

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

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

ADMINISTRATIVE ORDER

NFL 30

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. Shell State No. 5
Location: Unit J Sec. 13 Twp. 23-S Rng. 36-E Cty. Lea County

II.

THE DIVISION FINDS:

- (1) That Section 271.305(b) of the Federal Energy Regulatory Commission Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find that the infill well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit.
- (2) That by Order No. R-6013-A, dated February 8, 1980, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.
- (3) That the well for which a finding is sought is completed in the Jalmat (Gas) Pool Pool, and the standard spacing unit in said pool is 640 acres.
- (4) That a 160-acre proration unit comprising the SE/4 of Sec. 13, Twp. 23-S, Rng. 36-E, is currently dedicated to the Shell State No. 2 located in Unit P of said section.
- (5) That this proration unit is () standard (x) nonstandard; if nonstandard, said unit was previously approved by Order No. R-520.
- (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 278,551 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 29th day of December, 1981.


DIVISION DIRECTOR

EXAMINER

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. Shell State No. 5
Location: Unit 5 Sec. 13 Twp. 23-S Rng. 36-E Cty. Lea

II.
THE DIVISION FINDS:

- (1) That Section 271.305(b) of the Federal Energy Regulatory Commission Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find that the infill well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit.
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- (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 160-acre proration unit comprising the SE/4 of Sec. 13, Twp. 23-S, Rng. 36-E, is currently dedicated to the Shell State No. 2 located in Unit P of said section.
- (5) That this proration unit is () standard ☒ nonstandard; if nonstandard, said unit was previously approved by Order No. ~~R-520~~ R-520.
- (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 278,551 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 _____.

John D. Roney
DIVISION DIRECTOR EXAMINER

DOYLE HARTMAN

Oil Operator

500 N. MAIN

P. O. BOX 10426

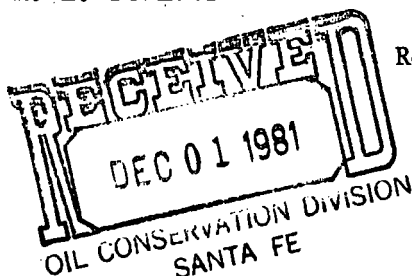
MIDLAND, TEXAS 79702

(915) 684-4011

November 24, 1981

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

Attention: Mr. R. L. Stamets



Re: Administrative Procedure
Infill Finding
Shell State No. 5
SE/4 Section 13 *Unit 5*
T-23-S, R-36-E
Lea County, New Mexico

Gentlemen:

Pursuant to Section 271.305 of the Final Rules and Regulations of the Federal Energy Regulatory Commission relating to Section 103 of the Natural Gas Policy Act of 1978, and to Order R-6013-A of the New Mexico Oil Conservation Division, we hereby request an infill finding (NFL) for the above captioned Shell State No. 5 located 1800 FSL & 1650 FEL Section 13, T-23-S, R-36-E, Lea County, New Mexico.

With regard to our request, and in accordance with Order R-6013-A, we submit the following:

- Rule 5 A copy of approved Form C-101 for the infill well and Form C-102 showing the proration unit dedicated to the well are enclosed.
- Rule 6 The name of the pool in which the infill well has been drilled is Jalmat (Gas), and the standard spacing unit therefor is 160 acres.
- Rule 7 The number of the Division order approving the non-standard proration unit dedicated to the well is not applicable, but the Administrative Order SD-81-6 authorized simultaneously dedicating the SE/4 Section 13 to the Shell State No. 2 (P-13-23S-36E) and the Shell State No. 5 (J-13-23S-36E).
- Rule 8 Form entitled CERTIFICATION OF WELL DATA ON PRORATION UNIT PLAT describes all wells drilled on the proration unit (including the completed infill well) which are or have been completed in the same pool or reservoir as the proposed infill well showing:

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

Rule 9 Letter dated November 23, 1981, from William P. Aycock submits geological and engineering information sufficient to support a finding as to the necessity for an infill including:

- a. formation structure map;
- b. the volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined;
- c. any other supporting data which the applicant deems to be relevant which may include:
 1. porosity and permeability factors
 2. production/pressure decline curve
 3. effects of secondary recovery or pressure maintenance operations.

Rule 10 This application for infill finding is being filed in duplicate with the Santa Fe office of the Division.

Rule 11 All operators of proration or spacing units offsetting the unit for which an infill finding is sought have been notified of this application by certified or registered mail.

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

Very truly yours,

DOYLE HARTMAN

Michelle Hembree

Michelle Hembree
Administrative Assistant

State of New Mexico
Page 3

/mh

Enclosures as above

NO. _____

DATE RECEIVED _____

DISTRICT _____

SALT A _____

FILE _____

U.S.S.S. _____

LAND OFFICE _____

OPERATOR _____

NEW MEXICO OIL CONSERVATION COMMISSION

30-025-27585

Form O-101
Revised 1-14-80

5A. Well Site Location

STATE ☒ NEW MEXICO

5. State Oil & Gas Conservation

B-1167

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6a. Type of Work

DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. Type of Well

OIL WELL ☐ GAS WELL ☒ OTHER ☐

SINGLE ZONE ☒ MULTIPLE ZONE ☐

8. Name of Operator

Doyle Hartman, Oil Operator

9. Address of Operator

P. O. Box 10426, Midland, TX 79702

10. Location of Well

UNIT LETTER J LOCATED 1800 FEET FROM THE South LINE

1650 FEET FROM THE East LINE OF SEC. 13 TWP. 23 RGT. 36

11. Formation

Yates-Seven Rivers Rotary

12. Proposed Depth

3450

13. Proposed Casing Depth

3367.1 GL

14. Proposed Cement Program

Multi-well approved

21B. Drilling Contractor

Kenai

22. Date of Permit

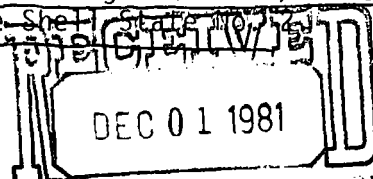
October, 1981

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	9 5/8	40.5	400	150	Surface
8 3/4	7	26.0	3450	600	Surface

The proposed well will be drilled to a total depth of 3450 feet and will be completed as a Jalmat (Yates-Seven Rivers) gas producer. From the base of the surface pipe through the running of the production casing, the well will be equipped with a 3000-psi double ram BOP system.

- Note: (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 SE/4 Section 13 and will share an allowable with the Shell State 10/17/81



APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 4/1/82
UNLESS DRILLING UNDERWAY

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

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

Signed Larry G. Nix Title Petroleum Engineer Date September 29, 1981

(This space for State Use)

APPROVED BY Larry Sexton TITLE Asst. 1. Supv DATE OCT 1 1981

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-1
Superseded O-12A
Effective 1-1-75

All distances must be from the outer boundaries of the Section

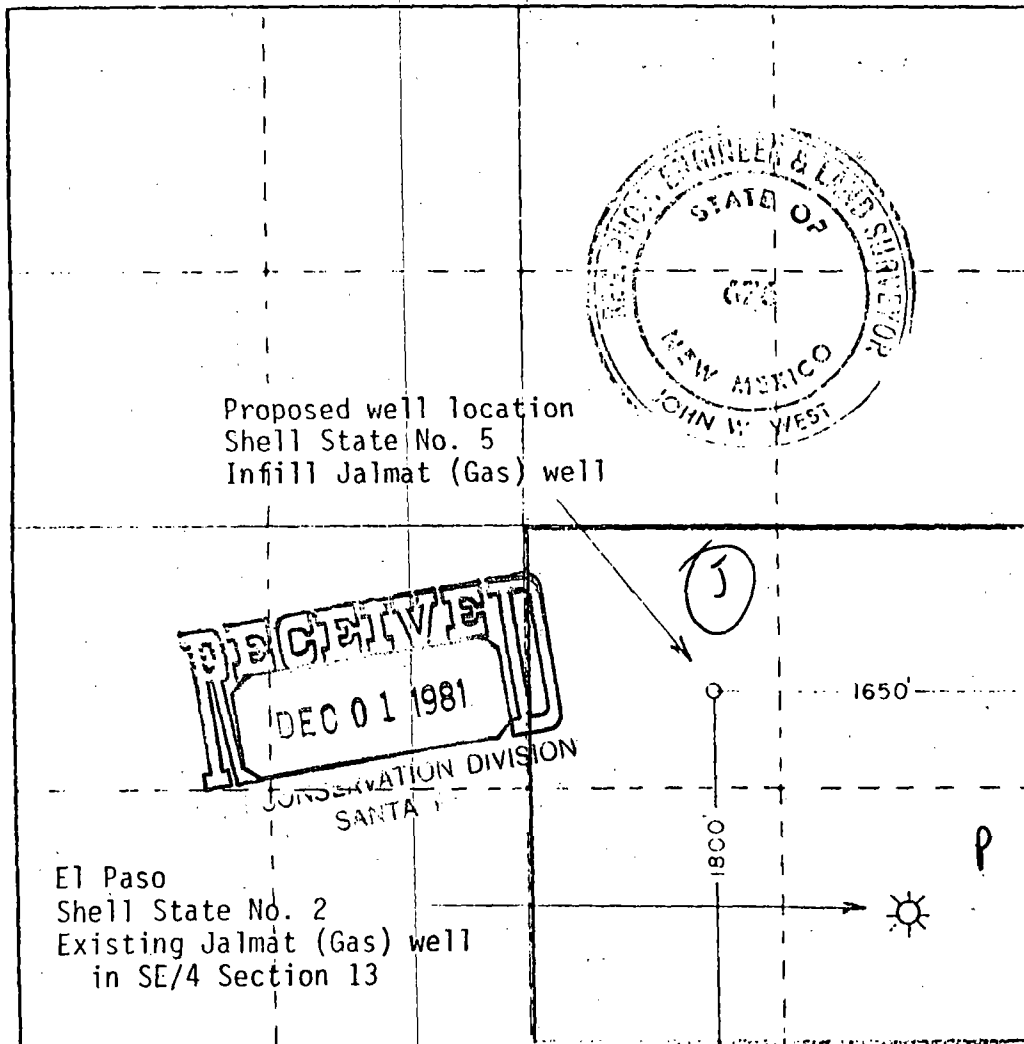
Owner Doyle Hartman		Lease Shell State		Section 5
Quarter J	Section 13	Township 23 South	Range 36 East	County Lea
Distance from well to section corner 1800		Distance from well to range corner 1650		Distance from well to section corner East
Section 3367.1	Yates-Seven Rivers		Jalpat	160

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

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

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

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



CERTIFICATION

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

Larry G. Nummy

Engineer

Doyle Hartman

September 29, 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

Sept. 26, 1981

Registration Professional Engineer and Land Surveyor

John W. West

Certificate No. JOHN W. WEST 676
PATRICK A. ROMERO 6668
RONALD J. E. WILSON 1239

CERTIFICATION OF WELL
DATA ON PRORATION
PLAT (NMOCD Form C-102)

DOYLE HARTMAN, as Operator the herein designated well does hereby certify as required under OCD Order R-5878 Rule 15.4:

- (A) The location plat (C-102) corresponding to the herein designated well depicts all current producing wells or previously abandoned wells located on the subject acreage.
- (B) A description of any applicable well(s) that are located on the subject proration unit and that are presently producing or have previously produced from the same reservoir for which this Infill Filing is being made is as follows:

Operator: Doyle Hartman (previously El Paso Natural Gas Co.)
Well: Shell State No. 2
Location: 660 FSL & 660 FEL (P), Sec. 13, T-23-S, R-36-E
Spud Date: 4-20-54
Reservoir: Jalmat (Gas)
Production Period: 5-18-54 to present
Cumulative Gas Production: 9-1-81 Cum: 3704 MMCF
Abandonment Date: Still producing. Avg. 1981 prod: 49 MCFPD
Remarks: No report of mechanical problems. For a clear and concise statement indicating why the existing well cannot effectively and efficiently drain the SE/4 Section 13, see William P. Aycock's letter dated November 23, 1981.

Michelle Hembree
Michelle Hembree

WILLIAM P. AYCOCK & ASSOCIATES, INC.

