

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. B. M. Justis No. 10  
Bottom-Hole  
Location: Unit H Sec. 19 Twp. 25-S Rng. 37-E Cty. Lea County  
This well was directionally drilled, surface location is Unit E, Sec. 20, T-25-S

II.

R-37-E, Lea County.

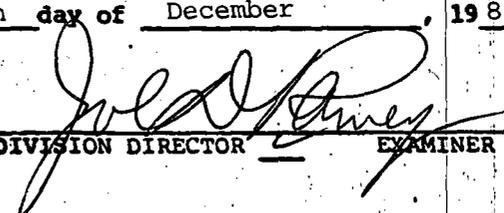
THE DIVISION FINDS:

- (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 (Gas) Pool Pool, and the standard spacing unit in said pool is 640 acres.
- (4) That a 80-acre proration unit comprising the E/2 NE/2 of Sec. 19, Twp. 25-S, Rng. 37-E, is currently dedicated to the B. M. Justis No. 1 located in Unit H of said section.
- (5) That this proration unit is ( ) standard (X) nonstandard; if nonstandard, said unit was previously approved by Order No. R-6821.
- (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 95,500 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 30th day of December, 1981.

  
DIVISION DIRECTOR EXAMINER

\*\* Order No. R-6821 approved for directionally drilling, non-standard proration unit, an unorthodox location, and simultaneous dedication for the B. M. Justis No. 10.

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

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

ADMINISTRATIVE ORDER

NFL 33

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 Royal Hartman Well Name and No. B.M. Justis No. 10

Location: Unit H Sec. 19 Twp. 25-S Rng. 37E Cty. Lea

II.

*This well is directionally drilled, surface location is Unit E, Sec. 20, T-25-S, R-37E, Lea County.*

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 (Gas) Pool, and the standard spacing unit in said pool is 640 acres.

(4) That a 80-acre proration unit comprising the E/2 NE/4 of Sec. 19, Twp. 25-S, Rng. 37-E, is currently dedicated to the B.M. Justis No. 1 located in Unit H of said section.

(5) That this proration unit is ( ) standard (X) nonstandard; if nonstandard, said unit was previously approved by Order No. R-6821.

(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 95,500 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 \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_.

DIVISION DIRECTOR \_\_\_\_\_ EXAMINER \_\_\_\_\_

\* Order No. R-6821 approved for directional drilling, a non-standard proration unit, an unorthodox location, and simultaneous dedication for the B.M. Justis No. 10.

WILLIAM P. AYCOCK & ASSOCIATES, INC.

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

December 14, 1981

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

Attention Mr. R. L. Stamets, Technical Support Chief

Subject: Administrative Application for  
Infill Well Finding for Doyle  
Hartman's Justis No. 10 Well,  
Section 19, Twp. 25S, Range 37E

1981 → @ 1935' FNL & 439' FEL (Bottom *Unit H*  
Hole Location), Jalmat Pool,  
Lea County, New Mexico

Gentlemen:

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

Rule 5: Attached are copies of the Forms C-101 and C-102, as approved by the Hobbs District

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

Rule 7: The Division Order approving the non-standard proration unit is R-6821, a copy of which is attached hereto.

Rule 8: See attached Table No. 1, "Summary of Required Information, Rule 8, Exhibit "A", Order R-6013-A" for "a." through "f.". Also required for 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." As of August 31, 1981 (the latest date for which production data are available), the pre-existing Doyle Hartman B. M. Justis No. 1 (Bettis, Boyle & Stovall B. M. Justis "A" No. 1) had produced an accumulative gas



Volume of 8201.9 MMCF, Experience with costs of operation in the Jalmat Pool indicates that economic limits of production are approximately 500 MCF/month, so this well is producing at about 22 percent of the experience economic limit; accordingly, the pre-existing well has no economic gas reserves remaining to be produced. If this well were produced to an unrealistically and uneconomical zero rate economic limit of production from August 31, 1981, the estimated remaining reserves would be only 4.4 MMCF. Therefore, any gas reserves remaining in the Jalmat Pool reservoirs beneath the 40-acre proration unit assigned to this well would ostensibly not have been produced unless the infill well Doyle Hartman B. M. Justis No. 10 had been drilled. The B. M. Justis No. 10 has an 80-acre Jalmat proration unit assigned to it, consisting of the simultaneously dedicated SE/4, NE/4 Section 19, Twp. 25S, Range 37E (originally assigned to the Doyle Hartman B. M. Justis No. 1) and the previously undedicated NE/4, NE/4 Section 19, Twp. 25 S, Range 37E.

Rule 9:

- Sec. a. Requires that a formation structure map be submitted; attached is such a map, originally submitted as an exhibit in Case 7408, on November 4, 1981.
- Sec. 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 expected for the Doyle Hartman B. M. Justis No. 10 is approximately 96 MMCF. The increased ultimate recovery is then the difference in this estimated ultimate recovery and the remaining recovery for the B. M. Justis No. 1. Since, as has been previously discussed in reply to the requirements of Rule 8.g., there are no remaining economical reserves for the B. M. Justis No. 1, all of the 96 MMCF constitute increased recovery. The estimate of ultimate gas recovery for the Hartman B. M. Justis No. 10 was accomplished as follows:

A = 80 Acres  
 h = 39'

- (1) Well logs for the B. M. Justis No. 10 were analyzed, resulting in the following:
- 1 Mean Porosity, Fcn. of Bulk Vol.  $0.157 = \phi$
  - 2 Mean Connate Water Saturation, Fcn of Net Effective Pore Volume  $0.451 = S_w$
  - 3 Net Effective Pay Thickness, Ft. 39.

Since the gross pay thickness constituting potential gas reservoir for the B. M. Justis No. 10 is 73 feet, the above represents a net effective pay to gross pay ratio of approximately 53 percent.

- (2) The production tests for the B. M. Justis No. 10 performed on December 8-10, 1981, were analyzed, resulting in the following:

- 4 Stabilized Deliverability Coefficient, MCF/day per psia<sup>2</sup> 0.009760
- 5 Initial Stabilized Wellhead Shut-in Pressure (Pc), psia 168.2
- 6 Initial Gas Formation Volume Factor scf/rcf 11.43

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

- Original Gas-in-Place MMCF/acre  
 MMCF/Acre  $1.674 = 43560 \text{ (5) } (10) (1 - 0.451) (6)$   
 MMCF/80 Acres  $133.9 \times 80$
- Estimated Gas Recovery Factor, Fcn. of Original Gas-in-Place 0.713 *estimated*
- Estimated Ultimate Gas Recovery, MMCF per 80 Acres  $95.5 = \text{Original Gas-in-place, MMCF/80 Acres} \times F_3 = 133.9 \times 0.713$

Sec. c. Other supporting data submitted include the following, some of which were incorporated into exhibits which were presented on November 4, 1981, Case 7408:

Cross-Sections A-A', B-B' and C-C'

Tabulation of Pertinent Well Information

Gas Production History Tabulation and Graph for Doyle Hartman B. M. Justis No. 1 (the pre-existing well)

*Pore Volume = 21.885 x 10<sup>6</sup> cu ft*  
*GI = 2258 MMCF*  
*Given*

*Given*

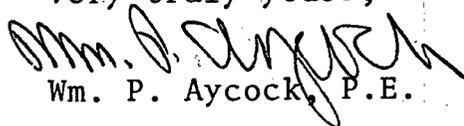
Complete N.M.O.C.D. Forms on file for both  
the Pre-existing Hartman B. M. Justis No. 1  
and the Infill Hartman B. M. Justis No. 10

Eastman Whipstock Report of Subsurface  
Directional Survey, Hartman B. M. Justis  
No. 10

New Mexico Oil Conservation Division Order  
No. R-6821

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/bw

Attachments

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 B. M. JUSTIS NO. 1</u>	<u>INFILL WELL DOYLE HARTMAN B. M. JUSTIS NO. 10</u>
a.	Lease Name and Well Location	B. M. Justis 19(H)-25S-37E (1980' FNL & 660' FEL)	B. M. Justis 19(H)-25S-37E Bottom Hole Location (1935' FNL & 439' FEL) Surface Location (1940' FNL & 120' FWL)
b.	Spud Date	March 5, 1931	November 20, 1981
c.	Completion Date	June 2, 1931	November 30, 1981
d.	Mechanical Problems	None of Record	Nothing Beyond Routine for a Deviated Well
e.	Current Rate of Production	August 1981 Mean: 3.6 MCF/day and no oil	12-11-81: 196 MCF/day
f.	Date of Plug and Abandonment	Still Producing: Jalmat (Oil)	New Well: Jalmat (Gas)

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
DIVISION FOR THE PURPOSE OF  
CONSIDERING:

CASE No. 7408  
Order No. R-6821

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

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on November 4, 1981, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 13th day of November, 1981, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Doyle Hartman, seeks authority to directionally drill his Justis Well No. 10, the surface location of which is 1940 feet from the North line and 120 feet from the West line of Section 20, Township 25 South, Range 37 East, in such a manner as to bottom said well in the Jalmat Gas Pool at an unorthodox location within 100 feet of a point 1989 feet from the North line and 440 feet from the East line of Section 19, Township 25 South, Range 37 East.
- (3) That a well at said unorthodox location will better enable applicant to produce the gas underlying the proration unit.
- (4) That no offset operator objected to the proposed unorthodox location.
- (5) That the applicant further proposes to simultaneously dedicate said well and the Bettis, Boyle and Stovall Justis Well

No. 1 to an 80-acre non-standard proration unit comprising the E/2 NE/4 of said Section 19.

(6) That the applicant should be required to determine the subsurface location of the bottom of the hole by means of a continuous multi-shot directional survey conducted subsequent to said directional drilling, if said well is to be completed as a producing well.

(7) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the subject pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

(8) That the application should be approved.

IT IS THEREFORE ORDERED:

(1) That the applicant, Doyle Hartman, is hereby authorized to directionally drill his Justis Well No. 10, the surface location of which is 1940 feet from the North line and 120 feet from the West line of Section 20, Township 25 South, Range 37 East, in such a manner as to bottom said well in the Jalmat Gas Pool at an unorthodox location within 100 feet of a point 1989 feet from the North line and 440 feet from the East line of Section 19, Township 25 South, Range 37 East.

(2) That approval is hereby given to simultaneously dedicate said well and the Bettis, Boyle and Stovall Justis Well No. 1 to an 80-acre non-standard proration unit comprising the E/2 NE/4 of said Section 19.

PROVIDED HOWEVER, that subsequent to the above described directional drilling, should said well be a producer, a continuous multi-shot directional survey shall be made of the wellbore from total depth to the kick-off point with shot points not more than 100 feet apart; that the operator shall cause the surveying company to forward a copy of the survey report directly to the Santa Fe office of the Division, P. O. Box 2088, Santa Fe, New Mexico, and that the operator shall notify the Division's Hobbs District Office of the date and time said survey is to be commenced.

(3) That Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths, and the bottom hole location of the well.

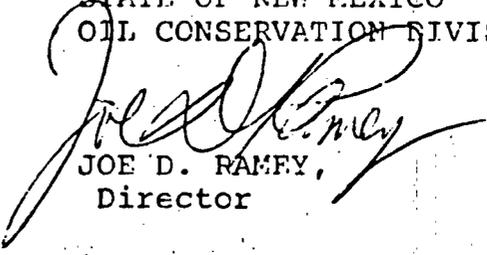
-3-

Case No. 7408  
Order No. R-6821

(4) 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 the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
JOE D. RAMSEY,  
Director

S E A L

30-025-27630

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

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101  
Revised 1-1-65

5A. Indicate Type of Lease  
STATE  FEE

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

a. Type of Work

b. Type of Well  
 DRILL  DEEPEN  PLUG BACK   
 OIL WELL  GAS WELL  OTHER   
 SINGLE ZONE  MULTIPLE ZONE

7. Unit Agreement Name

8. Form or Lease Name  
B. M. Justis

c. Name of Operator  
Doyle Hartman

9. Well No.  
10

d. Address of Operator  
P.O. Box 10426 Midland, Texas 79702

10. Field and Pool, or Well Unit  
Jalmat

e. Location of Well  
 UNIT LETTER E LOCATED 1940 FEET FROM THE North LINE  
120 FEET FROM THE West LINE OF SEC. 20 TWP. 25S RGE. 37E NADEN

11. County  
Lea

19. Proposed Depth 3200 TVD	19A. Formation Yates	20. Type of C.T. Rotary
21A. Unit & Pattern Plug Bond Multi-well approved	21B. Drilling Contractor Kenai	22. Approx. Date Work will start November 1981

23. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
14 3/4	10 3/4	40.50	600	600	Surface
8 3/4	7	23.00	3200 TVD	600	Surface

We propose to drill an infill Jalmat (Yates) well with the bottom hole location 1989' FNL and 440' FEL of Section 19, T-25-S, R-37-E. The surface at this location is occupied by houses. We propose to locate the rig on a vacant lot 1940 FNL and 120 FWL of Section 20, T-25-S, R-37-E and deviate the hole to bottom hole location 1989 FNL and 440 FEL of Section 19, T-25-S, R-37-E at a true vertical depth of 3200' GL. The total depth of the well will be 3200' true vertical depth and will be located 1989' FNL and 440 FEL of Section 19, T-25-S, R-37-E. A directional survey of the entire well bore will be made when total depth is reached. A hearing was held November 4, 1981 for approval to deviate this well. From the base of the surface pipe through the running of production casing, the well will be equipped with a 3000-psi double ram BOP system.

