STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

ADMINISTRATIVE ORDER

NFL 28

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. E. C. Winters No. 2

Location: Unit H Sec. 18 Twp. 25S Rng. 37E Cty. Lea

II.

THE DIVISION FINDS:

(1) That Section 271.305(b) of the Federal Energy Regulatory Commission Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find that the infill well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit.

(2) That by Order No. R-6013-A, dated February 8, 1980, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.

(3) That the well for which a finding is sought is completed in the Jalmat Oil Pool, and the standard spacing unit in said pool is 40 acres.

(4) That a 40 -acre proration unit comprising the SE/4 NE/4 of Sec. 18, Twp. 25S, Rng. 37E, is currently dedicated to the E. C. Winters Well No. 1 located in Unit B of said section.

(5) That this proration unit is (X) standard ( ) nonstandard; if nonstandard, said unit was previousl approved by Order No. _____.

(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 360,500 MCF of gas from the proration unit which would not otherwise be recovered.

(8) That all the requirements of Order No. R-6013-A have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.

(9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved.

IT IS THEREFORE ORDERED:

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

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

DONE at Santa Fe, New Mexico, on this 12th day of November, 19 81.

DIVISION DIRECTOR X EXAMINER ____

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. Box 2088
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DONE at Santa Fe, New Mexico, on this 12th day of November, 19 81.

DIVISION DIRECTOR X EXAMINER ____

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

NPL 28

August 17, 1981

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

Attention Mr. Joe D. Ramey, Director

Subject: Exhibit 4, N.G.P.A. Administrative Gas Well Infill Application for Doyle Hartman's E. C. Winters No. 2 18(H)-25S-37E, Jalmat Pool, Lea County, New Mexico

Gentlemen:

This letter has been written in response to Mr. Ramey's letter to Mr. Hartman in this connection dated November 21, 1980, and in conformance with the Special Rules and Regulations, Natural Gas Policy Act Infill Findings Administrative Procedure, Oil Conservation Division, State of New Mexico Department of Energy and Minerals. Engineering studies were performed in order to answer Rules 8.g., 9.b. and 9.c.

The Doyle Hartman E. C. Winters No. 2 has the SE/4 NE/4, Section 18, Twp. 28 S, Range 37 E dedicated to it by virtue of Administrative Order NSP-1215 dated October 10, 1980, and November 10, 1980, which assigned the N/2, NE/4 and SW/4 NE/4, Section 18, T-25-S, R-37-E to the Doyle Hartman E. C. Winters No. 1, thus allowing the SE/4, NE/4 18-25S-37E to be assigned to the Doyle Hartman E. C. Winters No. 2. The drilling of this well commenced August 14, 1980, and completion was effected September 4, 1980, with a NMOCD Form C-105 submitted September 11, 1980, effective September 10, 1980. An application for N.G.P.A. Section 103 classification was made by letter dated September 30, 1980; but this application (including all attachments) was returned to Mr. Hartman by Mr. Ramey with a Wellhead Price Ceiling Determination, N.G.P.A. of 1978 letter dated November 21, 1980.

Rule 8.g. of Exhibit 4, N.G.P.A. Administrative Gas Well Infill Application Procedure requires "...a clear and concise statement indicating why the existing well(s) on the proration unit cannot effectively and efficiently drain the portion of the reservoir covered by the proration unit." The NE/4, 18-25S-37E was originally assigned to the Doyle Hartman E. C. Winters No. 1 located in Unit B. This well was completed from open hole section at 2776 to 2939 feet for 5000 mcf/day at 852 psi flowing pressure on May 8, 1952; as of June 2, 1981, this well had produced 2,432,275 mcf of gas, and the estimated ultimate gas recovery was 2,547,447 mcf. The

original gas-in-place was estimated as 2,937,000 mcf, so the gas recovery factor was a reasonable 88 percent of the original gas-in-place; however, engineering analysis of the available well log indicates that the original gas-in-place per acre is 34.4 mmcf. The effective drainage area is then the ratio of 2937 and 34.4, which is 85.4 acres. Since the lease comprises 160 acres, there are 160 less 85.4, or 74.6 acres not being effectively drained by a well located on the lease prior to Doyle Hartman drilling and completing the E. C. Winters No. 2.

Rule 9.b. requires "...the volume of increased recovery expected to be obtained and a narrative explaining how the increase was determined." The volume of increased gas recovery is estimated to be 360,500 mcf; this volume of increased recovery was estimated from extrapolation of the monthly gas rate as a function of cumulative gas production for the nine months of production, including the period October 1980 through June 1981.

Rule 9.c. requires that "...any other supporting data which the applicant deems to be relevant..." be submitted; in this connection, attached are the following:

1) Land Map, Jalmat Pool in the Vicinity of the Application Well
2) Structure Map, Top of Yates Formation, Jalmat Pool, in the Vicinity of the Application Well
3) Cross Section A-A'
4) Cross Section B-B'
5) Summary of Individual Well Information for Jalmat Pool Wells in the Vicinity of Doyle Hartman's Winters Lease, NE/4 18-25S-37E, Lea County, New Mexico
6) Graphical and Tabulated Gas Production History, Doyle Hartman E. C. Winters "B" No. 1, 18(B)-25S-37E, Jalmat Pool, Lea County, New Mexico
7) Graphical and Tabulated Gas Production History, Doyle Hartman E. C. Winters No. 2, 18(H)-25S-37E, Jalmat Pool, Lea County, New Mexico

We believe that the foregoing adequately documents this application, which if approved would be effective with initial production, since the original application was dated September 30, 1980. We should be pleased to supply any supplemental information that is available, should you desire it.

Very truly yours,

Wm. P. Aycock, P.E.

WPA/bw

Enclosures

INTENTIONAL OMISSIONS

The following document(s) have been intentionally omitted from this file due to the indicated reasons.

FILE # NFC 28

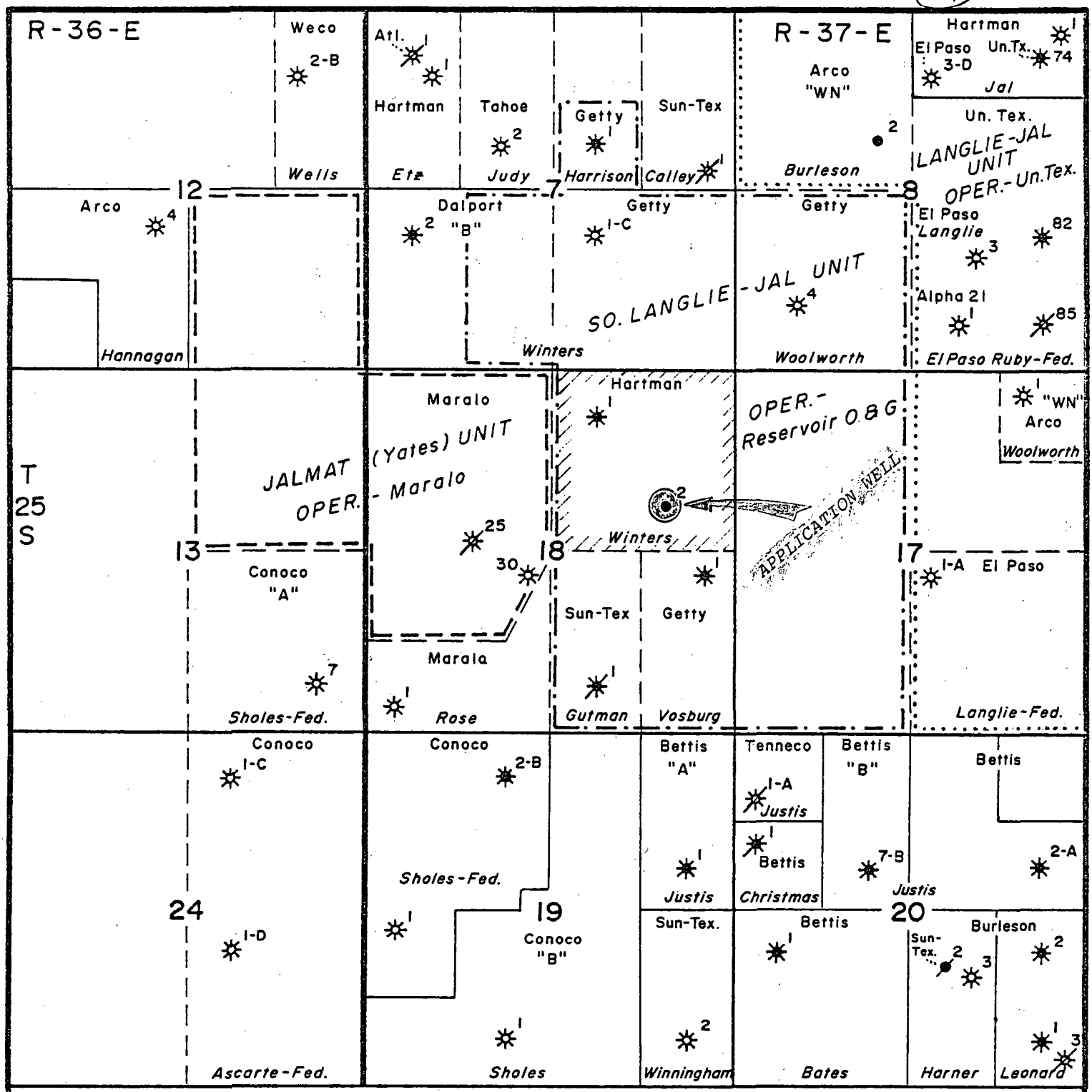
DESCRIPTION OF OMITTED DOCUMENTS

OMITTED DOCUMENT	REASON OMITTED
Graph/Plat (Jaunat Interval)	Too Large
Structure Map	"

