Cs 8477

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. Box 2088
Santa Fe, New Mexico 87501

Case 8429

Side 1

APPLICATION FOR CLASSIFICATION AS HARDSHIP GAS WELL

Operator Doyle Hartman Contact Party Michelle Hembree

Address Post Office Box 10426, Midland, Texas 79702 Phone No. (915) 684-4011

Lease Gulf-Greer Well No. 1 UT L Sec. 21 TWP 22-South RGE 36-East

Pool Name Jalmat (Gas) Minimum Rate Requested 120 mcfpd

Transporter Name El Paso Natural Gas Company Purchaser (if different) Northern Natural Gas Co.

Are you seeking emergency "hardship" classification for this well? XXX yes _____ no

Applicant must provide the following information to support his contention that the subject well qualifies as a hardship gas well.

1) Provide a statement of the problem that leads the applicant to believe that "underground waste" will occur if the subject well is shut-in or is curtailed below its ability to produce. (The definition of underground waste is shown on the reverse side of this form)

2) Document that you as applicant have done all you reasonably and economically can do to eliminate or prevent the problem(s) leading to this application.

   a) Well history. Explain fully all attempts made to rectify the problem. If no attempts have been made, explain reasons for failure to do so.

   b) Mechanical condition of the well(provide wellbore sketch). Explain fully mechanical attempts to rectify the problem, including but not limited to:

      i) the use of "smallbore" tubing; ii) other de-watering devices, such as plunger lift, rod pumping units, etc.

3) Present historical data which demonstrates conditions that can lead to waste. Such data should include:

   a) Permanent loss of productivity after shut-in periods (i.e., formation damage).

   b) Frequency of swabbing required after the well is shut-in or curtailed.

   c) Length of time swabbing is required to return well to production after being shut-in.

   d) Actual cost figures showing inability to continue operations without special relief

4) If failure to obtain a hardship gas well classification would result in premature abandonment, calculate the quantity of gas reserves which would be lost

5) Show the minimum sustainable producing rate of the subject well. This rate can be determined by:

   a) Minimum flow or "log off" test; and/or

   b) Documentation of well production history (producing rates and pressures, as well as gas/water ratio, both before and after shut-in periods due to the well dying, and other appropriate production data).

6) Attach a plat and/or map showing the proration unit dedicated to the well and the ownership of all offsetting acreage.

7) Submit any other appropriate data which will support the need for a hardship classification.

8) If the well is in a prorated pool, please show its current under- or over-produced status.

9) Attach a signed statement certifying that all information submitted with this application is true and correct to the best of your knowledge; that one copy of the application has been submitted to the appropriate Division district office (give the name) and that notice of the application has been given to the transporter/purchaser and all offset operators.

backside of [illegible]

GENERAL INFORMATION APPLICABLE TO HARDSHIP GAS WELL CLASSIFICATION

1) Definition of Underground Waste.

"Underground Waste as those words are generally understood in the oil and gas business, and in any event to embrace the inefficient, excessive, or improper use or dissipation of the reservoir energy, including gas energy and water drive, of any pool, and the locating, spacing, drilling, equipping, operating, or producing, of any well or wells in a manner to reduce or tend to reduce the total quantity of crude petroleum oil or natural gas ultimately recovered from any pool, and the use of inefficient underground storage of natural gas."

2) The only acceptable basis for obtaining a "hardship" classification is prevention of waste with the burden of proof solely on the applicant. The applicant must not only prove waste will occur without the "hardship" classification, but also that he has acted in a responsible and prudent manner to minimize or eliminate the problem prior to requesting this special consideration. If the subject well is classified as a "hardship" well, it will be permitted to produce at a specified minimum sustainable rate without being subject to shut-in by the purchaser due to low demand. The Division can rescind approval at any time without notice and require the operator to show cause why the classification should not be permanently rescinded if abuse of this special classification becomes apparent.

3) The minimum rate will be the minimum sustainable rate at which the well will flow. If data from historical production is insufficient to support this rate (in the opinion of the Director), or if an offset operator or purchaser objects to the requested rate, a minimum flow ("log off") test may be required. The operator may, if he desires, conduct the minimum flow test, and submit this information with his application.

4) If a minimum flow test is to be run, either at the operator's option or at the request of the Division, the offset operators, any protesting party, the purchaser and OCD will be notified of the date of the test and given the opportunity to witness, if they so desire.

5) Any interested party may review the data submitted at either the Santa Fe office or the appropriate OCD District Office.

6) The Director can approve uncontested applications administratively if, in his opinion, sufficient justification is furnished. Notice shall be given of intent to approve by attaching such notice to the regular examiner's hearing docket. Within 20 days following the date of such hearing, the affected parties will be permitted to file an objection. If no objection has been filed, the application may be approved.

7) Should a protest be filed in writing, the applicant will be permitted to either withdraw the application, or request it to be set for hearing.

