DOYLE HARTMAN

Oll Operator
500 N. MAIN
P. O. BOX 10426
MIDLAND, TEXAS 79702

(915) 684-4011

New Mexico Oil Conservation Division District II Office Post Office Drawer DD Artesia, New Mexico 88210 Case 8226

Re: Emergency Hardship Gas
Well Classification
South Empire State Com #1
800 FSL & 1000 FWL (M)
Section 24, T-17-S, R-28-E
Eddy County, New Mexico

Gentlemen:

Please find enclosed one copy of our request before the New Mexico Oil Conservation Division in Santa Fe to administratively classify our South Empire State Com No. 1 well, located 800 FSL & 1000 FWL Section 24, T-17-S, R-28-E, Eddy County, New Mexico as a hardship gas well.

We respectfully request emergency approval of our request for hardship gas well classification on a temporary basis not to exceed 90 days pending final action on our formal application by the OCD Director.

Thank you for your attention to this matter.

Very truly yours,

DOYLE HARTMAN

Michelle Hemberee

Michelle Hembree

Administrative Assistant

/mh

cc: El Paso Natural Gas Company

Post Office Box 1492 El Paso, Texas 79978

Attention: Mr. Paul Burchell

Conservation Engineer

CIL COMBERVATION DIVISION SAME

New Mexico Oil Conservation Division May 21, 1984 Page 2

> El Paso Natural Gas Company Post Office Box 1492 El Paso, Texas 79978

> Attention: Mr. Jim Minnick

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

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Side 1

APPLICATION FOR CLASSIFICATION AS HARDSHIP GAS WELL

Operator	Doy1	le Har	tman				C	ontact	Part	у <u>Мі</u>	chelle	Hembre	e	
Address _	Post	t Offi	ce Bo	x 1042	6, Mid	land,	TX	79702		Phone	No. (9	15) 684	-4011	
Lease	South I	Empire	St.	wem no	o. <u>1</u>	UT	<u>M</u>	Sec.	24	TWP	17S	RGE	28E	
Pool Name	Empi	re Mor	row,	South			Mi	nimum :	Rate	Reques	sted	420 mc	fpd	
Transport	ter Name	E1	Pasc	Natur	al Gas	Co.	Pı	ırchas	er (i	f diff	erent)			
Are you :	seeking	emerge	ncy "	hardsh	ip" cla	ssific	ation	n for	this	well?	XXX	X yes _		_ no
Applicant						formati	on t	o supp	ort	his co	ntenti	on that	the su	ibject

- 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.

٠,

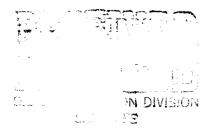
Backside of Form

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."

- 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.
- The minimum rate will be the <u>minimum sustainable rate</u> 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—
South Empire State Com No. 1
S/2 Section 24
T-17-S, R-28-E
Eddy County, New Mexico
Empire Morrow, South Gas Pool

- Applicant expects that restriction of the gas production rate for 1. the South Empire State Com No. 1 below a minimum of 420 mcfpd will result in "underground waste" (as defined by 1) General Information Applicable to Hardship Gas Well Classification). Such expectation is predicated upon the observation that this well produces water and liquid hydrocarbons at rates of from 6 to 9 bbls per day and, when the gas flow rate is restricted below about 480 mcfpd, liguid-gas ratios begin to anomalously increase and the observed wellhead flowing pressure anomalously decreases (rather than increasing as the rate is decreased, as expected); continuation of these trends will lead to the accumulation of sufficient liquids within the wellbore, so that this well will cease to flow (i.e., the well will "die"), ultimately requiring "swabbing" or "jetting to restore flowing. Since the produced water was originally vaporized in the gas, it is "fresh" (i.e., low in dissolved solids). The Morrow formation has proven to be sensitive to the alteration of the rock fabric in some cases from prolonged exposure to this fresh produced water; in addition, allowing significant volumes of liquid to accumulate within the wellbore and immediately adjacent to the wellbore in the formation can result in loss of relative permeability to gas that may result in permanent loss of productivity of liquids and gas.
- 2. A) The problem of liquid accumulation within the wellbore cannot be solved by mechanical means because of the depth (completion interval is 10,481'-10,507' in the Upper Morrow "B-4" sand) and the fact that the well would have to be "killed" in order to install any equipment intended to facilitate removal of accumulated liquid from the well. "Killing" the well would probably result in formation damage that the "hardship well" application is intended to alleviate.
 - B) This well has 5½" casing set at 10,750' and cemented with 2190 sacks of cement. The tubing is 2-7/8" O.D. set at a depth of 10,465' without a packer. Gas and liquid are flowed out of the tubing, and flow velocity is critical in preventing fluid from falling back into the well (because of insufficient turbulence to entrain it, so that it can flow out of the well with the produced gas).