- NOTE: (1) Any gas produced from the proposed well has previously been dedicated to El Paso Natural Gas Company.  
 (2) The proposed well will be the second well on the existing proration unit consisting of the E/2 NE/4 of Section 19, and will share an allowable with the B.M. Justis No. 1

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 Harry A. Norman Title Engineer Date November 5, 1981

(This space for State Use)

APPROVED BY [Signature] TITLE NOV 18 1981 DATE NOV 16 1981

CONDITIONS OF APPROVAL, IF ANY:

APPROVED FOR 180 PERIOD 5/16/82 UNLESS INDICATED OTHERWISE

NEW 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 <b>Doyle Hartman</b>		Lease <b>B.M. Justis</b>		Well No. <b>10</b>
Unit Letter <b>E</b>	Section <b>20</b>	Township <b>25 South</b>	Range <b>37 East</b>	County <b>Lea</b>

Actual Surface Location of Well:  
**1940** feet from the **North** line and **120** feet from the **West** line

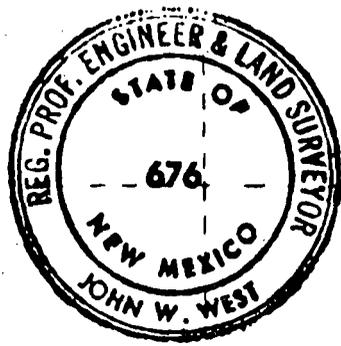
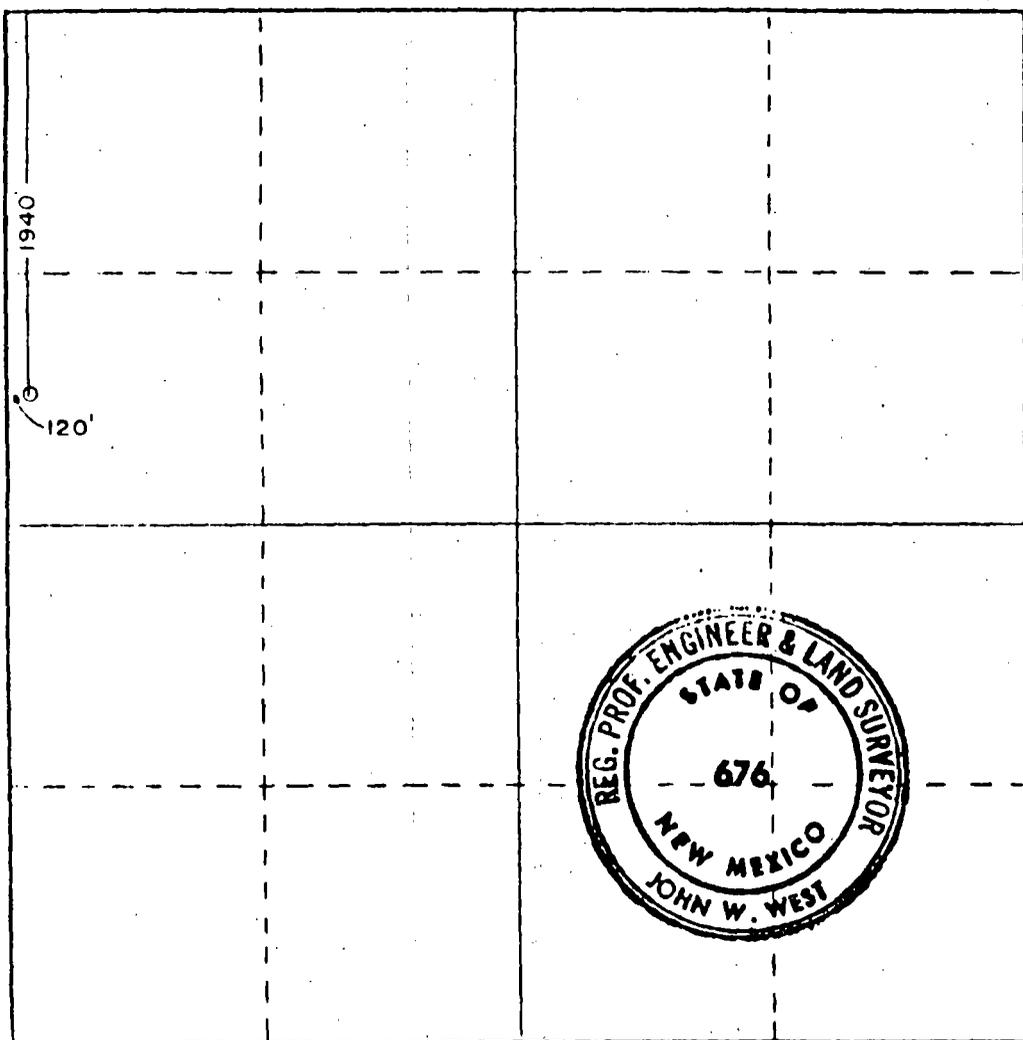
Ground Level Elev. <b>3067.5'</b>	Producing Formation <b>Yates-Seven Rivers</b>	Pool <b>Jalpat (Gas)</b>	Dedicated Acreage <b>80</b> Acres
--------------------------------------	--	-----------------------------	--------------------------------------

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.  
See Attached C-102
- 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.

Name <i>Larry G. Nemy</i>
Position <b>Engineer</b>
Company <b>DOYLE HARTMAN</b>
Date <b>Nov 2, 1981</b>

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.

**OCT 23 1981**

Date Surveyed <b>Oct. 20, 1981</b>
Registered Professional Engineer and Land Surveyor

*John W. West*  
 Certificate No. **JOHN W. WEST 676**  
**PATRICK A ROMERO 6693**  
**Ronald J. Eidson 3239**

NEW 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.

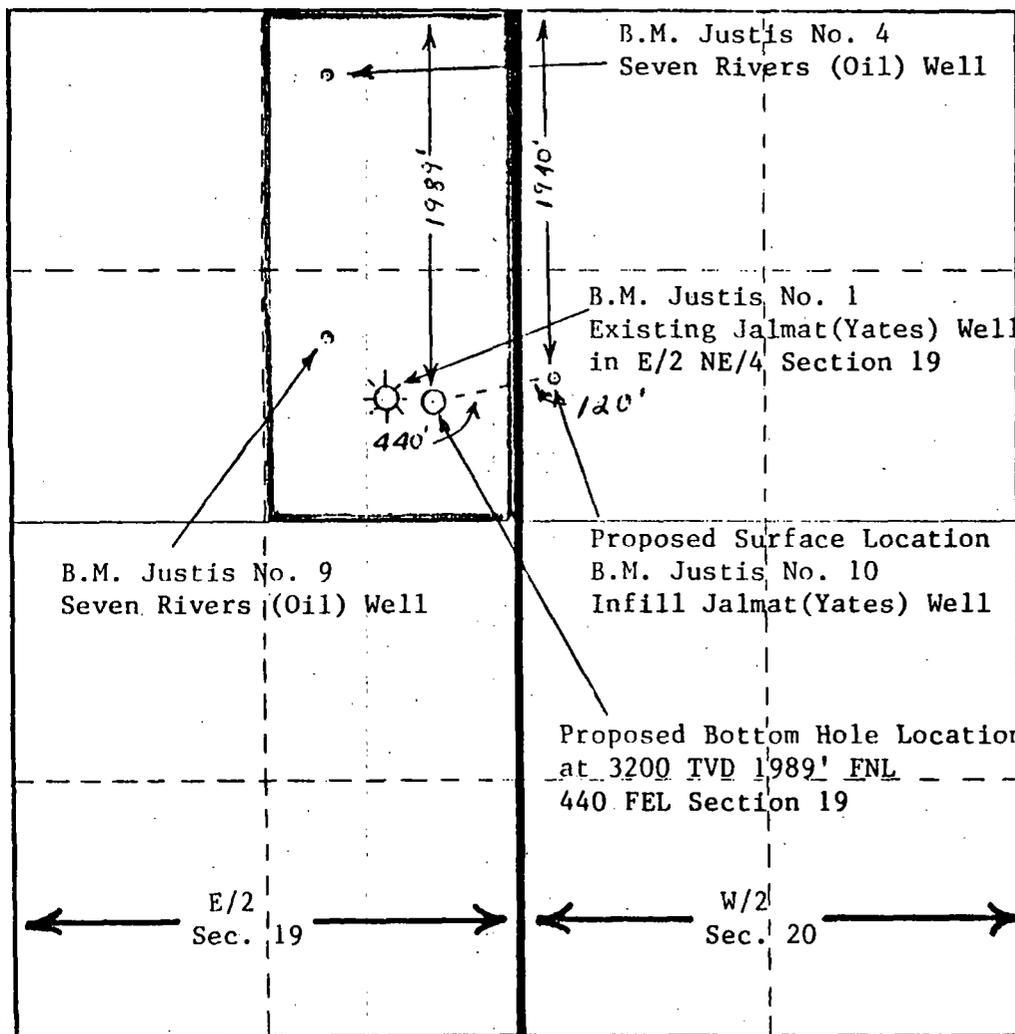
Operator <b>Doyle Hartman</b>		Lease <b>B. M. Justis</b>		Well No. <b>10</b>
Unit Letter <b>E</b>	Section <b>19 &amp; 20</b>	Township <b>25 South</b>	Range <b>37 East</b>	County <b>Lea</b>
Actual Footage Location of Well: * <b>1989</b> feet from the <b>North</b> <b>440</b> feet from the <b>East</b> <b>line of Sec. 19</b>				
Ground Level Elev.	Producing Formation <b>Yates-Seven Rivers</b>	Pool <b>Jalmat (Gas)</b>	Dedicated Acreage: <b>80</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.  
See attached C-102.
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. \* Bottom hole location at 3200 feet TVD.



**CERTIFICATION**

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

Name  
*Larry P. Nemy*  
Profession  
**Engineer**  
Company  
**Doyle Hartman**  
Date  
**November 2, 1981**

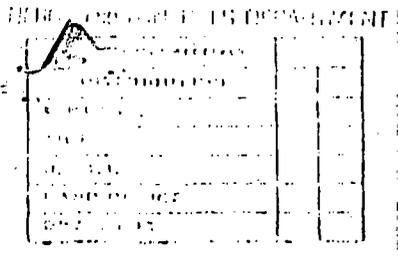
*I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.*

Date Surveyed  
Registered Professional Engineer and/or Land Surveyor

Certificate No.







**OIL CONSERVATION DIVISION**  
 P. O. BOX 2048  
 ALBUQUERQUE, NEW MEXICO 87501

Form O-101  
 Revised 11-1-7

State of New Mexico  
 State Oil & Gas Lease No. [ ]  
 [X]

**SUMMARY NOTICES AND REPORTS ON WELLS**

DO NOT USE THIS FORM FOR A WELL WHICH IS BEING PRODUCED FROM A DIFFERENT RESERVOIR.  
 IT IS FOR THE USE OF A WELL WHICH IS BEING PRODUCED FROM A DIFFERENT RESERVOIR.

WELL  OR  OTHER

**Doyle Hartman**  
 Address of Operator  
**P. O. Box 10426, Midland, Texas 79702**  
 Location of Well

**B. M. Justis**  
 Well No.

**10**

UNIT LEASED **E 1940** FEET FROM THE **North** LINE AND **120** FEET FROM  
 THE **West** LINE OF SECTION **20** TOWNSHIP **25S** RANGE **37E**

**Jalmat (Gas)**

15. Estimated Production (Show whether DE, RE, GR, etc.)  
**3067.5 G.L.**

Locality  
**Lea**

Check appropriate box to indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

REPAIRS/REMEDIAL WORK   
 TEMPORARILY ABANDON   
 PULL OR ALTER CASING   
 OTHER

PLUG AND ABANDON   
 CHANGE PLUGS   
 OTHER

REMEDIAL WORK   
 COMMENCE DRILLING OPER.   
 CASING TEST AND CEMENT JOBS   
 OTHER

ALTERING CASING   
 PLUG AND ABANDONMENT

16. Describe in brief the completed operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work.) SEE RULE 1103.

Reached total depth of 3273'. Ran 74 joints (3274') of 7" OD, 23 lb/ft, J-55, ST&C casing and landed at 3273' RKB. Cemented casing with 300 sx of API Class-C cement containing 3% Econolite and 1/4 lb/sx floreal followed by 250 sx of a 50-50 blend of API Class-C cement and Pozmix "A" containing 18% salt and 1/4 lb/sx floreal. Plug down at 1:30 p.m. CST 12-01-81. Circulated 45 sx of excess cement to pit. Pressure tested casing to 1600 psi. Pressure held okay.