Received 4/24/81

8/17

#1



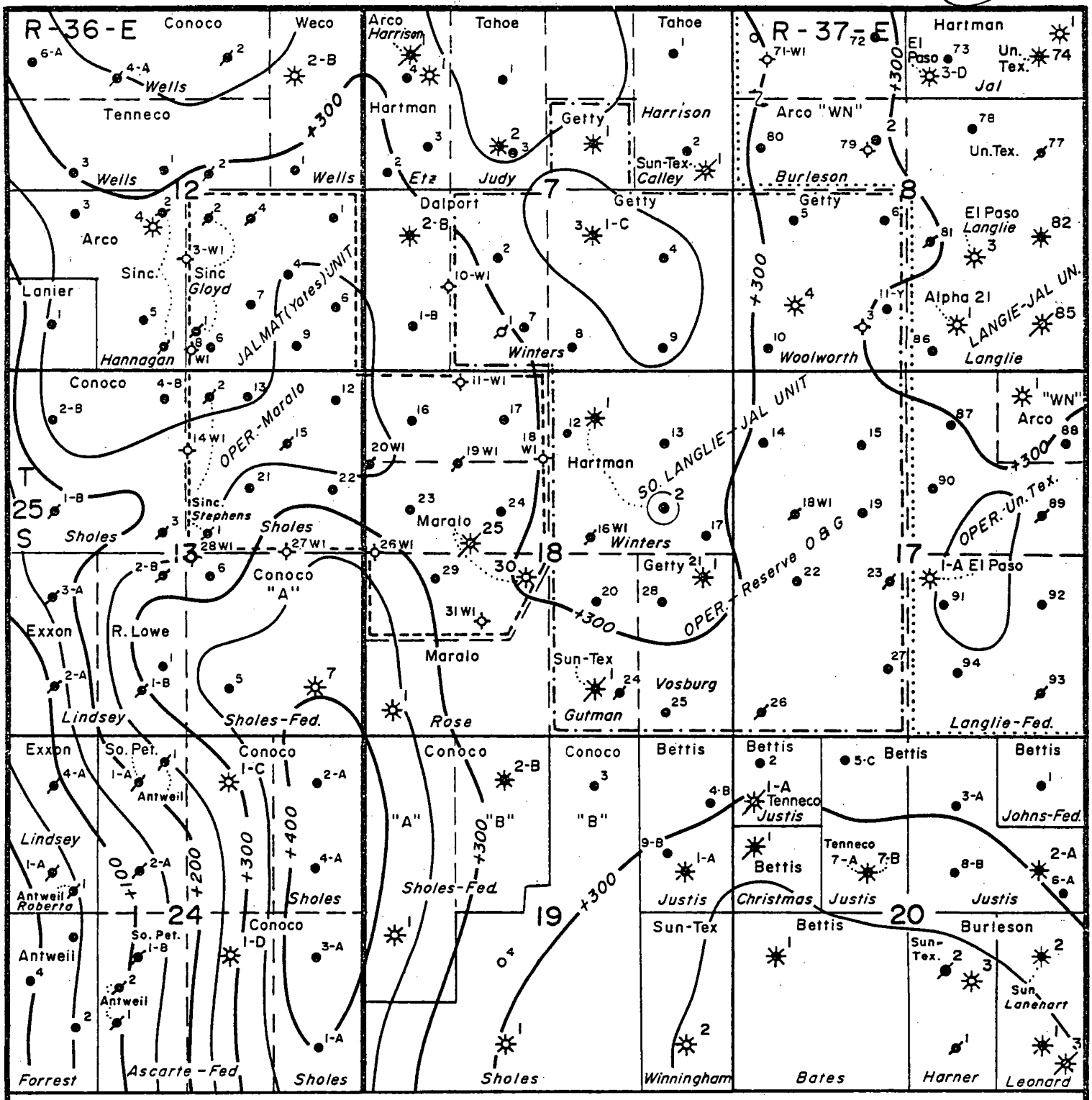
LAND MAP

JALMAT POOL

POOL JALMAT		County LEA	State NEW MEXICO
Engineer W. P. A.	Drwn. By H's	Date 7-22-81	File DOYLE HARTMAN
RADTKE, AYCOCK & ASSOCIATES, INC. 310 WALL TOWERS WEST MIDLAND, TEXAS		Ref. No. 145	EXHIBIT

8/17

#2a



STRUCTURE

TOP OF YATES

C. I. = 50'

POOL JALMAT		County LEA	State NEW MEXICO
Engineer W. P. A.	Drwn. By H's	Date 7-22-81	File DOYLE HARTMAN
RADTKE, AYCOCK & ASSOCIATES, INC. 310 WALL TOWERS WEST MIDLAND, TEXAS		Ref. No. 145	EXHIBIT

6/17 #5

SUMMARY OF INDIVIDUAL WELL INFORMATION FOR JALMAT POOL WELLS
IN THE VICINITY OF DOYLE HARTMAN'S E. C. WINTERS LEASE

LOCATED IN NE/4 OF SECTION 18, TOWNSHIP 25 SOUTH, RANGE 37 EAST
JALMAT POOL, LEA COUNTY, NEW MEXICO

	Doyle Hartman E.C.Winters #2	Dalport E.C.Winters B#2	El Paso Nat. Langlie A Fed #1	Getty Reserve SLJU #9 (WintersC#3)	Getty Reserve SLJU #12 (WintersE#1)	Getty Reserve SLJU #14 (Woolworth B #5)	Getty Reserve SLJU #17 (WintersD#1)	Getty Reserve E.C.Winters C#1	Getty Reserve SLJU #3	Getty Reserve Vosberg #1	Getty Reserve SLJU #21	Doyle Hartman E.C.WinterB #1	Maralo, Inc. Maggie Rose #1	Maralo, Inc. Maralo Jalmat Yates Unit #30 (M.Rose #3)	R. Olsen Gutman #1
LOCATION OF WELL	18(H)-25-37	7(L)-25-37	17(J)-25-37	7(P)-25-37	18(B)-25-37	17(D)-25-37	18(H)-25-37	7(J)-25-37	7(J)-25-37	18(I)-25-37	18(I)-25-37	18(B)-25-37	18(M)-25-37	18(K)-25-37	18(O)-25-37
DISTANCE AND DIRECTION FROM APPLICATION WELL	-	5350' NW	4000' ESE	2350' N	1700' NW	1800' NE	600' SE	4000' NNW	4000' NNW	1120' SSE	1120' SSE	1650' NW	4950' SW	2300' WSW	1780' SSW
PRIMARY STREAM	Oil	Oil	Oil	Oil	Oil	Oil	Oil	Gas	Oil	Gas	Oil	Gas	Gas	Gas	Oil
COMPLETION INTERVAL	2784-2855	2875-3034	2430-2980	3240-3325	3255-3342	3285-3390	3200-3336	2796-2946	3200-3345		3168-3336	2776-2938	2750-3070	2832-2900	2700-3035
COMPLETION DATE	9-9-80	8-26-51	6-18-52	3-27-54	8-27-53	6-1-54	3-11-53	3-29-54	3-29-54	9-26-52	9-26-52	5-8-52	3-21-48	1-27-50	9-13-50
INITIAL COAFP (MCF/DAY)	355		13,750					8,000				5,000	18,000	27,000	5,000
INITIAL POTENTIAL (BBL/DAY)	45	168		108	120	360	72		72		63				10
CUM. PRODUCTION @ 5-1-81															
LIQUIDS, BBL.	1,957	30,520	8,153	278,753	184,331	99,918	164,385	0	100,865	0	55,093	0	0	0	935
GAS, MMCF	55.1	1,106.5	834.9	320.1*	282.1*	57.0*	170.5*	1,785.4	113.2	653.7	0	2,429.7	1,497.2	1,327.7	17.3*
VOLUMETRIC ANALYSIS:															
MEAN EFF. POR % BULK VOLUME	0.228		0.133									0.226			0.229
MEAN CON. WTR. STN., % NEPS	0.500		0.250									0.277			0.214
NET EFFECTIVE PAY, FEET	20		116									125			117
OGIP, MMCF/ACRE	1.02		34.4									34.4			
ESTIMATED OGIP, MMCF								2,234		771		2,937	2,244	1,458	
ESTIMATED ULTIMATE RECOVERY															
LIQUIDS, BBL.	5,250	51,827	9,700	296,522	192,671	109,762	198,352	0	111,446	0	55,093	0	0	0	935
GAS, MMCF	360.5	1,220	879.9	323.0*	300.0*		188.0*	1,838.6	119.0	653.7	0	2,577.7	1,525.3	1,352.3	17.3*
ESTIMATED ULT. RECOVERY FACTOR								0.82		0.85		0.88	0.68	0.93	
ESTIMATED EFF. DRAIN. AREA, ACRE												85			
SIWHP, PSIA (1980)															
ORIGINAL SIWHP, PSIA	153.2		313.2TP 843.2CP					913.2TP		63.2TP 563.2CP		865.2		1,263.2CP	
CURRENT STATUS	Oil & Gas Producer	Oil & Gas Producer	Oil & Gas Producer	Oil & Gas Producer	Oil & Gas Producer	Oil & Gas Producer	Oil & Gas Producer	Gas Producer	Oil & Gas Producer	Last Prod. 10-70	Active Injector	Gas Producer	Gas Producer	Gas Producer	P&A 1972
								Same location-oil zone unitized 1970		Same location-oil zone Unitized 1970					

*Since 1-1-70

GAS PRODUCTION HISTORY

8/17 #7

Date 12-4-79

Operator: Dalport *

Well: Winters "B" No. 1

Location: B-18-25-37

Pool: Jalmat Gas

Spud Date: Original Completion Date:

Completion Interval (Gas):

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

Remarks: *Change of Operator effective July 23, 1980.

Year	No. of Mos.	Annual Gas Production (MCF)	Avg. Gas Rate (MCF/mo.)	Cum. Gas Production (MMCF)	Annual SIP (psia)	P/Z	
1979	12	21414	1784	2406.6	95.2	100	
1978	12	24539	2045	2385.2	93.2	95	
1977	12	28205	2350	2360.6	45.2	50	
1976	12	28529	2377	2332.4	94.2	95	
1975	11	27349	2486	2303.9	75.2	80	
1974	12	30553	2546	2276.5	101.2	105	
1973	12	29966	2497	2246.0	67.2	70	
1972	12	30623	2552	2216.0	120.2	125	
1971	10	13680	1368	2185.4	130.2	135	
1970	12	23483	1957	2171.7	131.2	135	
1969	12	24665	2055	2148.2	140.2	150	
1968	12	29785	2482	2123.6	139.2	145	
1967	12	47382	3949	2093.8	145.2	150	
1966	12	55554	4630	2046.4	N/A	N/A	
1965	12	79895	6575	1990.9	N/A	N/A	
1964	12	85362	7114	1910.9	N/A	N/A	
1963	11	44425	4039	1825.6	N/A	N/A	
1962	12	75103	6259	1781.2	N/A	N/A	
1961	12	75455	6288	1706.1	251.2	260	
1960	12	85330	7111	1630.6	278.2	290	

1978 Detail Summary

Jan.	1776	July	2117
Feb.	1515	Aug.	1955
March	3449	Sept.	1795
April	2533	Oct.	1472
May	3081	Nov.	1329
June	2259	Dec.	1258

1979 Detail Summary

Jan.	1216	July	1723
Feb.	1975	Aug.	1341
March	2219	Sept.	1678
April	2030	Oct.	1976
May	2213	Nov.	1575
June	2016	Dec.	1452

Production (Y-T-D) 21414 MCF

Days or Months (Y-T-D) 12 mos.

Avg. Rate (Y-T-D) 1784 MCF/mo.

GAS PRODUCTION HISTORY

Date 12-2-80

Operator: Doyle Hartman

Well: E. C. Winters No. 1

Location: B-18-25-37

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	18124	1510	2424.7	N/A	N/A	
1981	7	9150	1307	2433.8	N/A	N/A	

19 80 Detail Summary

Jan.	1452	July	1287
Feb.	1688	Aug.	1396
March	1599	Sept.	1555
April	1800	Oct.	1222
May	1718	Nov.	1275
June	1341	Dec.	1791