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

November 23, 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: N.G.P.A. Administrative Gas Well
Infill Application for
Doyle Hartman's Shell-State No. 5,
13(J)-23S-36E, Jalmat Pool,
Lea County, New Mexico

Gentlemen:

Attached are the following, submitted in conformance with the
Special Rules and Regulations, Natural Gas Policy Act Infill
Findings Administrative Procedure:

Structure Map, Top of Yates Formation, Jalmat Pool
in the Vicinity of the Application Well

Well Logs with Completion Information Headers for the
Doyle Hartman (Originally El Paso Nat. Gas Co.)
Shell-State No. 2 and Doyle Hartman Shell-State No. 5,
the Jalmat Pool gas wells located in Units P and J,
respectively of the 160-acre lease comprising the
SE/4, 13-23S-36E

Exhibit 4 (with attachments)

Should you require other information in this connection, we should
be pleased to provide it, upon request.

Very truly yours,


Wm. P. Aycock, P.E.

WPA/bw

Attachments

WILLIAM P. AYCOCK & ASSOCIATES, INC.

Petroleum Engineering Consultants

308 WALL TOWERS WEST

MIDLAND, TEXAS 79701

PHONE 915/683-5721

November 23, 1981

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

Subject: Exhibit 4, N.G.P.A. Administrative
Gas Well Infill Application for
Doyle Hartman's Shell-State
No. 5 Well, 13(J)-23S-36E
Jalmat Pool, Lea County, New Mexico

Gentlemen:

Rules 8 and 9 of Exhibit A, Order R-6013-A, entitled Special Rules and Regulations, Natural Gas Policy Act Infill Findings Administrative Procedure, require engineering studies as the predicate for answers. Such studies were performed for the Doyle Hartman (formerly El Paso Natural Gas Co.) Shell-State No. 2 in Unit P of 13-23S-36E and the Doyle Hartman Shell-State No. 5 in Unit J of 13-23S-36E.

The Doyle Hartman (formerly El Paso Natural Gas Co.) Shell-State No. 2 was spudded April 20, 1954, and completed May 5, 1954, from open hole section between the production casing seat at a depth of 2946 feet and total depth of 3198 feet in the Yates and Seven Rivers formations. The well was completed naturally, without stimulation. A Multi-Point Back Pressure Test for this well was conducted between November 19, 1954, and November 23, 1954, resulting in an absolute potential of 5850 MCF/day. The proration unit dedicated to this well was the 160 acres comprising the SE/4 Section 13, Township 23 South, Range 36 East.

As of September 30, 1981, this well had produced an accumulative gas volume of 3,704,850 MCF, and the September 1981 gas production rate averaged 46.8 MCF per day.

Analysis of the available reservoir data derived from the Doyle Hartman Shell-State No. 2 yields the following results:

Volumetric Analysis

Mean Porosity, Fcn. of Bulk Volume	0.108 ^Δ
Mean Con. Water Saturation, Fcn. of Net Effective Pore Space	0.161 ✓
Net Effective Pay Thickness, feet	73 ✓

Pressure Analysis

Original Gas-in-place, MCF	4,144,000✓
Estimated Remaining Gas-in-place at November 18, 1981, MCF	438,093✓
Estimated Gas Recoveries, MCF:	
Ultimate	3,743,659✓
Future at November 18, 1981	37,752✓
Estimated Gas Recovery Factors, Fcn. of Original Gas-in-place:	
From Initial Production	0.903
From November 18, 1981	0.0862

These analyses indicate that the Hartman Shell-State No. 2 future production will result in an estimated gas volume of 401,968 MCF remaining in place and not recovered at depletion to an estimated economic limit of production of 500 MCF per month.

The Doyle Hartman Shell-State No. 5 was spudded October 5, 1981, and completed October 23, 1981, from the Jalmat Pool interval between well depths of 2970 and 3172 feet after having been stimulated with 4500 gallons of mud cleanout acid and a hydrofracture treatment of 72,000 gallons of gelled water with 173,000 pounds of sand proppant. The single-point potential test for the Hartman Shell-State No. 5 was flowing 323 MCF/day on the casing with a flowing pressure of 71 psi and 25/64 inch choke; an insert-type rod pump was run inside tubing, in order to allow fluid to be efficiently and continuously removed from the well. The SE/4 Section 13, Township 23 South, Range 36 East was simultaneously dedicated to the Doyle Hartman Shell-State No. 2 and the Doyle Hartman Shell-State No. 5, with the total allowable assigned based upon a 160-acre proration unit and allowing the Shell-State No. 5 to produce the balance of such allowable of which the Shell-State No. 2 is incapable of producing. The Doyle Hartman Shell-State No. 5 was first placed on production on November 18, 1981.

Analysis of the available reservoir data derived from the Doyle Hartman Shell-State No. 5 yields the following results:

Volumetric Analysis

Mean Porosity, Fcn. of Bulk Volume	0.198
Mean Con. Water, Saturation, Fcn. of Net Effective Pore Space	0.171
Net Effective Pay Thickness, Feet	180

Pressure Analysis

Original Gas-in-place, MCF	438,093
Estimated Ultimate Gas Recovery, MCF	316,303
Estimated Gas Recovery Factor, Fcn. of Original Gas-in-place	0.722

Therefore, comparison of the data for the original Jalmat Pool well (the Shell-State No. 2) on the 160-acre proration unit comprising the SE/4 Section 13, Township 23 South, Range 36 East with the data for the infill well (Shell-State No. 5) yields the following:

	^{#2} Original Well	^{#5} Infill Well	Difference
<u>Volumetric Analysis</u>			
Mean Porosity	0.108	0.198	+0.090
Mean Connate Water Saturation	0.161	0.171	+0.010
Net Effective Pay, feet	73	180	+107.?
Net Effective Pore Space	6.615	29.546	+22.931

Pressure Analysis

Remaining Gas-in-place, MCF @ 11-18-81	438,093	438,093	--
Estimated Gas Recovery, MCF from 11-18-81	37,752	316,303	+278,551
Estimated Gas Recovery Factor, Fcn. of Remaining Gas-inplace @ 11-18-81	0.0862	0.722	+0.636

The estimated increased gas recovery attributable to the infill well may then be calculated as the difference in 316,303 MCF (the infill well estimated ultimate recovery) and 37,752 MCF (the original well estimated remaining gas recovery at November 18, 1981), which is 278,551 MCF.

Attached are the following supporting data:

1. Complete N.M.O.C.D. forms for both the original well and the infill well
2. Gas Production History for the Doyle Hartman Shell-State No. 2 (the original well)

New Mexico Department of Energy and Minerals
November 23, 1981
Page 4

3. Graph of BHP/Z as a function of cumulative gas recovery for the Doyle Hartman Shell-State No. 2 (the original well)
4. Engineering log analysis calculations for both the Hartman Shell-State No. 2 (the original well) and the Hartman Shell-State No. 5 (the infill well)

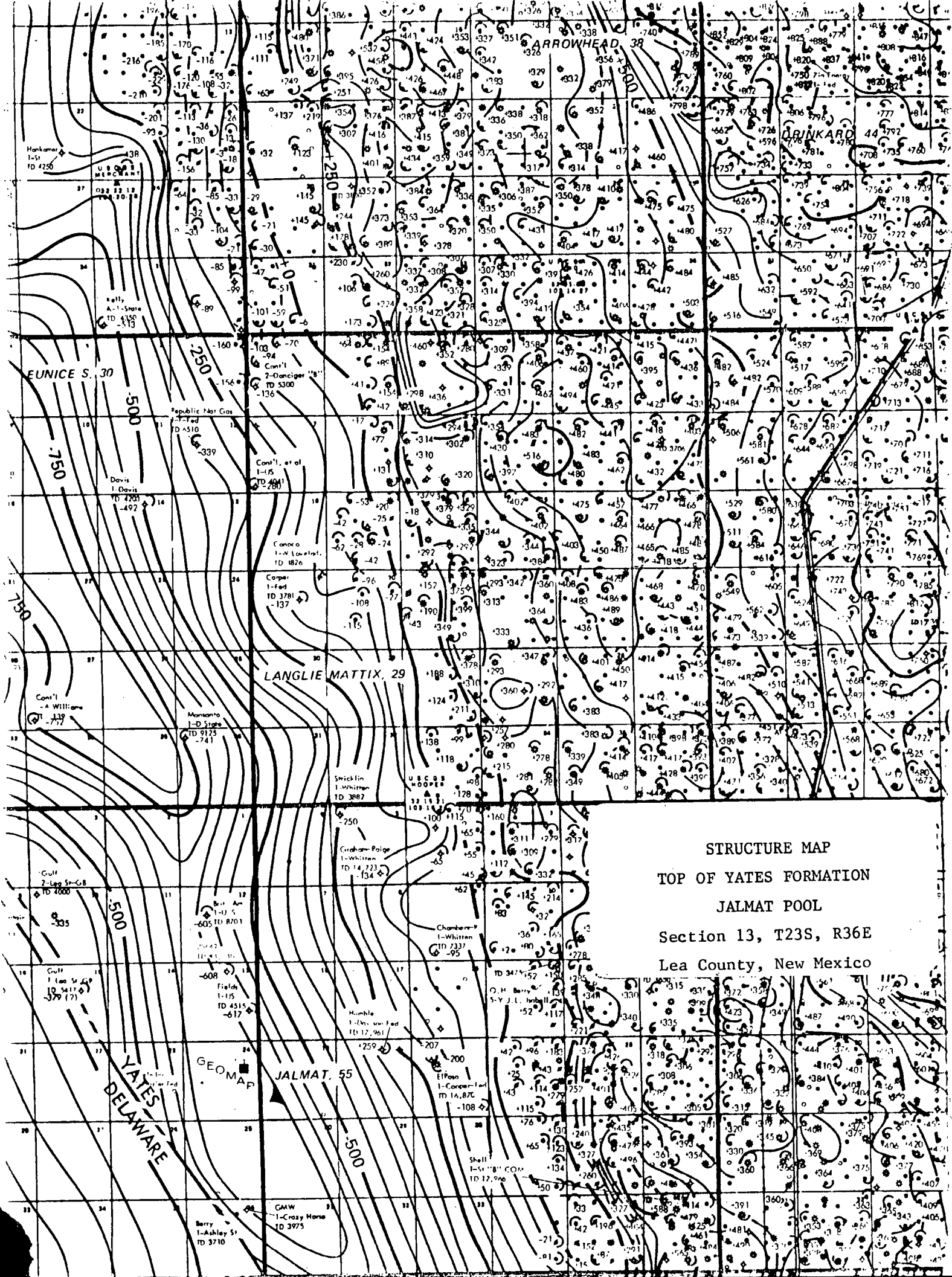
While we believe that this information adequately substantiates the infill finding, we should be pleased to furnish you with any other available information which you might desire.