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

SIGNED Michelle Hernandez TITLE Administrative Assistant

DEC 9 1981  
 DATE 12-02-81

APPROVED BY Les Clements TITLE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

DATE \_\_\_\_\_



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

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

Form O-105  
Revised 11-64

1. Well Site Type of Lease  
State    
Date of Oil & Gas Lease Exp.

2. TYPE OF WELL

OIL WELL  GAS WELL  OTHER   
TYPE OF COMPLETION  
NEW WELL  WORK OVER  DEEPEN  FLAG BACK  REFR.  OTHER

3. Well Agreement Name

4. Name of Lease Owner

B. M. Justis

5. Well No.

10

6. Well Name (If Well, or Wildcat)

Jalmit (Gas)

7. Name of Operator

Doyle Hartman

8. Address of Operator

P. O. Box 10426 Midland, Texas 79702

9. Location of Well

Bottom hole location = Unit H, 1935' FNL and 439' FEL  
Section 19, T-25-S, R-37-E.

UNIT LETTER **E** LOCATED **1940** FEET FROM THE **North** LINE AND **120** FEET FROM

THE **West** LINE OF SEC. **20** TWP. **25S** R. **37E**

10. Name of Lessee

Lea

11. Date of Completion  
12. Date of Production (Ready to Prod.)  
13. Flow Rate (DPS, FKB, RT, GR, etc.)  
14. Flow Rate (Gals./Day)

11-20-81

11-30-81

12-7-81

3067.5 GL

3068

15. Total Depth  
16. True Vertical Depth  
17. Interval (Ready to Prod.)  
18. Intervals Filled by  
19. Intervals Filled by  
20. Cable Tools

3273 (3203.1)

3262 (3192.2)

0-3273

21. True Vertical Interval (TVD) - Interval between Top of Well, Flow

2802-2901 (2739.9-2835.9) w/17 (Yates)

Note: (True vertical depth)

22. Was Well Cured

Yes

23. Type of Completion and Method of Completion

CDL-DSN-GR and Guard Forxo

24. Was Well Cured

No

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

CASING SIZE	WEIGHT LB. FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10 3/4	40.5	614(614)	14 3/4	600 (circ)	None
7	23.0	3273(3203.1)	8 3/4	550 (circ)	None

26. LINER RECORD

SIZE	TOP	BOTTOM	BACKS CEMENT	SCREEN	SIZE	DEPTH FT.	PACKER SET
					2 3/8	3150(3081.3)	

17 holes with one shot each at: 2802(2739.9),

2809(2746.7), 2814(2751.5), 2819(2756.3),  
2825(2762.1), 2829(2765.9), 2833(2769.8),  
2843(2779.4), 2848(2784.2), 2853(2789.1),  
2858(2793.9), 2863(2798.7), 2870(2805.5),  
2875(2810.4), 2893(2828.1), 2897(2832.0),  
2901(2835.9).

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
2802-2901 (2739.9-2835.9)	A/5500 15% MCA

28. PRODUCTION

Date of Production	Production Method (Lifting, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)
12-7-81	Pumping	Shut-in
12-8-81	24 16/64 FCP=70	Oil - PHL Gas - MCA Water - PHL Oil Gravity - API (Corr.)

29. Type of Venting of Gas (Sold, used for fuel, vented, etc.)

Vented

30. Test Supervised By

Harold Swain

31. List of Attachments

None

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. Ramsey

TITLE Engineer

DATE 12-8-81

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 one copy of all electrical and pressure-velocity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depth, in the case of directionally drilled wells, true vertical depth shall also be reported. For multiple completions, Form No. 3 through 6 shall be reported for each zone. The form is to be filed in triplicate except on state land, where six copies are required. Use Rule 119.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy <u>1013 (1011.9)</u>	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt <u>1122 (1119.9)</u>	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt <u>2648 (2591.8)</u>	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>2798 (2736.1)</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers <u>3026 (2958.6)</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 Quartz _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	_____
T. Blinbry _____	T. Gr. Wash _____	T. Morrison _____	_____
T. Tubb _____	T. Granite _____	T. Todilto _____	_____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	_____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	_____
T. Wolfcamp _____	_____	T. Chinle _____	_____
T. Penn. _____	_____	T. Permian _____	_____
T. Cisco (Bough C) _____	_____	T. Penn. "A" _____	_____

OIL OR GAS SANDS OR ZONES

No. 1, from <u>2802 (2739.9)</u> to <u>2901 (2835.9)</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
1013 (1011.9)	1122 (1119.9)	109	Anhydrite				
1122 (1119.9)	2648 (2591.8)	1526	Salt and Anhydrite				
2648 (2591.8)	2798 (2736.1)	150	Dolomite and Anhydrite				
2798 (2736.1)	3026 (2958.6)	228	Dolomite and Sandstone				
3026 (2958.6)	3273 (3203.1)	247	Dolomite and Sandstone				

**TABULATION OF PERTINENT WELL INFORMATION**  
**VICINITY OF DOYLE HARTMAN'S PROPOSED JUSTIS NO. 10**  
**LOCATED IN SECTION 19(H)-25-37, JALMAT (TANSILL-YATES-SEVEN RIVERS) POOL**  
**LEA COUNTY, NEW MEXICO**

OPERATOR WELL NAME & NUMBER	Bettis, Boyle & Stovall			Lewis B. Burleson						Conoco	Doyle Hartman		Sun Texas Co.			
	Bates #1	Bates #2	Exxon Bates #1	Coll. A #1	Gutman #1	Leonard #1	Leonard #2	Saunders #1	Saunders #2	Sholes B #1	Bates BB&S #1	Bates #3	Winningham #1	Winningham #2	Winningham #3	Winningham #7
LOCATION OF WELL	20(L)-25-37	29(D)-25-37	29(C)-25-37	29(G)-25-37	29(I)-25-37	20(P)-25-37	20(I)-25-37	28(E)-25-37	28(F)-25-37	19(N)-25-37	29(E)-25-37	20(M)-25-37	30(C)-25-37	19(P)-25-37	30(I)-25-37	30(H)-25-37
DISTANCE AND DIRECTION FROM APPLICATION	1750' SSE	4300' SSE	4650' SSE	6600' SE	8625' SE	5700' ESE	5100' ESE	8350' SE	9000' SE	4200' SSW	5550' S	2550' SE	5250' SW	2900' S	5200' S	4100' S
COMPLETION INTERVAL	2616-2865	2574-2740	2474-2994	2558-2564*	2532-2552*	2707-2757*	2935-3325	2263-2463*	2215-2230*	2662-2945	2692-2762	2773-3337	2675-2889	2648-2841	2730-3022	2711-2816*
COMPLETION DATE	9-11-36	1-22-52	9-18-78	7-30-73	3-29-73	9-20-76	2-10-38	7-10-69	10-20-76	3-22-41	2-06-80	9-12-81	7-25-49	12-06-49		3-01-75
INITIAL CAOF, MCF/DAY	25,500	1,346	10	396	1,102	423	1,630	13,800	1,738	12,000	103	101	2,130	4,060	1,400	N/A
CUM. PRODUCTION @ 6-1-81																
LIQUIDS, BBL.	-0-	-0-	-0-	-0-	-0-	-0-	85	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-
GAS, MMCF	5,935	1,268	-0-	2	381	80	3,225	3,081	433	6,248	146	-0-	1,852	1,910	1,637	5
VOLUMETRIC ANALYSIS:																
MEAN EFF. POR., % BULK VOL.	-	-	0.086	0.228	0.191	0.138	0.216	-	-	-	0.106	0.188	0.258	0.308	0.183	0.232
MEAN CON. WTR. STN., % NEPS	-	-	0.380	0.211	0.235	0.287	0.217	-	-	-	0.327	0.390	0.200	0.176	0.241	0.208
NET EFFECTIVE PAY, FEET	-	-	70	24	21	60	89	-	-	-	38	48	34	71	130	82
OGIP MMCF/ACRE	-	-	11.1	12.8	9.09	17.46	44.50	-	-	-	1.95	2.81	20.7	53.3	53.4	44.6
ESTIMATED OGIP, MMCF	6,336	-	-	5	539	96	4,319	9,119	-	6,350	820	207	1,876	2,238	-	143
EUR:																
LIQUIDS, BBL.	-0-	-0-	-0-	-0-	-0-	-0-	85	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-
GAS, MMCF	5,937	1,268	-0-	2	497	85	3,225	3,081	730	6,248	625	180	1,852	1,913	1,637	5
EST. ULTIMATE RECOVERY FACTOR	0.94	-	-	0.40	0.92	0.89	0.75	0.34	-	0.98	0.76	0.87	0.98	0.85	-	0.03
EST. EFFECT. DRAINAGE AREA, ACRES	-	-	-	1	59	6	97	-	-	-	420	73.5	91	42	-	3
SIWHP, PSIA (1980)	136.2	-	-	37.2	-	62.2	31.2	-	Exempt	172.2	-	-	-	121.2	-	-
ORIGINAL SIWHP	-	-	43.2	43.2	-	1,113.2	-	813.2	-	-	193.2	173.2	-	1,263.2	-	288.2
CURRENT WELL STATUS	Prod. Gas Only Carried Under Jalmat Oil	TA 5-69	Never Prod. Commercially Dry Hole	Non- Commercial	Gas Producer	Gas Producer	Non- Commercial	Last Prod. 12-76	Gas Producer	Last Prod. 10-80	Gas Producer	Gas Producer	Last Prod. 5-73	Gas Producer	Last Prod. 11-70	Last Prod. 11-77

\*Recompletion to Jalmat

# GAS PRODUCTION HISTORY

Date 6-25-80

Page 1 of 2

Operator: Bettis, Boyle & Stovall

Well: B. M. Justis No. 1

Location: H-19-25-37

Pool: Jalmat (Gas)

Spud Date: \_\_\_\_\_ Original Completion Date: \_\_\_\_\_

Completion Interval (Gas): \_\_\_\_\_

Completion Date (Gas): \_\_\_\_\_ First Production (Gas): \_\_\_\_\_

Remarks: Converted to Jalmat (Oil) in 1975.

Year	No. of Mos.	Annual Gas Production (MCF)	Avg. Gas Rate (MCF/mo.)	Cum. Gas Production (MMCF)	Annual SIP (psia)	P/Z
1980	12	1426	119	8201.1	N/A	N/A
1979	12	2050	171	8199.7	N/A	N/A
1978	12	1925	160	8197.7	N/A	N/A
1977	11	2694	245	8195.8	N/A	N/A
1976	12	3217	268	8193.1	N/A	N/A
1975	12	4093	341	8189.9	94.2	100
1974	12	2947	246	8185.8	98.2	105
1973	12	3700	308	8182.8	104.2	110
1972	12	4494	374	8179.1	118.2	125
1971	12	3606	300	8174.6	155.2	160
1970	11	3417	311	8171.0	146.2	150
1969	12	4178	348	8167.6	145.2	150
1968	12	5145	429	8163.4	143.2	150
1967	12	5671	473	8158.3	162.2	170
1966	12	5917	493	8152.6	261.2	275
1965	12	14909	1242	8146.7	N/A	N/A
1964	12	29468	2456	8131.8	N/A	N/A
1963	12	49208	4101	8102.3	N/A	N/A
1962	12	35466	2955	8053.1	N/A	N/A
1961	12	21053	1754	8017.6	242.2	255

**19 79 Detail Summary**

Jan. <u>147</u>	July <u>206</u>
Feb. <u>129</u>	Aug. <u>178</u>
March <u>154</u>	Sept. <u>133</u>
April <u>185</u>	Oct. <u>133</u>
May <u>241</u>	Nov. <u>116</u>
June <u>210</u>	Dec. <u>218</u>

