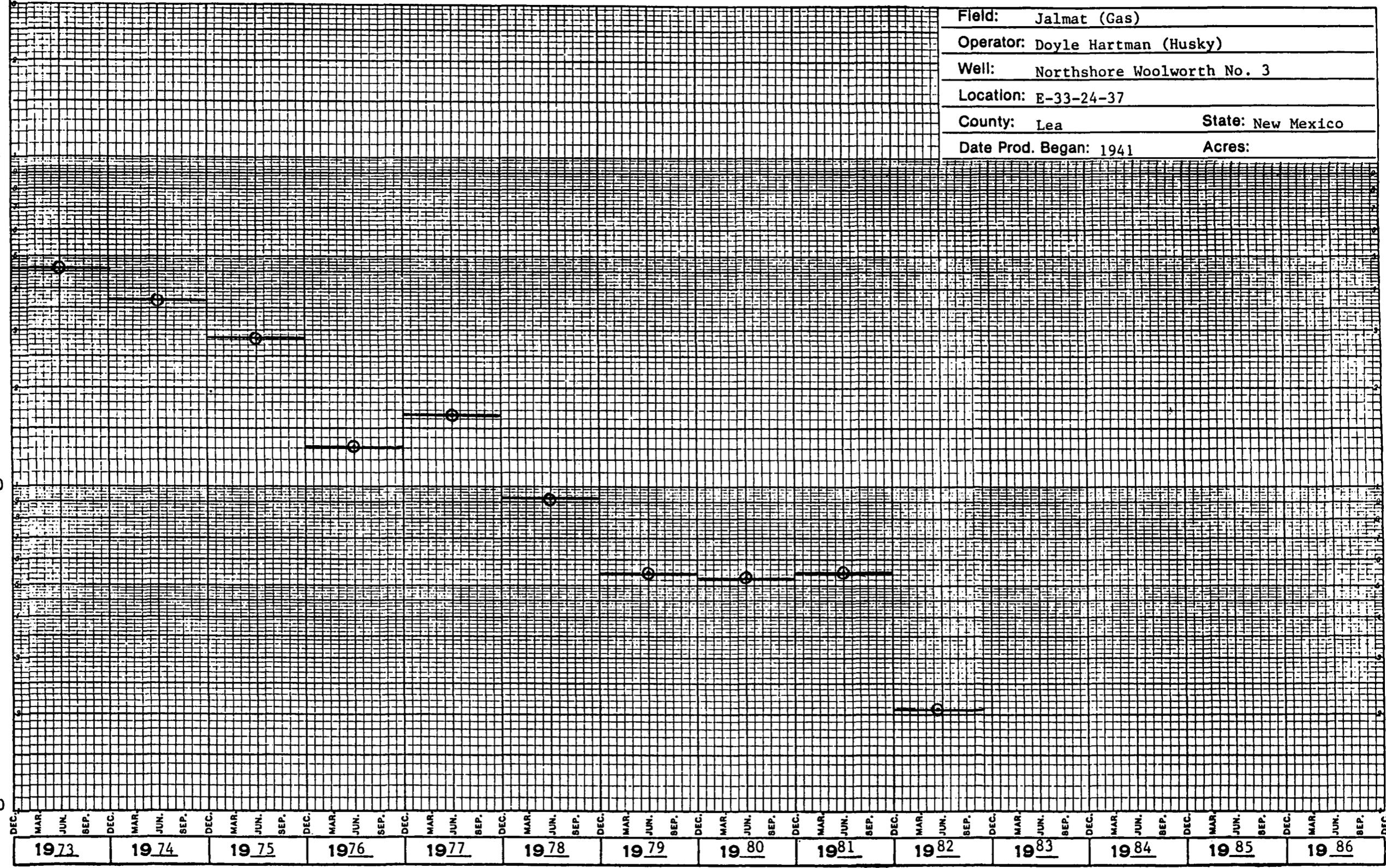
Gas Production - MCF/month

Field: Jalmat (Gas)
 Operator: Doyle Hartman (Husky)
 Well: Northshore Woolworth No. 3
 Location: E-33-24-37
 County: Lea State: New Mexico
 Date Prod. Began: 1941 Acres:

10000

1000

100

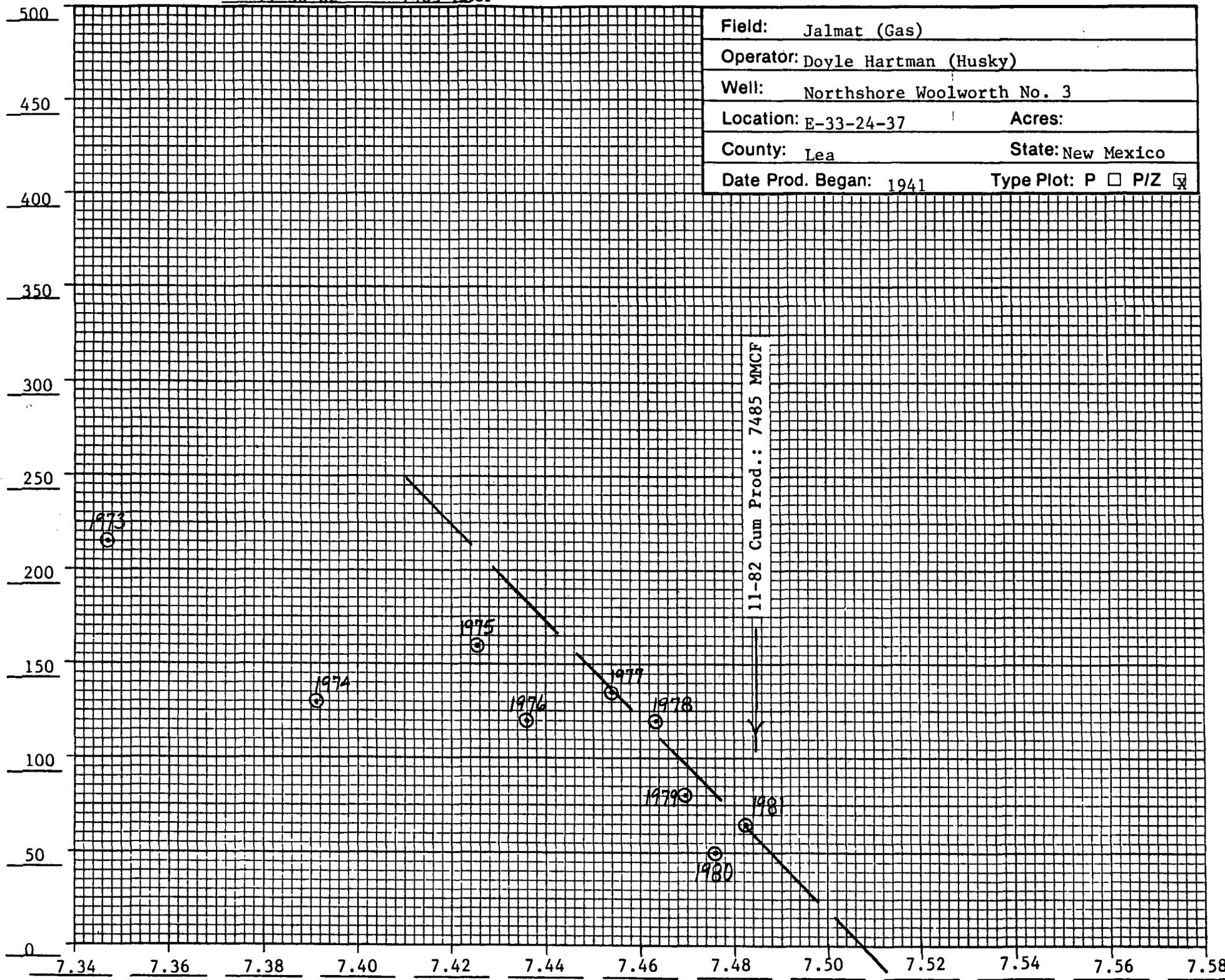


1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986

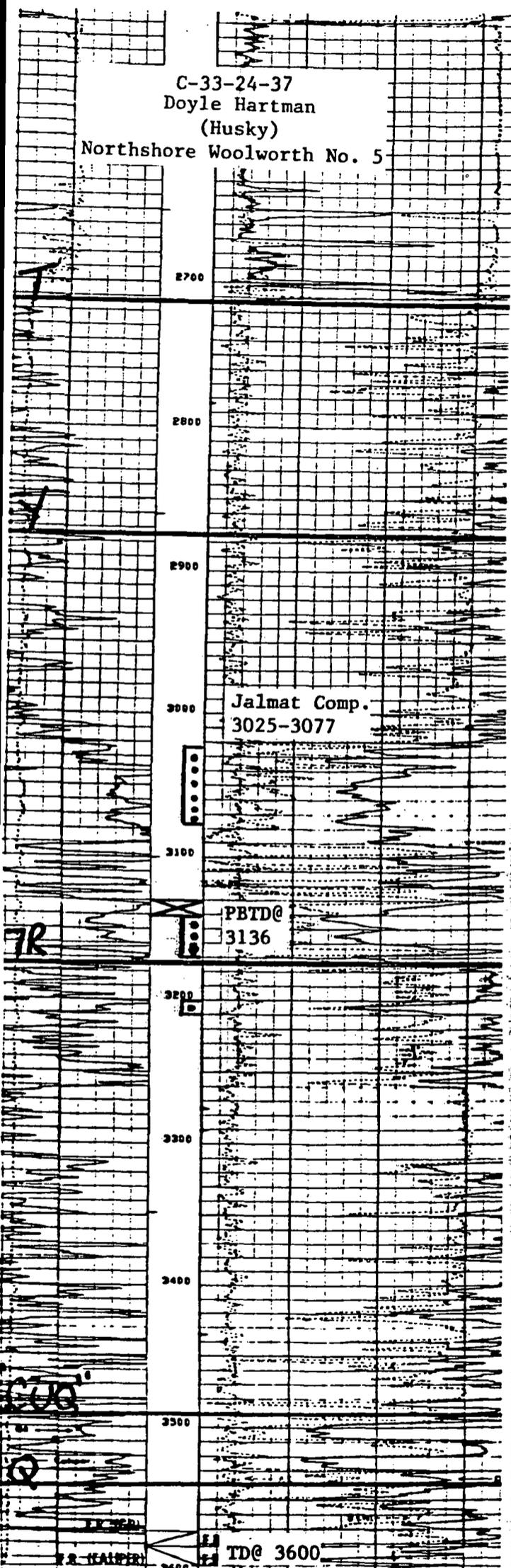
11-30-82 CUM: 7485 MMCF

Field: Jalmat (Gas)	
Operator: Doyle Hartman (Husky)	
Well: Northshore Woolworth No. 3	
Location: E-33-24-37	Acres:
County: Lea	State: New Mexico
Date Prod. Began: 1941	Type Plot: P <input type="checkbox"/> P/Z <input checked="" type="checkbox"/>

Pressure or P/Z - (psia)



COMPANY Doyle Hartman
 (Husky)
 WELL Northshore Woolworth No. 5
 FIELD Jalmat
 LOCATION 730 FNL & 1980 FWL (C)
Section 33, T-24-S, R-37-E
(24-37-33-C)
 COUNTY Lea
 STATE New Mexico
 ELEVATIONS: KB 3268
 DF _____
 GL 3258



