For Downhole Commingling of Jalmat Gas and Langlie-Mattix Oil Production in its Cooper Jal Unit Well No. 301 in D-18-24S-37E, Lea City.

CASE #: 8168

DATE FILED Called in 4/3/84

APPLICANT

Name: Getty Oil Company

1. Representative: Wm. F. Carr
2. Position: Representing Attorney
3. Address:
4. Telephone:
5. ATTORNEY: Wm. F. Carr
6. Address: Campbell, Byrd & Black, P.A.
   P.O. Box 2208
   Santa Fe, NM 87501
7. Telephone: 988-4421

OPPOSITION

Name: Jim Bruce

1. Representative: Doyle Hartman
2. Position:
3. Address:
4. Telephone:
5. ATTORNEY:
6. Address:
7. Telephone:

INTERVENOR (if any) :
or
INTERESTED PARTY (IES):

WITNES LIST

Case No. 8168 Date of Hearing April 25, 1984

APPLICANT: Getty Oil Company			OPPOSITION:		
No:	Qualified	Sworn	No.	Qualified	Sworn
1) Name: Donald J. Steinmetz	☑	☑	1) Name:	☐	☐
Position:			Position:		
: Missouri Coll. B.S.G.E. 1974			:		
: U.S.G.S. - AIB. - DOE			:		
: Area Geo. Mgr.			:		
2) Name:	☐	☐	2) Name:	☐	☐
Position:			Position:		
:			:		
:			:		
:			:		
3) Name:	☐	☐	3) Name:	☐	☐
Position:			Position:		
:			:		
:			:		
:			:		

designated by the Division all wells shall remain completely shut in for at least 24 hours prior to the test. In the event a definite datum is not established by the Division the subsurface determination shall be obtained as close as possible to the mid-point of the productive sand of the reservoir. The report shall be on Form C-124 and shall state the name of the pool, the pool datum (if established), the name of the operator and lease, the well number, the wellhead elevation above sea level, the date of the test, the total time the well was shut in prior to the test, the subsurface temperature in degrees Fahrenheit at the test depth, the depth in feet at which the subsurface pressure test was made, the observed pressure in pounds per square inch gauge (corrected for calibration and temperature), the corrected pressure computed from applying to the observed pressure the appropriate correction for difference in test depth and reservoir datum plane and any other information as required by Form C-124.

RULE 303. SEGREGATION OF PRODUCTION FROM POOLS

A. SEGREGATION REQUIRED

Each pool shall be produced as a single common source of supply and the wells therein shall be completed, cased, maintained, and operated so as to prevent communication, within the well-bore, with any other specific pool or horizon, and the production therefrom shall at all times be actually segregated, and the commingling or confusion of such production, before marketing, with the production from any other pool or pools is strictly prohibited.

B. SURFACE COMMINGLING

The Division Director shall have the authority to grant an exception to Rule 303-A to permit the commingling in common facilities of the commonly owned production from two or more common sources of supply, without notice and hearing, provided that the liquid hydrocarbon production from each common source of supply is to be accurately measured or determined prior to such commingling in accordance with the applicable provisions of the Division "Manual for the Installation and Operation of Commingling Facilities," then current.

Applications for administrative approval to commingle the production from two or more common sources of supply shall be filed in triplicate with the Santa Fe Office of the Division. The application must contain detailed data as to the gravities of the liquid hydrocarbons, the values thereof, and the volumes of the liquid hydrocarbons from each pool, as well as the expected gravity and value of the commingled liquid hydrocarbons production; a schematic diagram of the proposed installation; a plat showing the location of all wells on the applicant's lease and the pool from which each well is producing. The application shall also state specifically whether the actual commercial value of such commingled production will be less than the sum of the values of the production from each common source of supply and, if so, how much less.

Where State or Federal lands are involved, applicant shall furnish evidence that the Commissioner of Public Lands for the State of New Mexico or the Regional Supervisor of the United States Geological Survey has consented to the proposed commingling.

C. DOWNHOLE COMMINGLING

1. The Director of the Division shall have the authority to grant an exception to Rule 303-A to permit the commingling in the well-bore of oil-oil, gas-gas, or gas-oil zones in a well when the following facts exist and the following conditions are met:

(a) For wells involving oil zones:

(1) The total combined daily oil production from oil zones before commingling (as determined in accordance with Section 2, paragraphs (d) and (e) below) does not exceed the following:

Bottom perforation, lowermost pool	Bbls/day oil
Less than 4,999 feet	20
5,000 feet to 5,999 feet	30
6,000 feet to 6,999 feet	40
7,000 feet to 7,999 feet	50
8,000 feet to 8,999 feet	60
9,000 feet to 9,999 feet	70
More than 10,000 feet	80

(2) Oil zones require artificial lift, or, both zones are capable of flowing. (Special consideration may be given to an exception to this latter requirement in the case in which a particular well's characteristics may justify same; however, the commingled production must be artificially lifted if either zone required artificial lift prior to commingling.)

(3) Neither zone produces more water than the combined oil limit as determined in paragraph (1) above.

(4) The fluids from each zone are compatible with the fluids from the other, and commingling the fluids will not result in the formation of precipitates which might damage either reservoir.

(5) The total value of the crude will not be reduced by commingling.

(6) Ownership of the zones to be commingled is common (including working interest, royalty, and overriding royalty).

(7) The commingling will not jeopardize the efficiency of present or future secondary recovery operations in either of the zones to be commingled.

(b) For Wells Involving a Gas Zone:

(1) That the commingling is necessary to permit a zone or zones to be produced which would not otherwise be economically producible.

(2) That there will be no crossflow between the zones to be commingled.

(3) That any zone which is producing from fluid-sensitive sands, which may be subject to damage from water or other produced liquids, is protected from contact from such liquids produced from other zones in the well.

(4) The fluids from each zone are compatible with the fluids from the other(s), and combining the fluids will not result in the formation of precipitates which might damage any of the reservoirs.

(5) That ownership of the zones to be commingled is common (including working interest, royalty, and overriding royalty).

(6) The bottom hole pressure of the lower pressure zone is not less than 50 percent of the bottom hole pressure of the higher pressure zone adjusted to a common datum.

2. To obtain approval for downhole commingling, the operator of the well shall submit the following in duplicate to the Division Director plus one copy to the appropriate District Office of the Division.

(a) Name and address of the operator.

(b) Lease name, well number, well location, name of the pools to be commingled.

(c) A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases.

(d) A current (within 30 days) 24-hour productivity test on Division Form C-116 showing the amount of oil, gas, and water produced from each zone.

(e) A production decline curve for both zones showing that for a period of at least one year a steady rate of decline has been established for each zone which will permit a reasonable allocation of the commingled production to each zone for statistical purposes. (This requirement may be dispensed with in the case of a newly completed or recently completed well which has little or no production history. However, a complete resume of the well's completion history including description of treating, testing, etc., of each zone, and a prognostication of future production from each zone shall be submitted.)