19 81 Detail Summary

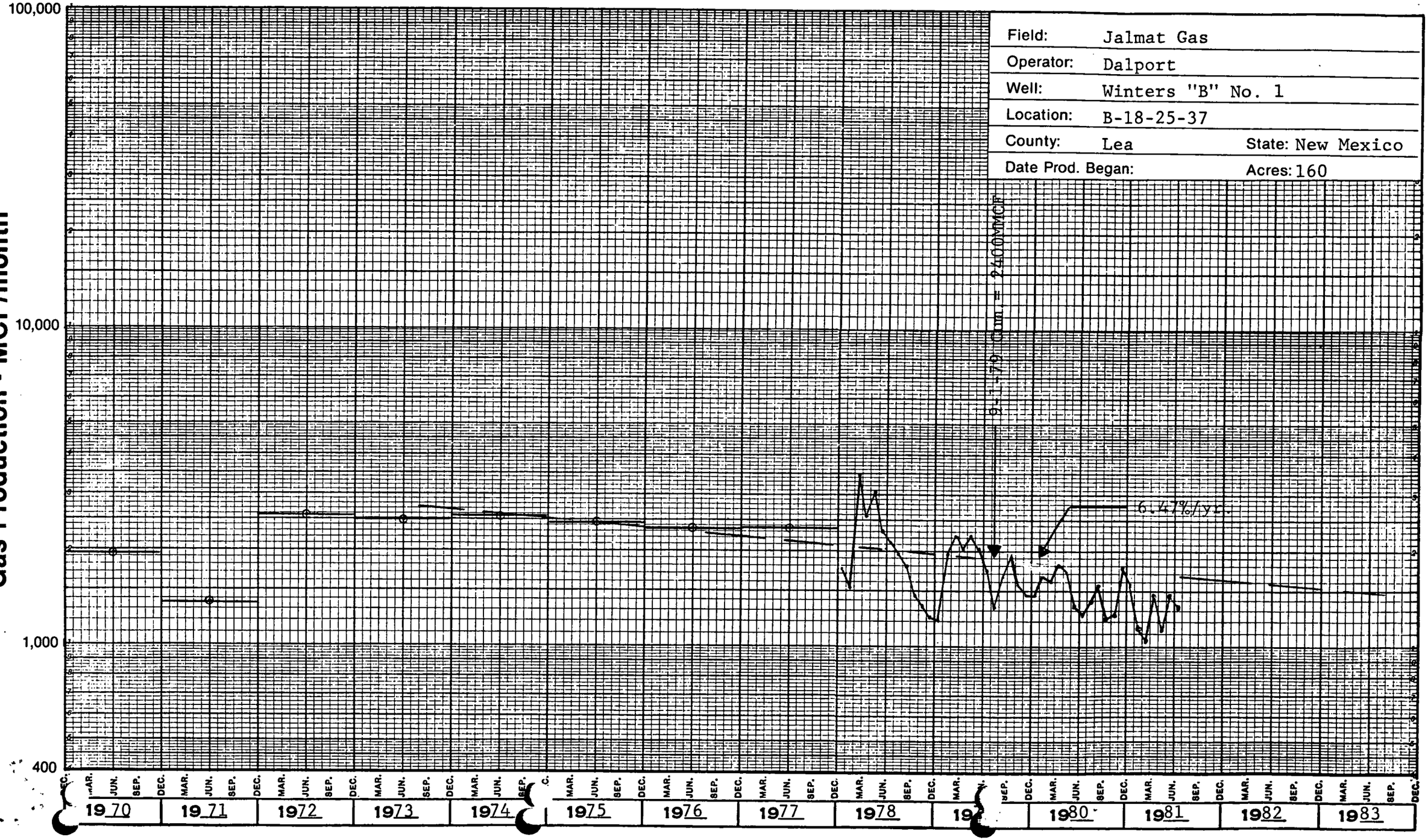
Jan.	1575	July	1336
Feb.	1149	Aug.	
March	1041	Sept.	
April	1468	Oct.	
May	1136	Nov.	
June	1445	Dec.	

Production (Y-T-D) 15058 MCF

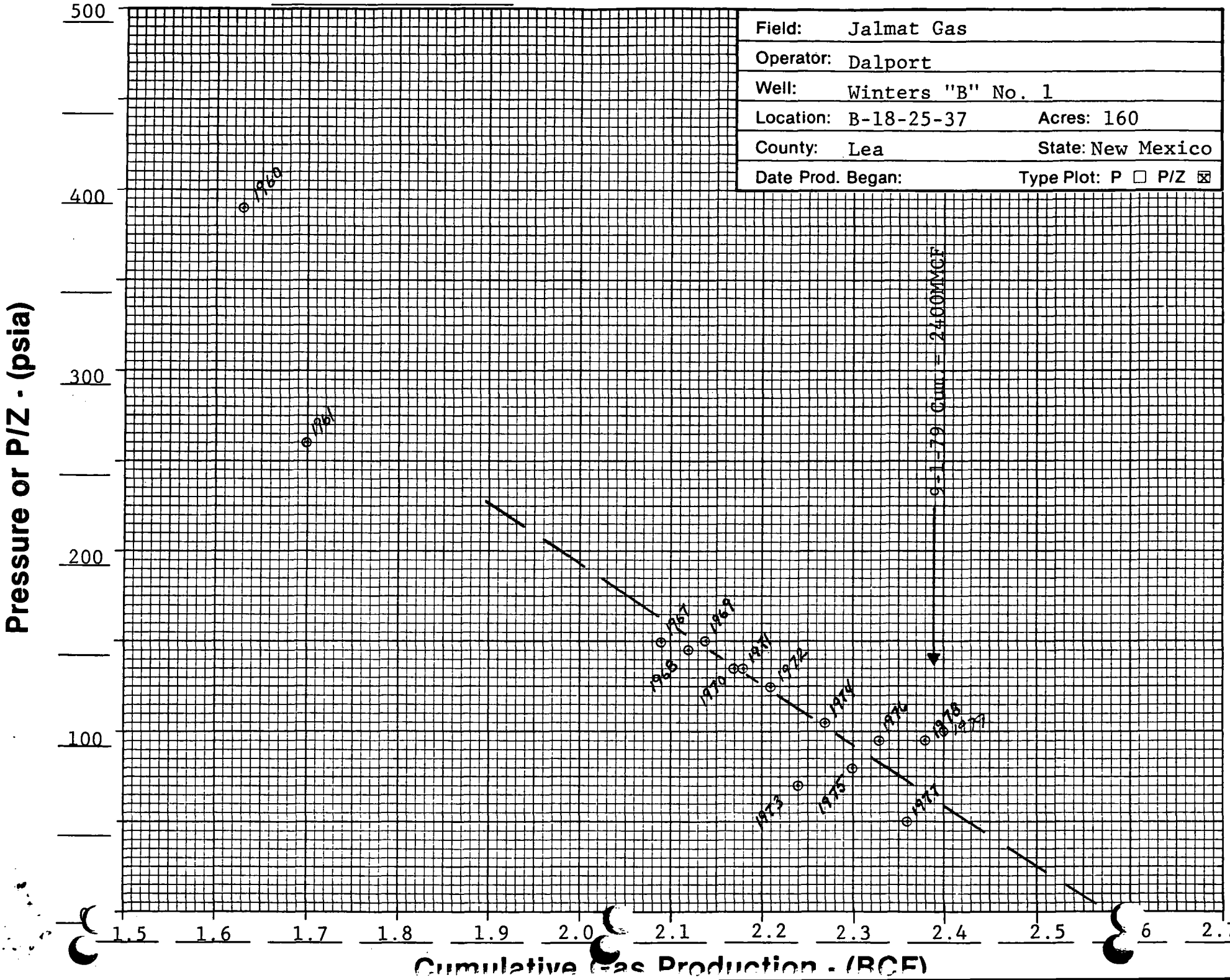
Days or Months (Y-T-D) 10 mos.

Avg. Rate (Y-T-D) 1506 MCF/mo.

9-1-79 Cum: 2399.9MMCF



9-1-79 Cum.2399.9MMCF



8/17
#8

GAS PRODUCTION HISTORY

Date 1-29-81 Page 1 of 1

Operator: Doyle Hartman
Well: E. C. Winters No. 2
Location: H-18-25-37

Pool: Jalmat (Oil)
Spud Date: Original Completion Date:
Completion Interval (Gas):
Completion Date (Gas): First Production (Gas):
Remarks: First Production 9-80.

Year	No. of Mos.	Annual Gas Production (MCF)	Avg. Gas Rate (MCF/mo.)	Cum. Gas Production (MMCF)			
1980	4	28547	7137	28.5			
1981	7	46426	6632	74.9			

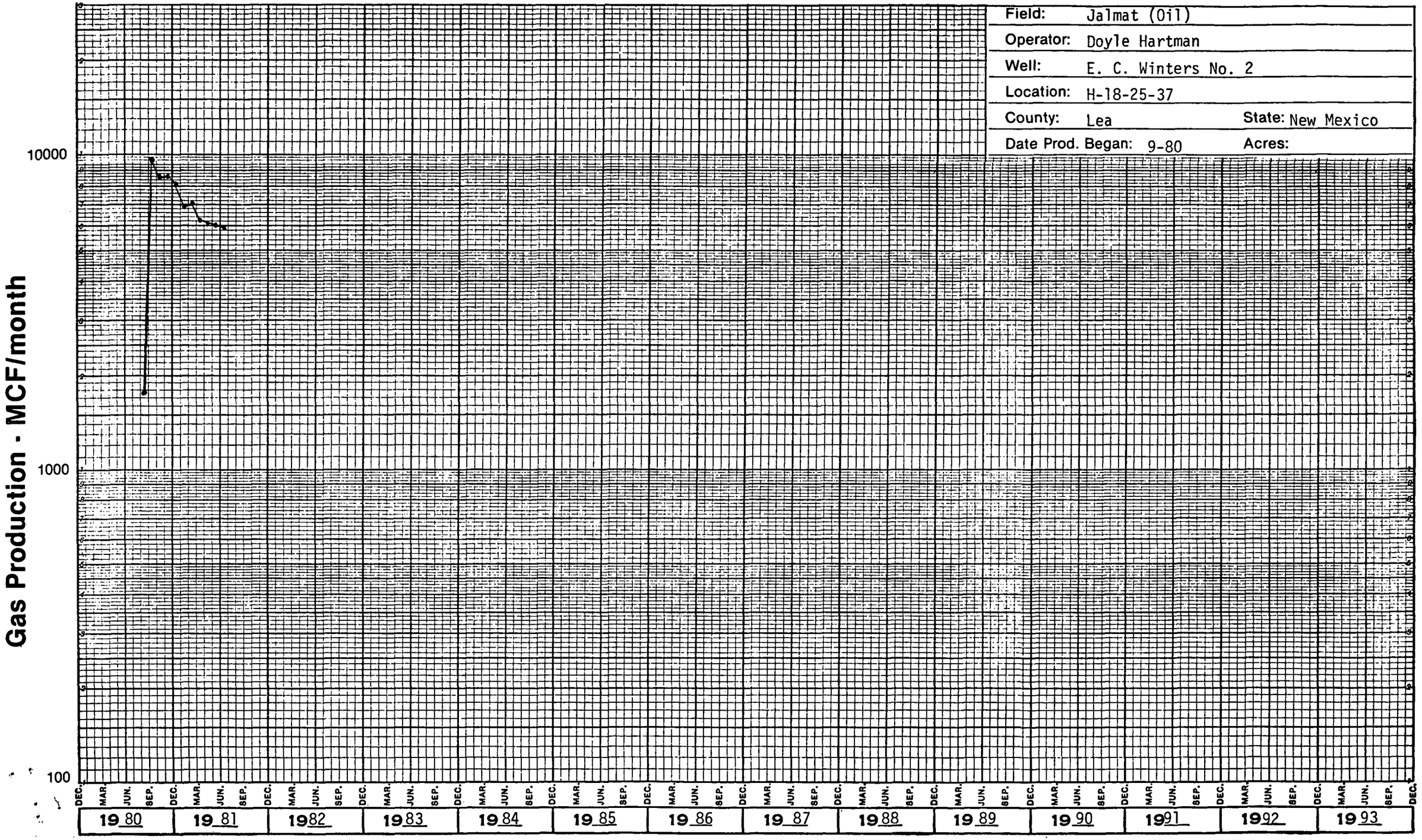
19 80 Detail Summary

Jan.		July	
Feb.		Aug.	
March		Sept.	1773
April		Oct.	9618
May		Nov.	8526
June		Dec.	8630

19 81 Detail Summary

Jan.	8131	July	5944
Feb.	6940	Aug.	
March	7029	Sept.	
April	6252	Oct.	
May	6116	Nov.	
June	6014	Dec.	

Production (Y-T-D) 28547 MCF
Avg. Rate (Y-T-D) 7137 MCF/mo.
Days or Months (Y-T-D) 4 mos.


Field: Jalmat (Oil)
Operator: Doyle Hartman
Well: E. C. Winters No. 2
Location: H-18-25-37
County: Lea
State: New Mexico
Date Prod. Began: 9-80
Acres:
Gas Production - MCF/month
10000
1000
100
DEC. MAR. JUN. SEP.
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993

OIL PRODUCTION HISTORY

Date 4-2-81 Page 1 of 1

Operator: Doyle Hartman

Well: E. C. Winters No. 2

Location: H-18-25-37

Pool: Jalmat (Gas)

Spud Date: Original Completion Date:

Completion Interval (Oil):

Completion Date (Oil): First Production (Oil):

Remarks: First Production 9-80.