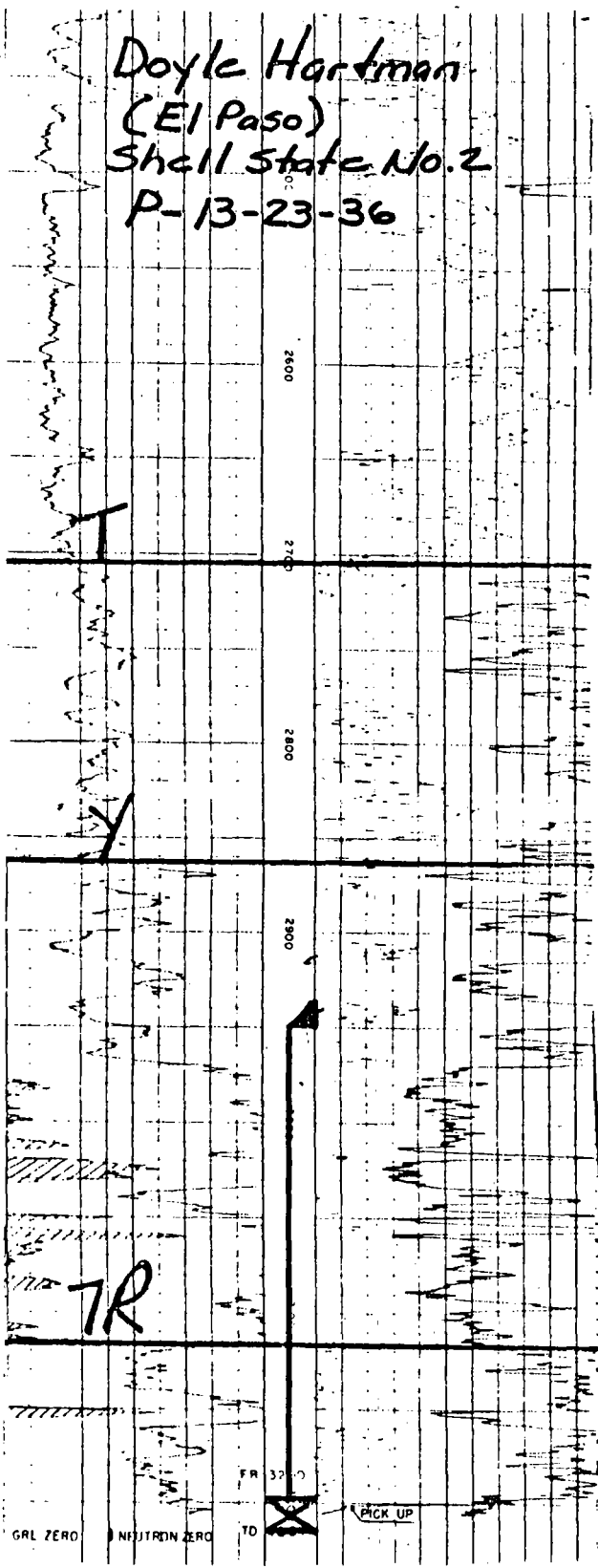
Yours very truly,


Wm. P. Aycock, P.E.

WPA/bw

Enclosures





COMPANY	Doyle Hartman (El Paso Natural Gas Company)
WELL	Shell State No. 2
FIELD	Jalmat (Gas)
LOCATION	660 FSL & 660 FEL (P) Section 13, T-23-S, R-36-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS:	KB _____ DF 3362 GL 3348

COMPLETION RECORD			
SPUD DATE	4-20-54	COMP. DATE	5-18-54
TD	3198	PBTD	3198
CASING RECORD	13 3/8 @ 225 w/400 8 5/8 @ 1220 w/494 5 1/2 @ 2946 w/900		
PERFORATING RECORD	OH: 2946-3198 (Yates-Seven Rivers)		
STIMULATION	Natural		
IP	CAOF= 6780 MCFPD		
GOR	GR		
TP	CP		
CHOKE	TUBING	2 3/8 @	3176
DST RECORD			
REMARKS	Avg 1981 Prod: 49 MCFPD (8 mo.) 9-1-81 Cum: 3704 MMCF		

COMPANY	Doyle Hartman		
WELL	Shell-State No. 5		
FIELD	Jalmat (Gas)*		
LOCATION	1800 FSL & 1650 FEL (J)		
	Section 13, T-23-S, R-36-E		
COUNTY	Lea		
STATE	New Mexico		
ELEVATIONS:	KB	3379	
	DF	3378	
	GL		

COMPLETION RECORD			
SPUD DATE	10-5-81	COMP. DATE	10-23-81
TD	3445	PBTD	3440
CASING RECORD	9 5/8 @ 432 w/225		
	7 @ 3445 w/550		
PERFORATING RECORD	Perf: 2970-3172 w/19		
	(Yates-Seven Rivers)		
STIMULATION	A/4500		
	SWF/72,000 + 173,000		
IP	IP= 323 MCFPD + 4 BHPD		
GOR	Dry Gas	GR	
TP		CP	71 psi
CHOKE	25/64 TUBING	2 3/8 @	3335
DST RECORD			
	* Infill gas well simultaneously		
	dedicated along with Shell State		
	No. 2 to the SE/4 Section 13,		
	T-23-S, R-36-E.		
REMARKS			

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION

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

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

Operator Doyle Hartman			Lease Shell State			Well No. 2		
Well Letter P	Section 13	Township 23 South	Range 36 East	County Lea				
Actual Location of Well:								
660	feet from the South		Line and	660	feet from the East		Line	
Ground Level Elev. 3362	Producing Formation Jalmat(Gas)			Pool Yates-Seven Rivers	Dedicated Acreage 160			Acres

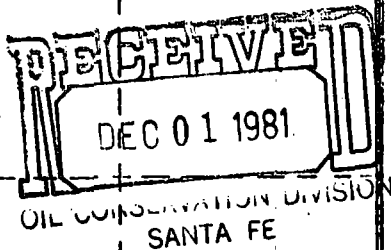
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is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

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

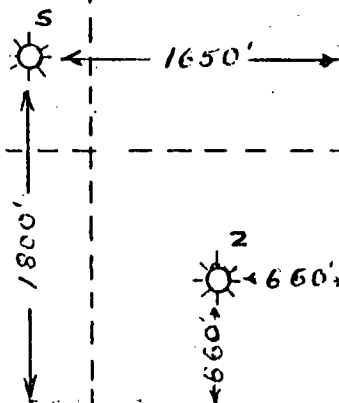
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

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

As per administrative order SD-81-6, the Shell State No. 2 located 660 FSL & 660 FEL Section 13 and the Shell State No. 5 located 1800 FSL & 1650 FEL Section 13 are to be simultaneously dedicated to the same 160 acre Jalmat (Gas) Proration Unit consisting of the SE/4 Section 13, T-23-S, R-36-E Lea County, New Mexico.



Shell State Lease



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. Norman</i>
Position Engineer
Company Doyle Hartman
Date 10-26-81

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.

660 90 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

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

NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE OCC

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

1957 FEB 11 AM 10:01

Pool Jalmat Formation Yates & 7 Rivers County LeaInitial _____ Annual _____ Special X Date of Test 11-19 to 11-23-56Company El Paso Natural Gas Company Lease Shell State Well No. 2Unit P Sec. 13 Twp. 23 S Rge. 36 E Purchaser El Paso Natural Gas CompanyCasing 5 1/2 Wt. 15.5 I.D. 8.076 Set at 2946 Perf. _____ To _____Tubing 2 Wt. 4.7 I.D. 1.995 Set at 3176 Perf. _____ To _____Gas Pay: From 2946 To 3198 L 3176 xG .655 -GL 2080 Bar.Press. 13.2Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. DualDate of Completion: 5-5-54 Packer None Reservoir Temp. _____

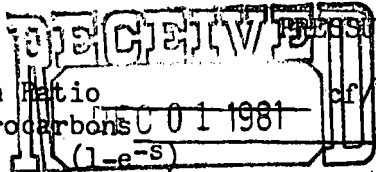
OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)Type Taps Flange

No.	Flow Data				Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.
SI									
1.	4	1.500	634	7.84	70	905		905	72
2.	4	1.500	624	16.81	98	842		853	24
3.	4	1.500	631	23.04	92	805		821	24
4.	4	1.500	610	62.41	90	777		799	24
5.						626		702	24

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MGFPD @ 15.025 psia
1.	13.99	71.22		.9905	.9571	1.065	1,006
2.	13.99	103.48		.9653	.9571	1.054	1,410
3.	13.99	121.81		.9706	.9571	1.056	1,672
4.	13.99	197.18		.9723	.9571	1.054	2,707
5.							



PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.

Specific Gravity Separator Gas _____

Specific Gravity Flowing Fluid _____

P_c 918.2 P_c² 843.1OIL CONSERVATION DIVISION
SANTA FE

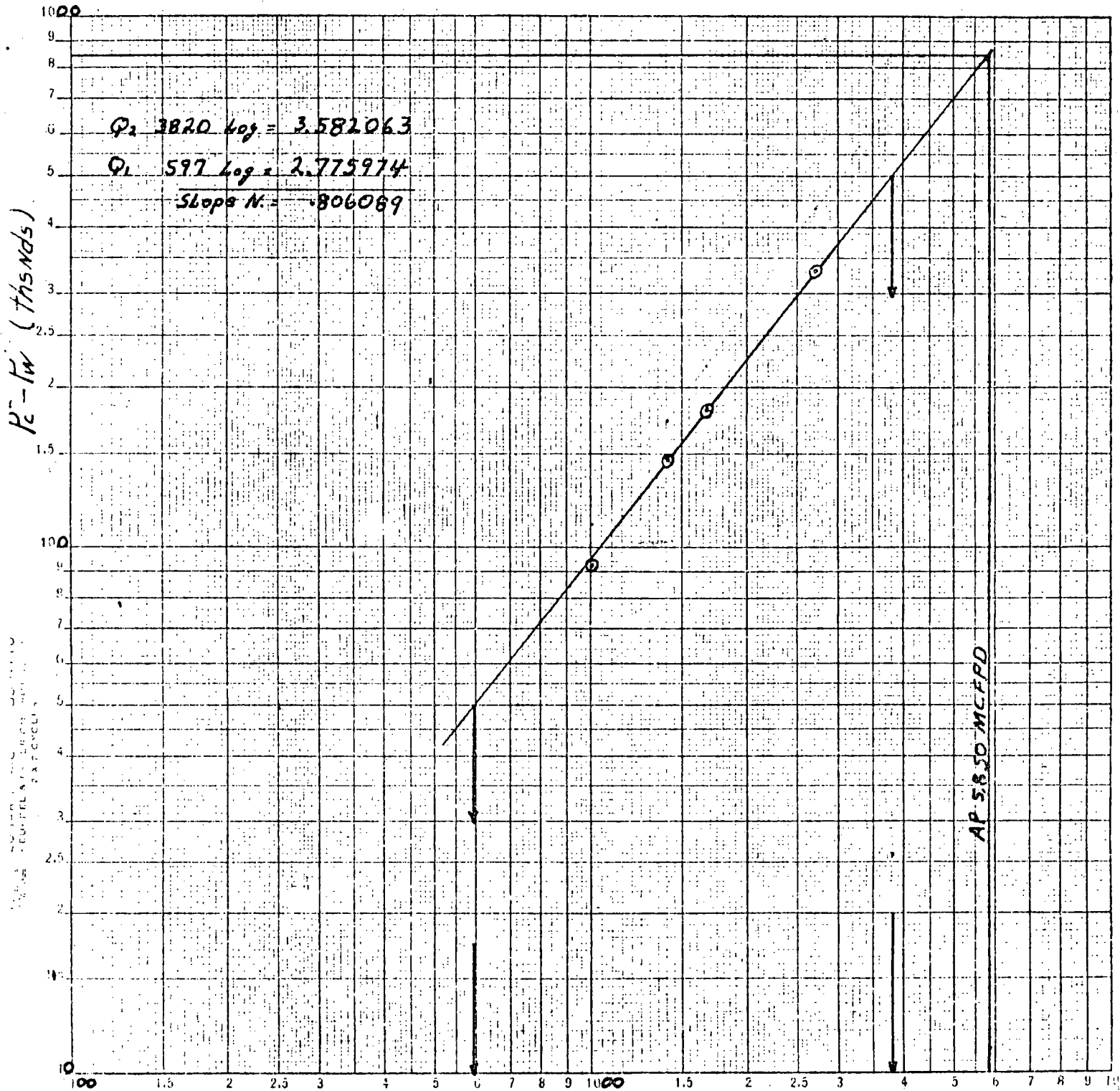
No.	P _w P _{ex} (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.	866.2	731.4				750.3	92.8		
2.	834.2	669.5				695.9	147.2		
3.	812.2	624.4				659.7	183.4		
4.	715.2	408.8				511.5	331.6		
5.									

Absolute Potential: 5,850 MCFPD; n .806COMPANY El Paso Natural Gas CompanyADDRESS P. O. Box 1384, Jal., New MexicoAGENT and TITLE R. T. Wright - Petroleum EngineerWITNESSED Jack T. LittlefieldCOMPANY El Paso Natural Gas Company

REMARKS

RECEIVED
FEB 11 1957
OCC

El Paso Natural Gas Co.
 Shell State #2
 Sec. 13-T23S-R36E Lea N.M.
 11-23-56



Q - MCFPD

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
BOX 2045
HOBBS, NEW MEXICO

DATE May 24, 1954

TO: El Paso Natural Gas Company

Box 1384, Jal, New Mexico

GENTLEMEN:

Form C-104 for your Shell-State # 2 13-23-36 Langmat
LEASE WELL S.T.R. POOL

has been approved, however, since this well is:

- () An unorthodox location,
- () Located on an unorthodox proration unit,
- () Outside the boundaries of a designated pool,

it will be necessary for you to;

- () Comply with the provisions of Rule 4 of Commission Order _____
- () Comply with the provisions of Rule 7 of Commission Order _____
- () File form C-123

Pending further Commission action this unit will be assigned an _____ acre allowable.