**19 80 Detail Summary**

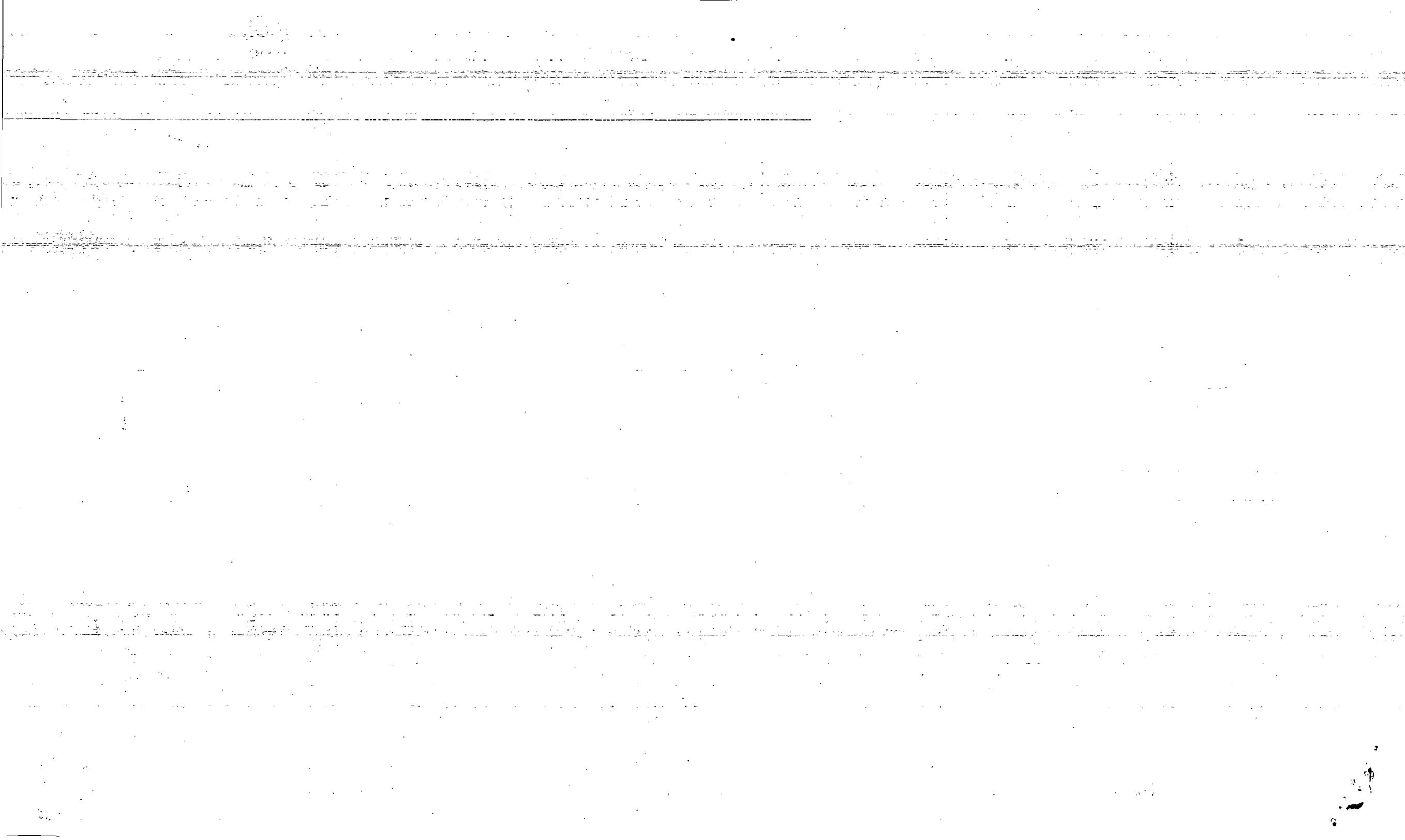
Jan. <u>164</u>	July <u>91</u>
Feb. <u>144</u>	Aug. <u>87</u>
March <u>152</u>	Sept. <u>77</u>
April <u>134</u>	Oct. <u>103</u>
May <u>130</u>	Nov. <u>107</u>
June <u>124</u>	Dec. <u>113</u>

Production (Y-T-D) 460 MCF

Avg. Rate (Y-T-D) 153 MCF/mo.

Days or Months (Y-T-D) 3 mos.



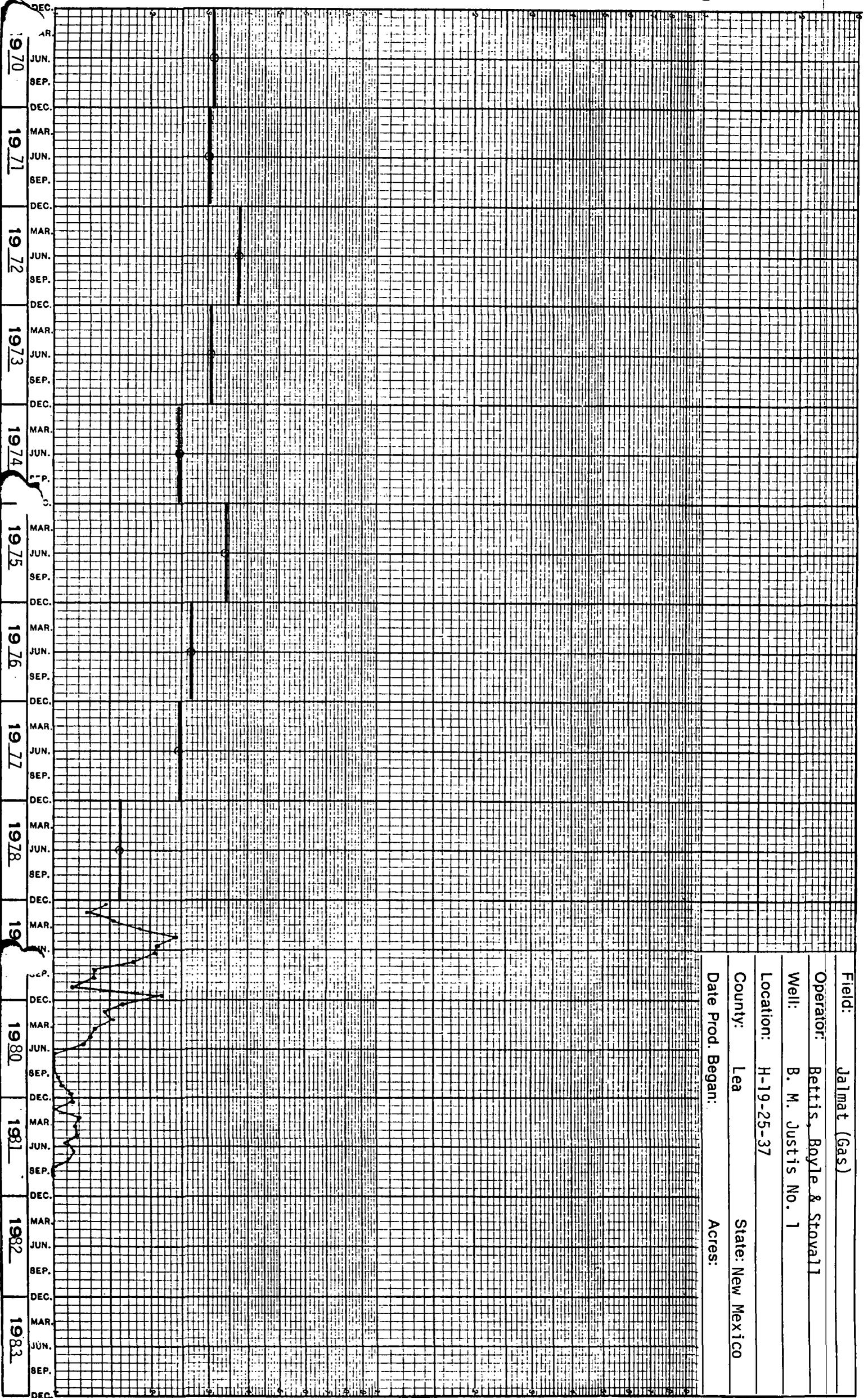


# Gas Production - MCF/month

10000

1000

100



Field: Jalmat (Gas)  
 Operator: Bettis, Boyle & Stoval  
 Well: B. M. Justis No. 1  
 Location: H-19-25-37  
 County: Lea  
 State: New Mexico  
 Date Prod. Began: \_\_\_\_\_  
 Acres: \_\_\_\_\_

Curtis, Scott & Co.

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

**DUPLICATE**

**MISCELLANEOUS REPORTS ON WELLS**

**RECEIVED**  
OCT 24 1950  
OIL CONSERVATION COMMISSION  
WORKS OFFICE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut-off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reservations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL		Report of Shutin Pressures	X

Roswell, New Mexico

October 23, 1950

Place

Date

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the

Leonard Oil Company

19

B. M. Justis

Well No. 1

in the

Company or Operator

Lease

SE 1/4 NE 1/4

of Sec. 28

20

T. 25S

R. 37E

N. M. P. M.,

Langlie-Mattix

Field,

Lea

County.

The dates of this work were as follows:

Notice of intention to do the work was [was not] submitted on Form C-102 on \_\_\_\_\_ 19\_\_\_\_

and approval of the proposed plan was [was not] obtained. (Cross out incorrect words.)

**DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED**

<u>Well</u>	<u>Date Taken</u>	<u>Time Shutin</u>	<u>Shutin Pressure</u>
B.M. Justis #1	10-3-50	24 hrs	746.3 psia

Data on other wells tied into high pressure system will be submitted at a later date.

Witnessed by \_\_\_\_\_

Name

Company

Title

Subscribed and sworn to before me this 23rd

day of October, 1950

Notary Public

My Commission expires 2-26-53

I hereby swear or affirm that the information given above is true and correct.

Name

Position

Vice-President

Representing

Leonard Oil Company

Company or Operator

Address

P. O. Box 872, Roswell, New Mexico

Remarks:

**APPROVED**

Date OCT 24 1950

*W. J. ...*  
Oil & Gas Inspector  
Title

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

RECEIVED  
MAY 15 1951  
OIL CONSERVATION COMMISSION  
HOBBS-OFFICE

DUPLICATE

MISCELLANEOUS REPORTS ON WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut-off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL		Report on Shutin Pressure on Gas Well	

Roswell, New Mexico May 2, 1951  
Place Date

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the \_\_\_\_\_

Leonard Oil Company gas well as listed below Well No. 1 in the \_\_\_\_\_  
Company or Operator Lease

SENECA of Sec. 19, T. 25 South, R. 37 East, N. M. P. M.,  
Langlie-Mattix Field, Lea County.

The dates of this work were as follows: \_\_\_\_\_

Notice of intention to do the work was [was not] submitted on Form C-102 on \_\_\_\_\_ 19\_\_\_\_  
and approval of the proposed plan was [was not] obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Well	Date Taken	Time Shutin, Hrs.	Shutin Pressure, PSIG
B. M. Justis #1	4-26-51	24	662

Witnessed by \_\_\_\_\_ Name \_\_\_\_\_ Company \_\_\_\_\_ Title \_\_\_\_\_

Subscribed and sworn to before me this 2nd day of May, 1951

Notary Public

My Commission expires November 12, 1951

I hereby swear or affirm that the information given above is true and correct.

Name \_\_\_\_\_

Position Executive Vice President

Representing LEONARD OIL COMPANY Company or Operator

Address Box 872 - Roswell, New Mexico

Remarks:

APPROVED

Date MAY 16 1951

Ray Garbrough  
Oil & Gas Inspector  
Title

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

RECEIVED (Form C-104 Revised 7/1/52)

REQUEST FOR (Oil) - (GAS) ALLOWABLE NOV 30 SEE REMARKS  
New Well  
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPPLICATE to the same District Office to which Form C-104 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Roswell, New Mexico November 25, 1953  
(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

LEONARD OIL COMPANY B. M. Justice Well No. 1, in SE 1/4 NE 1/4,  
(Company or Operator) (Lease)  
H Sec. 19, T. 25S, R. 37E, NMPM., Jalco Pool  
(Unit)  
Lea County. Date Spudded 3-5-31, Date Completed 6-2-31

Please indicate location:

			o

Elevation 3071 Total Depth 2795 P.B.  
Top oil/gas pay 2743 Prod. Form 2743  
Casing Perforations: or  
Depth to Casing shoe of Prod. String  
Natural Prod. Test BOPD  
based on bbls. Oil in Hrs Mins.  
Test after acid or shot BOPD  
Based on bbls. Oil in Hrs Mins.  
Gas Well Potential 25,299 MCF - Initial Production  
Size choke in inches Open Flow  
Date first oil run to tanks or gas to Transmission system: Sept. 1931  
Transporter taking Oil or Gas: El Paso Natural Gas Co.

Casing and Cementing Record

Size	Feet	Sax
15-1/2	124	20
12-1/2	425	10
10-1/2	819	50
8-1/4	2615	155

Remarks: TO COMPLY WITH RULE 11 OF COMMISSION'S ORDER R-356

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

Approved DEC 3 1953, 19 LEONARD OIL COMPANY  
(Company or Operator)

OIL CONSERVATION COMMISSION

By: (Signature)  
Robert J. Leonard, President

By: S. G. Stanley  
Title Engineer District 1

Title Send Communications regarding well to:  
Name LEONARD OIL COMPANY  
Address Box 708, Roswell, N. M.