South Empire State Com No. 1 May 21, 1984 Page 2

3. This well was initially produced in December, 1980. The attached production graph includes the logarithm of the liquid-gas ratio in bbls/mmcf plotted as a function of time. The liquid-gas ratio has remained in the range of 9 bbl/mmcf to 13 bbl/mmcf since September, 1982, with the particular exception of the months of September, October, and November, 1983. During these months, the observed well performance can be summarized as follows:

	Pr	oduction		Liquid/
1983 Month	Gas	Liq. H.C.	Water	Gas Ratio
September	12,944	173	16	14.6
October	13,032	176	0	13.5
November	12,606	185	19	16.2

In addition to the noted anomalous increase in liquid-gas ratio during this period, the casing pressure increased as the flow rate was reduced (as expected) while the tubing pressure decreased as the gas rate was reduced, as is anomalous:

1983 Month	Gas Rate mcf/day	Tubing	Casing
August	488	800	1054
September	544	809	1083
October	481	792	1093
November	420	813	1067
December	747	873	1048

These observations of gas flow rate, liquid-gas ratio and casing and tubing pressures all indicate that the well must be allowed to produce a minimum of 420 mcfpd in order that all of the liquids that accompany gas production are removed from the well and are not allowed to accumulate therein.

Additionally, there are demonstrated instances where a Morrow formation producing well was closed in temporarily and, although not producing large volumes of liquids, commercial gas production could not be restored. Such instances of apparently anomalous loss of gas productivity subsequent to shut-in can be demonstrated by the Dinero Operating Company Big Chief No. 3, which is located in Unit J of Section 21, Township 22 South, Range 28 East, Eddy County, New Mexico. Initial production for this well was in May, 1979, and, as shown by the attached production graph, performance was as follows:

Year	Month	Monthly	Cumulative	Monthly	<u>Cumulative</u>
1979	May June July August September October November	50,577 91,679 84,460 78,053 70,894 54,562 61,379	50,577 142,256 226,716 304,769 375,663 430,225 491,604	94 33 73 5 71 46 48	94 127 200 205 276 322 370
	December	58,362	549,966	8	378
1980	January	53 , 301	603,267	4	382
	February	40,418	643 , 685	2	384
	March	45 , 845	689 , 530	2	386
	April	40,064	729 , 594	0	386
	May	36,843	766,437	0	386
	June	34,110	800,547	5	391
	July	5,391	805,938	0	391
	August	1,939	807 , 877	5	396
	September	2 , 255	810,132	3	399
	October	168	810,300	0	399

The above data demonstrate that gas production from this well had apparently stabilized at between 1100 mcfpd and 1200 mcfpd in May and June of 1980; the well was shut-in in July, 1980, and, when attempts were made to restore it to production, no comparable rates were produced for the remaining four months of the well life; this case constitutes documentation of the potential risk associated with shutting-in certain Morrow formation gas wells, (even when they do not produce large volumes of fluid).