(f) Estimated bottom-hole pressure for each artificially lifted zone. A current (within 30 days) measured bottom-hole pressure for each zone capable of flowing.

(g) A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the well-bore.

(h) A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams.

(i) A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula.

(j) A statement that all offset operators and, in the case of a well on Federal land, the United States Geological Survey, have been notified in writing of the proposed commingling.

3. The Division Director may approve the proposed downhole commingling in the absence of a valid objection within 20 days after the receipt of the application if, in his opinion, there is no disqualifying disparity of bottomhole pressures or other reservoir characteristics, waste will not result thereby, and correlative rights will not be violated. The 20-day waiting period may be dispensed with upon receipt of waivers of objection from all parties mentioned in Section 2, paragraph (j).

4. Upon such approval, the well shall be operated in accordance with the provisions of the administrative order which authorized the commingling, and allocation of the commingled production from the well to each of the producing zones shall be in accordance with the allocation formula set forth in the order. The production from a well with commingled oil zones shall be subject to the lower of the daily gas-oil ratio limitations applicable to the reservoirs. The production attributable to an oil zone commingled with a gas zone shall be subject to the daily gas-oil ratio limitation applicable to such oil zone or pool. Wells shall be tested on a commingled basis annually, except that a well penalized for a high gas-oil ratio shall be tested semi-annually.

5. The Division Director may rescind authority to commingle production in the well-bore and require both zones to be produced separately, if, in his opinion, waste or reservoir damage is resulting thereby or the efficiency of any secondary recovery project is being impaired, or if any change of conditions renders the installation no longer eligible for downhole commingling under the provisions of Section 1(a) or 1(b).

RULE 304. CONTROL OF MULTIPLE COMPLETED WELLS

Multiple completed wells which have been authorized by the Division shall at all times be operated, produced, and maintained in a manner to ensure the complete segregation of the various common sources of supply. The Division may require such tests as it deems necessary to determine the effectiveness of the segregation of the different common sources of supply.

RULE 305. METERED CASINGHEAD GAS

The owner of a lease shall not be required to measure the exact amount of casinghead gas produced and used by him for fuel purposes in the development and normal operation of the lease. All casinghead gas produced and sold or transported away from a lease, except small amounts of flare gas, shall be metered and reported in standard cubic feet monthly to the Division. The amount of casinghead gas sold in small quantities for use in the field may be calculated upon a basis generally acceptable in the industry, or upon a basis approved by the Division in lieu of meter measurements.

RULE 306. CASINGHEAD GAS

(a) No casinghead gas produced from any well in this state shall be flared or vented after 60 days following completion of the well.

(b) Any operator seeking an exception to the foregoing shall file an application therefor on Division Form C-129, Application for Exception to No-Flare Rule 306. Form C-129 shall be filed in triplicate with the appropriate district office of the Division. The district supervisor may grant an exception when the same appears reasonably necessary to protect correlative rights, prevent waste, or prevent undue hardships on the applicant. The district supervisor shall either grant the exception within ten days after receipt of the application or refer it to the Division Director who will advertise the matter for public hearing if a hearing is desired by the applicant.

(c) The flaring or venting by an operator of gas from any well in violation of this rule will result in suspension of the allowable assigned to the well.

(d) No extraction plant processing gas in the State of New Mexico shall flare or vent such gas unless such flaring or venting is made necessary by mechanical difficulty of a very limited temporary nature or unless the gas flared or vented is of no commercial value.

EXHIBIT LIST

EXAMINER: Michael E. Stogner

CASE NUMBER: 8168

HEARING DATE: April 25, 1984

APPLICANT			OPPOSITION		
No.	Description	Admitted	No.	Description	Admitted
1	Plat	✓			
2	Affidavit of Notice	✓			
3	Well History	✓			
4	C-116 3-21-84	✓			
	C-116 3-23-84				
5	Pool Data				

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONEY ANAYA
GOVERNOR

July 9, 1984

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Mr. William F. Carr
Campbell, Byrd & Black
Attorneys at Law
Post Office Box 2208
Santa Fe, New Mexico

Re: CASE NO. 8168
ORDER NO. R-7585

Applicant:

Getty Oil Company

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Yours very truly,

JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCD x
Artesia OCD x
Aztec OCD

Other James Bruce

WILLIAM P. AYCOCK & ASSOCIATES, INC.
Petroleum Engineering Consultants
308 WALL TOWERS WEST
MIDLAND, TEXAS 79701
PHONE 915/683-5721

April 27, 1984

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

Attention: Mr. Michael E. Stogner

Re: NMOCD Case No. 8168
Docket No. 17-84

Gentlemen:

This letter has been sent certified mail in order that no further unfortunate losses in communication occur, similar to those that have resulted in Doyle Hartman not being represented at NMOCD Case No. 8168 held April 25, 1984.

Without any criticism of any party concerned with this matter, Mr. Hartman was dismayed that a continuance was not granted, as had been discussed with Mr. William F. Carr (counsel for Getty in Case No. 8168) on Tuesday, April 24. Arrangements had been made for me to represent Mr. Hartman subsequent to his receipt of the docket and discussion with Getty's Hobbs office Engineering Supervisor on April 16, 1984. I did not appear on Mr. Hartman's behalf because of the chronology of events as summarized below:

DATE	EVENT
April 16, 1984	Mr. Hartman received Docket 17-84 and discussed the matter with Getty's Hobbs Engineering Supervisor. Mr. Hartman was assured that Getty "only wanted to rectify delinquent administrative requirements" prior to the consummation of the merger of Getty Oil Co. into Texaco, Inc. Mr. Hartman informed Getty's representative that he was not opposed to Getty being allowed to continue gas production at the current rates; however, in the event of either a workover to increase gas production and/or lengthy shut-in periods for Getty's Cooper Jal Unit No. 301, he would object. The reason for his objection was either uncompensated drainage from Mr. Hartman's Toby No. 3 (a Jalmat gas well assigned to an 80-acre proration unit in N/2 SW/4 Section 7, Twp 24S, Rge 37E) or probable loss of gas reserves due to water encroachment into the Jalmat zones from the Langlie Mattix reservoir's being waterflooded. Getty's

representative assurred Mr. Hartman that he would call him back about this matter, but he did not do so.

April 18-23, 1984 — Discussions with Mr. Carr pertaining to a means whereby a stipulated settlement could be reached between Mr. Hartman and Getty; Mr. Hartman's concerns were expressed to Mr. Carr and Mr. Carr agreed that a stipulated settlement was preferable to a contested hearing. Mr. Hartman was promised an answer to his proposal prior to the hearing.