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PRORATION 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

OCT 11 10 25 AM '65

Operator  
**Tenneco Oil Company**

Address  
**P.O. Box 1031, Midland, Texas**

Reason(s) for filing (Check proper box)	Other (Please explain)
New Well <input type="checkbox"/>	Effective 10-1-65
Recompletion <input type="checkbox"/>	
Change in Ownership <input checked="" type="checkbox"/>	
Change in Transporter of Oil <input type="checkbox"/>	
Change in Transporter of Oil <input type="checkbox"/>	Change in Transporter of Oil
Change in Transporter of Gas <input type="checkbox"/>	Change in Transporter of Gas
Change in Transporter of Oil and Gas <input type="checkbox"/>	Change in Transporter of Oil and Gas
Change in Transporter of Oil and Gas <input type="checkbox"/>	Change in Transporter of Oil and Gas

If change of ownership give name and address of previous owner **Leonard Oil Company, 10th Floor Security Life Bldg., Roswell, New Mexico**

**DESCRIPTION OF WELL AND LEASE**

Lease Name <b>B. M. Justis</b>	Well No. <b>1</b>	Pool Name, including Formation <b>Jalmat- Gas</b>	Kind of Lease State, Federal or Fee <b>Fee</b>
Location			
Unit Letter <b>H</b>	<b>1980</b> Feet From The <b>North</b> Line and <b>660</b> Feet From The <b>East</b>		
Line of Section <b>19</b>	Township <b>25-S</b>	Range <b>37-E</b>	NMPM, <b>Lea</b> 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)
<b>None</b>	
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)
<b>El Paso Natural Gas Company</b>	<b>Box 1384, Jal, New Mexico</b>
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rgo. is gas actually connected? When
	<b>yes</b> <b>unknown</b>

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.
<b>(X)</b>								
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
Pool	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth					
Perforations							Depth Casing Shoe	

**TUBING, CASING, AND CEMENTING RECORD**

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

**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-Bbls.	Water-Bbls.	Gas-MCF

**GAS WELL**

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure	Casing Pressure	Choke Size

**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.

  
**R. L. Leggett**  
 District Office Supervisor  
 (Title)  
 October 1, 1965  
 (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 deviation 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 Sections I, II, III, and VI only for changes of owner, well name or number, or transporter or other such change of condition.  
 Separate Forms C-104 must be filed for each pool in multiple

**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-110  
Effective 1-1-65

OCT 20 1 04 PM '65

COPIES RECEIVED	
DISTRIBUTION	
SALES	
FILE	
J.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
REGISTRATION OFFICE	

**Tenneco Oil Company**

Box 1031, Midland, Texas

Reason(s) for filing (Check proper box)

Oil Well <input type="checkbox"/>	Change in Transporter of:	Other (Please explain)
Completion <input type="checkbox"/>	Oil <input type="checkbox"/>	Change name of lease from B.M. Justis
Change in Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/>	Dry Gas <input type="checkbox"/>
	Condensate <input type="checkbox"/>	

change of ownership give name and address of previous owner \_\_\_\_\_

**DESCRIPTION OF WELL AND LEASE**

Lease Name <b>B.M. Justis A</b>	Well No. <b>1</b>	Pool Name, including Formation <b>Jalmat Gas</b>	Kind of Lease State, Federal or Fee <b>Fee</b>
Location Unit Letter <b>H</b> ; <b>1980</b> Feet From The <b>north</b> Line and <b>660</b> Feet From The <b>east</b>			
Line of Section <b>19</b> , Township <b>25-S</b> Range <b>37-E</b> , 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"/> <b>none</b>	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"/> <b>El Paso Natural Gas Company</b>	Address (Give address to which approved copy of this form is to be sent) <b>Box 1384, Jal, New Mexico</b>
Well produces oil or liquids, give location of tanks.	Is gas actually connected? When
	<b>yes</b> <b>unknown</b>

his 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.
<input checked="" type="checkbox"/>								
Date Spudded	Date Compl. Ready to Prod.	Total Depth		P.B.T.D.				
	Name of Producing Formation	Top Oil/Gas Pay		Tubing Depth				
Remarks							Depth Casing Shoe	

**TUBING, CASING, AND CEMENTING RECORD**

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

**TEST DATA AND REQUEST FOR ALLOWABLE 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)

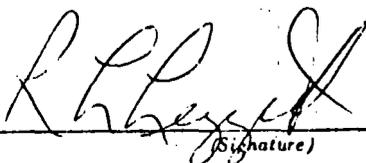
First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Oil Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

**WELL**

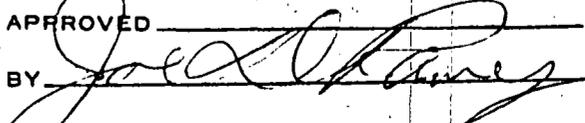
Oil Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Flowing Method (pilot, back pr.)	Tubing Pressure	Casing Pressure	Choke Size

**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 is true and complete to the best of my knowledge and belief.

  
**R.L. Leggett**  
 District Office Supervisor  
 October 18, 1965  
 (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 deviation 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 Sections I, II, III, and VI only for changes of owner, well name or number, or transporter, or other such change of condition.  
 Separate Forms C-104 must be filed for each pool in multiply completed wells.

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PRORATION 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-11  
 Effective 1-1-65

**I. OPERATOR**  
 Operator **Bettis, Boyle & Stovall**  
 Address **Box 1168 Graham, Texas 76046**  
 Reason(s) for filing (Check proper box)  
 New Well  Change in Transporter of:  
 Recompletion  Oil  Dry Gas   
 Change in Ownership  Casinghead Gas  Condensate  Other (Please explain)  
**Effective 10-1-70**  
 If change of ownership give name and address of previous owner **Tenneco Oil Company Box 1031 Midland, Texas**

**II. DESCRIPTION OF WELL AND LEASE**  
 Lease Name **B. M. Justis A** Well No. **1** Pool Name, including Formation **Jalmat (Gas)** Kind of Lease State, Federal or Fee **Fee** Lease No.  
 Location  
 Unit Letter **H** : **1980** Feet From The **North** Line and **660** Feet From The **East**  
 Line of Section **19** Township **25S** Range **37E**, NMPM, **Lea** County

**III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS**  
 Name of Authorized Transporter of Oil  or Condensate   
**None** Address (Give address to which approved copy of this form is to be sent)  
 Name of Authorized Transporter of Casinghead Gas  or Dry Gas   
**El Paso Natural Gas Company** Address (Give address to which approved copy of this form is to be sent)  
**Box 1384 Jal, New Mexico**  
 If well produces oil or liquids, give location of tanks. Unit Sec. Twp. Rge. Is gas actually connected? When  
**yes** **unknown**

**IV. COMPLETION DATA**  
 Designate Type of Completion - (X) Oil Well Gas Well New Well Workover Deepen Plug Back Same Res'v. Diff. Res'v.  
 Date Spudded Date Compl. Ready to Prod. Total Depth P.B.T.D.  
 Elevations (DF, RKB, RT, GR, etc.) Name of Producing Formation Top Oil/Gas Pay Tubing Depth  
 Perforations Depth Casing Shoe

TUBING, CASING, AND CEMENTING RECORD			
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

**V. 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-Bbls. Water-Bbls. Gas-MCF

**GAS WELL**  
 Actual Prod. Test-MCF/D Length of Test Bbls. Condensate/MMCF Gravity of Condensate  
 Testing Method (pitot, back pr.) Tubing Pressure (shut-in) Casing Pressure (shut-in) Choke Size

**VI. 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.  
**H. M. Bettis**  
 (Signature)  
**xRETRRXX Agent**  
 (Title)  
**October 28, 1970**  
 (Date)

**OIL CONSERVATION COMMISSION**

APPROVED \_\_\_\_\_, 19\_\_\_\_  
 BY **John W. Runyan**  
 TITLE **Geologist**  
 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 deviation 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 condition. Separate Forms C-104 must be filed for each pool in multiple.

NO. OF COPIES RECEIVED  
DISTRIBUTION  
DATE  
U.S.G.S.  
AND OFFICE  
TRANSPORTER  
OPERATOR  
REGISTRATION 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-110  
Effective 1-1-65.

RECEIVED JUL 2 1 1981

Bettis, Boyle & Stovall  
Box 1168, Graham, Texas 76046

Reason for filing (Check proper box)  
 Change in Transporter of:  
 Oil  Dry Gas  
 Casinghead Gas  Condensate  
 Other (Please explain)  
 Reclassification to oil and casinghead gas *effective 7/1/75*

Change of ownership give name and address of previous owner

DESCRIPTION OF WELL AND LEASE

Well No.	Foot Name, Including Formation	Kind of Lease
1	Jalnat Yates Seven Rivers Tansill	State, Federal or Free Fee
H	1980 Feet From The North Line and 660 Feet From The East	
19 Township	25S Range	37E Lea County

SIGNATURE OF TRANSPORTER OF OIL AND NATURAL GAS

Shell Pipeline Company	Address (Give address to which approved copy of this form is to be sent)
Midland, Texas	
Paso Natural Gas Company	Address (Give address to which approved copy of this form is to be sent)
Jal, New Mexico	
Unit: H	Is gas actually connected? When
19 25S 37E	yes unknown

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

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Workover <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Some Rekey. <input checked="" type="checkbox"/> Full Rekey. <input type="checkbox"/>
Date: June, 1931	Total Depth: 2795
Jalnat Yates SR Tansill Yates	Top Oil/Gas Entry: 2615
Open hole 2615-2795	Depth Casing Shoe: 2794

TUBING, CASING, AND CEMENTING RECORD

PIPE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
16 1/2	15 1/2	124	20
13 1/2	12 1/2	425	10
12	10 1/2	819	50
10-3/4	8 1/2	2615	155

DATA AND REQUEST FOR ALLOWABLE (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)

4-27-75	4-28-75	Producing Method (Flow, pump, gas lift, etc.)
24 hrs	25	Flow
		Casing Pressure: 25
		Water-Depth: 2"
		TSTM: 40

III

Length of Test	Depth of Condensate (M.F.C.)	Gravity of Condensate
	Casing Pressure	Choke Size

STATEMENT OF COMPLIANCE  
 I certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given is true and complete to the best of my knowledge and belief.  
*Larry O. Hulsey*  
 Larry O. Hulsey, Petroleum Engineer  
 May 30, 1975

OIL CONSERVATION COMMISSION  
 APPROVED JUN 10 1975  
 BY John Ryan, Geologist  
 TITLE Geologist  
 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 deviation 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 Sections I, II, III, and VI only for changes of owner, well name or number, or transporter, or other such change of condition.

Well File

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-1  
Effective 1-1-65

NO. OF COPIES RECEIVED	
DISTRIBUTION	
STATE FILE	
FED. FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL GAS
OPERATOR	
PRODUCTION OFFICE	

Operator **Doyle Hartman**

Address **P. O. Box 10426 Midland, Texas 79702**

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

New Well  Change in Transporter of:

Recompletion  Oil  Dry Gas

Change in Ownership  Casinghead Gas  Condensate

If change of ownership give name and address of previous owner **Bettis, Boyle and Stovall, P. O. Box 1240, Graham, Texas 76046**

1. DESCRIPTION OF WELL AND LEASE

Lease Name <b>B. M. Justis</b>	Well No. <b>1</b>	Pool Name, including Formation <b>Jalpat (Gas)</b>	Kind of Lease State, Federal or Fee	Fee	Lease No.
Location					
Unit Letter <b>H</b>	<b>1980</b>	Feet From The <b>North</b> Line and <b>660</b>	Feet From The <b>East</b>		
Line of Section <b>19</b>	Township <b>25-S</b>	Range <b>37-E</b>	NMPM, <b>Lea</b>	County	

2. 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)	
<b>El Paso Natural Gas Company</b>	<b>P. O. Box 1384 Jal, New Mexico 88230</b>	
If well produces oil or liquids, give location of tanks.	Unit	Sec. Twp. Rge.
Is gas actually connected?	When	
<b>Yes</b>	<b>12-1936</b>	

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

3. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Resty.	Diff. Resty.
Date Spudded	Date Compl. Ready to Prod.		Total Depth		F.B.T.D.			
Elevations (DF, RAB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
Perforations					Depth Casing Shoe			

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

4. TEST DATA AND REQUEST FOR ALLOWABLE (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-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Ehnt-in)	Casing Pressure (Ehnt-in)	Choke Size

5. 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 A. Norman*  
(Signature)

Engineer  
(Title)

Nov 5, 1981  
(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 deepener well, this form must be accompanied by a tabulation of the deviate 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.

Separate Forms C-104 must be filed for each pool in multi-completed wells.

30-025-27630

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

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101  
Revised 1-1-65

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

a. Type of Work  
DRILL  DEEPEN  PLUG BACK

b. Type of Well  
OIL WELL  GAS WELL  OTHER   
SINGLE ZONE  MULTIPLE ZONE

c. Name of Operator  
Doyle Hartman

d. Address of Operator  
P.O. Box 10426 Midland, Texas 79702

e. Location of Well  
UNIT LETTER E LOCATED 1940 FEET FROM THE North LINE  
AND 120 FEET FROM THE West LINE OF SEC. 20 TWP. 25S RGE. 37E NADOM

5A. Indicate Type of Lease  
STATE  FEE

5. State Oil & Gas Lease No.

7. Unit Agreement Name

8. Farm or Lease Name  
B. M. Justis

9. Well No.  
10

10. Field and Pool, or Well Unit  
Jalmat

17. County  
Lea

18. Elevation (show whether BP, RT, etc.) 3067.5 G.L.	21A. Kind & Status of Lease Bond Multi-well approved	19. Proposed Depth 3200 TVD	19A. Formation Yates	20. Method of C.T. Rotary
	21B. Drilling Contractor Kenai	22. Approx. Date Work will start November 1981		

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
14 3/4	10 3/4	40.50	600	600	Surface
8 3/4	7	23.00	3200 TVD	600	Surface

We propose to drill an infill Jalmat (Yates) well with the bottom hole location 1989' FNL and 440' FEL of Section 19, T-25-S, R-37-E. The surface at this location is occupied by houses. We propose to locate the rig on a vacant lot 1940 FNL and 120 FWL of Section 20, T-25-S, R-37-E and deviate the hole to bottom hole location 1989 FNL and 440 FEL of Section 19, T-25-S, R-37-E at a true vertical depth of 3200' GL. The total depth of the well will be 3200' true vertical depth and will be located 1989' FNL and 440 FEL of Section 19, T-25-S, R-37-E. A directional survey of the entire well bore will be made when total depth is reached. A hearing was held November 4, 1981 for approval to deviate this well. From the base of the surface pipe through the running of production casing, the well will be equipped with a 3000-psi double ram BOP system.