Year	No. of Mos.	Annual Oil Production (BBL)	Avg. Oil Rate (BBL/mo.)	Cum. Oil Production (MBO)	Annual SIP (psia)		
1980	4	1350	337	1.3			
1981	7	899	128	2.2			

1980 Detail Summary

Jan.		July	
Feb.		Aug.	
March		Sept.	639
April		Oct.	310
May		Nov.	218
June		Dec.	183

1981 Detail Summary

Jan.	167	July	87
Feb.	135	Aug.	
March	152	Sept.	
April	153	Oct.	
May	114	Nov.	
June	91	Dec.	

Production (Y-T-D) 302 BBL Avg. Rate (Y-T-D) 151 BBL/mo.

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

3-1-81 Cum: 1.7 MBO

Field:	Jalmat (Gas)
Operator:	Doyle Hartman
Well:	E. C. Winters No. 2
Location:	H-18-25-37
County:	Lea
State:	New Mexico
Date Prod. Began:	9-80
Acres:	

OIL PRODUCTION - BBL/MONTH

10000
1000
100

DEC. MAR. JUN. SEP.

1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993

CUMULATIVE OIL PRODUCTION - MBO

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

10-5-81

Rd the Frac'k

Mailed

Re: Application for NGPA Infill Well
Findings Under Provisions of
Order No. R-6013-A Doyle Hartman
E.C. Winters Well No 2
Sec 18-T25S-R37E, Jalmat Pool

We may not process the subject application for infill findings until the required information, forms, or plats checked on the reverse side of this letter are submitted.

Sincerely,

R. L. STAMETS
Technical Support Chief

RLS/dr

☑ A copy of Form C-101 must be submitted.

☑ A copy of Form C-102 must be submitted.

☐ The pool name must be shown.

☐ The standard spacing unit size for the pool must be shown.

☐ Give the Division Order No. which granted the non-standard proration unit.

☐ Please state whether or not the well has been spudded and give the spud date, if any.

☐ Information relative to other wells on the proration unit is incomplete. _____

_____

_____

_____

☐ The geologic and reservoir data is incomplete or insufficient.

_____

_____

_____

_____

☒ Other:

Please show the calculations performed to determine recoverable reserves for both Wells No 1 and 2 and show the extrapolation of production on well No 2.

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

October 12, 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: Application for N.G.P.A. Infill Well Findings, Order R-6013A For Doyle Hartman's E. C. Winters No. 2 Well, Section 18, Twp. 25 S, Range 37 E, Jalmat Pool, Lea County, New Mexico

Gentlemen:

As required by your letter dated October 5, 1981, in this connection, attached are copies of Forms C-101 and C-102 for the subject well.

Additionally, you requested "...the calculations performed to determine recoverable reserves for both Well Nos. 1 and 2 and show the extrapolation of production Well No. 2." Attached are the following engineering calculations:

1. For Doyle Hartman's (originally Dalport Oil Corp.) E. C. Winters No. 1 Well:
   a. Constant percentage decline linear rate-cumulative numerical least-squares method calculations for the indicated years and months that documents the estimated ultimate gas recovery of 2,547,447 MCF at an estimated economic limit of production of 500 MCF of gas per month.
   b. Rate-time graph of log rate as a function of linear time, with the extrapolation of production indicated thereon.
   c. Graph of BHP/Z as a function of cumulative gas production, with the extrapolation to original gas-in-place indicated thereon.

2. For Doyle Hartman's Winters No. 2 Well:

   a. Constant percentage decline linear rate-cumulative numerical least-squares method calculations for the indicated year and months that documents the estimated ultimate gas recovery of 360,500 MCF at an estimated economic limit of production of 250 MCF of gas per month.

   b. Rate-time graph of log rate as a function of linear time, with the extrapolation of production indicated thereon.

   c. Log analysis calculations.

We trust that this information will satisfy your request of October 5, 1981; however, we should be pleased to respond with anything else that you might require upon request.

Very truly yours,

Wm. P. Aycock, P.E.

WPA/bw

Attachments

E.C. Winters #2

Re: WPA Projection - 7-27-81

$d = 20.81\ \%/yr$

@ 7-1-81, $Q = 67256$ mcf $\rightarrow$ $q = 5950$ mcf/mo
& 2161 bbls

@ $q_{EL} = 250$ mcf/mo, $Q = 360499$ mcf & 5250 bbls

$MSIP = 181\ psig = 158.2\ psia \Rightarrow \frac{BHP}{Z} = 168.5$

$E_{pi} = \left(\frac{168.5}{15.025}\right)\left(\frac{520}{566}\right) = 10.86$

$OGIP/Ac = (0.04356)(2.269)(10.86) = 1.024\ \frac{mmcf}{ac}$

E.C. Hartman #2

1. 1981

				RCCPD	R-TCPD
1	8161	30,869			
2	6940	38,615			85.05
3	7029	45,860			—
4	~~6952~~	~~52,000~~			16.43
5	~~6776~~	~~58,784~~			23.29
6	~~6574~~	~~64,249~~			18.09

1) $40,496 = 289,001 m + 6b$

2) $1906260459 = 1.469853 \times 10^{10} m + 289,001 b$

$m = 51,229.64$; $b = 9681.57 \approx 9681.59$

1) ~~$8,785 = 71,445 m + 3b$~~

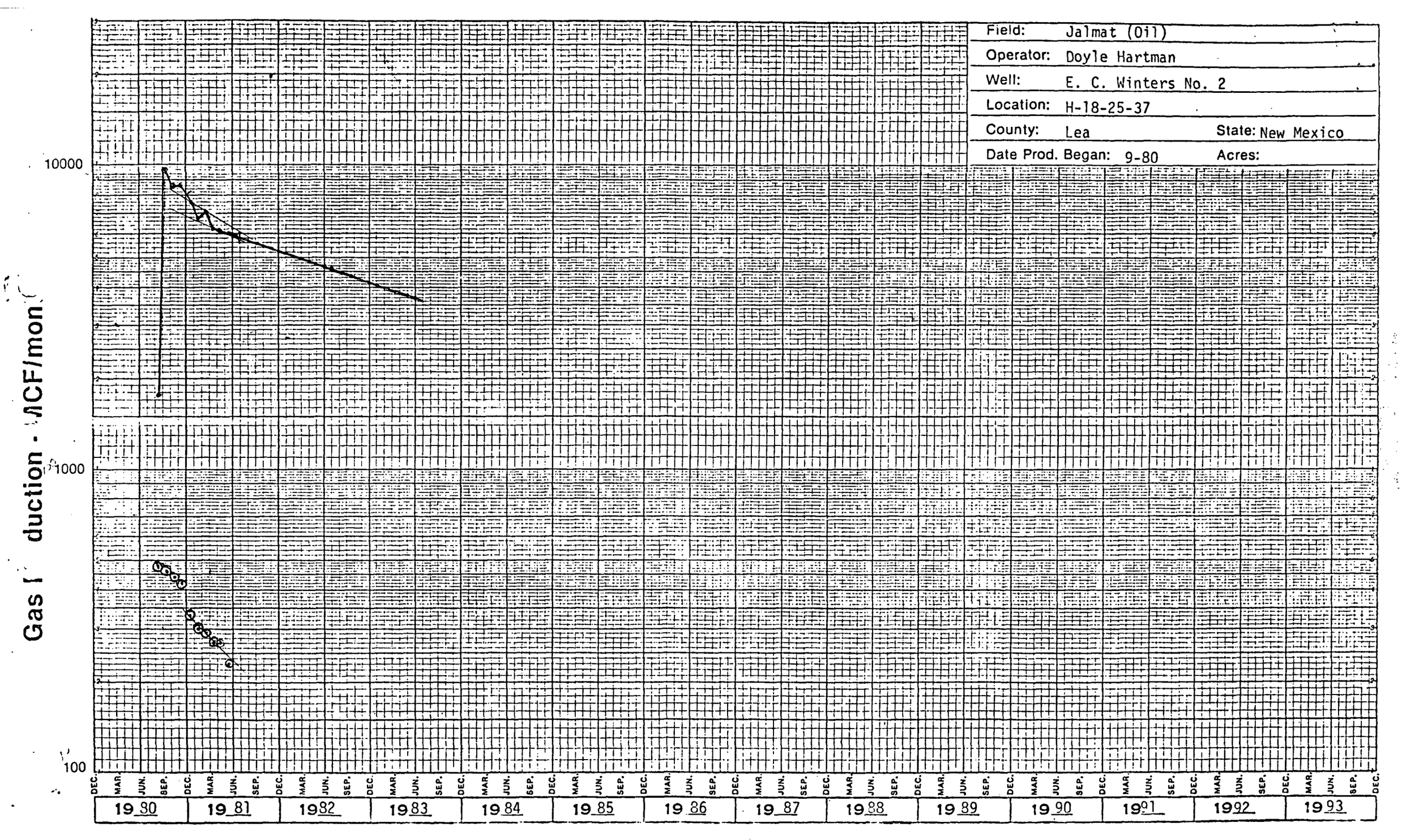
2) ~~$10[illegible] = [illegible] m + 4,434$~~

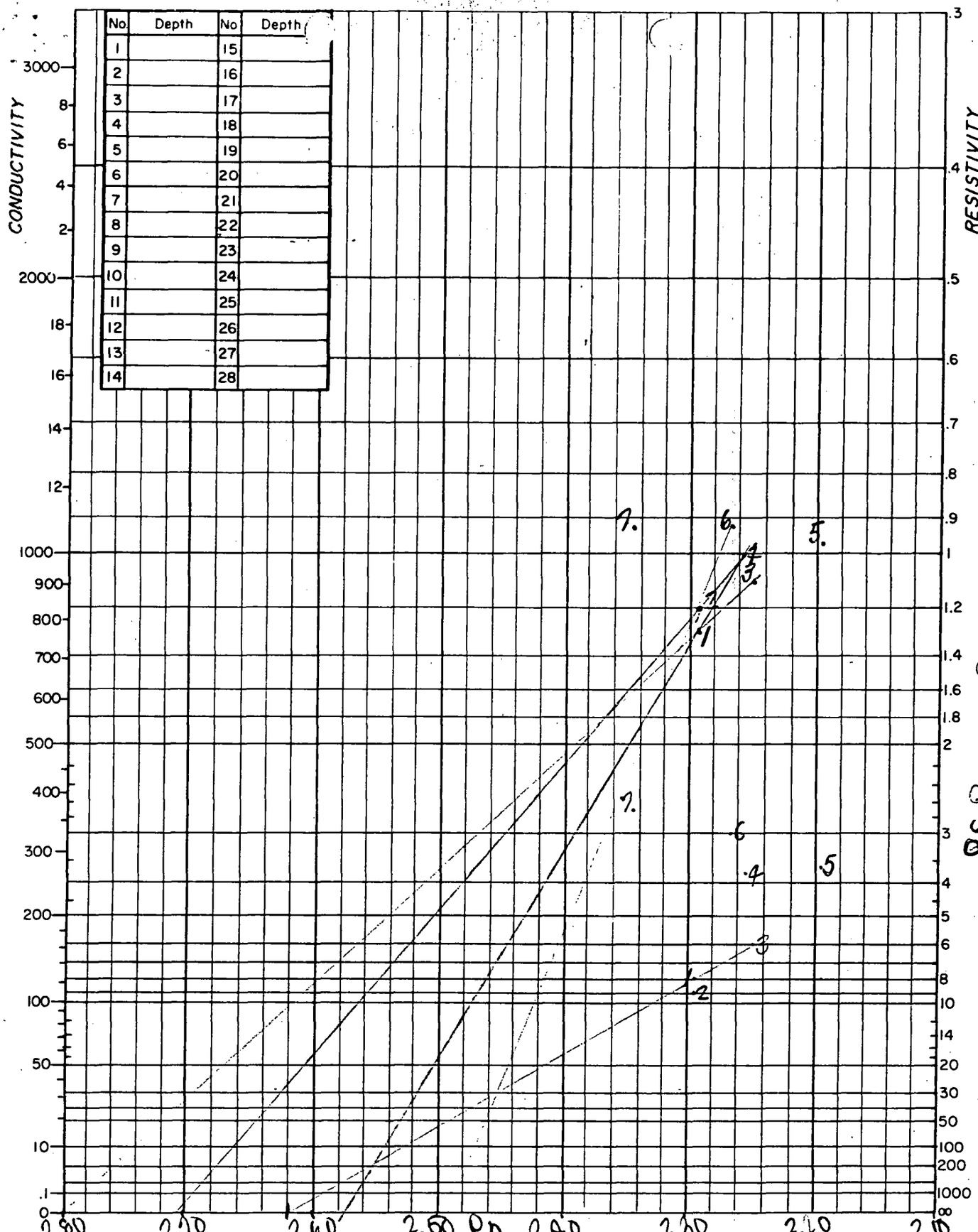
~~$m = [illegible]$; $b = [illegible]$~~