April 24, 1984 — Discussions with Mr. Carr about an answer to Mr. Hartman's proposal; Mr. Carr proffered that he had not been able to secure an answer from Getty. Further discussions with Mr. Carr revolved about a continuance, so that Getty could fully evaluate Mr. Hartman's proposal. Mr. Carr expressed the opinion that this was reasonable and that he saw no reason why Getty would not agree to it. Mr. Hartman's attorney (Jim Bruce) was instructed to request a 30-day continuance based upon these facts; however, Mr. Hartman is uncertain as to whether he did so.

Mr. Hartman has always attempted to settle matters that could result in contested hearings being settled prior to their being heard in the interests of avoiding unnecessary burdens on other New Mexico operators as well as the Oil Conservation Division. As evidence of this as pertains to a wholly analogous situation, Mr. Hartman was able to settle Case No. 7403 heard November 4, 1981, with ARCo Oil and Gas Co. by a stipulated settlement that protected both parties.

Mr. Hartman's position is adequately expressed in the following statement, which both constituted the basis for his proposal to Getty Oil Company and was supposed to be entered into the record by his counsel (Jim Bruce of the Hinkle firm) for Case 8168; Mr. Carr, in discussions prior to the hearing stated that Getty intended that the Cooper Jal Unit No. 301 was to be classified as a Jalmat well. Further Mr. Carr requested this statement, so that Getty could have a specific proposal to consider:

> In the event that Getty is granted their application from the New Mexico Oil Conservation Division asked for in Case No. 8168, it is understood that the combined gas allowable from both the Jalmat and Langlie Mattix zones shall be set at the gas allowable for a Jalmat well on equivalent acreage (160 acres) instead of being set at 800 MCFPD which is the normal allowable for a Langlie Mattix well on a 40-acre tract.
>
> Also, in the event the well is shut in for longer than 30 days at a time, the Jalmat and Langlie Mattix zones shall be isolated from each other in order to prevent damage of the Jalmat zone by cross-flow from the higher pressured Langlie Mattix waterflood zone.

As long as no action was anticipated by Getty other than depletion of reserves from the current completions in an "as is" configuration, Mr. Hartman had no opposition; however, as previously stated, any increase in gas production would result in uncompensated drainage, since Mr. Hartman's Toby No. 3 well has been shut in due to reduced gas demand for approximately sixty percent of the time between September 1, 1983, and March 1, 1984.

Attached are copies of Mr. Hartman's proposed Exhibits 1-10, which would have served to document the following facts:

1. Mr. Hartman had standing in Case 8168.

2. Mr. Hartman's Toby No. 3 well and Getty's Cooper Jal Unit No. 301 are both completed in the Upper and Lower Yates zones of the Jalmat Pool.

3. Getty's Cooper Jal Unit No. 301 is also completed in the Langlie Mattix zones that are being waterflooded by open hole between depths of 3520' and 3580'.

4. Prevailing reservoir pressures are higher in the Langlie Mattix Pool waterflood zones than in the Jalmat Pool Upper and Lower Yates zones.

5. Water migration would, therefore, be anticipated between the Jalmat gas zones and Langlie Mattix waterflood zones inside the wellbore of the Cooper Jalmat Unit No. 301.

6. Such water migration between zones would result in waste and is preventable.

7. Mr. Hartman's correlative rights will be violated if either uncompensated drainage of Jalmat Gas to the Cooper Jal Unit occurs or if loss of reserves occurs due to interzone water migration.

8. These matters are within the Oil Conservation Divisions' statuatory authority and constitute legitimate matters of regulatory review.

In view of the above, Mr. Hartman would greatly appreciate your furnishing a copy of the order promulgalted in Case 8168 as soon as it has been rendered. Upon receipt of the Order, Mr. Hartman can evaluate his position and determine what (if any) subsequent action on his part is warranted.

Thank you for your kind assistance.

Very truly yours,

William P. Aycock

cc: Mr. Daniel Nutter
105 E. Alicante
Santa Fe, New Mexico 87501

Mr. Joe D. Ramey
New Mexico Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

Mr. James A. Davidson
Post Office Box 494
Midland, Texas 79702

In the event that Getty is granted their application from the New Mexico Oil Conservation Division asked for in Case No. 8168, it is understood that the combined gas allowable from both the Jalmat and Langlie Mattix zones shall be set at the gas allowable for a Jalmat well on equivalent acreage (160 acres) instead of being set at 800 MCFPD which is the normal allowable for a Langlie Mattix well on a 40-acre tract.

Also, in the event the well is shut in for longer than 30 days at a time, the Jalmat and Langlie Mattix zones shall be isolated from each other in order to prevent damage of the Jalmat zone by crossflow from the higher pressured Langlie Mattix waterflood zone.

Getty agreed prior to the hearing to the above so we did not present our case.

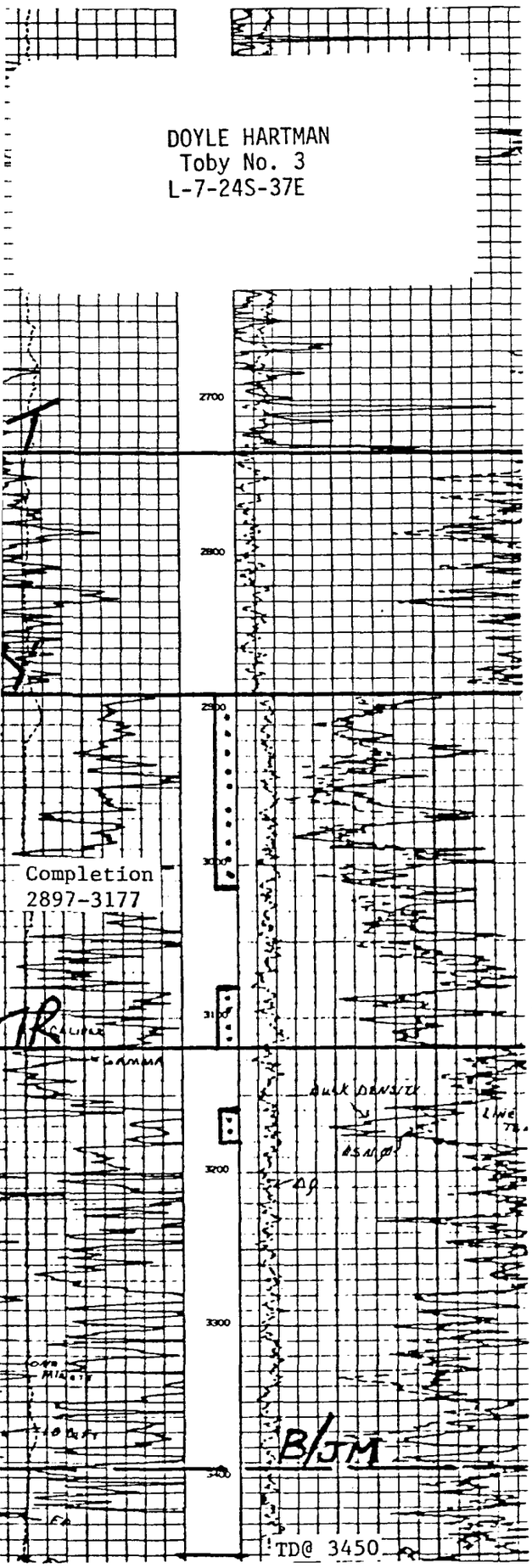
Michelle Hembree
April 22, 1984

Doyle Hartman
S.E. Toby Lease
N/2 SW/4 Section 7
T-24-S, R-37-E
(80 acres)