4. Failure to obtain a hardship well classification could result in substantial loss of otherwise recoverable gas reserves for the Doyle Hartman-South Empire State Com No. 1. The potential loss can be documented as follows:

Estimated Original Gas-in-Place, mmcf:

Between 1311 and 1420

Estimated Deliverability Projected Gas Recovery Factor, Fraction of Original Gas-in-Place: 0.87268

Estimated Ultimate Gas Recovery, mmcf:

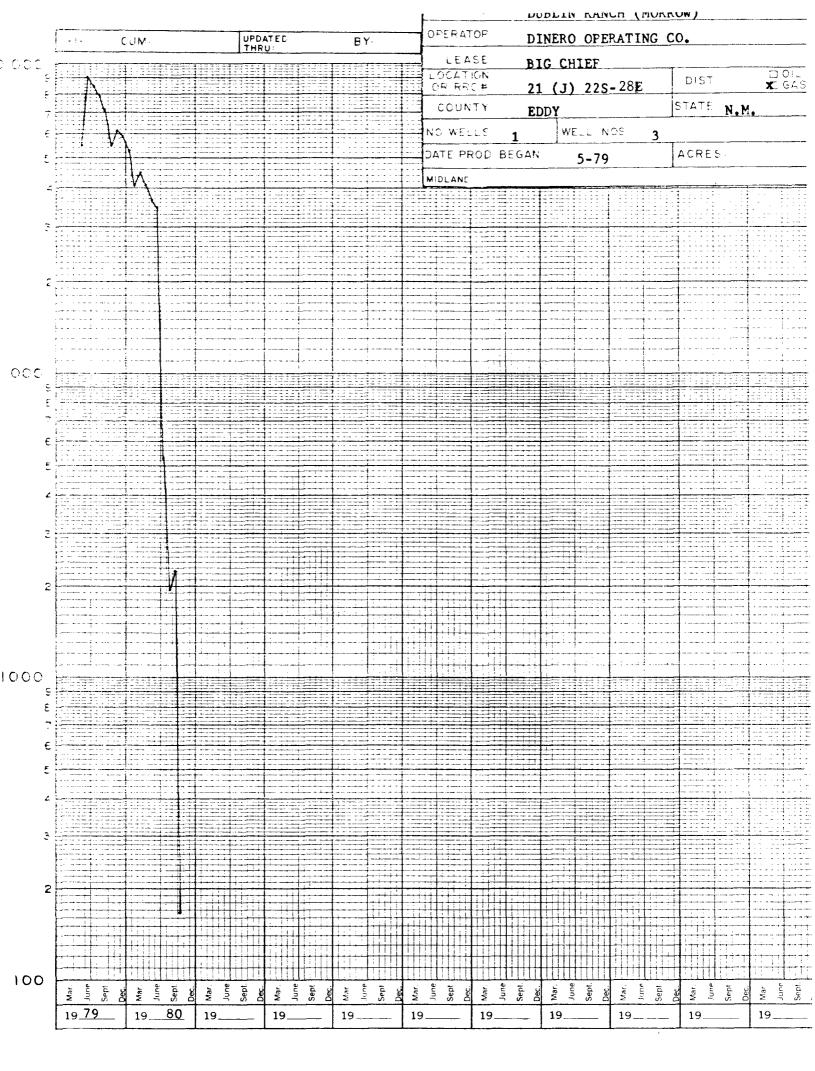
Decline Curve Projection: 1239
Deliverability Projection: 1161

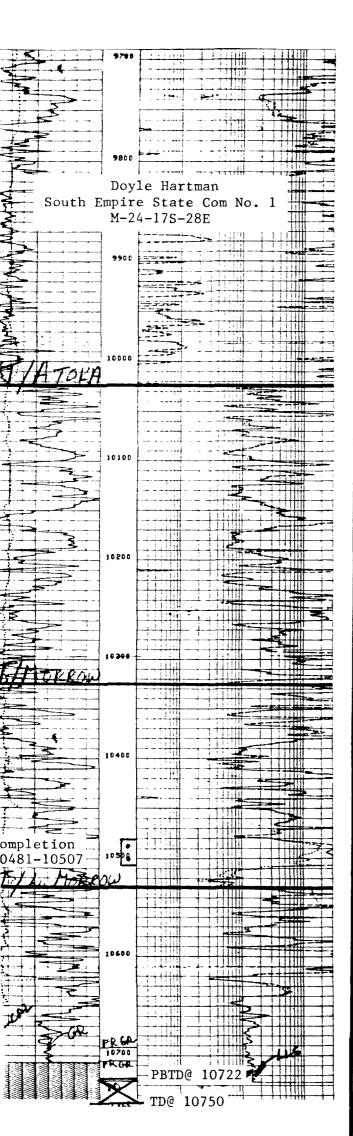
Cumulative Gas Recovery, mmcf at April 1, 1984:

Estimated Remaining Gas Recovery, mmcf at April 1, 1984:

Decline Curve Projection: 249.2 Deliverability Projection: 171.2

5. See 3. above.

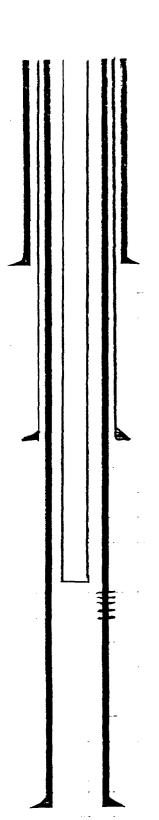




COMPANY	Doyle Hartman	
WELL	South Empire Stat	te Cam. No. 1
FIELD	Empire South Morn	COW
LOCATION	800 FSL & 1000 FV	VL (M)
	Section 24, T-17-	-S, R-28-E
	(17-28-24-M)	
COUNTY _	Eddy	
STATE	New Mexico	
ELEVATION	ζ. μ	з в 3693
)F
	5-21-84	3681

	GL
	COMPLETION RECORD
	0.20.00
SPUD DATE	8-28-80 COMP. DATE 12-15-80
TD	10750 _{PBTD} 10722
CASING RECO	
	8 5/8 @ 2502 w/1750
	5 1/2 @ 10750 w/2190
PERFORATING	
	(Upper Morrow "B-4" Sand)*
-	2/4000 1072
STIMULATION	A/4000 MFA
IP	IPF = 1870 MCFPD
GOR	GR
TP	1740 _{CP} 1870
CHOKE	12/64 TUBING 2 7/8 @ 10465
REMARKS	
	RFT 10487-10504: Performed five
	open hole wireline pressure tests
·	with final buildups ranging from
	4553 to 4989 psi.
	3-31-84 Cum Prod: 989.8 MMCF
	12.5 MBO
	594 BW
	1984 Avg Prod: 553 MCFPD
·	6 BOPD
	*Same Upper Morrow "B-4" Sand that
	is producing in the HAYCO SEDU
	No. 13 located N-30-17-29.
	Current tubing depth. 10433

M-24-175-28E



13 3/8" Set at 504' Cement 500 Sacks

8 5/8" Set at 2,502' Cement 1,750 Sacks

2 7/8" Eve Tubing Set at 10,433'

Perforated Interval: 10,481-10,507

5 1/2" Set at 10,750' Cement 2,190 Sacks

RPT# 000003		
NEE HARTMAN, OIL OPERATOR	(EAR-I)-DAIE PRODUCIION FOR 1931	CLUMES CALCULATED AT 15.025 PSIA
ANY DELYCK	(EAK-T)-	CLUMES