8) An emergency approval, on a temporary bases for a period not to exceed 90 days, may be granted by the District Supervisor, pending filing of formal application and final action of the OCD Director. This temporary approval may be granted only if the District Supervisor is convinced waste will occur without immediate relief. If granted, the District Supervisor will notify the purchaser.

9) After a well receives a "hardship" classification, it will be retained for a period of one year unless rescinded sooner by the Division. The applicant will be required to certify annually that conditions have not changed substantially in order to continue to retain this classification.

10) Nothing here withstanding, the Division may, on its own motion, require any and all operators to show cause why approval(s) should not be rescinded if abuse is suspected or market conditions substantially change in the State of New Mexico.

11) A well classified as a "hardship well" will continue to accumulate over and under production (prorated pools). Should allowables exceed the hardship allowable assigned, the well will be permitted to produce at the higher rate, if capable of doing so, and would be treated as any other non-hardship well. Any cumulative overproduction accrued either before or after being classified "hardship" must, however, be balanced before the well can be allowed to produce at the higher rate.

APPLICATION FOR CLASSIFICATION AS
HARDSHIP GAS WELL
Doyle Hartman-
Gulf-Greer No. 1
SW/4 Section 21
T-22-S, R-36-E
Lea County, New Mexico
Jalmat (Gas) Pool

1. Applicant expects that restriction of gas production from this well below a minimum of 120 mcf per day will result in "underground waste" (as defined by 1) GENERAL INFORMATION APPLICABLE TO HARDSHIP GAS WELL CLASSIFICATION). This expectation is predicated upon the observation that this well has produced water at daily volumes of from 34 bbls/day to 45 bbls/day since December, 1979, when water production from this well was initially observed. Unless sufficient gas is produced so that water flowing into the wellbore is produced (and not allowed to accumulate and eventually flow from the largely water saturated volumes of reservoir rock to the substantially gas saturated volumes of reservoir rock), loss of reserves will probably occur due to both loss of relative permeability to gas and/or loss of absolute permeability to all fluids.

2. A) Water production cannot be eliminated or reduced by remedial completion practices, since the well is completed in the Seven Rivers portion of the Jalmat Pool interval between depths of 3479 feet and 3585 feet. Since no water was initially produced, none of the several Seven Rivers sands in which the well is completed had any indigenous water saturation. Any attempt to determine the source of water within the vertical formation section would require "killing" the well; the damage that this application is seeking to avoid would (or could) likely occur during the attempt to isolate the water bearing section. Even if the source of water were found to be a limited portion of the vertical section, there is a substantial risk that attempts to squeeze cement this section would also result in the reduction or elimination of gas production.

   B) This well has a 57-D rod-pumping unit installed with a 1¼" pump and 54" stroke pumping at 8 strokes per minute. Water is pumped from the tubing, while gas production flows from the casing-tubing annulus. Fluid cannot be effectively pumped from the well unless accompanied by sufficient gas production so that reduction of pump volumetric efficiency does not occur due to "gas locking" of the pump valves.

3. Initial production of this well occurred in May, 1978, but no water production was observed until December, 1979. Since December, 1979, water production has varied between about 35 bbls per day and

approximately 45 bbls per day (except for June, 1981, when water production averaged 67 bbls per day), while the observed water-gas ratio (as illustrated by the attached graph of the logarithm of water-gas ratio as a function of time) has increased irregularly. These facts serve to demonstrate that the water production is relatively invariant, while, as gas production rates decline because of depletion and pipeline proration, the water-gas ratio increases. Examination of the water-gas ratio trend for the period August, 1983 through March, 1984 reveals a water-gas ratio irregularly increasing from about 0.2 bbl/mcf to approximately 0.27 bbl/mcf. The water-gas ratio of 0.27 bbl/mcf occurred in December, 1983, and, during that month, gas production averaged 120 mcfpd; therefore, this experience indicates that restriction of the gas production rate below 120 mcf/d will result in accumulation of water inside the wellbore and, ultimately, in "underground waste". Further, at water production rates of 35 bbls/day and with the current southern Lea County rate of $1.31 per bbl, 16.5 mcf/day must be produced to pay for water hauling and disposal costs alone, without any consideration of other necessary costs of operation.

4. Failure to obtain a hardship well classification could result in loss of substantial gas reserves for this well; this loss can be documented as follows:

Estimated Original Gas-in-Place:
Between 1124 mmcf and 1319 mmcf

Estimated Deliverability Projected Gas Recovery Factor, Fraction of Original Gas in Place:
0.8974

Estimated Ultimate Gas Recovery, mmcf:
Decline curve projection: 1009.0
Deliverability projection: 1003.00