- NOTE: (1) Any gas produced from the proposed well has previously been dedicated to El Paso Natural Gas Company.  
(2) The proposed well will be the second well on the existing proration unit consisting of the E/2 NE/4 of Section 19, and will share an allowable with the B.M. Justis No. 1

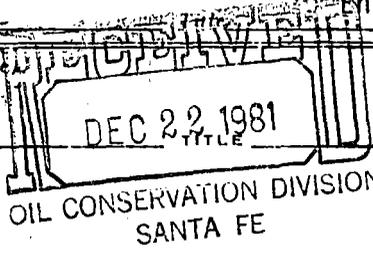
THE ABOVE SPACE DESCRIBE PROPOSED PROGRAM; IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Harry A. Norman Engineer Date November 5, 1981

APPROVED BY Chris Slone DATE NOV 18 1981

CONDITIONS OF APPROVAL, IF ANY:  
OIL CONSERVATION DIVISION SANTA FE  
APPROVAL VALID FOR 180 DAYS PERMIT EXPIRES 5/16/82 UNLESS DRILLING COMMENCED



NOV 16 1981

NEW 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

Owner Doyle Hartman		Lease B.M. Justis			Well No. 10
Unit Letter E	Section 20	Township 25 South	Range 37 East	County Lea	

Actual Well Location of Well:  
1940 feet from the North line and 120 feet from the West line

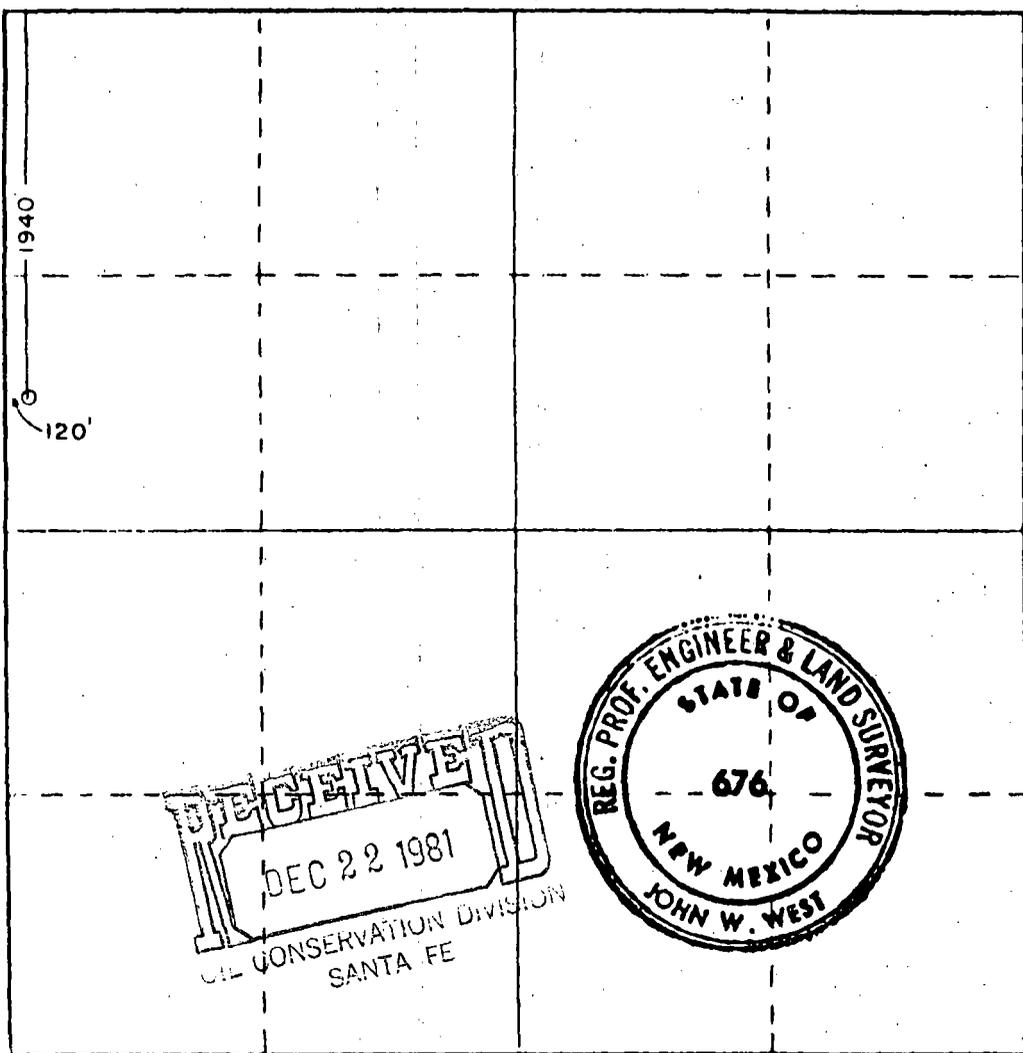
Ground Level Elev. 3067.5'	Producing Formation Yates-Seven Rivers	Pool Jalpat (Gas)	Dedicated Acreage: 80 Acres
-------------------------------	---	----------------------	--------------------------------

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.  
See Attached C-102
- 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.

Name  
*Larry G. Nemy*  
Position  
Engineer  
Company  
DOYLE HARTMAN  
Date  
Nov 2, 1981

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.

OCT 23 1981

Date Surveyed  
Oct. 20, 1981

Registered Professional Engineer and Land Surveyor

*John W. West*  
Certificate No. JOHN W. WEST 676  
PATRICK A. ROMERO 6443  
Ronald J. Eidson 3239

NEW 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.

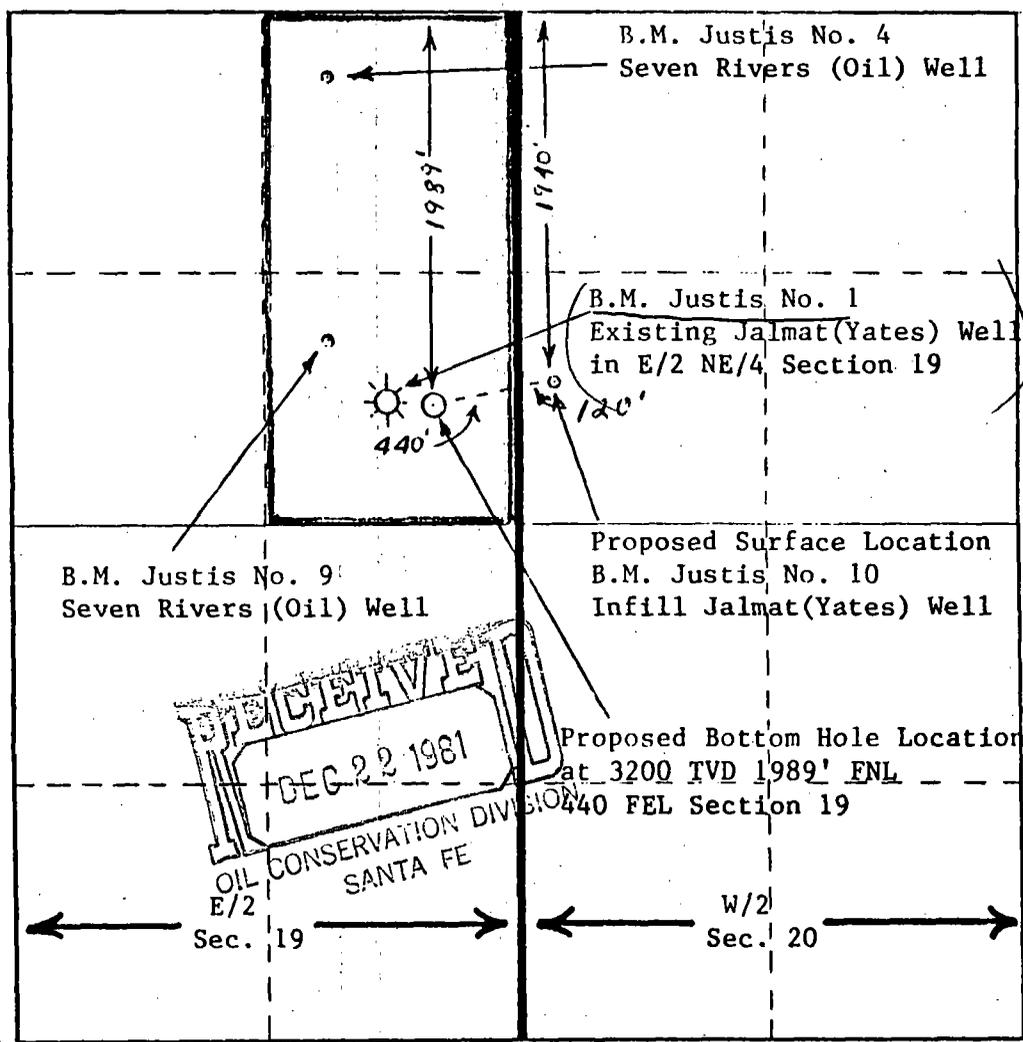
Operator <b>Doyle Hartman</b>			Lease <b>B. M. Justis</b>		Well No. <b>10</b>
Unit Letter <b>E</b>	Section <b>19 &amp; 20</b>	Township <b>25 South</b>	Range <b>37 East</b>	County <b>Lea</b>	
Actual Footage Location of Well: * <b>1989</b> feet from the <b>North</b> line and <b>440</b> feet from the <b>East</b> line of <b>Sec. 19</b>					
Ground Level Elev.	Producing Formation <b>Yates-Seven Rivers</b>	Fluid <b>Jalmat (Gas)</b>	Dedicated Acreage: <b>80</b> Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. See attached C-102
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. \* Bottom hole location at 3200 feet TVD.



**CERTIFICATION**

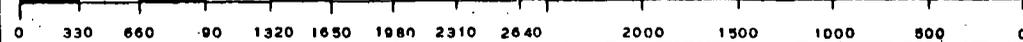
*I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.*

Name  
*Perry A. Newmyer*  
Position  
**Engineer**  
Company  
**Doyle Hartman**  
Date  
**November 2, 1981**

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

Date Surveyed  
Registered Professional Engineer and/or Land Surveyor

Certificate No.



Offset Jalmat (Gas) Operators  
B. M. Justis No. 10  
E/2 NE/4 Section 19  
T-25-S, R-37-E  
Lea County, New Mexico

Notification of Request for Administrative Infill Finding

<u>Offset Operator</u>	<u>Date Notification Mailed by Hartman</u>	<u>Date Received by Offset Operators</u>	<u>Date Waiver Returned Offset Operators</u>
Getty Oil Company	December 9, 1981	December 10, 1981	December 14, 1981
Bettis, Boyle and Stovall	December 9, 1981	---	---
Sun-Texas Company	December 9, 1981	---	---
Conoco, Inc.	December 9, 1981	December 10, 1981	---



**REPORT  
of  
SUB-SURFACE  
DIRECTIONAL  
SURVEY**

Doyle Hartman Oil Company  
COMPANY

B.M. Justis Well No.10  
WELL NAME

Lea County, New Mexico  
LOCATION

<u>JOB NUMBER</u>	<u>TYPE OF SURVEY</u>	<u>DATE</u>
WT1181-G0112	Gyroscopic Multishot	11-23-81
WT1181-D0111	Magnetic Single Shot	11-30-81
WT1181-S0120	Magnetic Multi Shot	11-30-81

SURVEY BY  
Gary DeSpain  
Ken V. Tidwell  
Troy Coey

OFFICE  
West Texas  
West Texas  
West Texas

DOYLE HARTMAN OIL PRODUCTION

B.M. JUSTIS WELL NO. 10

LEA COUNTY, NEW MEXICO BD1-365

NOVEMBER 23, 1981

EASTMAN WHIPSTOCK, INC.