Getty Oil Company
Cooper Jal Unit Lease
NW/4 Section 18
T-24-S, R-37-E
(156.2 acres)

ACREAGE OWNERSHIP PLAT

T-24-S, R-36-E & R-37-E
Lea County, New Mexico
Scale 1" = 1000'



COMPANY Doyle Hartman

WELL Toby No. 3

FIELD Jalmat (Gas)

LOCATION 1780 FSL & 1100 FWL (L)
Section 7, T-24-S, R-37-E
(24-37-7-L)

COUNTY Lea

STATE New Mexico

ELEVATIONS: KB 3313
DF
GL 3303

COMPLETION RECORD

SPUD DATE 5-28-82 COMP. DATE 6-14-82

TD 3450 PBTD

CASING RECORD 9 5/8 @ 430 w/250
7 @ 3450 w/500

PERFORATING RECORD Perf: 2897-3177 w/21

STIMULATION A/5600
SWF/92,000 + 214,500

IP IP = 194 MCFPD

GOR GR

TP CP 192

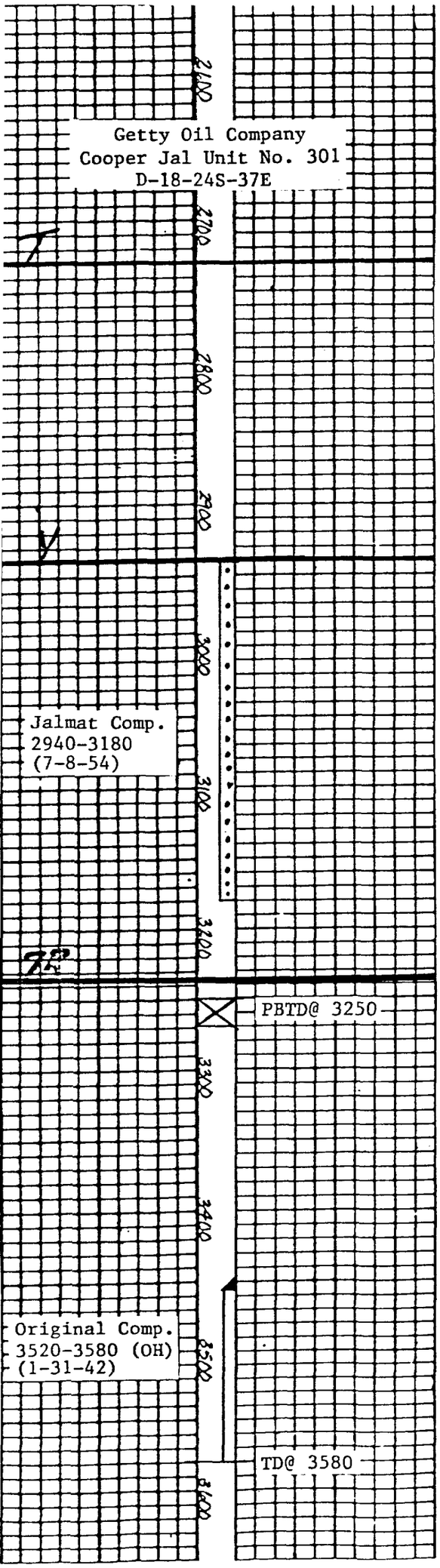
CHOKE 14/64 TUBING 2 3/8 @ 3262

REMARKS (8 1/2 x 64 x 1 1/4)

Well Test (5-1-83)
Gas: 288 MCFPD
Oil: 0 BOPD
Water: 0 BWPD
Choke: 18/64
TP: 156

3-31-84 Cum Prod: 139 MMCF
1984 Avg Prod: 116 MCFPD

L-7-24S-37E



D-18-24S-37E

COMPANY Getty Oil Company

WELL Cooper Jal Unit No. 301

FIELD Jalmat/Langlie Mattix

LOCATION 660 FNL & 660 FWL (D)
Section 18, T-24-S, R-37-E
(24-37-18-D)

COUNTY Lea

STATE New Mexico

ELEVATIONS: KB
DF 3311
GL

COMPLETION RECORD

SPUD DATE 12-16-41 COMP. DATE 1-31-42

TD 3580 PBTD

CASING RECORD 13 @ 240 w/250
9 5/8 @ 2822 w/500
7 @ 3456 w/100

PERFORATING RECORD OH: 3520-3580

STIMULATION

IP IPF = 15 BOPD

GOR GR

TP CP

CHOKE TUBING 2 1/2 @ 3576

REMARKS 7-8-54: PBTD @ 3250. Perf 2940-3180 w/480. Recompleted as Jalmat (Gas) well. F/1519 MCFPD.

2-29-84 Cum Prod: 2939.4 MMCF
1984 Avg Prod: 59 MCFPD

GAS PRODUCTION HISTORY

Date 4-18-84 Page 1 of 1

Operator: Doyle Hartman

Well: Toby No. 3

Location: L-7-24-37

Pool: Jalmat (Gas)

Spud Date: Original Completion Date:

Completion Interval (Gas):

Completion Date (Gas): First Production (Gas): 7-82

Remarks:

Year	No. of Mos.	Annual Gas Production (MCF)	Avg. Gas Rate (MCF/mo.	Cum. Gas Production (MMCF)	Annual SIP (psia)		
1982	6	49464	8244	49.5			
1983	12	78931	6578	128.4			
1984	3	10595	3532	139.0			

19 84 Detail Summary

Jan.	4390	July	
Feb.	-0-	Aug.	
March	6205	Sept.	
April		Oct.	
May		Nov.	
June		Dec.	

Production (Y-T-D) 10595 MCF

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

19 Detail Summary

Jan.		July	
Feb.		Aug.	
March		Sept.	
April		Oct.	
May		Nov.	
June		Dec.	

Avg. Rate (Y-T-D) 3535 MCF/mo.

116 MCFPD

L-7-24-37

Cum. _____

Field:	Jalmat (Gas)
Operator:	Doyle Hartman
Well:	Toby No. 3
Location:	L-7-24-37
County:	Lea State: New Mexico
Date Prod. Began:	7-82 Acres:

Gas Production - MCF/month

10000
1000
100

100
10

DEC. MAR. JUN. SEP.