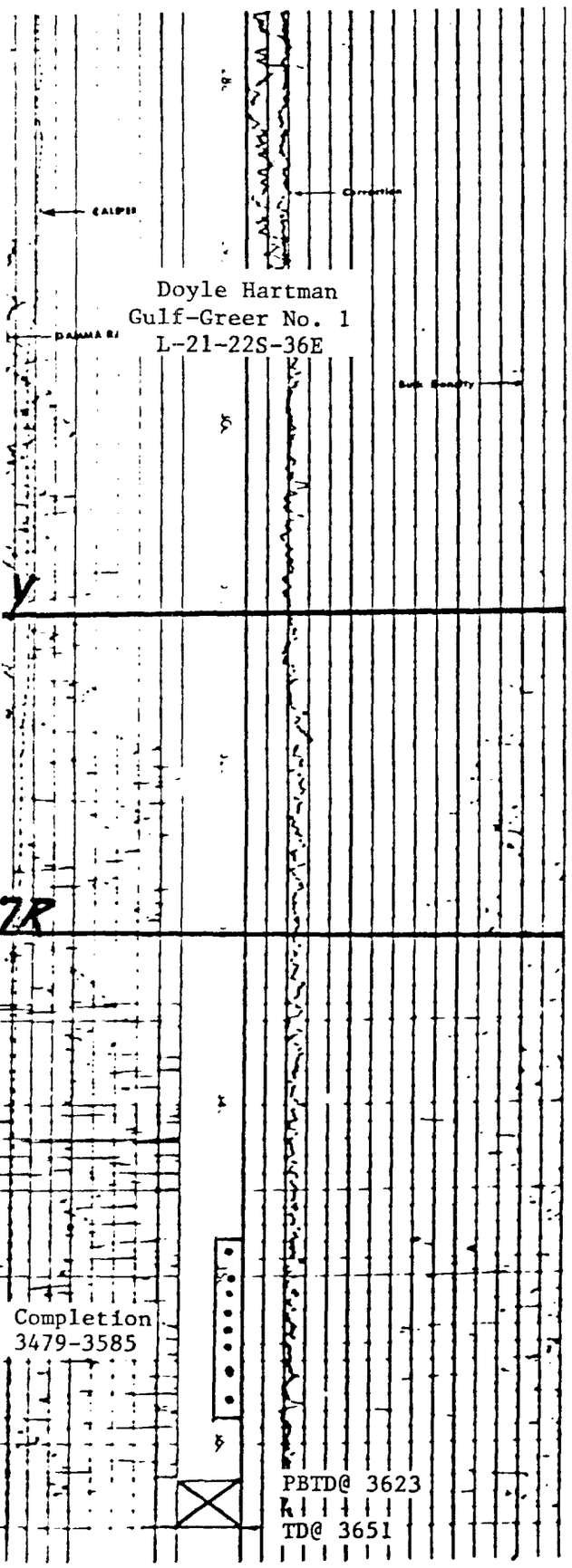
Cumulative Gas Recovery, mmcf at April 1, 1984:
583.914

Estimated Remaining Gas Recovery, mmcf:
Decline curve projection: 425.1
Deliverability projection: 419.1

5. Special daily tests were made for this well during the period April 17-22, 1983 with the following results:

DATE	Produced Volumes GAS,mcf/d	Water,bbl/d	Water-Gas Ratio bbl/mcf	Wellhead Pressure psi
17	28	36	1.29	90
18	72	19	0.26	88
19	94	36	0.38	86
20	134	24	0.18	81
21	143	48	0.34	76
22	175	42	0.24	70

These data substantiate that, in order to prevent the probable occurrence of "underground waste", the Doyle Hartman Gulf-Greer No. 1 must be produced at a minimum rate of 120 mcf per day.

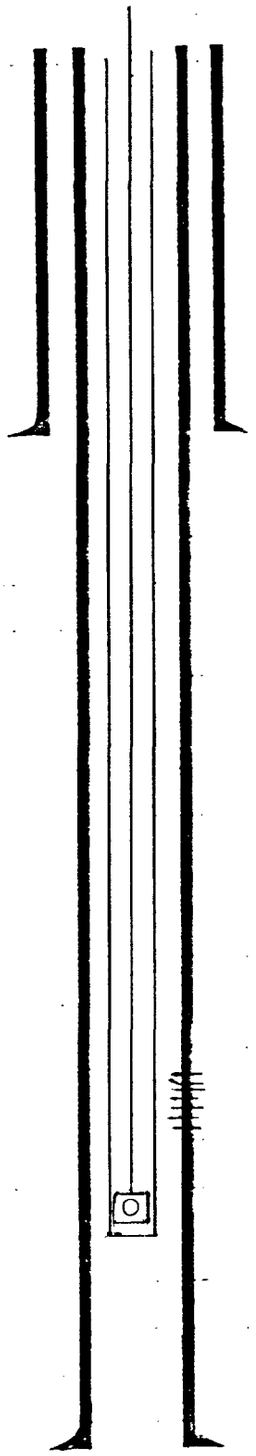


COMPANY	Doyle Hartman
WELL	Gulf-Greer No. 1
FIELD	Jalmat
LOCATION	1980 FSL & 990 FWL (L)
	Section 21, T-22-S, R-36-E
	(22-36-21-L)
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	
DF	
GL	3536