GYROSCOPIC MULTI SHOT WT1181-G0112

SURVEYOR: GARY DESPAIN (0'-600')

MAGNETIC MULTI SHOT WT1181-S0120

SURVEYOR: TROY ONEY (600'-3258')



Eastman

1977

VERTICAL SECTION CALCULATED IN PLANE OF PROPOSED WELL  
DIRECTION: S85 DEG. 10 MIN. W

PETROLEUM COMPANY

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

DOYLE HARTMAN OIL PRODUCTION  
 B.M. JUSTIS WELL NO. 10  
 LEA COUNTY, NEW MEXICO BDI-365

COMPUTATION PAGE NO.  
 TIME DATE  
 08:34:23 02-DEC-81

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE		RECTANGULAR		CLOSURE		DOGLE SEVERI DS/100
				VERTICAL DEPTH FEET	VERTICAL SECTION FEET	COORDINATE FEET	COORDINATE FEET	DISTANCE FEET	DIRECTION D M	
0.	0 0	0	0.	0.00	0.00	0.00	0.00	0.00	0 0	0.00
100.	0 0	0	100.	100.00	0.00	0.00	0.00	0.00	0 0	0.00
200.	0 15	S 2 E	100.	200.00	0.01	0.22 S	0.01 E	0.22	S 2 0 E	0.25
300.	0 30	S 12 W	100.	300.00	0.12	0.87 S	0.05 W	0.87	S 3 15 W	0.26
400.	0 45	S 45 W	100.	399.99	0.72	1.81 S	0.56 W	1.90	S 17 14 W	0.43
500.	1 15	S 55 W	100.	499.98	2.15	2.93 S	1.90 W	3.49	S 32 54 W	0.53
600.	1 45	S 64 W	100.	599.94	4.51	4.26 S	4.15 W	5.95	S 44 15 W	0.55
663.	1 15	S 40 W	63.	662.92	5.88	5.27 S	5.44 W	7.57	S 45 55 W	1.26
755.	3 0	S 71 W	92.	754.85	8.81	7.18 S	8.22 W	10.91	S 48 52 W	2.21
848.	4 0	N 84 W	93.	847.68	14.44	7.81 S	13.81 W	15.87	S 60 30 W	1.94
940.	5 45	N 79 W	92.	939.34	22.04	6.66 S	21.54 W	22.55	S 72 49 W	1.82
1032.	7 45	N 81 W	92.	1030.70	32.49	4.73 S	32.19 W	32.54	S 81 33 W	2.13
1125.	9 30	N 85 W	93.	1122.64	46.13	3.08 S	46.03 W	46.13	S 86 10 W	1.99
1217.	10 30	N 86 W	92.	1213.25	61.88	1.83 S	61.96 W	61.98	S 88 12 W	1.10
1309.	11 30	N 87 W	92.	1303.55	79.24	0.76 S	79.48 W	79.48	S 89 27 W	1.11
1402.	12 30	N 87 W	93.	1394.52	98.39	0.25 N	98.79 W	98.79	N 89 51 W	1.08
1494.	14 0	N 88 W	92.	1484.07	119.29	1.17 N	119.85 W	119.86	N 89 26 W	1.65
1587.	14 45	N 88 W	93.	1574.16	142.21	1.93 N	142.93 W	142.94	N 89 12 W	0.81
1679.	15 0	N 88 W	92.	1663.07	165.65	2.80 N	166.53 W	166.55	N 89 2 W	0.27
1771.	15 45	N 88 W	92.	1751.78	189.86	3.66 N	190.91 W	190.94	N 88 54 W	0.82
1864.	15 45	N 88 W	93.	1841.29	214.92	4.54 N	216.14 W	216.13	N 88 48 W	0.00
1956.	16 0	N 87 W	92.	1929.78	239.87	5.63 N	241.28 W	241.34	N 88 40 W	0.40
2048.	16 15	N 87 W	92.	2018.16	265.17	6.97 N	266.80 W	266.89	N 88 30 W	0.27
2141.	16 30	N 86 W	93.	2107.39	291.10	8.57 N	292.96 W	293.09	N 88 19 W	0.41
2233.	17 15	N 86 W	92.	2195.43	317.48	10.43 N	319.61 W	319.78	N 88 3 W	0.82
2326.	17 45	N 85 W	93.	2384.12	345.06	12.63 N	347.48 W	347.71	N 87 55 W	0.63
2418.	17 45	N 87 W	92.	2371.74	372.76	14.59 N	375.46 W	375.74	N 87 47 W	0.66
2510.	17 30	S 84 W	92.	2459.42	400.51	14.34 N	403.30 W	403.55	N 87 58 W	2.32
2603.	17 30	S 86 W	93.	2548.12	428.48	12.39 N	431.20 W	431.37	N 88 21 W	0.00
2695.	17 0	S 88 W	92.	2635.98	455.74	10.96 N	458.44 W	458.57	N 88 33 W	0.84

*Eastman*  
*Well*

DOYLE HARTMAN OIL COMPANY  
 B.M. JUSTIS WELL NO. 10  
 LEA COUNTY, NEW MEXICO BDI-368

COMPUTATION  
 TIME DATE  
 07:48:48 00--00

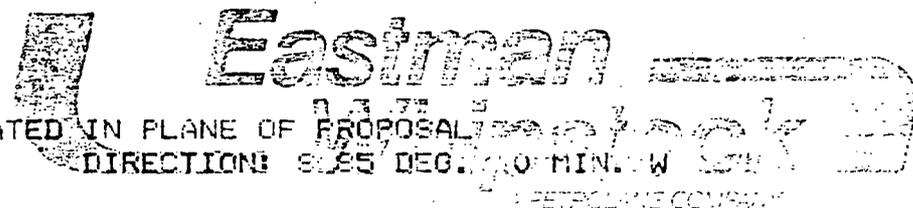
PAGE NO.:

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE		RECTANGULAR		DOGLEG SEVERITY DG/100FT
				VERTICAL DEPTH FEET	VERTICAL SECTION FEET	COORDINATES FEET		
600.	1 45	S 64 W	0.	599.94	4.51	4.26 S	4.15 W	0.00
689.	1 15	S 32 W	89.	688.91	6.34	5.80 S	5.86 W	1.07
729.	2 0	S 42 W	40.	728.89	7.10	6.70 S	6.54 W	2.00
759.	2 45	S 64 W	30.	758.87	8.15	7.45 S	7.53 W	3.89
789.	3 30	S 76 W	30.	788.82	9.72	8.01 S	9.06 W	3.30
816.	3 30	S 86 W	27.	815.77	11.37	8.26 S	10.69 W	2.26
847.	3 15	N 90 W	31.	846.72	13.19	8.33 S	12.51 W	1.11
878.	3 45	S 85 W	31.	877.66	15.03	8.41 S	14.40 W	1.89
988.	7 0	N 85 W	110.	987.16	25.33	8.41 S	24.69 W	3.06
1082.	9 0	N 85 W	94.	1080.24	38.21	7.27 S	37.72 W	2.13
1178.	10 0	N 88 W	96.	1174.92	53.88	16.30 S	53.53 W	1.36
1270.	11 0	N 88 W	92.	1265.38	70.52	5.72 S	70.29 W	1.09
1365.	12 15	N 88 W	95.	1358.43	89.52	5.05 S	89.42 W	1.32
1489.	14 0	N 90 W	124.	1479.19	117.52	4.56 S	117.57 W	1.46
1591.	14 30	N 89 W	102.	1578.05	142.51	4.34 S	142.68 W	0.55
1716.	15 30	N 90 W	125	1698.79	174.72	4.06 S	175.03 W	0.83
1837.	15 45	N 89 W	121.	1815.32	207.16	3.77 S	207.62 W	0.30
1963.	16 15	N 88 W	126.	1936.44	241.66	2.86 S	242.34 W	0.45
2088.	16 0	N 88 W	125.	2056.52	276.12	1.65 S	277.03 W	0.20
2245.	16 45	N 86 W	157.	2207.15	319.95	0.67 N	321.23 W	0.60
2402.	18 0	N 84 W	157.	2356.98	366.12	4.75 N	367.93 W	0.88
2558.	17 0	S 84 W	156.	2505.76	412.76	4.75 N	414.76 W	2.40
2684.	17 15	S 85 W	126.	2626.17	449.86	1.20 N	451.69 W	0.31
2867.	13 45	S 85 W	183.	2802.49	498.76	3.07 S	500.40 W	1.91
3023.	8 30	S 85 W	156.	2955.51	528.85	5.69 S	530.37 W	3.37
3117.	8 30	S 84 W	94.	3048.47	542.74	7.02 S	544.20 W	0.16
3210.	7 30	S 83 W	93.	3140.57	555.68	8.48 S	557.06 W	1.09
3258.	6 0	S 85 W	48.	3188.23	561.32	9.07 S	562.67 W	3.16

FINAL CLOSURE DIRECTION: S 89 DEGS 5 MINS W  
 DISTANCE: 562.74 FEET

DOYLE HARTMAN OIL COMPANY  
B.M. JUSTIS WELL NO. 10  
LEA COUNTY, NEW MEXICO BD1-368

EASTMAN WHIPSTOCK-INC.  
MAGNETIC SINGLE SHOT SURVEY  
SURVEYOR: KENT TIDWELL (600'-3210')



VERTICAL SECTION CALCULATED IN PLANE OF PROPOSAL  
DIRECTION: S 85 DEG. 10 MIN. W

RECORD OF SURVEY

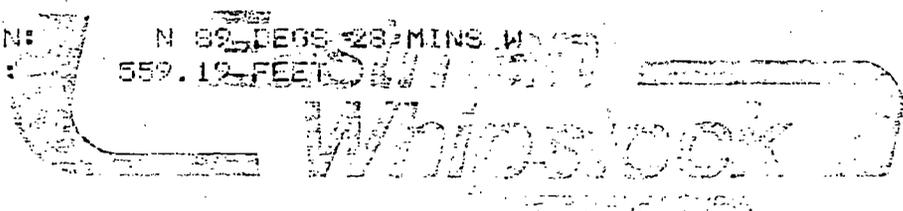
RADIUS OF CURVATURE METHOD

DOYLE HARTMAN OIL PRODUCTION  
 S.M. JUSTIS WELL NO. 10  
 LEA COUNTY, NEW MEXICO 301-265

COMPUTATION PAGE NO.  
 TIME DATE  
 08:34:23 02-DEC-81

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE		RECTANGULAR		CLOSURE		DOGLEG SEVERITY DG/100'
				VERTICAL DEPTH FEET	VERTICAL SECTION FEET	COORDINATES FEET	DISTANCE FEET	DIRECTION D M		
2787.	14 30	S 88 W	92.	2724.52	480.68	10.09 N	483.39 W	483.50	N 88 48 W	2.72
2880.	11 45	S 87 W	93.	2815.08	501.77	9.17 N	504.49 W	504.57	N 88 58 W	2.97
2972.	9 0	S 87 W	92.	2905.57	518.33	8.30 N	521.03 W	521.10	N 89 5 W	2.99
3065.	8 0	S 87 W	93.	2997.54	532.07	7.58 N	534.76 W	534.82	N 89 11 W	1.08
3157.	7 45	S 83 W	92.	3088.68	544.67	6.49 N	547.32 W	547.35	N 89 19 W	0.65
3218.	6 30	S 84 W	61.	3149.21	552.23	5.63 N	554.83 W	554.86	N 89 25 W	2.04
3258.	6 0	S 85 W	40.	3188.97	556.59	5.21 N	559.17 W	559.19	N 89 28 W	1.28

FINAL CLOSURE - DIRECTION: N 89 DEGS 28 MINS W  
 DISTANCE: 559.12 FEET



NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-1024  
Supersedes C-128  
Effective 1-1-65

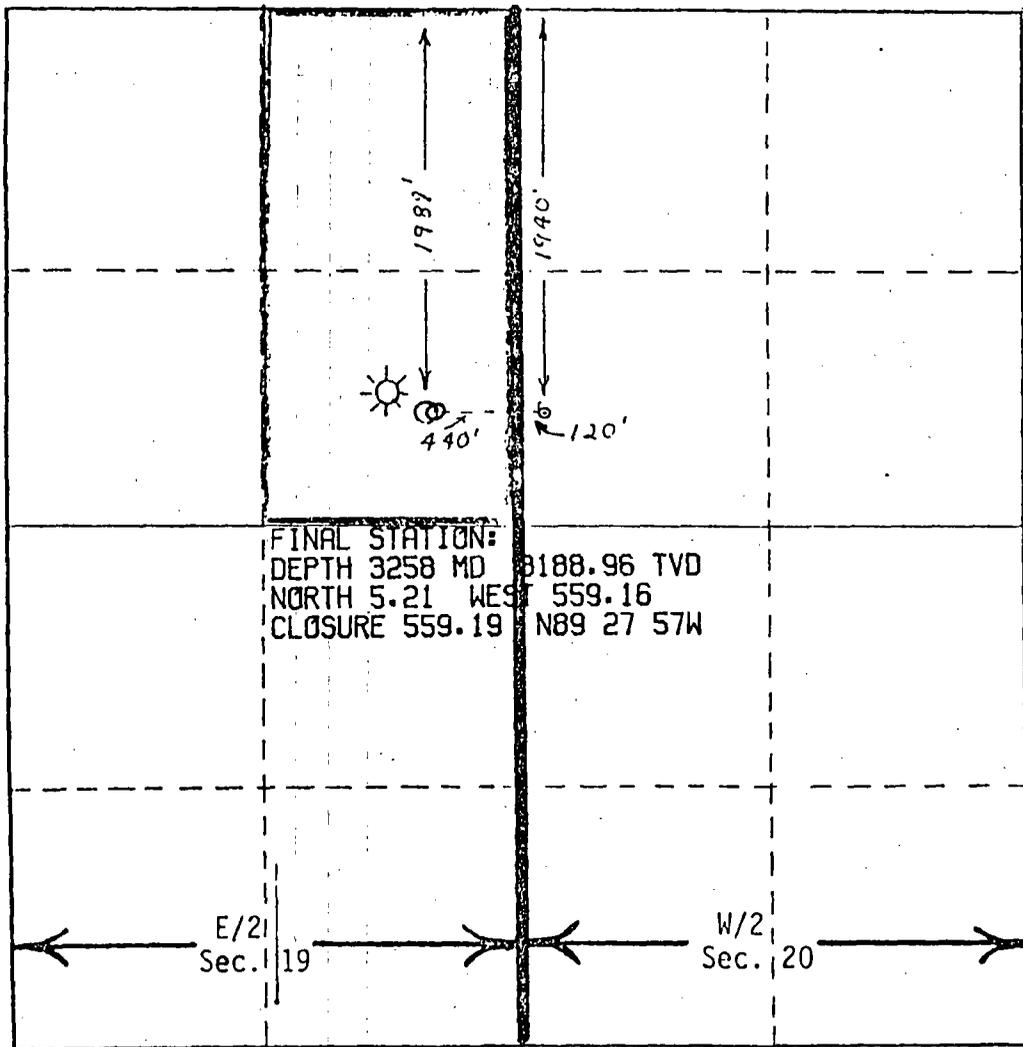
All distances must be from the outer boundaries of the Section.