19 82 | 19 83 | 19 84 | 19 85 | 19 86 | 19 87 | 19 88 | 19 89 | 19 90 | 19 91 | 19 92 | 19 93 | 19 94 | 19 95

GAS PRODUCTION HISTORY

Date 4-18-84

Operator: Getty Oil Company

Well: CJU No. 301 (Charles Bates)

Location: D-18-24-37

Pool: Jalmat (Gas)

Spud Date: _____ Original Completion Date: _____

Completion Interval (Gas): _____

Completion Date (Gas): _____ First Production (Gas): _____

Remarks: _____

Year	No. of Mos.	Annual Gas Production (MCF)	Avg. Gas Rate (MCF/mo)	Cum. Gas Production (MMCF)	Annual SIP (psia)	P/Z	
1977	12	67260	5605	2722.0	80	85	
1978	12	42725	3560	2764.7	67	70	
1979	12	45718	3810	2810.4	61	65	
1980	12	33512	2793	2843.9	259.2	272	
1981	12	26491	2208	2870.4	311.2	330	
1982	12	33441	2787	2903.9	222.2	228	
1983	12	31905	2659	2935.8	N/A	N/A	
1984	2	3604	1802	2939.4	N/A	N/A	

19 84 Detail Summary

Jan.	1964	July	
Feb.	1640	Aug.	
March		Sept.	
April		Oct.	
May		Nov.	
June		Dec.	

Production (Y-T-D) 3604

Days or Months (Y-T-D) 2 mos.

19 _____ Detail Summary

Jan.		July	
Feb.		Aug.	
March		Sept.	
April		Oct.	
May		Nov.	
June		Dec.	

Avg. Rate (Y-T-D) 1802

59 MCFPD

GAS PRODUCTION HISTORY

Date 8-19-80 Page 1 of 2

Operator: Reserve (Arco)

Well: CJU No. 301 (Charles Bates)

Location: D-18-24-37

Pool: Jalmat (Gas)

Spud Date: Original Completion Date:

Completion Interval (Gas):

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

Remarks:

Year	No. of Mos.	Annual Gas Production (MCF)	Avg. Gas Rate (MCF/mo.)	Cum. Gas Production (MMCF)	Annual SIP (psia)	P/Z	
1980	12	33512	2793	2843.9	N/A	N/A	
1979	12	45718	3810	2810.4	61	65	
1978	12	42725	3560	2764.7	67	70	
1977	12	67260	5605	2722.0	80	85	
1976	12	77198	6433	2654.7	41	45	
1975	12	62558	5213	2577.5	45	50	
1974	12	51247	4271	2515.0	214	225	
1973	12	27651	2304	2463.7	N/A	N/A	
1972	12	75383	6282	2436.1	212	225	
1971	12	88934	7411	2360.7	140	150	
1970	12	97682	8140	2271.7	263	275	
1969	12	91594	7633	2174.1	158	165	
1968	11	88909	8083	2082.5	263	275	
1967	12	147740	12312	1993.6	273	285	
1966	12	154444	12870	1845.8	308	330	
1965	12	116041	9670	1691.4	326	350	
1964	11	141839	12894	1575.3	351	370	
1963	12	155203	12934	1433.5	429	460	
1962	12	76274	6356	1278.3	510	560	
1961	11	50407	4582	1202.0	575	640	

19 79 Detail Summary

Jan.	2499	July	4241
Feb.	3111	Aug.	3553
March	4155	Sept.	4719
April	4356	Oct.	4699
May	4152	Nov.	4097
June	3777	Dec.	2359

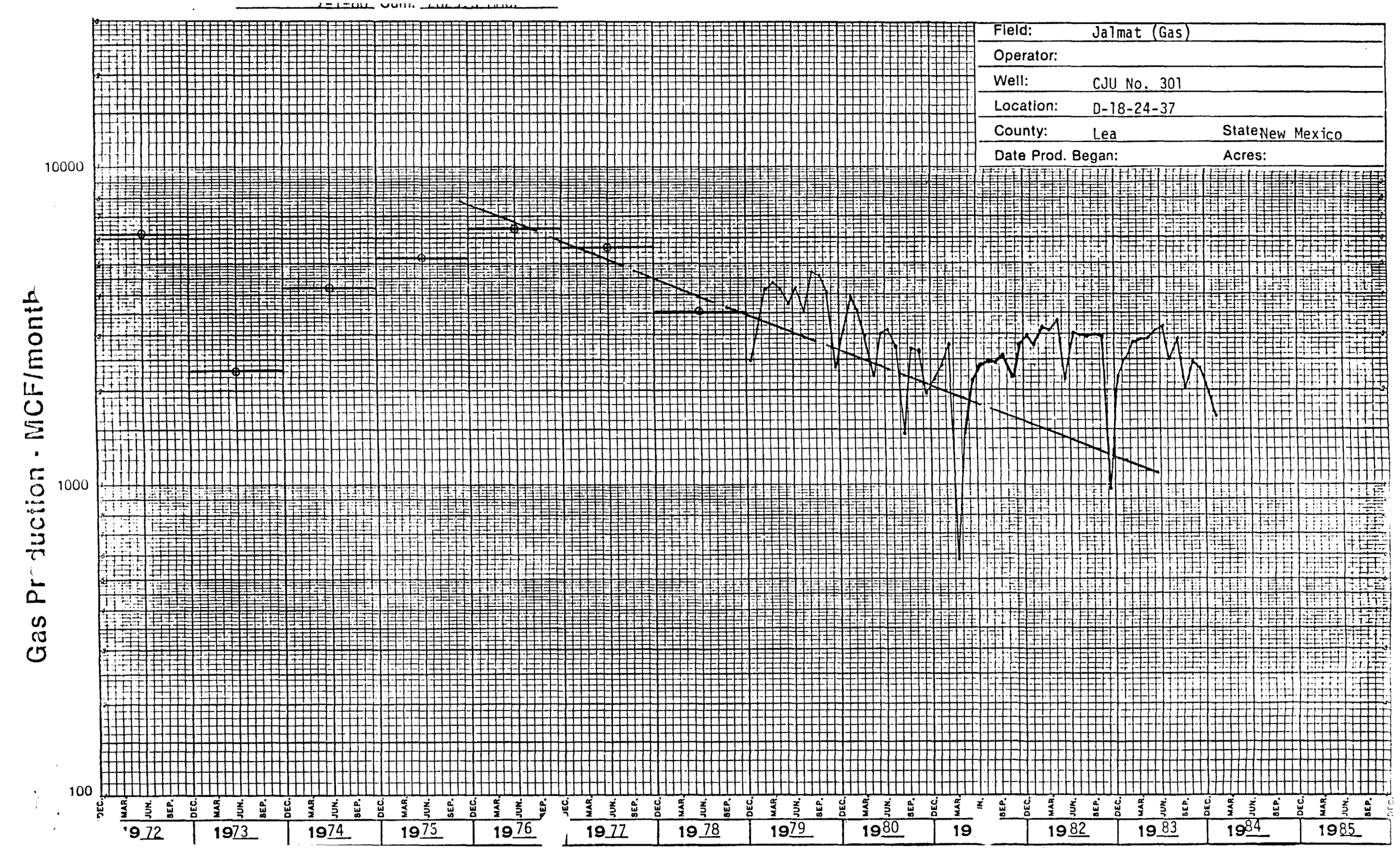
19 80 Detail Summary

Jan.	3097	July	3103
Feb.	3978	Aug.	2767
March	3572	Sept.	1471
April	2996	Oct.	2705
May	2215	Nov.	2661
June	3009	Dec.	1938