COMPLETION RECORD

SPUD DATE	4-1-78 COMP. DATE 5-20-78
TD	3651 PBTD 3623
CASING RECORD	8 5/8 @ 475 w/325
	4 1/2 @ 3651 w/950
PERFORATING RECORD	Perf: 3479-3585 w/14
STIMULATION	A/8200
	SWF/40,000 + 80,000
IP	IPF = 652 MCFPD + 36 BWPD
GOR	GR
TP	91 CP 91
CHOKE	32/64 TUBING 2 3/8 @ 3594'
REMARKS	Well Test (4-20-83)
	Gas: 234 MCFPD
	Water: 35 BWPD
	Choke: 52/64
	TP: 41
	Current Pump Arrangement
	(10 x 54 x 1-1/4)
	Current Tubing Depth: 3588'

L-21-22S-36E



WELLBORE SKETCH
GULF GREER WELL NO. 1

8-5/8" set at 475'
cement 325 sacks

Perforations: 1 hole each at: 3479, 3483, 3487, 3495, 3499, 3503, 3531, 3535, 3538, 3560, 3563, 3578, 3581, 3585.

2" Insert Pump
2-3/8" EUE Tubing
set at 3588'

4-1/2" set at 365'
cement 950 sacks

DOYLE HARTMAN, OIL OPERATOR — RPT# 000003 — RUN ON 4/17/84

YEAR-TO-DATE PRODUCTION FOR 1978
VOLUMES CALCULATED AT 15.025 PSIA

LEASE# METER# — DATE ON STREAM — NRI %

780401 61963 GULF-GREER #1 — 5/26/78 — .42740900 — OPERATOR - DOYLE HARTMAN

	MCF GAS PRODUCED	BBLS OIL PRODUCED	BBLS H20 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	2910			4.9					2910		541	559	
JUNE	15329			30.0					18239		436	463	
JULY	12207			30.5					30446			80	
AUGUST	11679			31.0					42125			93	
SEPTEMBER	11162			30.0					53287			68	
OCTOBER	9296			31.5					62583			80	
NOVEMBER	13010			30.0					75593			62	
DECEMBER	12112			30.6					87705			71	
YTD 1978	87705			218.5									
ITD	87705			218.5									

DOYLE HARTMAN, OIL OPERATOR — RPT# 000003 — RUN ON 4/17/84

YEAR-TO-DATE PRODUCTION FOR 1979
VOLUMES CALCULATED AT 15.025 PSIA

LEASE#	METER#		DATE ON STREAM	NRI %	
780401	61963	GULF-GREER #1	5/26/78	.42740900	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	11357			31.1					99062			68	
FEBRUARY	7919			28.4					106981			64	
MARCH	12097			31.0					119078			66	
APRIL	12158			29.9					131236			61	
MAY	11780			31.3					143016			60	
JUNE	10722			29.9					153738			61	
JULY	11925			31.0					165663			56	
AUGUST	11121			31.0					176784			58	
SEPTEMBER	10813			30.0					187597			58	
OCTOBER	10941			31.0					198538			61	
NOVEMBER	10824			30.0					209362			54	
DECEMBER	11139		1091.00	31.0					220501			56	
YTD 1979	132796		1091.00	365.6									
ITD	220501		1091.00	584.1									

DOYLE HARTMAN, OIL OPERATOR RPT# 000003 RUN ON 4/17/84
YEAR-TO-DATE PRODUCTION FOR 1980
VOLUMES CALCULATED AT 15.025 PSIA

LEASE# METER# DATE ON STREAM NRI %

780401 61963 GULF-GREER #1 5/26/78 .42740900 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	10773			30.9					231274			53	
FEBRUARY	8940		1184.00	29.0					240214			56	
MARCH	9920		1110.00	31.0					250134			58	
APRIL	9055		1076.00	29.9					259189			57	
MAY	8062		1076.00	26.7					267251			53	
JUNE	9358		1058.00	29.1					276609			55	
JULY	6893		1096.00	31.0					283502			55	
AUGUST	9662		1094.00	31.0					293164			55	
SEPTEMBER	9139		1097.00	30.0					302303			54	
OCTOBER	8849		1130.00	29.7					311152			55	
NOVEMBER	8127		1315.00	29.8					319279			58	
DECEMBER	7934		1255.00	30.9					327213			58	
YTD 1980	106712		12491.00	359.0									
ITD	327213		13582.00	943.1									