Normal 160 Acre Unit

OIL CONSERVATION COMMISSION

by Stanley J. Stanley

CCC/ms

cc/ Transporter **El Paso Natural Gas**

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

NOBDS OFFICE OCC

It is necessary that Form C-104 be approved before this form can be approved on an initial allowable be assigned to any completed Oil or Gas well. Submit this form in **QUADRUPPLICATE**

**CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS**

Company or Operator **El Paso Natural Gas Company** Lease **Shell - State**

Address **Box 1384, Jal, New Mexico** **Box 1492, El Paso, Texas**
(Local or Field Office) (Principal Place of Business)

Unit **P**, Well(s) No. **2**, Sec. **13**, T. **23 S**, R. **36 E**, Pool. **Langmat**

County **Lea** Kind of Lease: **State**

If Oil well Location of Tanks

Authorized Transporter **El Paso Natural Gas Company** Address of Transporter

Box 1384, Jal, New Mexico **Box 1492, El Paso, Texas**
(Local or Field Office) (Principal Place of Business)

Per cent of Oil or Natural Gas to be Transported **100%** Other Transporters authorized to transport Oil or Natural Gas

from this unit are

REASON FOR FILING: (Please check proper box)

NEW WELL ☒ CHANGE IN OWNERSHIP ☐

CHANGE IN TRANSPORTER ☐ OTHER (Explain under Remarks) ☐

REMARKS: **Request for allowable under new proration schedule.**

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the **18th** day of **May** 19 **54**

EL PASO NATURAL GAS COMPANY

Approved _____, 19____

OIL CONSERVATION COMMISSION

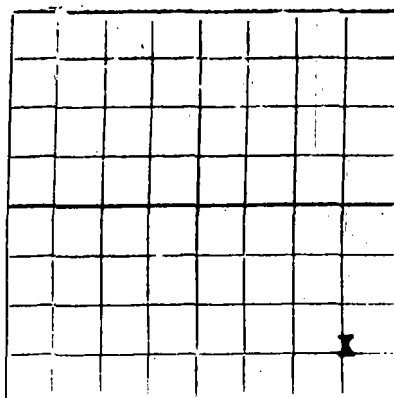
By **J. G. Stanley**

Title _____

By **Larry C. Zink**

Title **Division Geologist**

NEW MEXICO OIL CONSERVATION COMMISSION

DUPLICATE
Santa Fe, New Mexico
HOBBS OFFICE OCC
1954 MAY 24 AM 7:37
WELL RECORDAREA 640 ACRES
LOCATE WELL CORRECTLY

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE.

El Paso Natural Gas Company

Shell State

(Company or Operator)

(Lease)

Well No. 2, in SE $\frac{1}{4}$ of SE $\frac{1}{4}$ of Sec. 13, T. 23 S, R. 36 E, NMPM.

Langmat

Pool,

Lea

County.

Well is 660 feet from East line and 660 feet from South lineof Section 13. If State Land the Oil and Gas Lease No. is B-1167Drilling Commenced April 20, 19 54. Drilling was Completed May 5, 19 54.Name of Drilling Contractor Gackle Drilling CompanyAddress Hobbs, New MexicoElevation above sea level at Top of Tubing Head 3351 feet. The information given is to be kept confidential until _____, 19____.

OIL SANDS OR ZONES

No. 1, from <u>2968</u> to <u>3035</u>	No. 4, from _____ to _____
No. 2, from <u>3050</u> to <u>3115</u>	No. 5, from _____ to _____
No. 3, from <u>3160</u> to <u>3190</u>	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 <u>160</u> to <u>190</u> feet.	_____
No. 2, from _____ to _____ feet.	_____
No. 3, from _____ to _____ feet.	_____
No. 4, from _____ to _____ feet.	_____

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
13-3/8 OD	29.5#	New	225	Float			Surface
8-5/8 OD	32#	New	1220	Float			Intermediate
5-1/2 OD	15.5#	New	2946	Packer Shoe			Production

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
17-1/2"	13-3/8	225	400	Halliburton	10.2#/gal	
11-1/4"	8-5/8	1220	450	"	10.2#/gal	
7-7/8"	5-1/2	2946	900	"	10.2#/gal	

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

Result of Production Stimulation.....

Depth Cleaned Out.....

FORM OF DRILL-STEM AND SPECIAL TEST

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

Rotary tools were used from 0 feet to 3198 feet, and from feet to feet.
Cable tools were used from feet to feet, and from feet to feet.

PRODUCTION

Put to Producing, 19.

OIL WELL: The production during the first 24 hours was barrels of liquid of which % was
was oil; % was emulsion; % water; and % was sediment. A.P.I.
Gravity.

GAS WELL: The production during the first 24 hours was 4,558 M.C.F. plus 0 barrels of
liquid Hydrocarbon. Shut in Pressure 1003 lbs.
Length of Time Shut in 24 hrs.

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico

Northwestern New Mexico

T. Anhy. 1195	T. Devonian.	T. Ojo Alamo.
T. Salt. 1255	T. Silurian.	T. Kirtland-Fruitland.
B. Salt. 2710	T. Montoya.	T. Farmington.
T. Yates. 2860	T. Simpson.	T. Pictured Cliffs.
T. 7 Rivers. 3160	T. McKee.	T. Menefee.
T. Queen.	T. Ellenburger.	T. Point Lookout.
T. Grayburg.	T. Gr. Wash.	T. Mancos.
T. San Andres.	T. Granite.	T. Dakota.
T. Glorieta.	T.	T. Morrison.
T. Drinkard.	T.	T. Penn.
T. Tubbs.	T.	T.
T. Abo.	T.	T.
T. Penn.	T.	T.
T. Miss.	T.	T.

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1195	1195	Sand and shale				
1195	1255	60	Top Rustler 1195', Anhydrite and shale				
1255	2710	1455	Top Salado 1255', Salt, polyhalite and shale				
2710	2860	150	Top Tansill 2710', Anhydrite and dolomite				
2860	3160	300	Top Yates 2860', Sand, shale, and dolomite				
3160	3198	38	Top Seven Rivers 3160', Sand and dolomite				

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far
as can be determined from available records.

May 18, 1954

Company or Operator El Paso Natural Gas Company Address Box 1384, Jal, New Mexico
Name Larry C. Zink Position or Title Division Geologist

DUPLICATE

NEW MEXICO
OIL CONSERVATION COMMISSION

Gas Well Plat

HOBBS OFFICE OCC
Date May 18, 1954

El Paso Natural Gas Company Shell - State
Operator Lease 1954 MAY 21 72-36
Well No.

Name of Producing Formation Yates - Seven Rivers Pool Langust

No. Acres Dedicated to the Well 160

SECTION 13 TOWNSHIP 23 South RANGE 36 East

RECEIVED
DEC 01 1981
OIL CONSERVATION DIVISION
SANTA FE

660'

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

Name Larry C. Zink
Position Division Geologist
Representing El Paso Natural Gas Company
Address Box 1384, Jal, New Mexico

(over)

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

HOBBS OFFICE OCC

MISCELLANEOUS REPORTS ON WELLS

1954 MAY 6 PM 1:20

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. 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 RESULT OF TEST OF CASING SHUT-OFF	<input checked="" type="checkbox"/>	REPORT ON REPAIRING WELL	
REPORT ON RESULT OF PLUGGING WELL		REPORT ON RECOMPLETION OPERATION		REPORT ON (Other)	

May 5, 1954

(Date)

Jal, New Mexico

(Place)

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

El Paso Natural Gas Company

(Company or Operator)

Shell - State

(Lease)

Gackle Drilling Company

(Contractor)

Well No. 2 in the SE 1/4 SE 1/4 of Sec. 13

T. 23 S, R. 36 E, NMPM, Langmat Pool, Lea County.

The Dates of this work were as follows: May 2, 1954

Notice of intention to do the work ~~was~~ (was not) submitted on Form C-102 on _____, 19____.

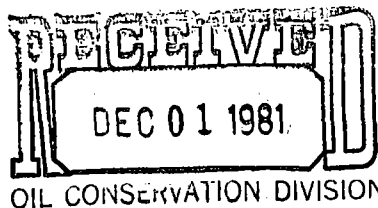
(Cross out incorrect words)

and approval of the proposed plan ~~was~~ (was not) obtained.

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Tested shut-off on 5-1/2" (15.5# - J-55) casing set May 2, 1954 at 2946 feet (Rotary Table) with 900 sacks. Cement circulated.

Tested with 1000 psi pressure - no pressure drop noted over 30 minute period.



Witnessed by Lloyd R. Baskin El Paso Natural Gas Company Engineer
(Name) (Company) (Title)

Approved: _____
OIL CONSERVATION COMMISSION

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

Name Larry C. Zink

Position Division Geologist

Representing El Paso Natural Gas Company

Address Box 1384, Jal, New Mexico

(Title)

(Date)

DRILL STEM TESTS
EL PASO NATURAL GAS COMPANY - SHELL STATE NO. 2

660 S&E, 13-23-36

Date	Section	Recovery
4-29-54	2850 - 2950	Tool open 1 hour, Rec. 20' drilling mud, IFP - 0, FFP - 0, 30 min. EHP - 0, Hydrostatic Pressure - 1545.
5-1-54	2950 - 3198	Tool open 2 hours, Rec. 60' water, IFP - 825, FTP - 800, 30 min. EHP - 1000, Hydrostatic Pressure 1575, Flowed 4,558 MCFPD plus slight spray of water

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

HOBBS OFFICE OCC

MISCELLANEOUS REPORTS ON WELLS

1954 APR 27 PM 2:38

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. 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 RESULT OF TEST OF CASING SHUT-OFF	<input checked="" type="checkbox"/>	REPORT ON REPAIRING WELL	
REPORT ON RESULT OF PLUGGING WELL		REPORT ON RECOMPLETION OPERATION		REPORT ON (Other)	

April 26, 1954

(Date)

Jal, New Mexico

(Place)

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

El Paso Natural Gas Company

(Company or Operator)

Shell - State

(Lease)

Gackle Drilling Company

(Contractor)

Well No. 2 in the SE 1/4 SE 1/4 of Sec. 13

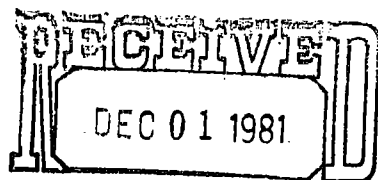
T. 23 S, R. 36 E, NMPM, Jalco Pool, Lea County.

The Dates of this work were as follows: April 24, 1954

Notice of intention to do the work ~~was~~ (was not) submitted on Form C-102 on _____, 19____, (Cross out incorrect words)and approval of the proposed plan ~~was~~ (was not) obtained.**DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED**

Tested shut-off on 8-5/8" (32#) casing set April 24, 1954 at 1220 feet (Rotary Table) with 350 sacks 4#, 44 sacks perlite, and 100 sacks neat cement. Cement circulated.

Tested with 500 psi pressure - no pressure drop noted over 30 minute period.

OIL CONSERVATION DIVISION
SANTA FEWitnessed by Loyd R. Baskin
(Name)El Paso Natural Gas Company
(Company)Engineer
(Title)

Approved:

OIL CONSERVATION COMMISSION

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

Name

Larry C. Zink

Position

Division Geologist

Representing

El Paso Natural Gas Company

Address Box 1384, Jal, New Mexico

(Title)

(Date)

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

NOBBS OFFICE OCC

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. 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 RESULT OF TEST OF CASING SHUT-OFF	<input checked="" type="checkbox"/>	REPORT ON REPAIRING WELL	
REPORT ON RESULT OF PLUGGING WELL		REPORT ON RECOMPLETION OPERATION		REPORT ON (Other)	

April 22, 1954
(Date)

Jal, New Mexico
(Place)

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

El Paso Natural Gas Company
(Company or Operator)

Shell - State
(Lease)

Gackle Drilling Company
(Contractor)

Well No. 2 in the SE 1/4 SE 1/4 of Sec. 13

T. 23 S, R. 36 E, NMPM, Jalco Pool, Lea County.

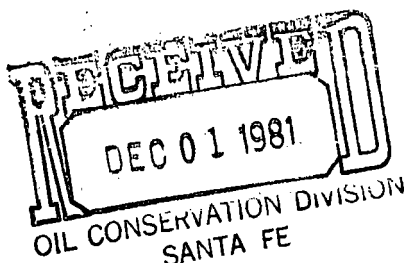
The Dates of this work were as follows: April 21, 1954

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

Tested shut-off on 13-3/8" (29.5#) casing set April 21, 1954 at 235 feet (Rotary Table) with 400 sacks regular cement. Cement circulated.