COMPLETION RECORD

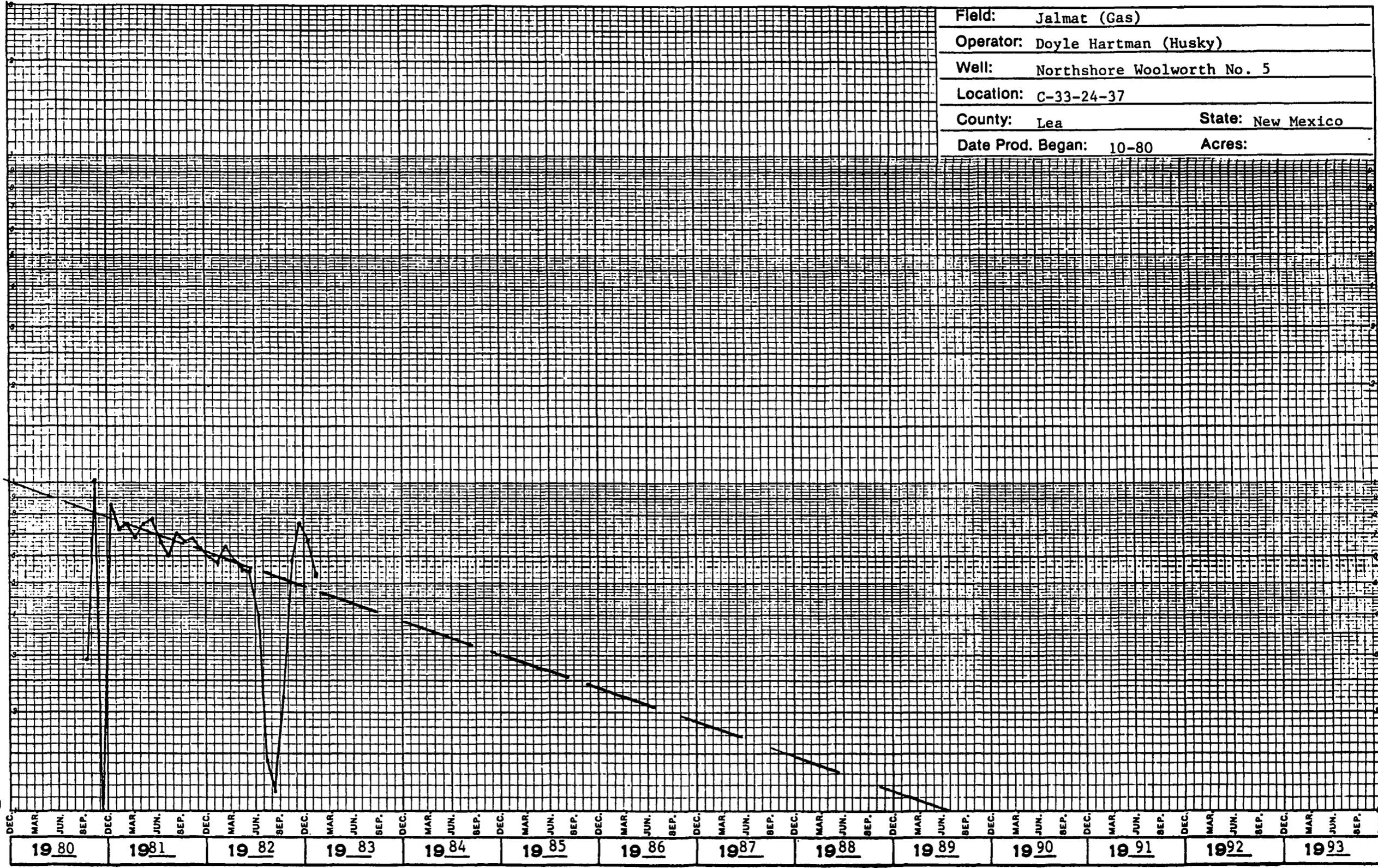
SPUD DATE 3-7-80 COMP. DATE 6-12-80
 TD 3600 PBT 3136
 CASING RECORD 8 5/8 @ 1203 w/600
5 1/2 @ 3598 w/1026
 PERFORATING RECORD Perf: 3025-3077 w/17*
 STIMULATION A/2800
SWF/60,000 + 60,000
 IP IPF= 50 MCFPD
 GOR _____ GR _____
 TP 90 CP 150
 CHOKE 16/64 TUBING 2 3/8 @ 3069
 REMARKS
*4-12-80: Perf 3141-3204 w/4.
A/1200 and tested. Set CIBP @
3136. Perf 3025-3077 w/17.
2-83 Cum Prod: 16.5 MMCF
1982 Avg. Prod: 15.1 MCFPD

Gas Production - MCF/month

10000

1000

100



Field:	Jalmat (Gas)		
Operator:	Doyle Hartman (Husky)		
Well:	Northshore Woolworth No. 5		
Location:	C-33-24-37		
County:	Lea	State:	New Mexico
Date Prod. Began:	10-80	Acres:	