DOYLE HARTMAN, OIL OPERATOR — RPT# 000003 — RUN ON 4/17/84

YEAR-TO-DATE PRODUCTION FOR 1981
VOLUMES CALCULATED AT 15.025 PSIA

LEASE#	METER#		DATE ON STREAM	NRI %	
780401	61963	GULF-GREER #1	5/26/78	.42740900	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	9388		1160.00	31.0					336602			59	
FEBRUARY	6880		1311.00	28.0					343482			59	
MARCH	9234		1272.00	31.0					352716			58	
APRIL	8161		1239.00	29.8					360877			57	
MAY	8667		1238.00	27.3					369544			54	
JUNE	5424		2025.00	30.1					374968			50	
JULY	9268		1382.00	31.0					384236			52	
AUGUST	8077		1406.00	31.1					392313			53	
SEPTEMBER	8252		1254.00	30.1					400565			50	
OCTOBER	8149		1184.00	31.0					408714			48	
NOVEMBER	7948		1118.00	30.0					416662			47	
DECEMBER	6645		1376.00	30.6					423307			48	
YTD 1981	96093		15965.00	361.0									
ITD	423307		29547.00	1304.1									

DOYLE HARTMAN, OIL OPERATOR RPT# 000003 RUN ON 4/17/84
YEAR-TO-DATE PRODUCTION FOR 1982
VOLUMES CALCULATED AT 15.025 PSIA

LEASE#	METER#		DATE ON STREAM	NRI %	
780401	61963	GULF-GREER #1	5/26/78	.42740900	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	7537		1218.00	30.5					430843			48	
FEBRUARY	5148		1640.00	22.6					435991			46	
MARCH	8066		1300.00	31.0					444057			48	
APRIL	6153		1116.00	29.5					450210			48	
MAY	6739		1137.00	31.5					456949			47	
JUNE	7449		1067.00	30.4					464398			48	
JULY	6664		1083.00	31.5					471062			45	
AUGUST	7207		1092.00	30.8					478269			46	
SEPTEMBER	7010		1060.00	29.7					485279			46	
OCTOBER	7217		1115.00	31.0					492496			41	
NOVEMBER	6572		1130.00	30.0					499068			43	
DECEMBER	5057		1218.00	30.9					504125			51	
YTD 1982	80819		14176.00	359.4									
ITD	504125		43723.00	1663.5									

DOYLE HARTMAN, OIL OPERATOR RPT# 000003 RUN ON 4/17/84
YEAR-TO-DATE PRODUCTION FOR 1983
VOLUMES CALCULATED AT 15.025 PSIA

LEASE# METER# DATE ON STREAM NRI %

780401 61963 GULF-GREER #1 5/26/78 .42740900 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	6704		1135.00	29.1	39.75	49	.9967	1183	510827			51	
FEBRUARY	5196		1004.00	23.9	41.00	52	.9964	1183	516023			50	
MARCH	6553		1119.00	31.0	40.75		.9953	1192	522576			49	
APRIL	6119		1046.00	30.0	37.50	63	.9943	1192	528695			43	
MAY	6578		1079.00	31.0	38.00	68	.9932	1192	535273			48	
JUNE	5935		1040.00	30.0	39.50	74	.9920	1192	541208			51	1
JULY	5675		1046.00	30.6	40.75	81	.9901	1192	546883			49	
AUGUST	5291		1073.00	31.0	42.50	81	.9905	1192	552174			51	
SEPTEMBER	5096		1069.00	29.9	35.75	75	.9911	1190	557270			47	
OCTOBER	5403		1143.00	30.2	32.25	70	.9918	1190	562673			44	
NOVEMBER	5192		1097.00	29.8	36.75	57	.9953	1190	567865			44	
DECEMBER	3305		890.00	27.6	45.50	44	.9975	1190	571170			72	
YTD 1983	67047		12741.00	354.1									
ITD	571170		56464.00	2017.6									