Tested with 500 psi pressure - no pressure drop noted over 30 minute period.



Witnessed by Loyd R. Baskin
(Name)

El Paso Natural Gas Company
(Company)

Engineer
(Title)

Approved: OIL CONSERVATION COMMISSION

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

Name: Larry C. Zink Division Geologist
Position:

Representing: El Paso Natural Gas Company

Address: Box 1384, Jal, New Mexico

(Title)

(Date)

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

REQUEST FOR (OIL) - (GAS) ALLOWABLE

HOBBS OFFICE OCC

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-101 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.

Jal., New Mexico

May 18, 1954

(Place)

(Date)

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

El Paso Natural Gas Company Shell - State, Well No. 2, in SE 1/4 SE 1/4,
(Company or Operator) (Lease)

P, Sec. 13, T. 23 S., R. 36 E., NMPM., Langat Pool
(Unit)

Lea County. Date Spudded 4-20-54, Date Completed 5-5-54

Please indicate location:

			X

Elevation 3348 GL Total Depth 3198, P.B.

Top oil/gas pay 3002 Top of Prod. Form 2968

Casing Perforations: or

Depth to Casing shoe of Prod. String 2946

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 4,837 MCF

Size choke in inches 1"

Date first oil run to tanks or gas to Transmission system:

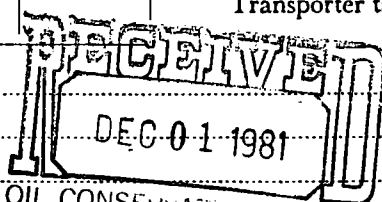
Transporter taking Oil or Gas: El Paso Natural Gas Company

Casing and Cementing Record

Size Feet Sax

13-3/8"	225	400
8-5/8"	1220	450
5-1/2"	2946	900

Remarks:



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

Approved: 19.....

EL PASO NATURAL GAS COMPANY

(Company or Operator)

OIL CONSERVATION COMMISSION

By: J. G. Stanley

Title:

By: Larry C. Zink (Signature)

Title: Division Geologist

Send Communications regarding well to:

Name: Larry C. Zink

Address: Box 1384, Jal., New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

NOTICE OF INTENTION TO DRILL OR RECOMPLETION

Notice must be given to the District Office of the Oil Conservation Commission and approval obtained before drilling begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes must be submitted. Submit this notice in QUINTUPLICATE. One copy will be returned following approval. See additional regulations of the Commission.

Jal, New Mexico

(Place)

March 12, 1981

(Date)

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Gentlemen:

You are hereby notified that it is our intention to commence the (Drilling) ~~(Recompletion)~~ of a well to be

El Paso Natural Gas Company

(Company or Operator)

Shell State

(Lease)

Well No. **2**, in

located **660** feet from the **South** line and **East** line of Section **13**, T. **23 S**, R. **36**

(GIVE LOCATION FROM SECTION LINE)

Jalisco Pool, **Lea**

If State Land the Oil and Gas Lease is No. **MM B 1167**

If patented land the owner is

Address **Rotary**

We propose to drill well with drilling equipment as follows:

The status of plugging bond is **Active**

Drilling Contractor **Gackle Drilling Company, Inc.**
Fort Worth, Texas

We intend to complete this well in the **Yates - Seven Rivers** formation at an approximate depth of **3500'**

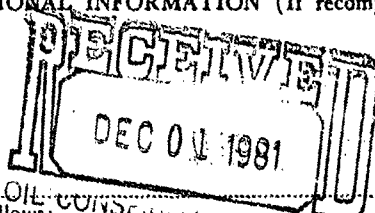
CASING PROGRAM

We propose to use the following strings of Casing and to cement them as indicated:

Size of Hole	Size of Casing	Weight per Foot	New or Second Hand	Depth
17"	13-3/8"	H-40 29.3#	Now	250'
11"	8-5/8"	J-55 32#	Now	1290'
6-3/4"	5-1/2"	J-55 15.5#	Now	2860'

If changes in the above plans become advisable we will notify you immediately.

ADDITIONAL INFORMATION (If recompletion give full details of proposed plan of work.)



Approved **OIL CONSERVATION COMMISSION**, 19
Except as follows:

SANTA FE

Sincerely yours,

El Paso Natural Gas Co.

(Company or Operator)

By **James C. Runk**

Printed Name

OIL CONSERVATION COMMISSION

Edm C-101
November 14-65

NEW MEXICO OIL CONSERVATION COMMISSION

RECEIVED		
DISCUSSION		
SANITARY		
FILE		
U.S.G.P.		
LAND OFFICE		
OPERATOR		

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> c. Rough Sketch (printed)		8. Farm or Lease Owner Shell State	
DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		9. Well No. 5	
10. Field and Pool, or Well Unit Doyle Hartman, Oil Operator P. O. Box 10426, Midland, TX 79702		Jalmat	
1. Location of Well UNIT LETTER J LOCATED 1800 FEET FROM THE South LINE 1650 FEET FROM THE East LINE OF SEC. 13 TWP. 23 RGE. 36		11. County Lea	
12. Proposed Depth 3450		13. Formation Yates-Seven Rivers Rotary	
14. Estimated Production (bbl. per day) 3367.1 GL		15. Estimated Production (bbl. per day) Multi-well approved	
16. Estimated Production (bbl. per day) 3367.1 GL		17. Estimated Production (bbl. per day) Multi-well approved	
18. Estimated Production (bbl. per day) 3367.1 GL		19. Estimated Production (bbl. per day) Multi-well approved	
20. Estimated Production (bbl. per day) 3367.1 GL		21. Estimated Production (bbl. per day) Multi-well approved	
22. Estimated Production (bbl. per day) 3367.1 GL		23. Estimated Production (bbl. per day) Multi-well approved	
24. Estimated Production (bbl. per day) 3367.1 GL		25. Estimated Production (bbl. per day) Multi-well approved	
26. Estimated Production (bbl. per day) 3367.1 GL		27. Estimated Production (bbl. per day) Multi-well approved	
28. Estimated Production (bbl. per day) 3367.1 GL		29. Estimated Production (bbl. per day) Multi-well approved	
30. Estimated Production (bbl. per day) 3367.1 GL		31. Estimated Production (bbl. per day) Multi-well approved	
32. Estimated Production (bbl. per day) 3367.1 GL		33. Estimated Production (bbl. per day) Multi-well approved	
34. Estimated Production (bbl. per day) 3367.1 GL		35. Estimated Production (bbl. per day) Multi-well approved	
36. Estimated Production (bbl. per day) 3367.1 GL		37. Estimated Production (bbl. per day) Multi-well approved	
38. Estimated Production (bbl. per day) 3367.1 GL		39. Estimated Production (bbl. per day) Multi-well approved	
40. Estimated Production (bbl. per day) 3367.1 GL		41. Estimated Production (bbl. per day) Multi-well approved	
42. Estimated Production (bbl. per day) 3367.1 GL		43. Estimated Production (bbl. per day) Multi-well approved	
44. Estimated Production (bbl. per day) 3367.1 GL		45. Estimated Production (bbl. per day) Multi-well approved	
46. Estimated Production (bbl. per day) 3367.1 GL		47. Estimated Production (bbl. per day) Multi-well approved	
48. Estimated Production (bbl. per day) 3367.1 GL		49. Estimated Production (bbl. per day) Multi-well approved	
50. Estimated Production (bbl. per day) 3367.1 GL		51. Estimated Production (bbl. per day) Multi-well approved	
52. Estimated Production (bbl. per day) 3367.1 GL		53. Estimated Production (bbl. per day) Multi-well approved	
54. Estimated Production (bbl. per day) 3367.1 GL		55. Estimated Production (bbl. per day) Multi-well approved	
56. Estimated Production (bbl. per day) 3367.1 GL		57. Estimated Production (bbl. per day) Multi-well approved	
58. Estimated Production (bbl. per day) 3367.1 GL		59. Estimated Production (bbl. per day) Multi-well approved	
60. Estimated Production (bbl. per day) 3367.1 GL		61. Estimated Production (bbl. per day) Multi-well approved	
62. Estimated Production (bbl. per day) 3367.1 GL		63. Estimated Production (bbl. per day) Multi-well approved	
64. Estimated Production (bbl. per day) 3367.1 GL		65. Estimated Production (bbl. per day) Multi-well approved	
66. Estimated Production (bbl. per day) 3367.1 GL		67. Estimated Production (bbl. per day) Multi-well approved	
68. Estimated Production (bbl. per day) 3367.1 GL		69. Estimated Production (bbl. per day) Multi-well approved	
70. Estimated Production (bbl. per day) 3367.1 GL		71. Estimated Production (bbl. per day) Multi-well approved	
72. Estimated Production (bbl. per day) 3367.1 GL		73. Estimated Production (bbl. per day) Multi-well approved	
74. Estimated Production (bbl. per day) 3367.1 GL		75. Estimated Production (bbl. per day) Multi-well approved	
76. Estimated Production (bbl. per day) 3367.1 GL		77. Estimated Production (bbl. per day) Multi-well approved	
78. Estimated Production (bbl. per day) 3367.1 GL		79. Estimated Production (bbl. per day) Multi-well approved	
80. Estimated Production (bbl. per day) 3367.1 GL		81. Estimated Production (bbl. per day) Multi-well approved	
82. Estimated Production (bbl. per day) 3367.1 GL		83. Estimated Production (bbl. per day) Multi-well approved	
84. Estimated Production (bbl. per day) 3367.1 GL		85. Estimated Production (bbl. per day) Multi-well approved	
86. Estimated Production (bbl. per day) 3367.1 GL		87. Estimated Production (bbl. per day) Multi-well approved	
88. Estimated Production (bbl. per day) 3367.1 GL		89. Estimated Production (bbl. per day) Multi-well approved	
90. Estimated Production (bbl. per day) 3367.1 GL		91. Estimated Production (bbl. per day) Multi-well approved	
92. Estimated Production (bbl. per day) 3367.1 GL		93. Estimated Production (bbl. per day) Multi-well approved	
94. Estimated Production (bbl. per day) 3367.1 GL		95. Estimated Production (bbl. per day) Multi-well approved	
96. Estimated Production (bbl. per day) 3367.1 GL		97. Estimated Production (bbl. per day) Multi-well approved	
98. Estimated Production (bbl. per day) 3367.1 GL		99. Estimated Production (bbl. per day) Multi-well approved	
100. Estimated Production (bbl. per day) 3367.1 GL		101. Estimated Production (bbl. per day) Multi-well approved	
102. Estimated Production (bbl. per day) 3367.1 GL		103. Estimated Production (bbl. per day) Multi-well approved	
104. Estimated Production (bbl. per day) 3367.1 GL		105. Estimated Production (bbl. per day) Multi-well approved	
106. Estimated Production (bbl. per day) 3367.1 GL		107. Estimated Production (bbl. per day) Multi-well approved	
108. Estimated Production (bbl. per day) 3367.1 GL		109. Estimated Production (bbl. per day) Multi-well approved	
110. Estimated Production (bbl. per day) 3367.1 GL		111. Estimated Production (bbl. per day) Multi-well approved	
112. Estimated Production (bbl. per day) 3367.1 GL		113. Estimated Production (bbl.	

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	9 5/8	40.5	400	150	Surface
8 3/4	7	26.0	3450	600	Surface

The proposed well will be drilled to a total depth of 3450 feet and will be completed as a Jalmat (Yates-Seven Rivers) gas producer. From the base of the surface pipe through the running of the production casing, the well will be equipped with a 3000-psi double ram BOP system.