Production (Y-T-D) 18867 MCF

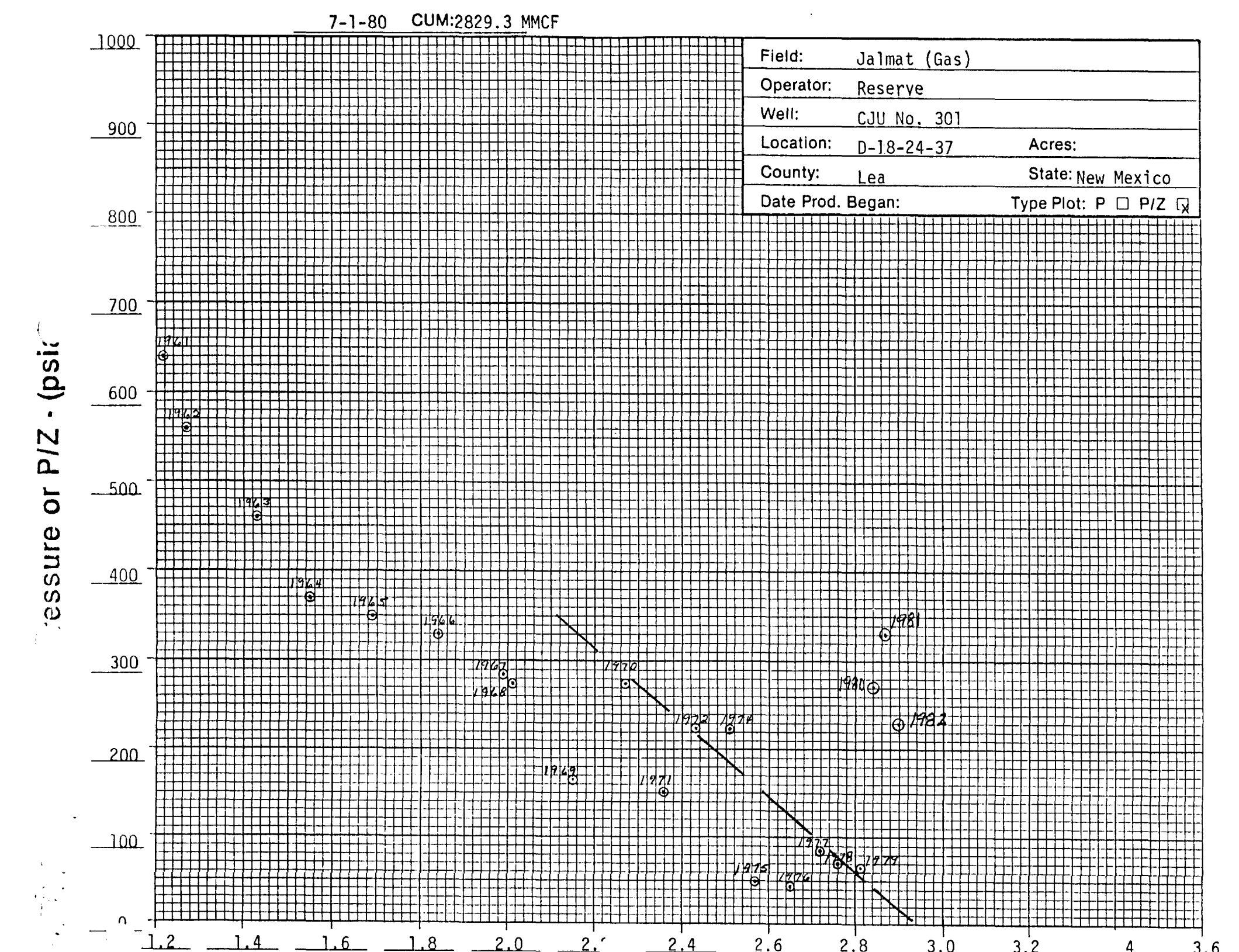
Avg. Rate (Y-T-D) 3144 MCF/mo.

Days or Months (Y-T-D) 6 mos.


Field: Jalmat (Gas)
Operator:
Well: CJU No. 301
Location: D-18-24-37
County: Lea
State New Mexico
Date Prod. Began:
Acres:
Gas Production - MCF/month
10000
1000
100
1972
1973
1974
1975
1976
1977
1978
1979
1980
1982
1983
1984
1985

7-1-80 CUM:2829.3 MMCF

Field:	Jalmat (Gas)		
Operator:	Reserve		
Well:	CJU No. 301		
Location:	D-18-24-37	Acres:	
County:	Lea	State:	New Mexico
Date Prod. Began:		Type Plot: P ☐ P/Z ☒	



DOYLE HARTMAN, OIL OPERATOR RPT# 000003 RUN ON 4/23/84

YEAR-TO-DATE PRODUCTION FOR 1982

VOLUMES CALCULATED AT 15.025 PSIA

LEASE#	METER#		DATE ON STREAM	NRI %	
020528	58638	TOBY #3	7/07/82	.46669923	OPERATOR - DOYLE HARTM

	MCF GAS PRODUCED	BBLS OIL PRODUCED	BBLS H2O PRODUCED	DAYS PRODN	LP PSIG	AVG TEMP	BTU FACTOR	BTU	ITD CUME GAS	ITD CUME OIL	AVG TP	AVG CP	DAYS SHUTIN
JANUARY													
FEBRUARY													
MARCH													
APRIL													
MAY													
JUNE													
JULY	7072			25.0					7072				
AUGUST	7851			30.8					14923				
SEPTEMBER	8394			30.0					23317				
OCTOBER	8433			31.0					31750				
NOVEMBER	8696			29.8					40446				
DECEMBER	9018			30.9					49464				
YTD 1982	49464			177.5									
ITD	49464			177.5									