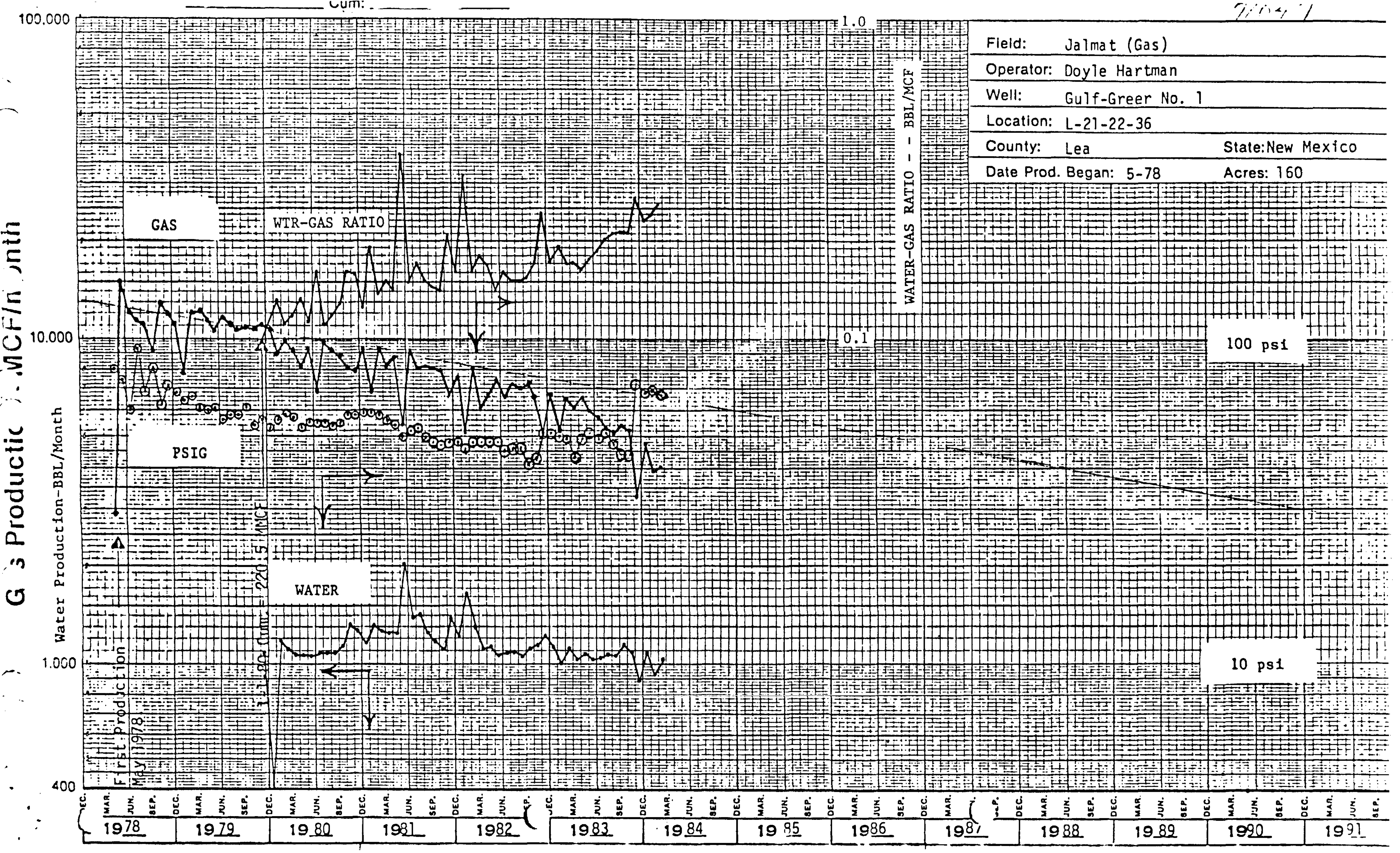
DOYLE HARTMAN, OIL OPERATOR RPT# 000003 RUN ON 4/17/84