- Note: (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 SE/4 Section 13 and will share an allowable with the Shell State No. 2.

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 4/1/82
UNLESS DRILLING UNDERWAY

11. ABOVE SPACE DESCRIBE PROPOSED PROGRAM. IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PROD
LIVE ZONE. GIVE LOGOUT INVENTED PROGRAM, IF ANY.

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

Signed Larry Q. Ramsey Title Petroleum Engineer Date September 27, 1988

(This space for State Use)

APPROVED BY Cheryl Sexton TITLE Cheryl Sexton DATE OCT 1 1981

CONDITIONS OF APPROVAL, IF **Dist 1, Supv.**

OCT 1 1981

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-1
Supersedes O-128
Effective 1/1/75

All distances must be from the outer boundaries of the Section

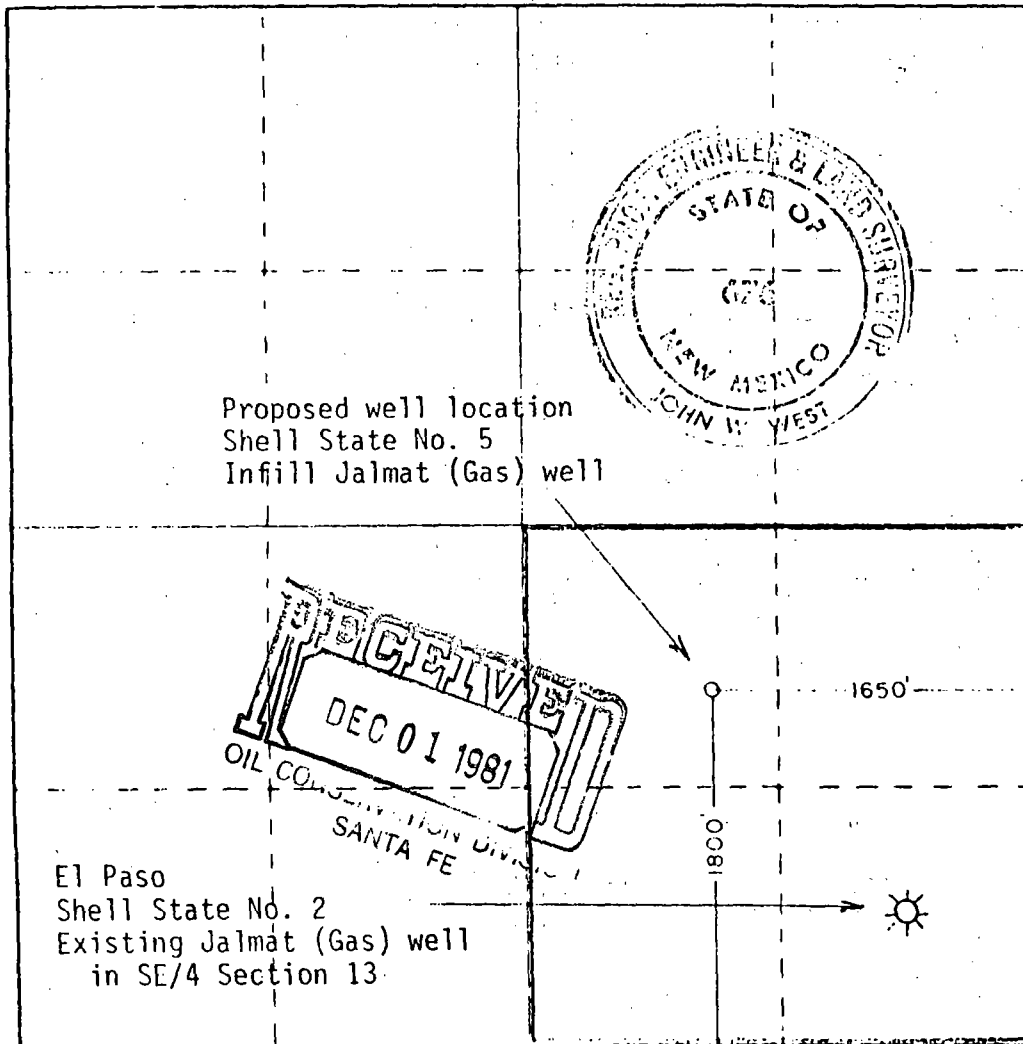
Doylo Hartman			Shell State			5		
J	13	23 South	36 East	Lea				
1800			1650			East		
3367.1			Yates-Seven Rivers			Jalmat		
						160		

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

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

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

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



CERTIFICATION

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

Larry A. Romero

Engineer

Doyle Hartman

September 29, 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

Sept. 26, 1981

Signature of Professional Engineer in Oil and Gas Survey

John W. West

Certificate No. JOHN W. WEST 876
PATRICK A. ROMERO 6668
Ronald J. Elyon 3239

OIL CONSERVATION DIVISION

P. O. BOX 2008

SANTA FE, NEW MEXICO 87501

Form O-103
Revised 10-1-7

NAME OF OPERATOR	
DISCLAIMER	
WARRANTY	
WELL	
UNIT	
LAND OFFICE	
OPERATOR	

50. Indicate Type of Lease
 State ☒ Free ☐
 5. State Oil & Gas Lease No.
B-1167

SUNDARY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE APPLICATION FOR PERMIT TO DRILL FORM C-1011 FOR SUCH PROPOSALS.)

OIL ☐ GAS ☒ OTHER ☐

Name of Operator

Doyle Hartman

Address of Operator

P. O. Box 10426, Midland, Texas 79702

Location of Well

UNIT LETTER **J** **1800** FEET FROM THE **South** LINE AND **1650** FEET FROM
East THE LINE, SECTION **13** TOWNSHIP **23S** RANGE **36E** MAP

7. Unit Agreement Name

8. Form or Lease Name

Shell State

9. Well No.

5

10. Fluid and Pool, or Wildcat

Jalmat (Gas)

15. Elevation (Show whether DF, RT, GR, etc.)

3367.1 G. L.

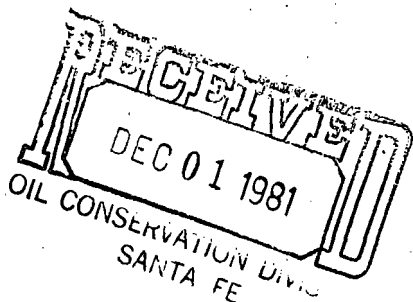
12. County

Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
 NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:PERFORM REMEDIAL WORK ☐PLUG AND ABANDON ☐REMEDIAL WORK ☐ALTERING CASING ☐TEMPORARILY ABANDON ☐COMMENCE DRILLING OPNS. ☒PLUG AND ABANDONMENT ☐PULL OR ALTER CASING ☐CHANGE PLANS ☐CASING TEST AND CEMENT JOBS ☒OTHER ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Spudded well at 4:30 p.m. CDT 10-05-81. Drilled 12-1/4" hole to a total depth of 435'. Circulated hole 2 hours and pulled drill string. Ran 10 joints of 9 5/8", 40 lb/ft, Grade-B, ST&C casing and landed at 432' RKB. Cemented casing with 225 sx of API Class C cement containing 2% CaCl₂. Plug down at 5:30 a.m. CDT 10-06-81. Circulated a total of 70 sx of excess cement to pit. WOC 18 hours. Pressure tested casing to 700 psi. Pressure held okay.



OCT 12 1981

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

SIGNED Michelle HernandezTITLE Administrative AssistantDATE October 7, 1981APPROVED BY Don A. SmithTITLE DATE

CONDITIONS OF APPROVAL, IF ANY

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-

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

5a. Bottoms Type of Lease	State <input checked="" type="checkbox"/> <input type="checkbox"/>
5. State Oil & Gas Lease No.	B-1167

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO REEVAL OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER-	6. Bottoms Type of Lease
2. Name of Operator	7. State Oil & Gas Lease No.
Doyle Hartman	B-1167
3. Address of Operator	8. Well No.
P. O. Box 10426, Midland, Texas 79702	5
4. Location of Well	9. Field and Pool, or Wildcat
UNIT LETTER J 1800 FEET FROM THE South LINE AND 1650 FEET FROM East LINE, SECTION 13 TOWNSHIP 23S RANGE 36E	Jalmit (Gas)
15. Location (Show whether DE, RT, GR, etc.)	12. County
3367.1 G. L.	Lea

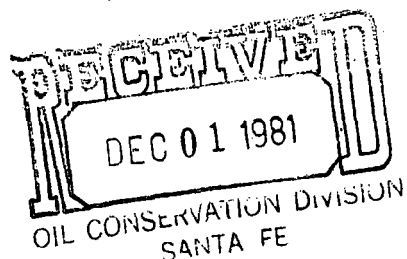
Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input checked="" type="checkbox"/>	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Drilled well to a total depth of 3450'. Went into hole with drill string and conditioned hole. Pulled and laid down drill string. Ran 81 joints (3452') of 7" OD, 23 lb/ft, J-55, ST&C casing equipped with a float-shoe on bottom and landed bottom of casing at 3450'. Cemented casing with 350 sx of API Class-C cement containing 3% Halliburton Econolite, 1/4 lb/sx floreal and 5 lb/sx gilsonite followed by 200 sx of a 50-50 blend of API Class-C cement and Pozmix "A" containing 1/4 lb/sx floreal, 5 lb/sx gilsonite, and 18% salt. Plug down at 4:15 a.m. CDT 10-13-81. Circulated 80 sx of excess cement to pit.



18. 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 DATE October 15, 1981

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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LAND OFFICE	
TRANSPORTER	OIL GAS
OPERATOR	
PRODUCTION OFFICE	

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

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

Operator
Doyle Hartman, Oil Operator

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

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

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

If change of ownership give name and address of previous owner

DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, including Formation	Kind of Lease	Lease No.
Shell-State	5	Jalmat (Yates-Seven Rivers)	State, Federal or Fee State	B-1167

Location

Unit Letter J ; 1800 Feet From The South Line and 1650 Feet From The East

Line of Section 13 Township 23-S Range 36-E , NMPM, Lea County

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
EI Paso Natural Gas Company	P. O. Box 1348 Jal, New Mexico 88252

If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When
					No	November 2, 1981

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 Resv.	Diff. Resv.
		X	X					

Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
10-5-81	10-23-81	3445	3440

Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
3367 GL	Yates-Seven Rivers	2970	3335

Perforations	Depth Casing Shoe
2970-3172 w/19 shots (Yates-Seven Rivers)	3445

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
12 1/4	9 5/8" 40.5 lb/ft	432'	225 (circ)
8 3/4	7" 23.0 lb/ft	3445'	550 (circ)
	2 3/8" 4.70 lb/ft	3335'	

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

DEC 01 1981

GAS WELL OIL CONSERVATION DIVISION

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
323	24 hours		

Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size
Orifice Tester		SICP=115, FCP=71	25/64

CERTIFICATE OF COMPLIANCE

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

Larry A. Manning
(Signature)
Engineer
(Title)
10-26-81
(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 deviated 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 condition.

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LAND OFFICE
OPERATOR

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

Form C-105
Revised 11-8-81

5a. Indicate Type of Lease
State ☒ Fee ☐
b. State Oil & Gas Lease No.