DOYLE HARTMAN, OIL OPERATOR
YEAR-TO-DATE PRODUCTION FOR 1983
VOLUMES CALCULATED AT 15.025 PSIA

RPT# 000003

RUN ON 4/23/84

LEASE# METER#

820528 58638 TOBY #3

DATE ON STREAM: 7/07/82

NRI %: .46669923

OPERATOR - DOYLE HARTM

	MCF GAS PRODUCED	BBLS OIL PRODUCED	BBLS H2O PRODUCED	DAYS PRODN	LP PSIG	AVG TEMP	BTU FACTOR	BTU	ITD CUME GAS	ITD CUME OIL	AVG TP	AVG CP	DAYS SHUTIN
JANUARY	9111			31.0	34.40	46	.9967	1137	58576			157	
FEBRUARY	8125			28.0	38.00	54	.9959	1171	66701			156	
MARCH	8588			31.0	38.20	60	.9949	1179	75289			156	
APRIL	8469			30.0	33.25	62	.9939	1179	83758			155	
MAY	8725			31.0	35.75	71	.9922	1179	92483			155	
JUNE	7955			26.7	36.50	86	.9875	1179	100438			155	4
JULY	8715			29.7	37.50	87	.9874	1179	109153			153	
AUGUST	6927			23.7	39.50	87	.9878	1179	116080			154	4
SEPTEMBER	1468			5.0	32.00	89	.9848	1179	117548			160	25
OCTOBER	2				37.00	70	.9926	1179	117550			164	31
NOVEMBER	2324			8.0	41.00	57	.9956	1179	119874			164	
DECEMBER	8522			30.9	41.25	43	.9974	1171	128396			154	
YTD 1983	78931			275.0									
ITD	128396			452.5									

DOYLE HARTMAN, OIL OPERATOR — RPT# 000003 — RUN ON 4/23/84

YEAR-TO-DATE PRODUCTION FOR 1984
VOLUMES CALCULATED AT 15.025 PSIA

LEASE#	METER#		DATE ON STREAM	NRI %
020528	50638	TOBY #3	7/07/82	.46669923

OPERATOR - DOYLE HARTMAN

	MCF GAS PRODUCED	BBLS OIL PRODUCED	BBLS H2O PRODUCED	DAYS PRODN	LP PSIG	AVG TEMP	BTU FACTOR	BTU	ITD CUME GAS	ITD CUME OIL	AVG TP	AVG CP	DAYS SHUTIN
JANUARY	4390			21.8	43.50	42	.9976	1171	132786			156	12
FEBRUARY									132786			163	28
MARCH	6205			27.5	42.50	61	.9952	1171	138991			158	5
APRIL													
MAY													
JUNE													
JULY													
AUGUST													
SEPTEMBER													
OCTOBER													
NOVEMBER													
DECEMBER													
YTD 1984	10595			49.3									
ITD	138991			501.8									

126 days S.I.
213 total days
= 59% S.I.
(Sept. thru March)

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONEY ANAYA
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

FEB 2 2 1983

M E M O R A N D U M

TO: ALL OPERATORS AND ALL GAS PURCHASERS

FROM: JOE D. RAMEY, DIVISION DIRECTOR JDR

SUBJECT: PRIORITIES OF GAS PRODUCTION AND PURCHASES

During periods of low demand for New Mexico gas, the following curtailment schedule should be observed:

1. Overproduced non-marginal and high capacity non-prorated gas wells
2. Non-marginal gas wells
3. Marginal and low capacity non-prorated gas wells
4. Exempt marginal gas wells NW only
5. Casinghead gas
6. Gas wells which will be damaged by being shut-in or will require swabbing to produce after being shut-in

Those operators with wells in category No. 6 must furnish the Division with substantial proof before they will qualify for this category.

Anyone wishing to comment on this curtailment schedule should submit written comments to this office by February 28, 1983.

February 18, 1983
fd/

408. HARDSHIP GAS WELL

A. Hardship gas well is defined as a gas well wherein "underground waste" will occur if the well should be shut-in or curtailed below its minimum sustainable flow rate.

No well shall be classified as a hardship gas well except after notice and hearing or upon appropriate administrative action of the Division.

Wells approved as hardship gas wells under Rule 409 and/or Rule 410 shall be given priority access (over other gas wells) to the current available gas market to the extent that they might otherwise be restricted below the approved minimum flow rate.

409. APPLICATION FOR HARDSHIP GAS WELL CLASSIFICATION

A. Application for hardship gas well classification shall be made in the form prescribed by the Division and shall include the following:

(1) a narrative description of the problem(s) which leads the applicant to believe that underground waste will occur if the well is shut-in or curtailed below its minimum sustainable flow rate;

(2) documentation that the applicant has made all reasonable and economic attempts to eliminate or correct the problems(s) or an explanation and justification as to why such attempts were not made;

(3) a wellbore sketch;

(4) historical data such as permanent loss of productivity after shut-in, frequency and actual cost of swabbing after shut-in or curtailment including length of swab time required, actual cost figures showing the inability to continue operations without special relief, or any other data which would show that shut-in or curtailment would cause underground waste;

(5) if failure to obtain a hardship gas well classification would result in premature abandonment of the well, a calculation of the reserves which would be lost thereby;

(6) the minimum sustainable producing rate as determined by a minimum flow or "log-off" test or documentation of well production history;

(7) a plat and/or map showing the proration unit dedicated to the well and the ownership of the offsetting acreage;

(8) the name of the authorized transporter (and purchaser if different) of gas; and,

(9) any other data the applicant considers relevant.

B. Applications for hardship gas well classification shall be made in duplicate with the original copy being filed at Santa Fe and a copy being filed with the appropriate Division district office.

In addition, the applicant will notify the transporter and purchaser of gas from the well and all offset operators of the application and the requested minimum producing rate and shall so certify to the Division in his application.

410. PROCESSING OF APPLICATIONS FOR HARDSHIP GAS WELLS

A. The Director of the Division may administratively approve any application for hardship gas well classification or he may set such matter for notice and hearing.

B. (1) Applications which are to be approved administratively shall be listed in the Dockets of Division or Commission hearings which are issued from time to time.

(2) If no affected party has filed written objection to any such proposed administrative action within 20 days following the date of the hearing for which the Docket is issued, the application may be approved. If any such party shall file an objection before or within such 20 day period, the application will be set for hearing unless withdrawn by the applicant.

(3) The Director of the Division, on his own or upon the request of an affected party, may require a minimum flow (log-off) test on the well for which the hardship classification is being sought. The

applicant shall give notice to the Division, the gas transporter and purchaser and the requesting affected party of any minimum flow test conducted following such a request, in order that such test may, at the option of the Division or said parties, be witnessed.

Notice of any minimum flow test conducted prior to submitting a hardship gas well application shall be given to the appropriate Division district office, the gas transporter and purchaser, and offset operators in order that such test may, at the option of said parties, be witnessed.

411. EMERGENCY HARDSHIP GAS WELL CLASSIFICATIONS.

The supervisor of the appropriate Division district office may grant emergency approval of a hardship gas well classification upon receipt of a copy of the application form and attachments and a request by the applicant.

Approval of such emergency classification shall be made in writing to the Director of the Division, the applicant, and the purchaser. Emergency approval shall be given for 90 days and on a one time only basis.

412. LIMITS ON HARDSHIP GAS WELL CLASSIFICATION.

A. No hardship gas well classification shall be retained for a period in excess of one year unless the applicant shall annually request an extension thereof and certify that the condition of the well has not substantially changed.