Operator <b>Doyle Hartman</b>		Lease <b>B.M. Justis</b>		Well No. <b>10</b>	
Unit Letter <b>E</b>	Section <b>19 &amp; 20</b>	Township <b>25 South</b>	Range <b>37 East</b>	County <b>Lea</b>	
Actual Footage Location of Well: * <b>1989</b> feet from the <b>North</b> line and <b>440</b> feet from the <b>East</b> line of Sec. 19					
Ground Level Elev.	Producing Formation <b>Yates-Seven Rivers</b>	Pool <b>Jalmat (Gas)</b>	Dedicated Acreage: <b>80</b> Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.  
See attached C-102
- 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. \* Bottom hole location at 3200 feet TVD.



FINAL STATION:  
DEPTH 3258 MD 3188.96 TVD  
NORTH 5.21 WEST 559.16  
CLOSURE 559.19 N89 27 57W

CERTIFICATION

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

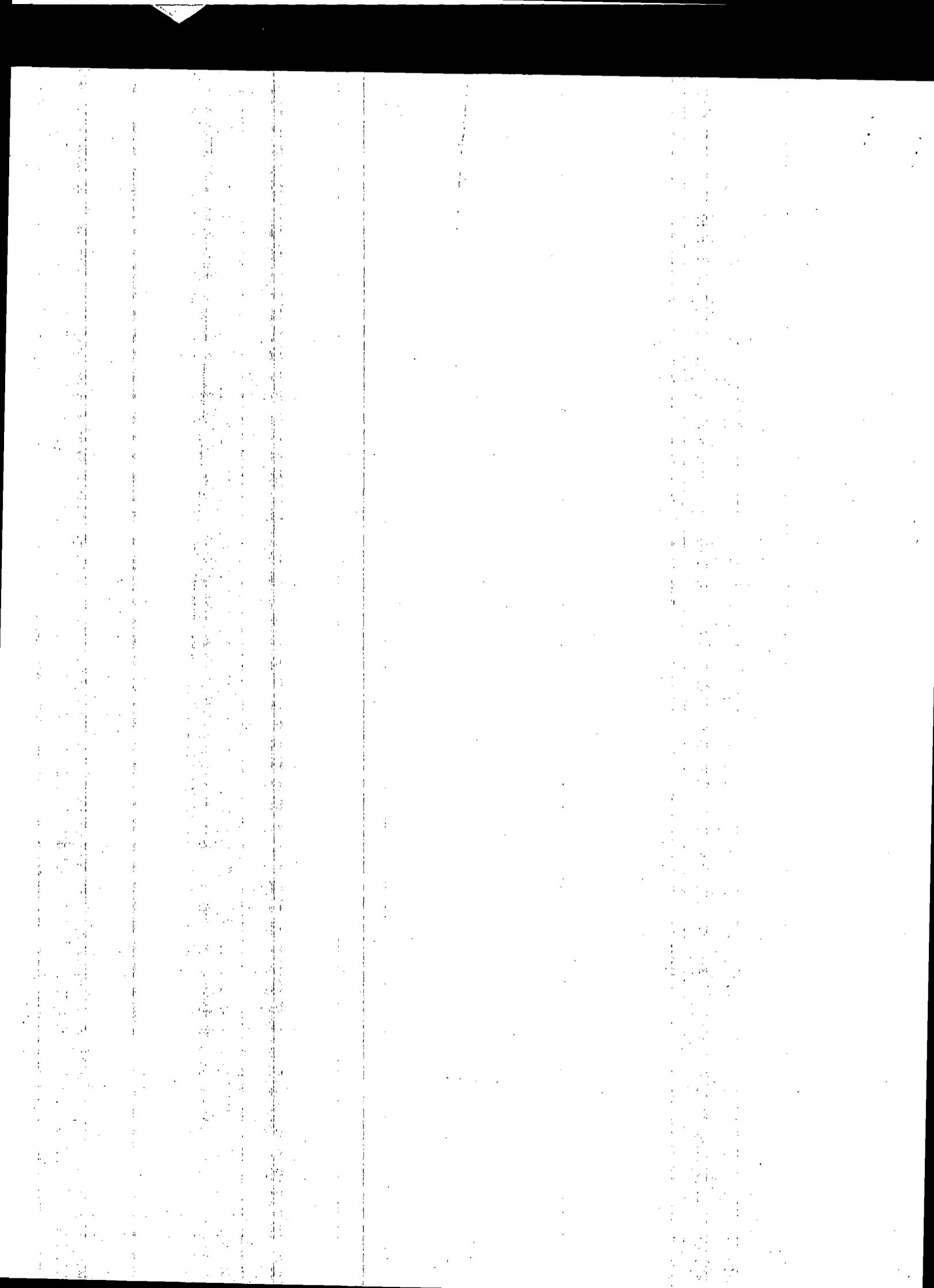
Name  
*Larry C. Nemo*  
Profession  
*Engineer*  
Company  
*DOYLE HARTMAN*  
Date  
*Nov 2, 1981*

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

Date Surveyed \_\_\_\_\_

Registered Professional Engineer and/or Land Surveyor

Certificate No. \_\_\_\_\_



NEW MEXICO OIL CONSERVATION COMMISSION  
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

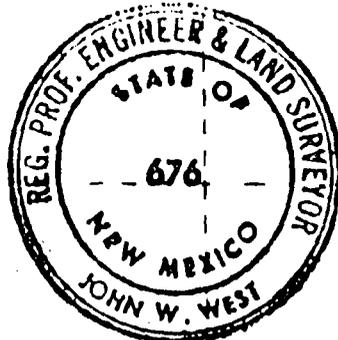
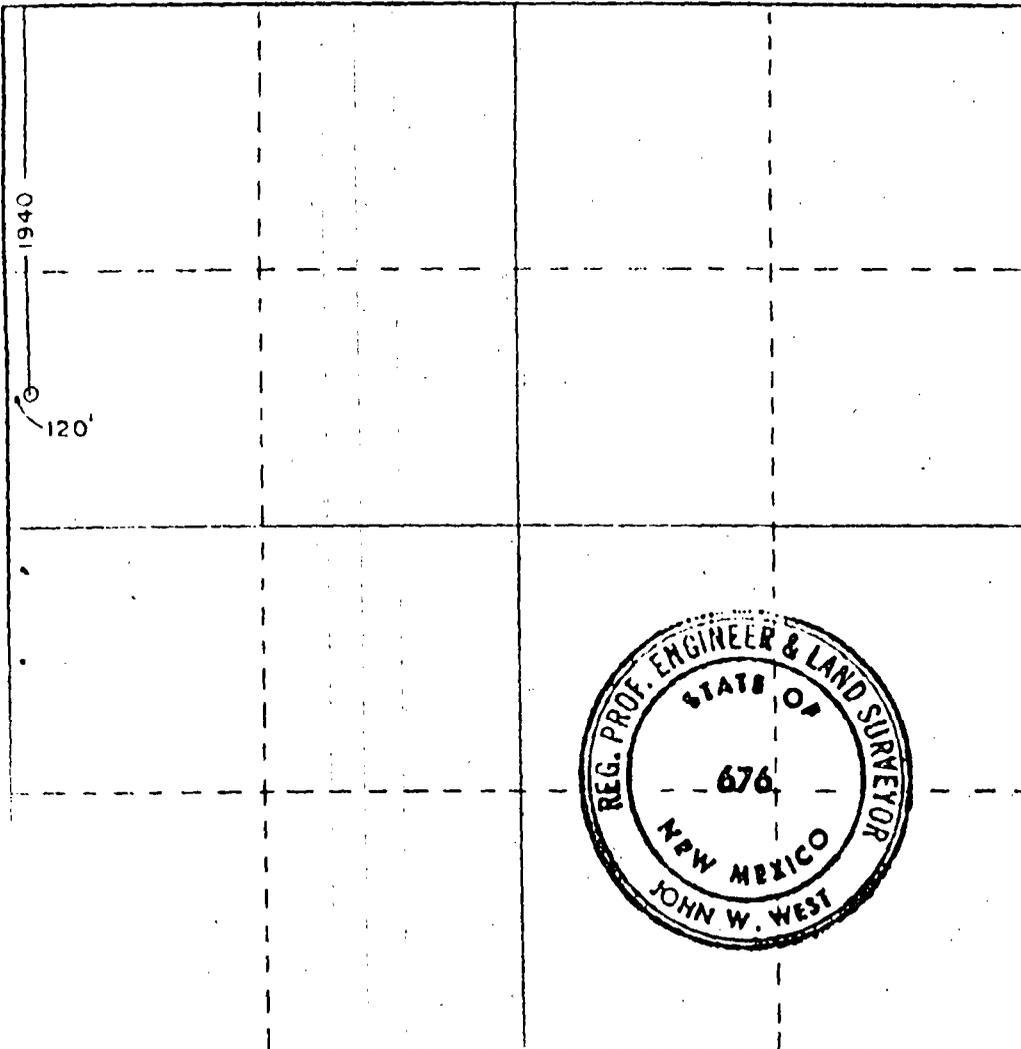
Operator Doyle Hartman		Lease B.M. Justis			Well No. 10
Grid Letter E	Section 20	Township 25 South	Range 37 East	County Lea	
Actual True Location of Well: 1940 feet from the North line and 120 feet from the West line					
Ground Level Elev. 3067.5'	Producing Formation Yates-Seven Rivers		Fluid Jalmat (Gas)	Indicated Acreage: 80 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.  
See Attached C-102
- 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.

Name  
*Larry G. Nummy*

Profession  
ENGINEER

Client  
DOYLE HARTMAN

Date  
Nov 2, 1981

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.

OCT 23 1981

Date Surveyed  
Oct. 20, 1981

Registered Professional Engineer and Land Surveyor

*John W. West*

Certificate No. JOHN W. WEST 676  
PATRICK A. ROMERO 6845  
Ronald J. Eidson 2239



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

SURVEY CERTIFICATION SHEET

STATE OF TEXAS  
COUNTY OF MIDLAND

I, Kent V. Tidwell in the employ of Eastman Whipstock, Inc. did on the days of November 22, 1981 thru November 30, 1981 conduct or supervise the taking of a Magnetic Single Shot survey by the method of magnetic orientation from a depth of 600 feet to 3210 feet, with recordings of inclination and direction being obtained at approximate intervals of 100 feet.

This survey was conducted at the request of Doyle Hartman Oil Company for their B.M. Justis Well No. 10, Lea County, State of N MEXICO, in the \_\_\_\_\_ field.

The data for this survey and the calculations 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.

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.

Before me, the undersigned authority, on the day personally appeared Kent V. Tidwell, known to me to be the person whose name is subscribed to the 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 15<sup>th</sup> day of DEC., 1981.

Notary Public in and for the County  
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, Gary DeSpain in the employ of Eastman Whipstock, Inc. did on the days of November 23, 1981 thru November 23, 1981 conduct or supervise the taking of a Gyroscopic Multishot survey by the method of magnetic orientation from a depth of 0 feet to 600 feet, with recordings of inclination and direction being obtained at approximate intervals of 100 feet.

This survey was conducted at the request of Doyle Hartman Oil Company for their B.M. Justis Well No. 10, Lea County, State of New Mexico, in the \_\_\_\_\_ field.

The data for this survey and the calculations 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.

[Signature]  
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.

Tim Stephens

Before me, the undersigned authority, on the day personally appeared Gary DeSpain, known to me to be the person whose name is subscribed to the 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 1.52 day of DEC, 1981.

[Signature]  
Notary Public in and for the County  
Midland, Texas  
My commission expires 7/9/85



P. O. Box 5577 / Midland, Texas 79701 / (915) 563-0511  
TWX 910-881-5066 / Cable: EASTCO

SURVEY CERTIFICATION SHEET

STATE OF TEXAS  
COUNTY OF MIDLAND

I, Troy Oney, in the employ of Eastman Whipstock, Inc., did on the days of 11-30, 1981 thru 11-81, 1981 conduct or supervise the taking of a Magnetic Multi Shot survey by the method of magnetic orientation from a depth of 600' feet to 3258' feet, with recordings of inclination and direction being obtained at approximate intervals of 92' feet.

This survey was conducted at the request of Doyle Hartman Oil Production for their B. M. Justis Well No. 10, Lea County, State of New Mexico, in the \_\_\_\_\_ field.

The data for this survey and the calculations 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.

Troy Oney  
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.

Tim Stephens

Before me, the undersigned authority, on this day personally appeared Troy Oney, 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 1<sup>ST</sup> day of DEC., 1981.

Ray C. Stenke  
Notary Public in and for the County of  
Midland, Texas  
My commission expires 7/9/81