YEAR-TO-DATE PRODUCTION FOR 1984

VOLUMES CALCULATED AT 15.025 PSIA

LEASE#	METER#		DATE ON STREAM	NRI %	
780401	61963	GULF-GREER #1	5/26/78	.42740900	OPERATOR - DOYLE HARTMAN

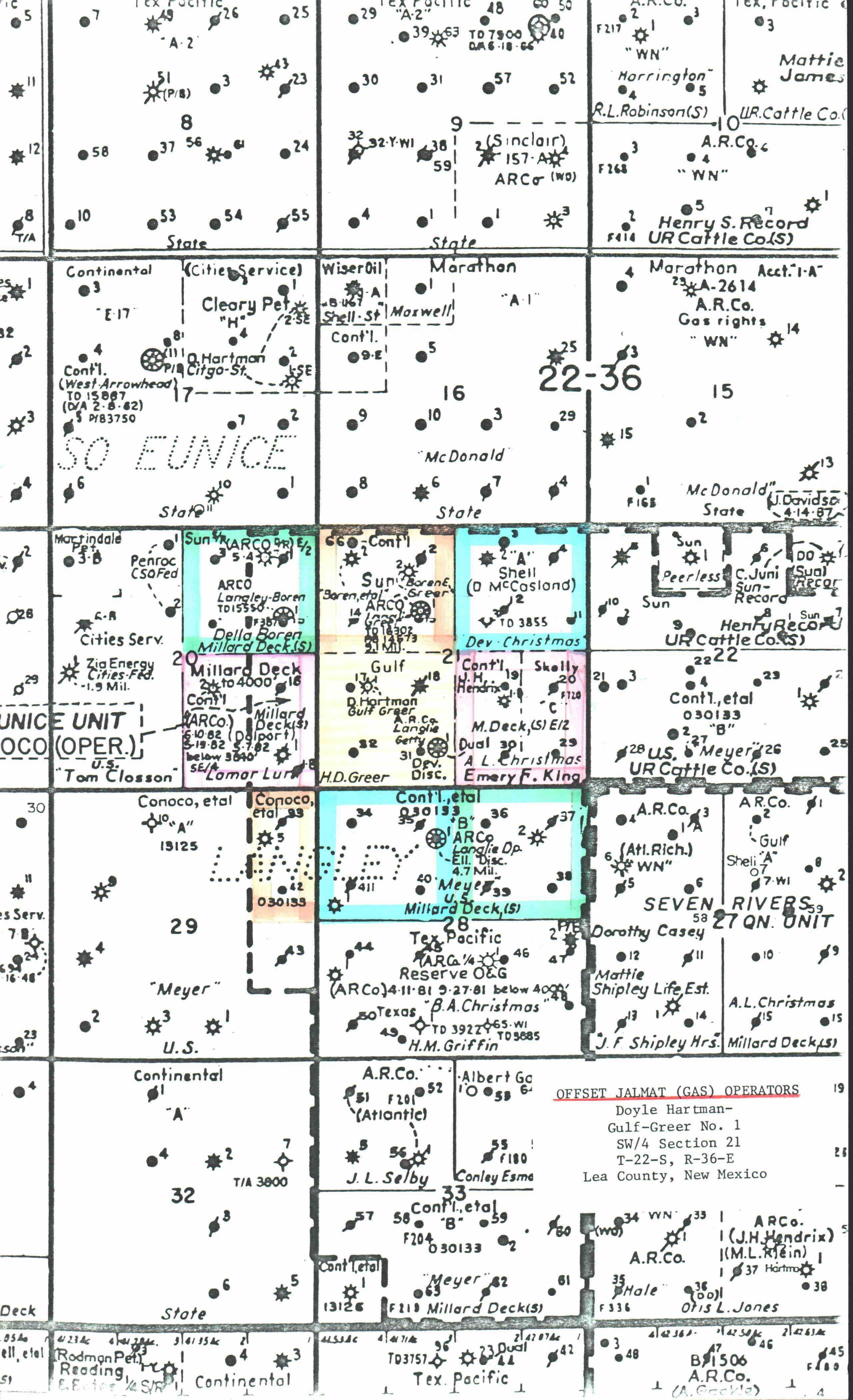
	MCF GAS PRODUCED	BBLS OIL PRODUCED	BBLS H2O PRODUCED	DAYS PRODN	LP PSIG	AVG TEMP	BTU FACTOR	BTU	ITD CUME GAS	ITD CUME OIL	AVG TP	AVG CP	DAYS SHUTIN
JANUARY	4766		1085.00	30.9	43.25	44	.9974	1190	575936			68	
FEBRUARY	3934		933.00	29.0	41.25	49	.9967	1190	579870			69	
MARCH	4044		1038.00	31.0	43.75	55	.9962	1190	583914			67	
APRIL													
MAY													
JUNE													
JULY													
AUGUST													
SEPTEMBER													
OCTOBER													
NOVEMBER													
DECEMBER													
YTD 1984	12744		3056.00	90.9									
ITD	583914		59520.00	2108.5									



Cum:
Field: Jalmat (Gas)
Operator: Doyle Hartman
Well: Gulf-Greer No. 1
Location: L-21-22-36
County: Lea
State: New Mexico
Date Prod. Began: 5-78
Acres: 160
Gas Production MCF/Month
Water Production-BBL/Month
WATER-GAS RATIO - - BBL/MCF
100,000
10,000
1,000
400
1.0
0.1
100 psi
10 psi
GAS
WTR-GAS RATIO
PSIG
WATER
First Production May 1978
1-1-80 Cum = 220.5 MMCF
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991

OFFSET JALMAT (GAS) OPERATORS
Doyle Hartman-
Gulf-Greer No. 1
SW/4 Section 21
T-22-S, R-36-E
Lea County, New Mexico
(160 acres)

OPERATOR	LEASE & WELL NAME(S)	GAS WELL LOCATION(S)	UNIT DESCRIPTION	NUMBER OF ACRES
Sun Exploration & Production Co.	Boren & Greer Lease	No Active Well	E/2 NE/4 Section 20 T-22-S, R-36-E	80
Sun Exploration & Production Co.	Boren & Greer Gas Com No. 2	C-21-22S-36E	NW/4 Section 21 T-22-S, R-36-E	160
Dallas McCasland	Devonian Christmas No. 2	B-21-22S-36E	NE/4 Section 21 T-22-S, R-36-E	160
Dalport Oil Corporation	Annie L. Christmas B No. 1	J-21-22S-36E	SE/4 Section 21 T-22-S, R-36-E	160
Conoco	Myer B-28 Battery 2 Lease	No Active Well	NE/4 Section 28 T-22-S, R-36-E	160
Conoco	Myer B-28 Battery 2 No. 1	E-28-22S-36E	NW/4 Section 28 T-22-S, R-36-E	160
Conoco	Myer A-29 A/C 2 No. 5	A-29-22S-36E	E/2 NE/4 Section 29 T-22-S, R-36-E	80
Conoco	Lamar Lunt No. 2	J-20-22S-36E	SE/4 Section 20 T-22-S, R-36-E	160