B. The Division on its own motion may require that the applicant show cause why approval of a hardship gas well classification should not be rescinded in cases of suspected abuse, changed market conditions, or for any other reason.

C. Any well classified as a hardship gas well located in a prorated gas pool shall accumulate over or under production. No well which is classified as a hardship gas well shall be shut in for reason of over production.

1982- Jalmat

	TOTAL PURCHASERS NOMINATIONS	NOMINATIONS ADJUSTMENT	POOL ALLOCATION	LESS MARGINAL RESERVED ALLOCATION	TOTAL NON-MARGINAL ALLOCATION	ACREAGE ALLOCATION FACTOR F1	PARTICIPATING ACREAGE FACTORS	TOTAL POOL ALLOCATION
JAN	14761061	592641-	1416842	1060379	3560463	13978.94	25.50	14116835
FEB	1363180	53226	14164406	1093653	322753	12910.12	25.00	14164406
MAR	14779060	29624-	1448282	1098449	349833	13993.32	25.00	1448281
→ APR	13667280	83250-	1284030	960376	323654	12946.16	25.00	1284029
MAY	1184879	170153	1355032	1122247	232785	11218.55	20.75	1355034
JUNE	1147280	91723	1239003	983871	255132	108.56.168	23.50	1239003
JULY	1064079	78929	1143008	873562	269446	11226.92	24.00	1143005
AUG	960179	57095-	903084	765554	137530	11226.94	12.25	903080
SEPT	1076080	420638-	655442	470740	184702	10864.82	17.00	655439
OCT	762996	69813-	693183	496711	196472	11226.97	17.50	693178
NOV	1274409	736629-	537780	415722	122058	13195.46	9.25	537782
DEC	1299896	857551-	442345	317845	124500	13459.46	9.25	442347
	14,454,270		12.534,437			147,104.34		12,534,419
	1,204,523		1,044,536			12,258.695		
	13,686,556							

1983- Jaimat

	TOTAL PURCHASERS NOMINATIONS	NOMINATIONS ADJUSTMENT	POOL ALLOCATION	LESS MARGINAL RESERVED ALLOCATION	TOTAL NON-MARGINAL ALLOCATION	ACREAGE ALLOCATION FACTOR F1	PARTICIPATING ACREAGE FACTORS	TOTAL POOL ALLOCATION	
JAN	1409096	725648-	683448	504718	176730	14590.20	12.25	688449	48.50%
FEB	1276243	43511-	1232732	1,140226	92506	13215.14	7.00	1232733	96.59%
→ MAR	864139	245730-	618409	555729	62680	8954.29	7.00	618410	71.56%
APR	535,500	103,684-	431,816	393,970	38846	5549.43	7.00	431816	80.64%
MAY	657,560	41322-	616,238	573,652	42,586	6813.76	6.25	616237	
JUNE	334211	340666	674877	653232	21,645	3463.20	6.25	674872	
JULY	555968	13310	569278	527,506	41772	5761.66	7.25	569278	
AUG	500571	133935	634506	418 986	215520	3900.81	55.25	634505	
SEPT	400818	228321	629139	462 172	1669167	3022.03	55.25	629145	
OCT	510420	283172	793592	447595	345997	6319.58	54.75	793601	
NOV	896826	73802-	823024	318012	505012	10744.94	47.00	823023	
DEC	968740	117949-	850791	850791	2619160	11602.58	50.75	850790	
								8 5,682,871	

Avg for 1983 = 7828.14

Jaimat 1984

	TOTAL PURCHASERS NOMINATIONS	NOMINATIONS ADJUSTMENT	POOL ALLOCATION	LESS MARGINAL RESERVED ALLOCATION	TOTAL NON-MARGINAL ALLOCATION	ACREAGE ALLOCATION FACTOR F1	PARTICIPATING ACREAGE FACTORS	TOTAL POOL ALLOCATION
JAN	864500	371311	1235811	440157	795654	15083.49	52.75	1235807
FEB	848492	885646	1734138	909243	824895	14801.63	55.73	1734142
MAR	750937	823346	1574283	837439	736844	13104.11	56.23	1574277
APR	724110	153833	877943	698463	179480	3191.89	56.23	877949
MAY								
JUNE								
JULY								
AUG								
SEPT								
OCT								
NOV								
DEC								

CASE 7403: Application of Arco Oil and Gas Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of the Jalmat and Langlie Mattix production in the wellbore of its E. L. Steeler WN Well No. 5, located in Unit J of Section 19, Township 23 South, Range 37 East.

CASE 7359: (Continued from October 7, 1981, Examiner Hearing)

Application of Energy Reserves Group for creation of a new gas pool and an unorthodox location, Roosevelt County, New Mexico.
Applicant, in the above-styled cause, seeks creation of a new Cisco gas pool for its Miller Com Well No. 1, located in Unit M of Section 12, Township 6 South, Range 33 East.

Applicant further seeks approval for an unorthodox location for its Miller "A" Well No. 1-Y, to be drilled 1800 feet from the South line and 1700 feet from the East line of Section 11 of the same township. The S/2 of said Section 11 to be dedicated to the well.

CASE 7383: (Continued from October 21, 1981, Examiner Hearing)

Application of Amoco Production Company for compulsory pooling, Eddy County, New Mexico.
Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Upper Pennsylvanian formation underlying the NW/4 of Section 19, Township 19 South, Range 25 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 7404: Application of TXO Production Corporation for an unorthodox well location, Eddy County, New Mexico.
Applicant, in the above-styled cause, seeks approval for the unorthodox location of an infill well to be drilled 2000 feet from the North line and 660 feet from the East line of Section 18, Township 21 South, Range 26 East, Catclaw Draw-Morrow gas pool.

CASE 7405: Application of Carl Schellinger for dual completion and an unorthodox location, Chaves County, New Mexico.
Applicant, in the above-styled cause, seeks approval for the dual completion of his Campbell Station Unit Well No. 1, to produce gas from the Abo and Pennsylvanian formations. Applicant further seeks approval of the unorthodox Pennsylvanian location of said well 660 feet from the South and West lines of Section 34, Township 8 South, Range 27 East, the S/2 of said Section 34 to be dedicated to the Pennsylvanian and the SW/4 to the Abo.

CASE 7406: Application of Depco, Inc. for compulsory pooling, Chaves County, New Mexico.
Applicant, in the above-styled cause, seeks an order pooling all mineral interests down through the Abo formation underlying the SE/4 of Section 23, Township 5 South, Range 24 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 7407: Application of Mesa Petroleum Company for compulsory pooling, Chaves County, New Mexico.
Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Abo formation underlying the NE/4 of Section 23, Township 5 South, Range 24 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 7408: Application of Doyle Hartman for directional drilling, a non-standard proration unit, an unorthodox well location and simultaneous dedication, Lea County, New Mexico.
Applicant, in the above-styled cause, 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 1980 feet from the North line and 330 feet from the East line of Section 19, Township 25 South, Range 37 East. 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.