@ 7-1-81, $Q = 67,256$ mcf $\Rightarrow q = 5750 \frac{mcf}{mo}$
& 246005

@ $q_{eL} = 250 \frac{mcf}{mo}$, $Q = 360,499$ mcf & 525000bbls

7-21-81


Field: Jalmat (Oil)
Operator: Doyle Hartman
Well: E. C. Winters No. 2
Location: H-18-25-37
County: Lea
State: New Mexico
Date Prod. Began: 9-80
Acres:
Gas Production - MCF/mon
10000
1000
100
DEC. MAR. JUN. SEP.
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993



No.	Depth	No	Depth
1		15	
2		16	
3		17	
4		18	
5		19	
6		20	
7		21	
8		22	
9		23	
10		24	
11		25	
12		26	
13		27	
14		28	

STATISTICAL LOG ANALYSIS PLOT | WELL (name & no.) Hartman F.C. Winters 2

FIELD - Jalmat | County - Lea | State - N.M. | Date 6-12-91

GULF COAST TYPE

SIPES, WILLIAMSON & AYCOCK, INC.
Consulting Engineers
Midland - Houston, Texas

Ref. No.

FIGURE NO.

Prepared by _____ Date _____

Approved by _____

Well Name: Doyle Hartman E.C. Winters 2

API - 05 - 2[illegible]

Prod. Formation - Ojo Alamo (Fruitland) Pool

San Juan County, N.M.

DOYLE HARTMAN
WINTERS #2

	1		2			3		4	5	6	7	8	9	10	11	12	13
	Depth Interval		Gamma Ray (API)		Density (gm/cc)			Porosity (ρma = 2.680 gm/cc)	Shale Fraction (Vsh)	Rmf (@ 103°F)	Rwa	Sxo (Rmf = 0.032)	Sw (Rw = 0.0943)	m.o.	R.I.	R.I.	φ(1-Sw)
	From	To	→	←	Bulk	Fm.	Gr.			(ρb - 1.0)/(F_FDC)	(Rt/F_FDC)						
6	1791	1800	55	55	1.2	2.293	1.3	8.0	0.202	19.3	0.0672	0.413	0.700	0.484	0.216	4.3	0.625
5	1806	1809	54	54	1.0	2.293	1.2	9.0	0.201	18.3	0.0620	0.965	0.729	0.456	0.273	4.8	0.550
4	1809	1816	58	58	1.5	2.248	1.15	6.0	0.230	14.7	0.0164	0.409	0.649	0.487	0.162	4.2	0.472
3	1826	1829	61	62	1.5	2.255	1.0	3.75	0.225	15.3	0.0655	0.246	0.711	0.629	0.082	2.5	—
1	1829	1841	53	53	0.2	2.197	0.97	3.0	0.161	11.1	0.0877	0.663	0.615	0.539	0.076	3.4	0.842
2	1846	1850	57	57	1.0	2.265	0.92	3.0	0.219	16.1	0.0563	0.185	0.762	0.723	0.039	1.9	—
1	1876	1880	55	55	1.5	2.394	0.92	2.1	0.170	21.9	0.0230	0.0969	1.000	1.000 X	0	1.0	—

* $\phi_{FDC} = 0.01(\text{Diff} \leftarrow -5) = (2.71 - \rho b)/(2.71 - 1.00)$

$\rho b = 2.71 - 0.01(1.71)(\text{Diff} \leftarrow -5)$

$= 2.71 - 0.0342(\text{Diff} \leftarrow -5)$

$R_{mf} = 0.04 \text{ ohm-m @ } 85°F = 0.034 \text{ ohm-m @ } 103°F$

$T_{mf} = 81 + [(100 - 81)/(0.15 \times 3060)][2822.9] = 103°F$

$\varepsilon = 2.269$

$n = 2.0$

$\varepsilon_{pp} = 4.54$

$\bar{\phi} = 0.26$

$\bar{S}_w = 0.500$

Initials Date
Prepared by
Approved by

...is: Doyle Hartman E.C Winters

...55-20E

...ford - Wolfcamp (Penn) Pool

...ty, N.M.

DOYLE-HARTMAN
WINTERS #2

Depth From	Interval To	1 Gamma Ray (API) →		2 RHOB (g/cc) ←		3 NPHI (Limestone Porosity)		4 ϕ_{RHOB} (ρ_{ma}=2.710 g/cc)	5 ϕ_{NPHI} (n=)	6 R_{mf}= (R_o=...)	7 R_{wa} (R_o/F_{av})	8 S_{wa} (R_{mf}=0.0...)	9 S_w (R_w=0.0967)	10 M.O.=	11 R.I.	12 R.I./	13 $\phi(1-S_w)$
7794	7805	55	55	11.2	2.293	13	8.0	0.202	19.3	0.0622	0.473	0.700	0.484	0.216	4.3		0.625
7806	7809	54	54	10.1	2.293	12	9.0	0.202	19.3	0.0620	0.465	0.729	0.456 ✓	0.273	4.8		0.829
7809	7813	58	58	18.5	2.248	11.5	6.0	0.220	14.7	0.0764	0.409	0.649	0.487 ✓	0.162	4.2		0.772
7816	7819	61	62	18.4	2.255	10	8.75	0.225	15.3	0.0655	0.246	0.711	0.629	0.082	2.5		0.842
7819	7826	53	53	20.2	2.197	09	3.1	0.261	11.1	0.0874	0.333	0.615	0.539 ✓	0.076	3.4		
7826	7850	61	57	18.0	2.265	09	3.0	0.219	16.1	0.0568	0.185	0.762	0.723	0.039	1.9		
7818	7820	55	55	15.1	2.394	09	2.1	0.170	21.9	0.0830	0.0969	1.000	1.000 X	0	1.0		

...c = 0.01(1...<- -5) = (2.71 - ρb) / (2.71 - 1.00)

...ρb = 2.71 - 0.01(1.71)(N...<- -5)
= 2.71 - 0.0242(N...<- -5)

...= 0.04...m @ 85°F = 0.034...m @ 103°F
81 + [(100 - 81) / (0.15 X 3060)] [2827.9] = 103°F

ε = 2.269
h = 20
εm = 4.565
φ = 0.228
Sw = 0.500

#1

Patman Ventures B#1 PM 7/27/81

		δ	q
1979	7	1723	2397743
1980	2	1688	2408960
	3	1599	2410603
1981	1	1514	2425324
	4	1468	2428960

1) $7992 = 12071590m + 5b$

2) $1.928984 \times 10^{10} = 2.914531 \times 10^{13} m + 12071590b$

$-1.929522 \times 10^{10} = 2.914465 \times 10^{13} m - 12071590b$

$-538774 = 65276190m$

$m = -0.00825076 97$

$= 9.43\ \%/year$

$b_1 = 21518.4$ $b_2 = 21518.4$

Eur @ 500 = 2547447 mcf

Eur @ 250 = 2577747 mcf

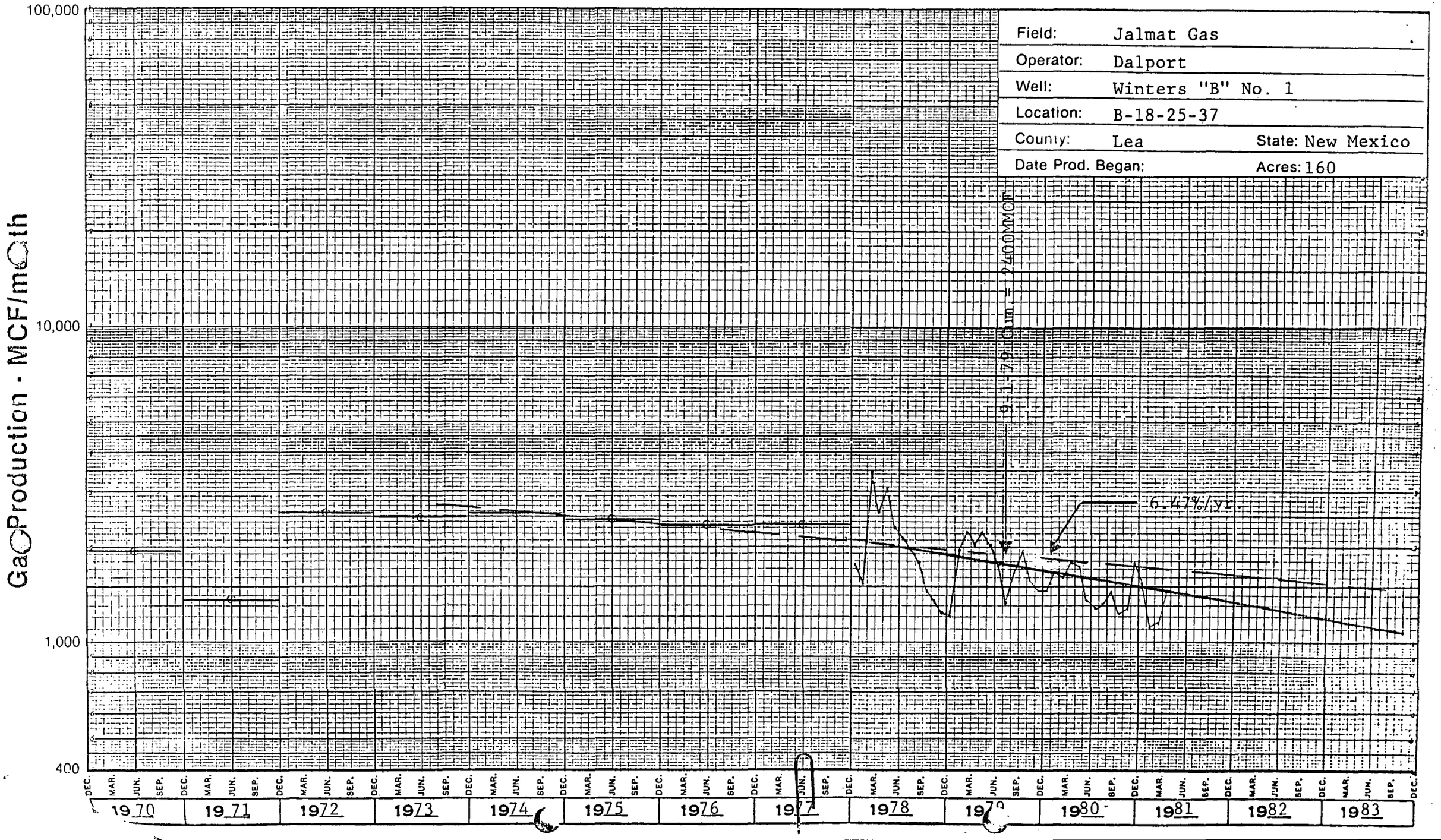
From BHP/z graph OGIP = $\frac{260 - 21}{2700} = \frac{260}{x}$