OFFSET JALMAT (GAS) OPERATORS
Doyle Hartman-
Gulf-Greer No. 1
SW/4 Section 21
T-22-S, R-36-E
Lea County, New Mexico
22-36
SO EUNICE
EUNICE UNIT
OCO (OPER.)
SEVEN RIVERS QN. UNIT
Tex Pacific
"A-2"
Mattie James
UR Cattle Co.
R.L.Robinson(S)
Horrington
A.R.Co.
"WN"
(Sinclair)
157-A
ARCo (WO)
Henry S. Record
UR Cattle Co.(S)
State
Continental
E-17
(Cities Service)
Cleary Pet.
"H"
D.Hartman
Citgo-St.
Cont'l.
(West Arrowhead)
TD 15887
(D/A 2-8-62)
Wiser Oil
Shell-St
Maxwell
Marathon
"A-1"
Marathon
Acct. 1-A
A-2614
Gas rights
McDonald
McDonald
J.Davidson
4-14-87
Martindale Pet.
Penroc
CSO Fed
Sun
(ARCO Opr) E/2
ARCO
Langley-Boren
TD 15550
Della Boren
Millard Deck (S)
Cities Serv.
Zia Energy
Cities-Fed.
-1.9 Mil.
Cont'l
Sun
Boren, etal
Borene Greer
ARCO
Langley-Greer
TD 16302
2.1 Mil.
Shell
(D McCasland)
TD 3855
Dev. Christmas
Sun
Peerless
C.Juni
Sun-Record
DD Sun
Henry Record
UR Cattle Co.(S)
Millard Deck
2 to 4000'
Cont'l
(ARCo)
6-10-82 (Dalport)
5-19-82 5-7-82
below 3640'
SE/4
Lamar Lunt
Millard Deck(S)
U.S.
"Tom Closson"
Gulf
D.Hartman
Gulf Greer
A.R.Co.
Langlie
Getty
Dev. Disc.
H.D.Greer
Cont'l
J.H.Hendrix
Skelly
M.Deck,(S) E/2
Dual
A.L.Christmas
Emery F. King
Cont'l, etal
030133
"B"
U.S.
Meyer
UR Cattle Co.(S)
Conoco, etal
"A"
13125
Conoco, etal
030133
Cont'l., etal
030133
"B"
ARCo
Langlie Dp.
Ell. Disc.
4.7 Mil.
Meyer
U.S.
Millard Deck,(S)
A.R.Co.
(Atl.Rich.)
"WN"
A.R.Co.
Gulf
Shell "A"
Dorothy Casey
"Meyer"
U.S.
Tex Pacific
ARCo 1/4
Reserve O&G
(ARCo) 4-11-81 9-27-81 below 4000'
"B.A.Christmas"
Texas
TD 3922
TD 3885
H.M.Griffin
Mattie
Shipley Life Est.
J.F. Shipley Hrs.
A.L.Christmas
Millard Deck (S)
Continental
"A"
T/A 3800
State
A.R.Co.
(Atlantic)
J.L.Selby
Albert Gallatin
Conley Esmo
Cont'l., etal
"B"
030133
Meyer
Millard Deck (S)
Cont'l, etal
13126
A.R.Co.
Hale
A.R.Co.
(J.H.Hendrix)
(M.L.Klein)
Hartman
Otis L.Jones
Rodman Pet.
Reading & Bates
Continental
TD 3757
Tex. Pacific
B-1506
A.R.Co.

STATEMENT OF CERTIFICATION
HARDSHIP GAS WELL CLASSIFICATION
Doyle Hartman-
Gulf-Greer No. 1
1980 FSL and 990 FWL (L)
Section 21, T-22-S, R-36-E
Lea County, New Mexico
Jalmat (Gas) Pool

DOYLE HARTMAN, OPERATOR, as required by the State of New Mexico Energy and Minerals Department, Oil Conservation Division, certifies that:

1. All information submitted with this application is true and correct to the best of his knowledge;

2. One copy of this application has been submitted to the Hobbs District I Office of the Oil Conservation Division;

3. Notice of this application has been given to El Paso Natural Gas Company, the transporter and Northern Natural Gas Company, the purchaser; and

4. Notice of this application has been given to all offset Jalmat (Gas) operators.

Michelle Hembree
Michelle Hembree
Administrative Assistant

THE STATE OF TEXAS §
§
COUNTY OF MIDLAND §

BEFORE ME, Notary Public, on this day personally appeared Michelle Hembree, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same for the purposes and consideration therein expressed.

GIVEN under my hand and seal of office this 17th day of MAY, 1984.

Cindy Sue Harrison
Notary Public

My Commission Expires:
CINDY SUE HARRISON
My Commission Expires Aug. 11, 1987

Tabulation of Overage/Underage
Doyle Hartman-
Gulf-Greer No. 1
SW/4 Section 21
T-22-S, R-36-E
Lea County, New Mexico
Jalmat (Gas)

For the period extending from January, 1983 through the March, 1984, the Gulf-Greer No. 1 has not accumulated any overage or underage in relation to the Jalmat (Gas) pool allowable.