1a. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐
1b. TYPE OF COMPLETION
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

7. Part Assessment Name
B-1167

8. Part or Lease Name
Shell-State

2. Name of Operator
Doyle Hartman, Oil Operator

9. Well No.
5

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

10. Field or Loc., or Wildcat
Jalmat

4. Location of Well
UNIT LETTER J LOCATED 1800 FEET FROM THE South LINE AND 1650 FEET FROM

11. Part of Lease
Lea

5. East LINE OF SEC. 13 TWP. 23-S RGE. 36-E

15. Date Drilled 10-5-81 16. Date First Production 10-12-81 17. Date String L. (Ready to Prod.) 10-23-81 18. Elevation (D.F., E.K.F., R.F., GR., etc.) 3367 GL 19. Elev. Washington 3367

20. Total Depth 3445 21. First String L. 3440 22. If Empty to Comp., How Many 23. Intervals Drilled by 0-3445 24. Intervals Drilled by Cable Tools

24. Production Interval, or this completion, or this bottom, Name 2970-3172 w/19 (Yates-Seven Rivers) 25. Was Directional Survey Made Yes

26. Type of this well, then Lease Name CDN-DSN-GR and Guard. Forxo 27. Was Well Cased No

CASHING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8	40.50	432	12 1/4	225 (circ)	none
7	23.00	3445	8 3/4	550 (circ)	none

LINER RECORD					TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8	3335	

31. Perforation Record (Interval, size and number)
19 holes with one shot each at: 2970, 2989, 2997, 3001, 3059, 3064, 3069, 3073, 3081, 3085, 3089, 3102, 3107, 3112, 3117, 3121, 3127, 3169, 3172
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL 2970-3172 AMOUNT AND KIND MATERIAL USED A/4500 15% MCA SWF 72,000 + 173,000

33. PRODUCTION
Date First Production 10-20-81 Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping Well Status (Push or Shut-in) Shut-in
Date of Test 10-24-81 Hours Tested 24 Clock Time 25/64 First Flow Test Date Oil - Bbl. Gas - MCF Water - Bbl. Gas-Oil Ratio
Flow Test Pressure FCP 71 Calculated Flow Rate Oil - Bbl. Gas - MCF Water - Bbl. Oil Gravity - API (Corr.)

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

35. List of Attachments
None

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

SIGNED Larry G. Ramsey OIL CONSERVATION DIVISION SANTA FE TITLE Engineer DATE October 26, 1981

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by a true copy of all electrical and radioactivity logs run in the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 40 through 44 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Aohy <u>1205</u>	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt <u>1298</u>	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Salt <u>2712</u>	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>2870</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers <u>3133</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 Qtzite _____
T. Glorieta _____	T. McKee _____	T. Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from 2970 to 3172 No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

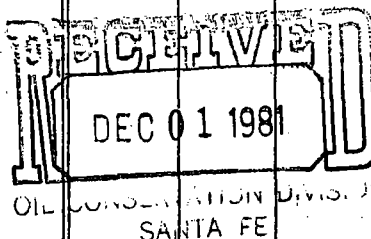
IMPORTANT WATER SANDS

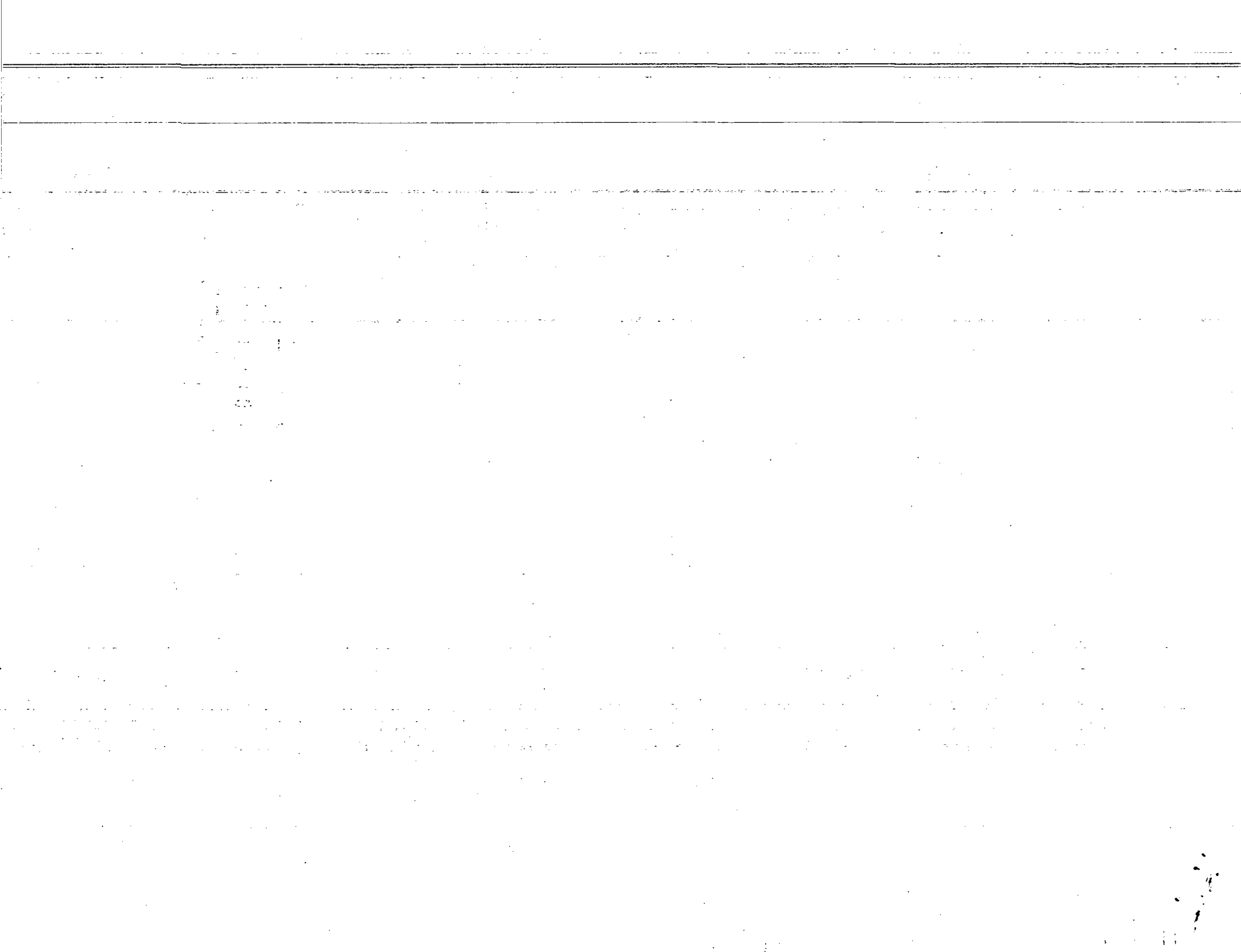
Include data on rate of water inflow and elevation to which water rose in hole.

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)

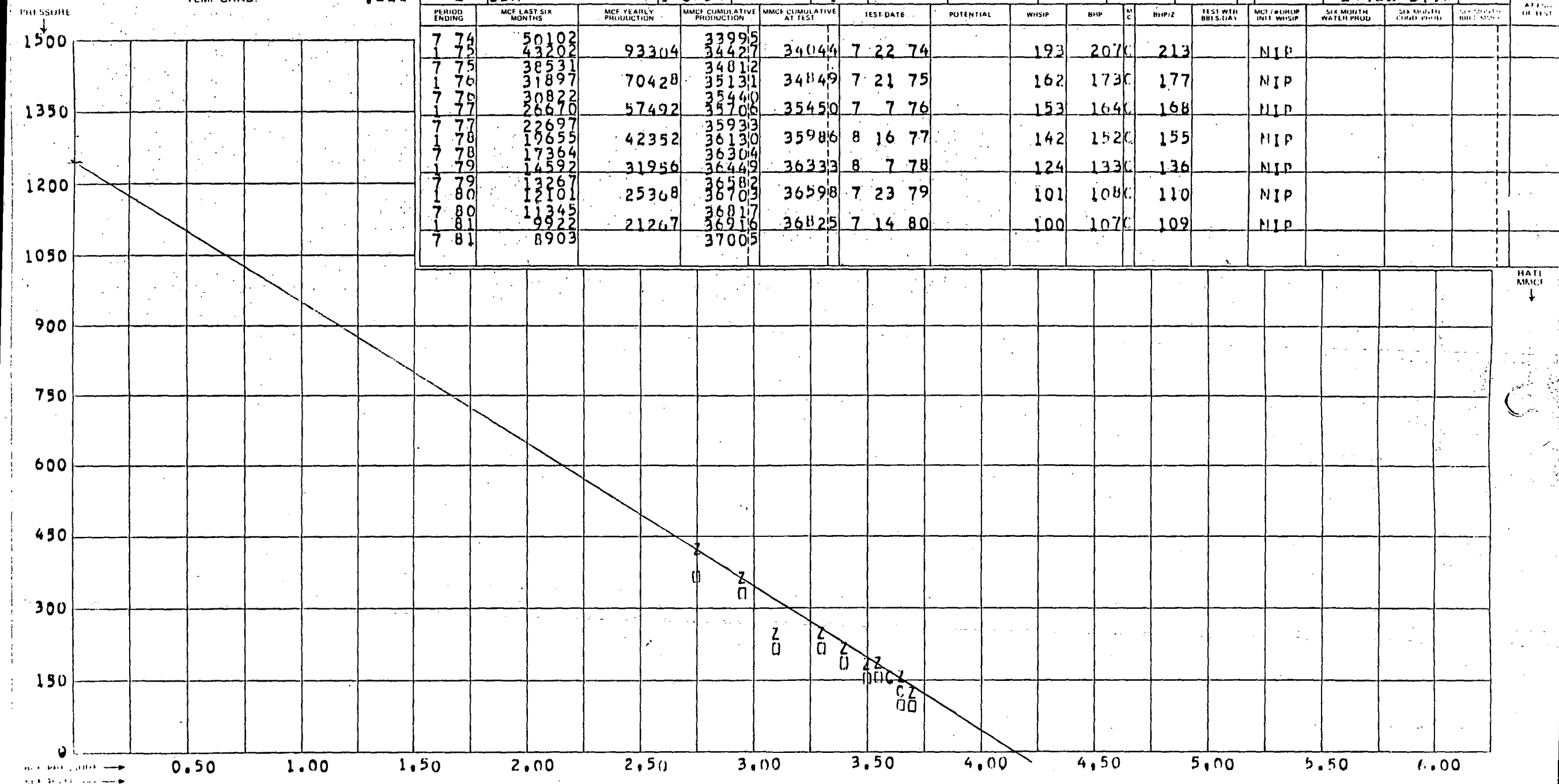
From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1205	1298	93	Anhydrite				
1298	2712	1414	Salt and Anhydrite				
2712	2870	158	Dolomite				
2870	3133	263	Dolomite and Sand				
3133	3445	312	Sand and Dolomite				