$239x = 702000$

$x = 2937$ mmcf

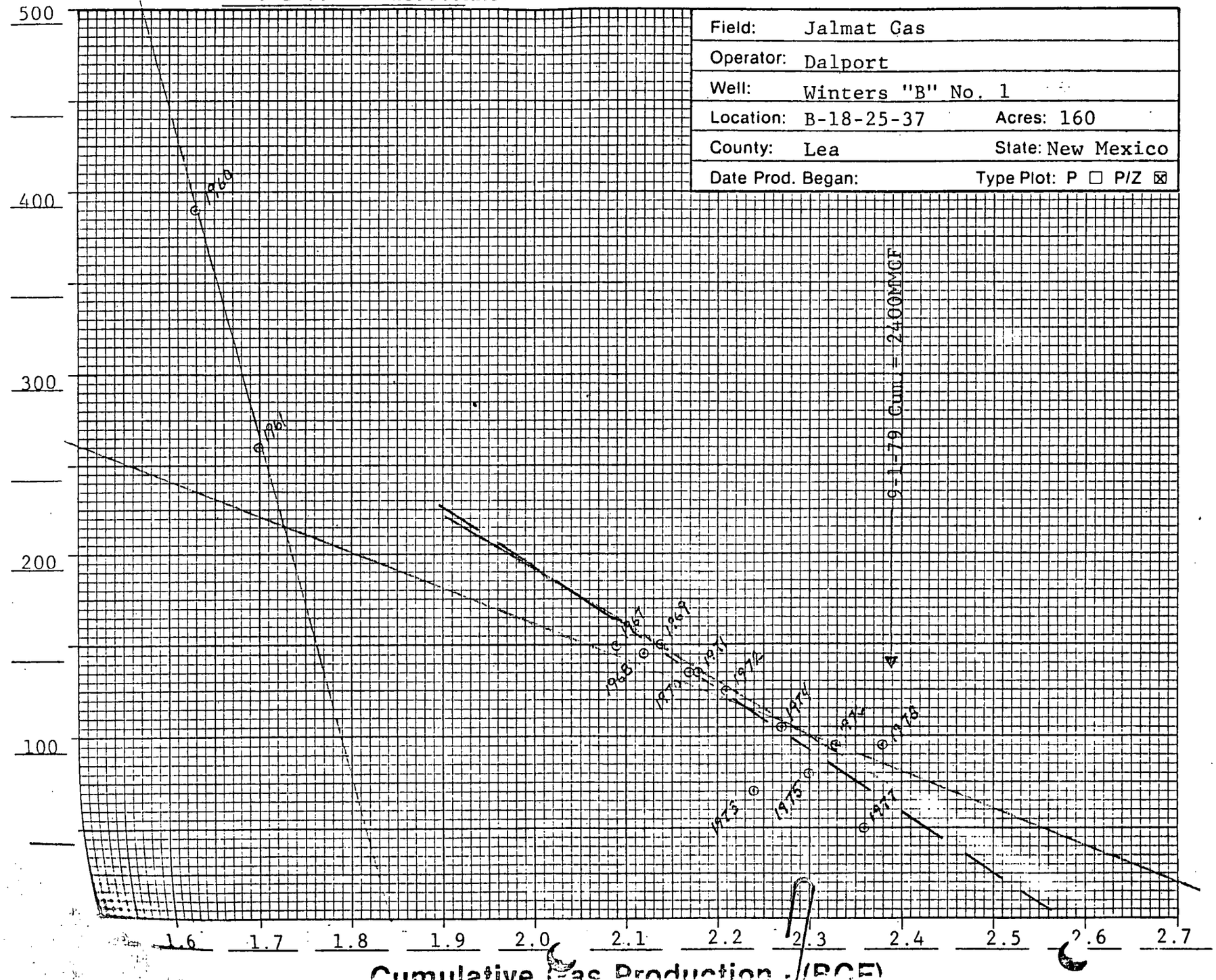
$(BHP/z)_i = [2937/(2937 - 1430.6)][276.2] = 525.4$

9-1-79 Cum: 2399.9MMCF



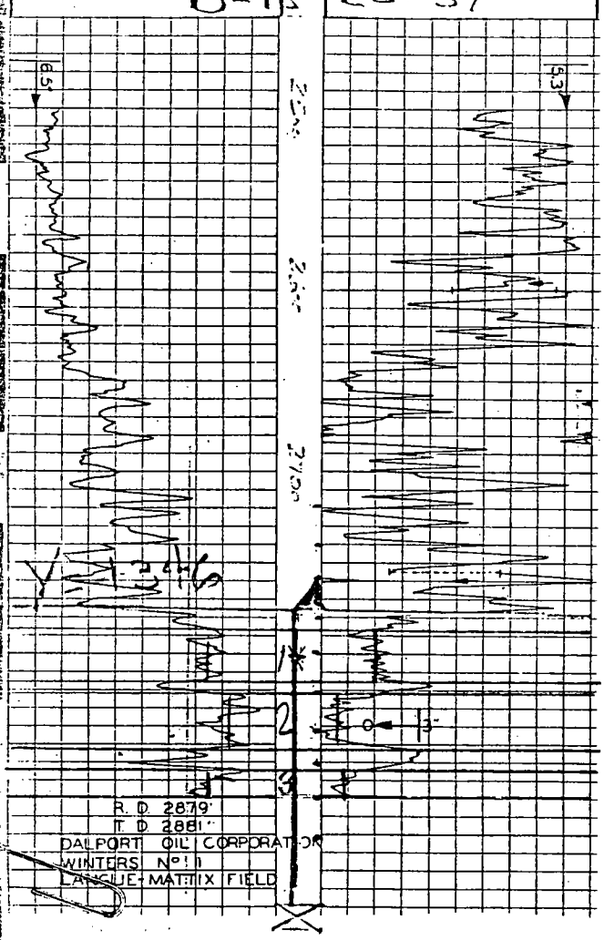
9-1-79 CUM. 2399.9MMCF

Field:	Jalmat Gas
Operator:	Dalport
Well:	Winters "B" No. 1
Location:	B-18-25-37 Acres: 160
County:	Lea State: New Mexico
Date Prod. Began:	Type Plot: P ☐ P/Z ☒



REMARKS OR OTHER DATA

Y = 2441



COMPANY Dalport

WELL E. C. Winters No. 1

FIELD Jalmat (Gas)

LOCATION 660 FNL & 1980 FEL (B)
Sec. 18, T-25-S, R-37-E

COUNTY Lea

STATE New Mexico

ELEVATIONS: KB

DF 3122

GL

COMPLETION RECORD

SPUD DATE COMP. DATE 5-8-52

TD 2938 PBTD 2938

CASING RECORD 10 3/4 @ 330 W/200
7 @ 2776 W/400

PERFORATING RECORD OH: 2776 - 2938

STIMULATION

IP IPF= 5000 MCFPD

GOR GR

TP FTP= 852 CP FCP= 852

CHOKE TUBING 2 3/8 @

DST RECORD

REMARKS

B-18-25-37

DOYLE HARTMAN
Oil Operator
500 N. MAIN
P. O. BOX 10426
MIDLAND, TEXAS 79702

(915) 684-4011

October 13, 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

Re: Application for N.G.P.A.
Infill Well Findings,
Order R-6013A for Doyle
Hartman's E. C. Winters
No. 2 Well, Section 18,
T-25-S, R-37-E
Jalmat (Oil) Pool
Lea County, New Mexico

Gentlemen:

As required by your letter to William P. Aycock dated October 5, 1981, attached are copies of Forms C-101 and C-102 for the above captioned well.

These copies were to have been attached to Mr. Aycock's letter of October 12, 1981, but were omitted.

Please forgive the oversight on our part, and let us know if we can furnish anything further with regard to our application.

Very truly yours,

DOYLE HARTMAN

Michelle Hembree

Michelle Hembree
Administrative Assistant

/mh

Enclosures as above

30-025-26948

NEW MEXICO OIL CONSERVATION COMMISSION

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SANTA FE

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OPERATOR		

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease: STATE [ ] FEE [X]

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

b. Type of Well: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

OIL WELL [ ] GAS WELL [X] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. Unit Agreement Name

8. Farm or Lease Name: E. C. Winters

2. Name of Operator: Doyle Hartman

9. Well No.: 2

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

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

4. Location of Well: UNIT LETTER H LOCATED 1980 FEET FROM THE North LINE AND 990 FEET FROM THE East LINE OF SEC. 18 TWP. 25S RGE. 37E NMPM

12. County: Lea

19. Proposed Depth	19A. Formation	20. Rotary or C.T.
3075	Yates	Rotary

21. Elev. (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor	22. Approx. Date Work will start
3071.0 G.L.	Multi-well Approved	Kenai Drilling Co. of TX	July 28, 1980

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	28	400	300	Surface
7 7/8	5 1/2	17	3175	600	Surface

The proposed well will be drilled to a total depth of 3075 feet and will be completed as a Jalmat (Yates) gas producer. From the base of the surface pipe through the running of production casing, the well will be equipped with a 3000-psi double ram BOP system.

NOTE: (1) Any gas produced from the proposed well has previously been dedicated to El Paso Natural Gas Company

(2) The proposed well will be the second well on the existing proration unit consisting of the NE/4 Section 18, and will share an allowable with the E.C. Winters No. 1.

APPROVAL VALID FOR 90 DAYS UNLESS DRILLING COMMENCED, EXPIRES 10/21/80

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

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

Signed Michelle Jones Title Administrative Assistant Date July 17, 1980

(This space for State Use)

APPROVED BY John W. Runyan TITLE _____ DATE JUL 21 1980

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED JUL 23 1980

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 14-65

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SANTA FE

All distances must be from the outer boundaries of the Section

Operator	Lease	Well No.
Doyle Hartman	E. C. Winters	2

Unit Letter	Section	Township	Range	County
H	18	25 South	37 East	Lea

Actual Footage Location of Well:
1980 feet from the North line and 990 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3071.0	Yates	Jalmat (Gas)	160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

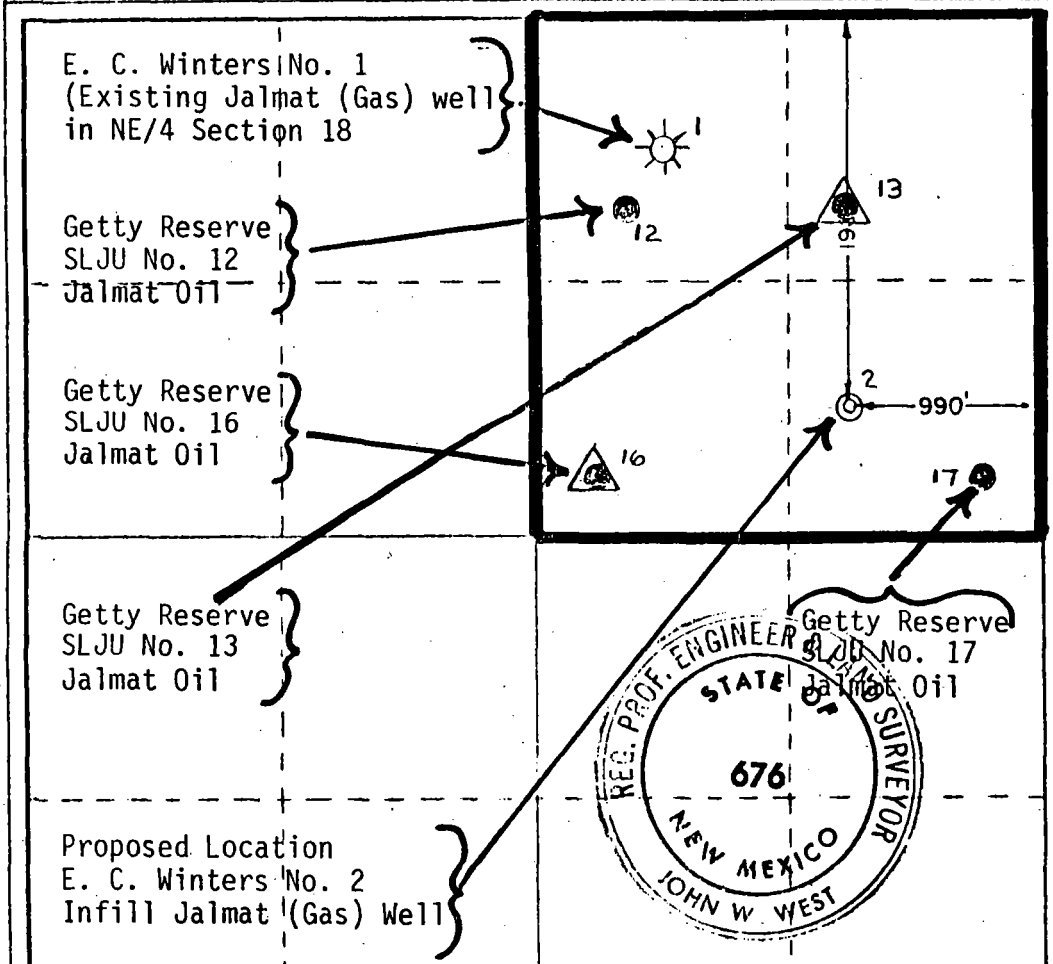
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

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

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

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



CERTIFICATION

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

Name: Michelle Hembree

Position: Administrative Assistant

Company: Doyle Hartman

Date: July 17, 1980

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: June 26, 1980

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. JOHN W. WEST 676
PATRICK A. ROMERO 6668
Ronald J. Eidson 3239

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section

RECEIVED
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OIL CONSERVATION DIVISION
SANTA FE

Operator	Lease	Well No.
Doyle Hartman	E.C. Winters	2

Unit Letter	Section	Township	Range	County
H	18	25 South	37 East	Lea

Actual Footage Location of Well:
1980 feet from the North line and 990 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3071.0	Yates	Jalmat (Oil)	40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

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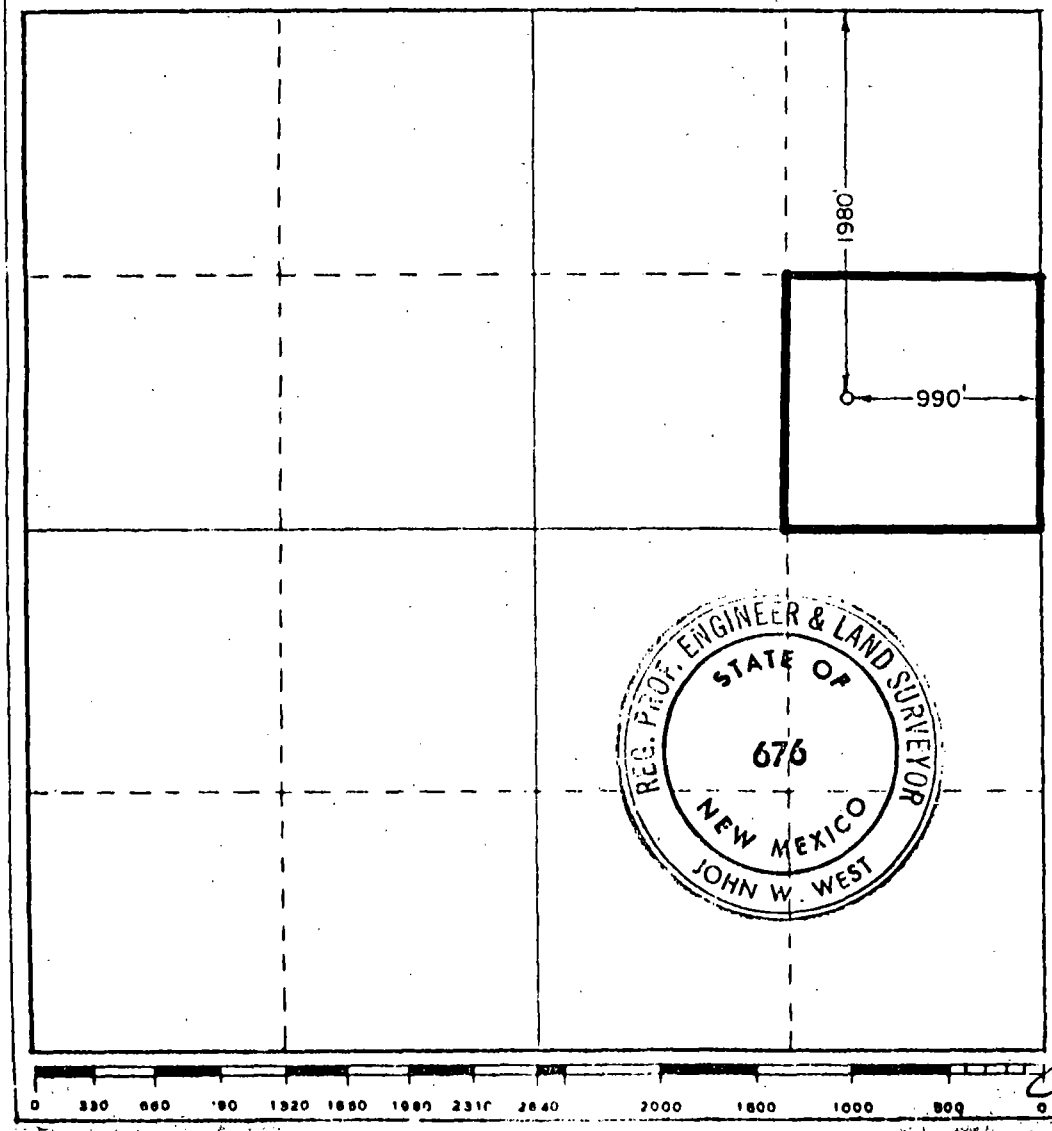

CERTIFICATION

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

Larry A. Nermyr

Name: Larry Nermyr

Position: Engineer

Company: Doyle Hartman

Date: September 11, 1980

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: June 26, 1980

RECEIVED
OCT 8 1980

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. JOHN W. WEST 676
PATRICK A. ROMERO 6668
Ronald J. Eidson 3239

30-025-26948

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NEW MEXICO OIL CONSERVATION COMMISSION

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OIL CONSERVATION DIVISION
SANTA FE

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease: STATE [ ] FEE [X]

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

b. Type of Well: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

OIL WELL [ ] GAS WELL [X] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. Unit Agreement Name

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2. Name of Operator: Doyle Hartman

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12. County: Lea

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APPROVAL VALID FOR 90 DAYS UNLESS DRILLING COMMENCED.

EXPIRES 10/21/80

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

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

Signed Michelle Jones Title Administrative Assistant Date July 17, 1980

(This space for State Use)

APPROVED BY John W. Runyan TITLE _____ DATE JUL 21 1980

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED JUL 23 1980

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section

RECEIVED
OCT 19 1981
OIL CONSERVATION DIVISION
SANTA FE

Operator	Lease		
Doyle Hartman	E. C. Winters		
Unit Letter: H	Section: 18	Township: 25 South	Range: 37 East

County: Lea

Actual Footage Location of Well: 1980 feet from the North line and 990 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3071.0	Yates	Jalmat (Gas)	160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

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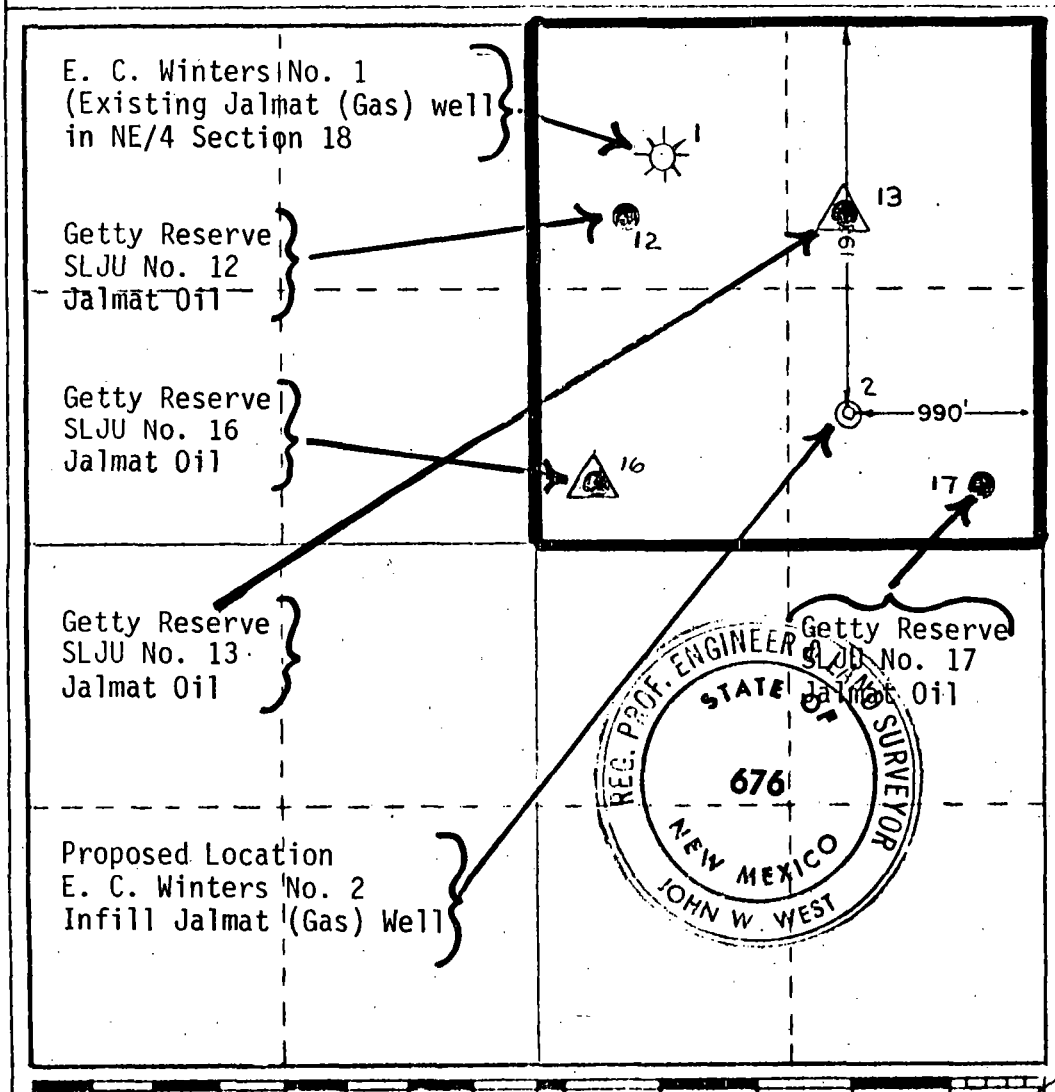

CERTIFICATION

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

Name: Michelle Hembree

Position: Administrative Assistant

Company: Doyle Hartman

Date: July 17, 1980

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: June 26, 1980

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. JOHN W. WEST 676
PATRICK A. ROMERO 6668
Ronald J. Eidson 3239