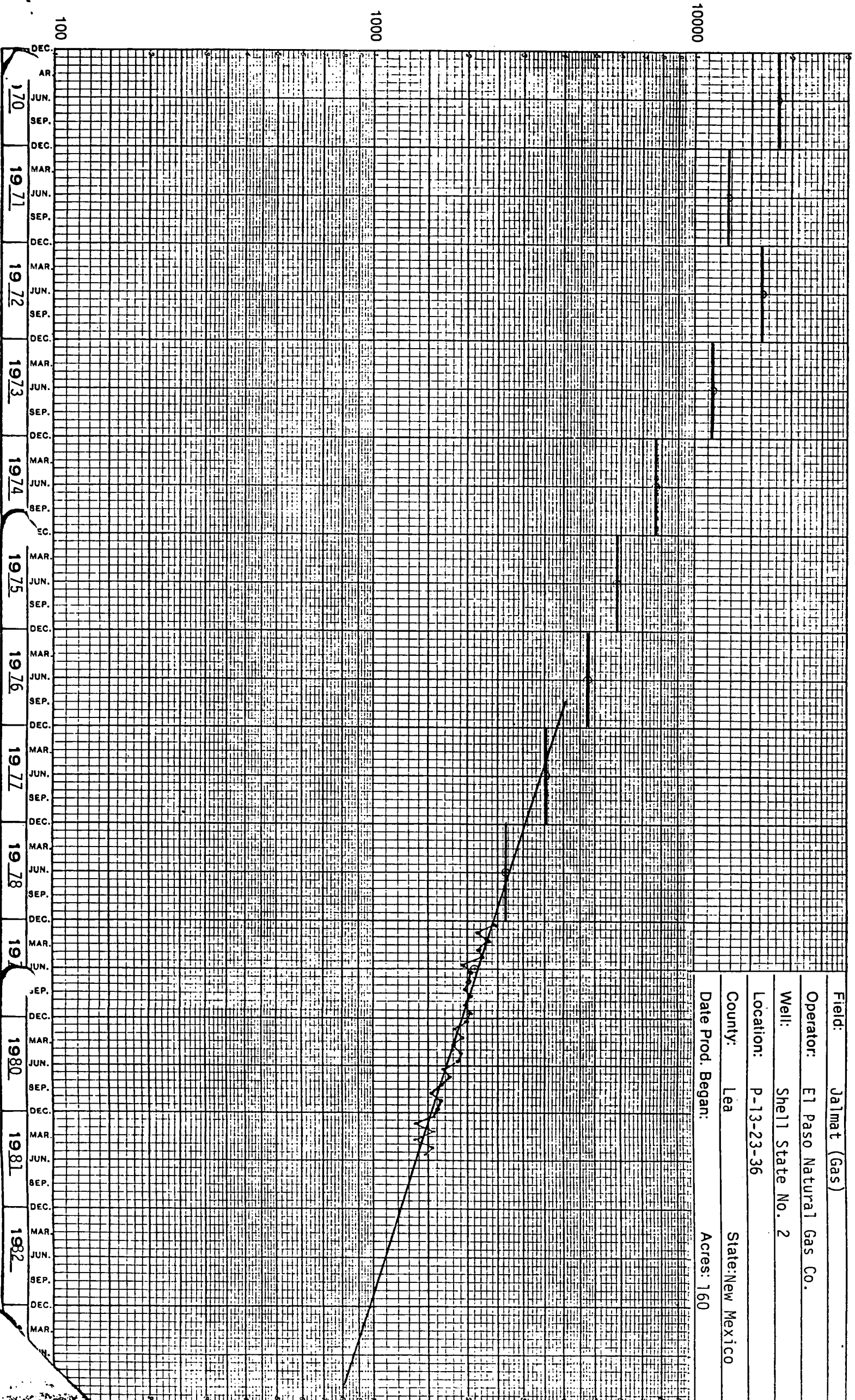


4C505 SYMBOLS
 WHSIP - O
 BHP/Z - Z
 Common - C
 6 MOS TOTAL MMCF/G - R
 (DATE '00' SCALE ON RIGHT SIDE)
 TEMP GRAD: 1,221

223S36E13P00YT 13P 23S 36EEL PASO NATURAL GAS CO SHELL STATE																2				
STATE		FIELD NUMBER		FIELD NAME						RESERVOIR				STATUS		ACT		EPG		933
NEW MEXICO		8037100		JALMAT TANSILL YT 7 RVRS (PRD GAS) YT										ACT		EPG				933
DIST. NO.	COUNTY OR PARISH			DATE COMP	DATE 1ST PROD	GAS GRAVITY	INIT. TEST DATE	INIT. POTENTIAL	INIT. WHSIP	LATEST N FAC	INIT. BHP Z	TOTAL DEPTH	PERFORATIONS							
2	LEA			050554		.66							2946= 3198							
PERIOD ENDING	MCF LAST SIX MONTHS		MCF YEARLY PRODUCTION	MMCF CUMULATIVE PRODUCTION	MMCF CUMULATIVE AT TEST	TEST DATE	POTENTIAL	WHSIP	BHP	M C	BHP/Z	TEST WITH BBLS/DAY	MCF @ BHP INIT WHSIP	SIX MONTH WATER PROD	SIX MONTH GOR PROD	SIX MONTH BBL/MCF				
7 74	50102			33995																
1 75	43202		93304	34427	34044	7 22 74		193	2070		213		NIP							
7 75	38531			34812																
1 76	31897		70428	35131	34849	7 21 75		162	1730		177		NIP							
7 76	30822			35440																
1 77	26670		57492	35706	35450	7 7 76		153	1640		168		NIP							
7 77	22697			35933																
1 78	19655		42352	36130	35986	8 16 77		142	1520		155		NIP							
7 78	17364			36304																
1 79	14592		31956	36449	36333	8 7 78		124	1330		136		NIP							
7 79	13267			36582																
1 80	12101		25368	36703	36598	7 23 79		101	1080		110		NIP							
7 80	11345			36817																
1 81	9922		21267	36916	36825	7 14 80		100	1070		109		NIP							
7 81	8903			37005																

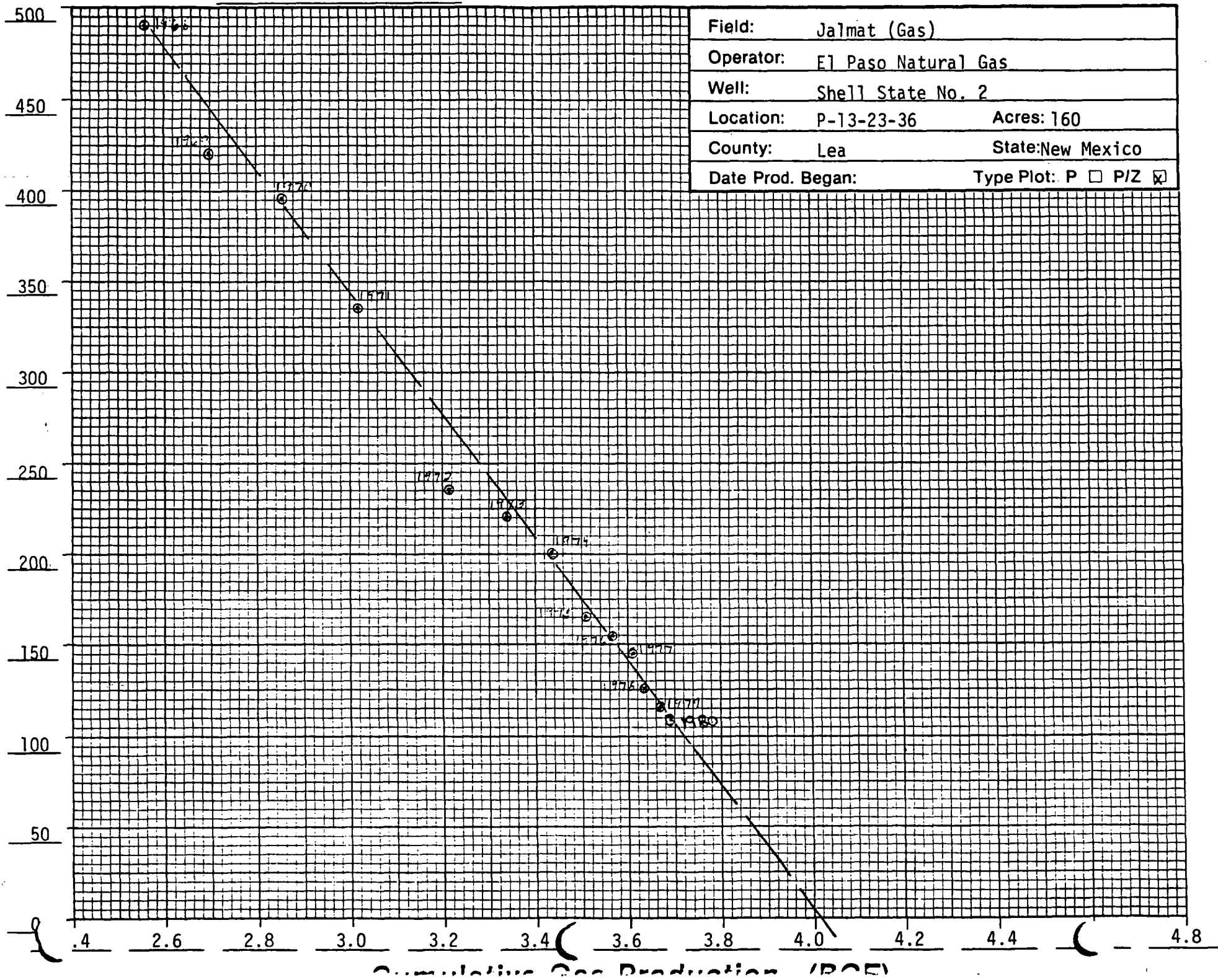


Gas Production - MCF/month



Pressure or P/Z - (ps.a)

Field:	Jalmat (Gas)		
Operator:	El Paso Natural Gas		
Well:	Shell State No. 2		
Location:	P-13-23-36	Acres:	160
County:	Lea	State:	New Mexico
Date Prod. Began:	Type Plot: P <input type="checkbox"/> P/Z <input checked="" type="checkbox"/>		



El Paso Nat. Gas Co. Shell-St. 2

$$\text{Est Initial BHP/} \frac{1}{2} = 1247$$

$$R_{gi} = \left(\frac{1247}{15.025} \right) \left(\frac{520}{568} \right)$$

$$= 75.98 \text{ (Dwight's)}$$

$$\text{OGIP / A}_c = (0.04356)(6.595106)(75.98)$$

$$= 21.83 \text{ mmcf/Ac}$$

$$\text{OGIP} = 4,144 \text{ mmcf}$$

$$\text{Est Eff D.A.} = 4144 / 21.83 = 1909 \text{ GS (Dwight's)}$$

$$\text{OGIP} = 4015 \text{ mmcf}$$

$$\text{Est Eff D.A.} = 4015 / 21.83 = 184 \text{ ACS (OH BHP/} \frac{1}{2} \text{ vs (4 m))}$$

DOYLE HARTMAN

Oil Operator

500 N. MAIN

P. O. BOX 10426

MIDLAND, TEXAS 79702

(915) 684-4011

November 24, 1981

Offset Jalmat (Gas) Operators
Shell State No. 5
SE/4 Section 13
T-23-S, R-36-E
Lea County, New Mexico

Gentlemen:

Pursuant to Section 271.305 of the Final Rules and Regulations of the Federal Energy Regulatory Commission relating to Section 103 of the Natural Gas Policy Act of 1978, and to Order R-6013-A of the New Mexico Oil Conservation Division, you, as an offset operator to the above captioned lease, are hereby notified by certified mail of our request for administrative infill finding for the newly completed Shell State No. 5, located 1800 FSL & 1650 FEL Section 13, T-23-S, R-36-E, Lea County, New Mexico. By our letter dated September 25, 1981, to Mr R. L. Stamets of the New Mexico Oil Conservation Division you were notified of our request for non-standard proration unit and simultaneous dedication of the SE/4 Section 13, T-23-S, R-36-E to the previously existing Shell State No. 2 (P-13-23S-36E) and the proposed Shell State No. 5 (J-13-23S-36E). The Shell State No. 5 has now been successfully completed and you are hereby notified of our intent to request an administrative infill finding for the Shell State No. 5 from the New Mexico Oil Conservation Division, so that the well can be classified as a Section 103 well under the Natural Gas Policy Act of 1978.

If you have no objection to our request for infill finding, please execute one copy of this letter and return it to this office in the enclosed stamped, self-addressed envelope.

Thank you for your cooperation in this matter.

Very truly yours,

DOYLE HARTMAN

Michelle Hembree

Michelle Hembree
Administrative Assistant

/mh

3

Shell State No. 5
November 24, 1981

Approved this _____ day of _____, 1981.

Sun-Texas

Gulf Oil Corporation

Conoco

List of Offset Jalmat (Gas) Operators

Doyle Hartman
Shell State No. 5
J-13-23S-36E
(SE/4 Section 13, T-23-S, R-36-E)
Lea County, New Mexico

<u>Operator</u>	<u>Well Name</u>	<u>Well Location</u>	<u>Proration Unit</u>	<u>No. of Acres</u>
Sun Texas (Texas Pacific)	State "A" A/C-1 No. 20	C-13-23-36	W/2 & NE/4 Section 13, T-23-S, R-36-E	480
	State "A" A/C-1 No. 21	H-13-23-36		
	State "A" A/C-1 No. 22	N-13-23-36		
Sun Texas (Texas Pacific)	State "A" A/C-1 No. 25	F-24-23-36	S/2 & NW/4 Section 24, T-23-S, R-36-E	480
	State "A" A/C-1 No. 24	N-24-23-36		
	State "A" A/C-1 No. 32	J-24-23-36		
	State "A" A/C-1 No. 53	E-24-23-36		
Gulf Oil Corporation	J. F. Janda "G" No. 1	A-24-23-36	NE/4 Section 24, T-23-S, R-36-E	160
Doyle Hartman	Samedan-Hughes Federal No. 1	E-19-23-37	NW/4 Section 19, R-23-S, R-37-E	160
Conoco	Stevens "B" No. 15	F-18-23-37	W/2 & NW/4 NE/4 Section 18, T-23-S, R-37-E	360
	Stevens "B" No. 16	K-18-23-37		