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

RECEIVED
OCT 19 1981
OIL CONSERVATION DIVISION
SANTA FE

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

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

Operator	Lease	Well No.
Doyle Hartman	E.C. Winters	2

Unit Letter	Section	Township	Range	County
H	18	25 South	37 East	Lea

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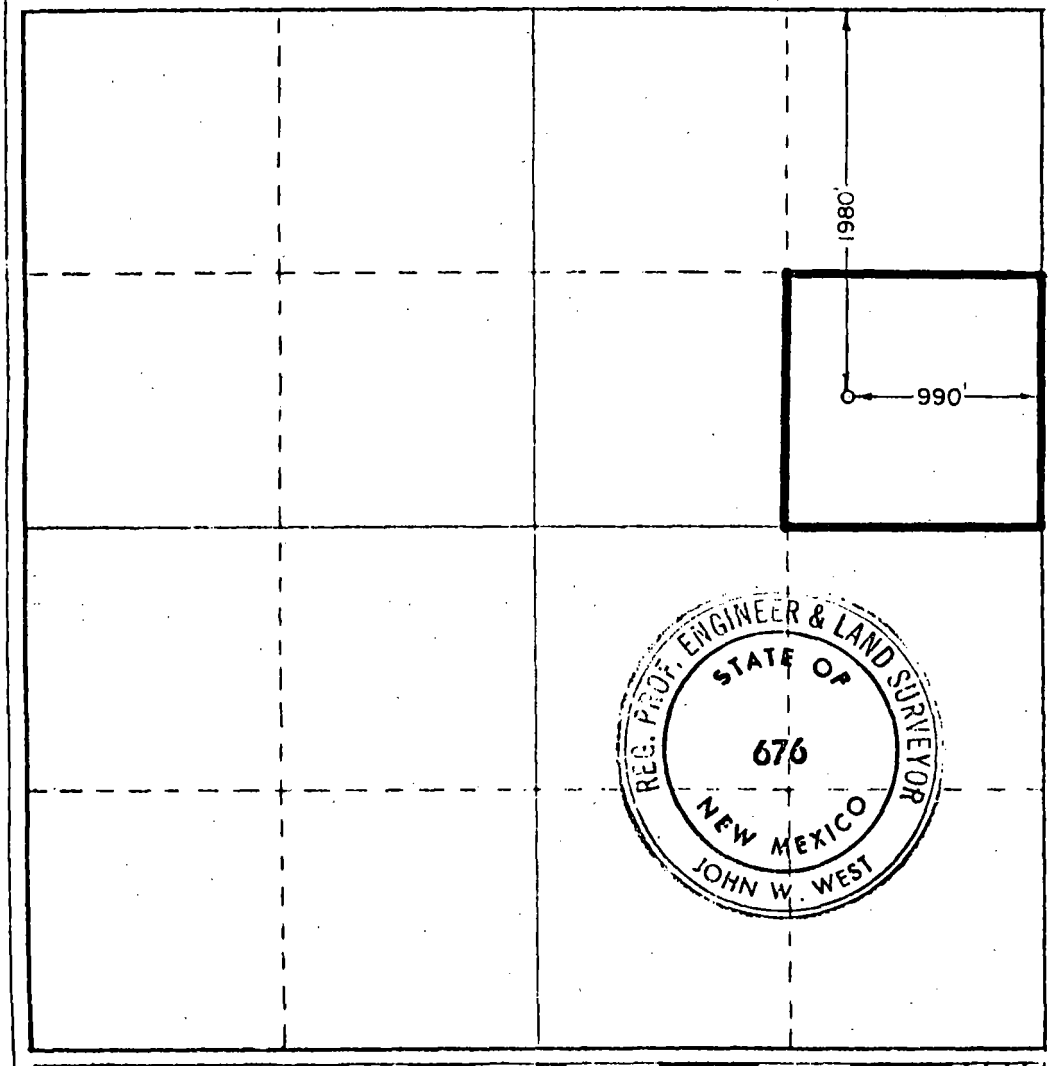

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Larry A. Nermyr

Name: Larry Nermyr

Position: Engineer

Company: Doyle Hartman

Date: September 11, 1980

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SANTA FE

30-025-26948

Form C-101
Revised 14-65

5a. Indicate Type of Lease: STATE [ ] FEE [X]

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

b. Type of Well: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

OIL WELL [ ] GAS WELL [X] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. Unit Agreement Name

8. Farm or Lease Name: E. C. Winters

2. Name of Operator: Doyle Hartman

9. Well No.: 2

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

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

4. Location of Well: UNIT LETTER H LOCATED 1980 FEET FROM THE North LINE AND 990 FEET FROM THE East LINE OF SEC. 18 TWP. 25S RGE. 37E NMPM

12. County: Lea

19. Proposed Depth	19A. Formation	20. Rotary or C.T.
3075	Yates	Rotary

21. Elev. (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor	22. Approx. Date Work will start
3071.0 G.L.	Multi-well Approved	Kenai Drilling Co. of TX	July 28, 1980

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	28	400	300	Surface
7 7/8	5 1/2	17	3175	600	Surface

The proposed well will be drilled to a total depth of 3075 feet and will be completed as a Jalmat (Yates) gas producer. From the base of the surface pipe through the running of production casing, the well will be equipped with a 3000-psi double ram BOP system.

NOTE: (1) Any gas produced from the proposed well has previously been dedicated to El Paso Natural Gas Company

(2) The proposed well will be the second well on the existing proration unit consisting of the NE/4 Section 18, and will share an allowable with the E.C. Winters No. 1.

APPROVAL VALID FOR 90 DAYS UNLESS DRILLING COMMENCED.

EXPIRES 10/21/80

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

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

Signed Michelle Jennings Title Administrative Assistant Date July 17, 1980

(This space for State Use)

APPROVED BY John W. Runyan TITLE _____ DATE JUL 21 1980

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED JUL 23 1980

NEW MEXICO OIL CONSERVATION COMMISSION

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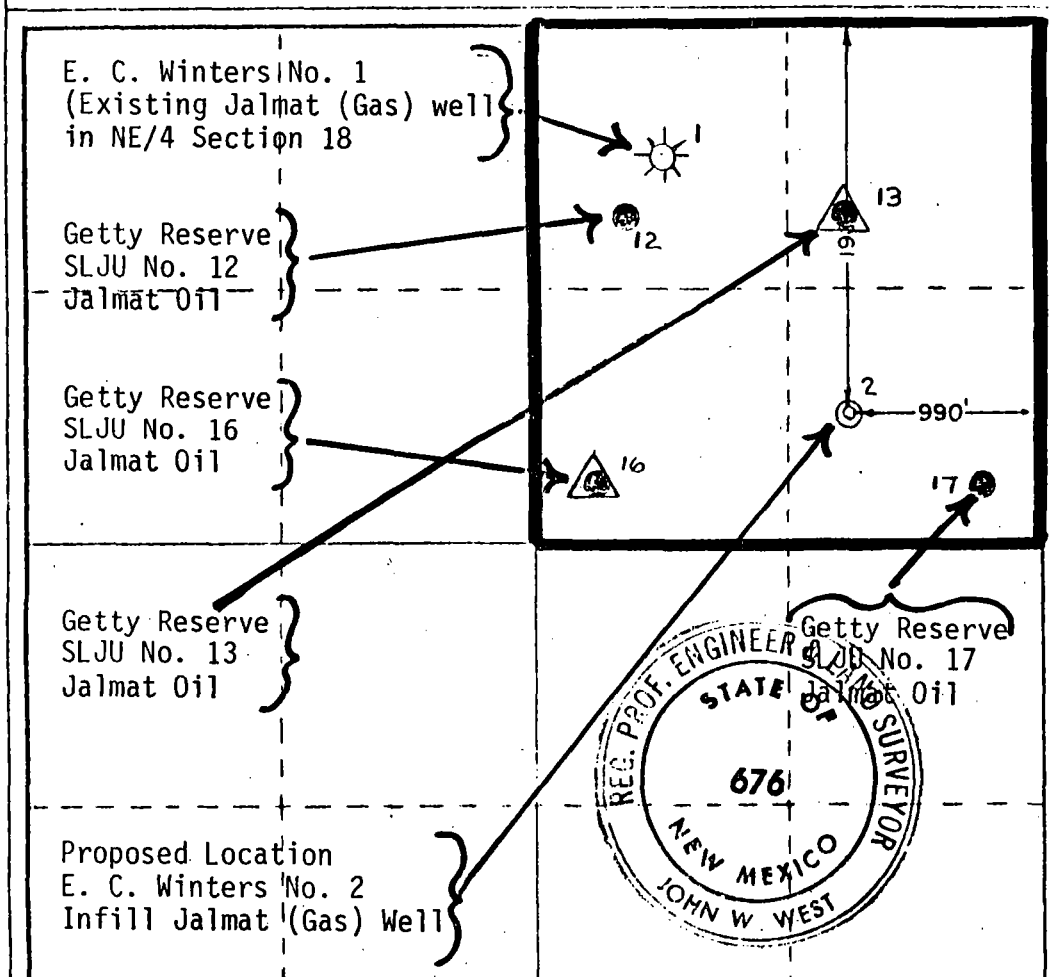

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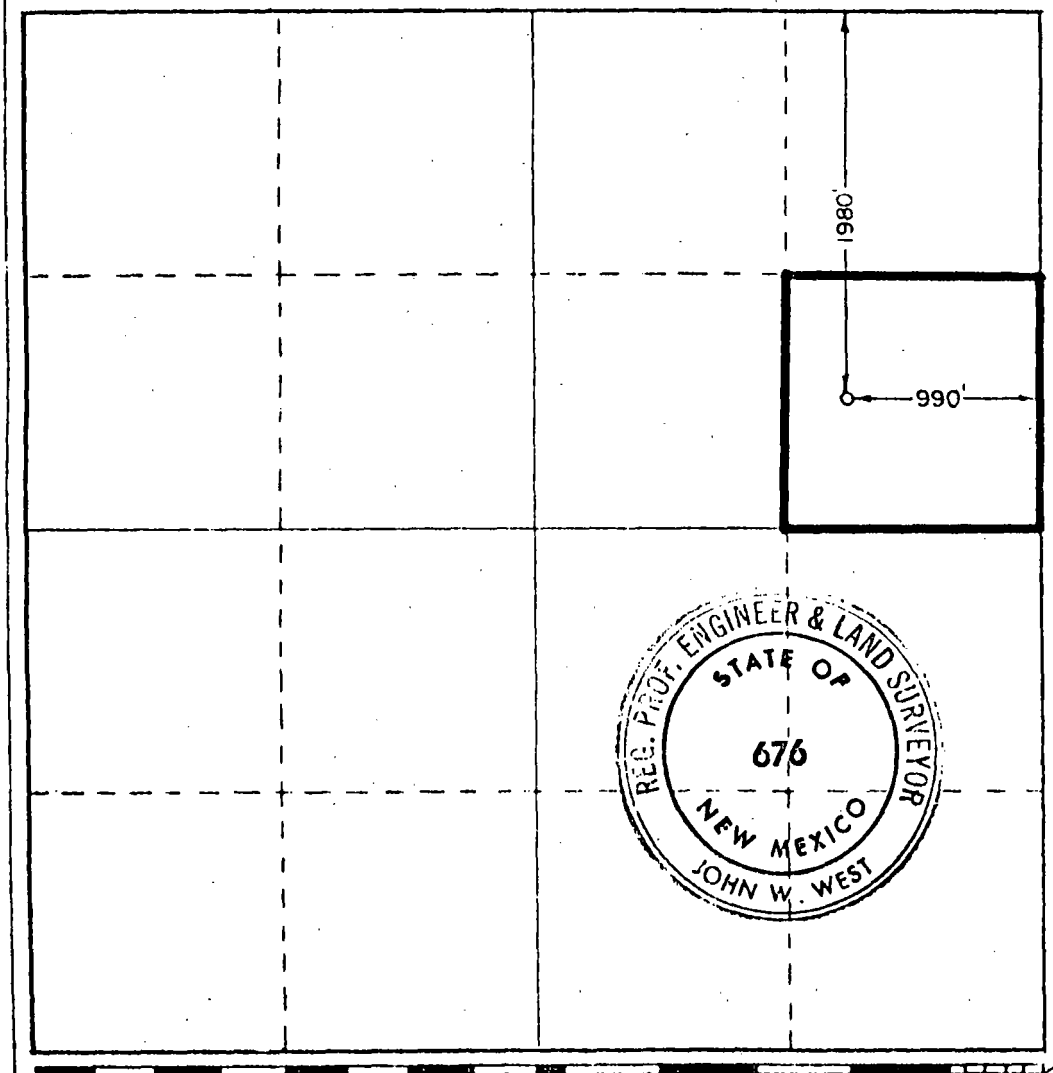

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INTENTIONAL OMISSIONS

The following document(s) have been intentionally omitted from this file due to the indicated reasons.

FILE # NFL 28

DESCRIPTION OF OMITTED DOCUMENTS

OMITTED DOCUMENT	REASON OMITTED
Graph (Journal Internal)	Too Large