AUN ON 5/21/84

/EAK-T0-0 /CLOMES C	DATE PRODUCIION CALCULATED AT I	F08 1 5-025	931 PSIA							
EASE# ME	CT CR #	The state of the s		· · · · · · · · · · · · · · · · · · ·	STREAM NRI %	AND THE THE PARTY AND ADDRESS OF THE PARTY AND				
3003235	3395\$001	53395_SOUTH_EMPIRE_STATE_COM #1	ATE-COM #1			William (American and a secondary description of the control of th		OPERATOR	1	DOYLE HARTMAN
:	MCF GAS PRODUCES	BBLS OIL PRODUCED	BBLS H2C PRODUCED	DAYS PRCDN	LP AVG BTU BTG SIG SIG STG STG STG STG STG STG STG STG STG ST	ITD CUME	ITO CUME	AVG	AVG	DAYS SHUTIN
JAMUARY	53011	1442.00	16.90	30.8		53011	1442.00	1175	1250	
EBRUANY	79395	1635.00	48.00	27.7	The manufacture of the control of th	132406	3077.00	1610	1660	
IARCH						132466	3077.00			31
APK IL	67406	1343.00	54.00	29.5		199312	4420.00	1550	1600	
, W X X	78133	1032.00	30.00	31 °C	To the Act of the Company of the Com	277945	5452.0C	1093	1142	The state of the s
UNN I	61863	544 • 00	19.00	30.0		331764	5995.00	380	930	
JUL Y	45515	489.00	15.0C	31.1		377279	6485.00	857	106	
, ucus T	37830	388.00	18 • 00	31.0		415109	6873.00	811	856	The second secon
SEP TEMBER	28605	255+00	12.00	29.7		443714	7128.00	608	-989	
)CT OH ER	29367	234.00	00°L7	31.0		473081	7362.00	771	871	
IOVEMBER	20689	207.00	13.00	30•3		493770	7569.00	792	934	A designation of the first of the contract of
ECEMBER	2.3609	168.00	24.00	31 • 1		517379	7737.00	8 60	960	
-1861 01,	- 517379	77.37-+00	251.00	333.6				: :		31
C1	517379	7737.00	251,00	333.2						12
	Approximate the control of the contr			1	THE RESIDENCE OF A COMMONDERS WITH THE WARRENCE OF THE COMMONDERS OF COMMOND CONTROL OF THE CONT	The same of the sa				and a real sequence special definition retires for some and section of

GBYLE HAKIMAN, DIL BRERATOR YEAR-ID-DAIE PRODUCTION FOR 1982 VCLUMES CALCULATED AT 15.025 PSIA

RPI# 000001

30N ON 5/21/84

	Managed in the second of the s	The state of the s				DATE	and the state of t		:			
LEASE# ME	METERA		PAID OUT	82/01/03		STREAM	MRI %					
8.00823	59395 SOUTH	BW118	STATE COM #1			12/31/30	-32334936 -28283015	JEEDRE PAYOUT	82/C1/09	UPERATOR	- DOYLE	HAPIMAN
:	MCF_GAS_PRODICED	Sals_DIL_ PRODUCED	BBLS H2C PRODUCED	DAYS	PSIG	AVG E	BTU FACTOR BTU	I.T.D_CUME GAS	-ITO CUME OIL	AVG TP	AVG DA	SHUTIN
JANUARY	27122	251 • 30	13.00	31.0				544501	7988+30	819	928	reasons the state of the state
FEBRUARY	23777	145.49	12.00	25.6				565278	8134.19	800	005	
* AD OH	21831	212.30	14 • 00	30.6		÷		587109	9346•49	805	916	
APRIL	19147	168-15	13 • 00	30.0		:		606256	8514.64	848	1039	
MAY	15349	153.23	16.00	31.0				622605	3673.87	852	1070	
JUNE	18428	191 • 47	13.00	29.5		:		641033	8865.34	872	1082	
JULY	21713	215.09	00.81	.31 • 0	eran in a manggapan Anggapangan man a sa sa sa sa sa		A CHARLES OF THE CASE OF THE C	-662746	9080•43	859	1053	
AUGUST	18112	180.62	12.00	31 •2				680858	9261.05	817	1039	
SEPTEMMER	17061	187.10	14 • 00	30.08				618669	9448.15	845	1058	
0CT08ER	17480	213.31	16.00	31 •0				7.17359	9561•46	834	1068	
NCVEMBER	13588	148.05	14.00	30.4				731047	9809.51	858	1108	
DECEMBER	15955	137.06	23.00	30.5				747002	9946.57	893	1130	
YTS 1342	229623	2209.57	138.00	351 •€		entropies of the second form to the second form	The state of the s	the or a lower can happy apply a product anomaly was considered on	i i			As has been
011	147602	7946.57	439.00	695.0					William Company of the second	2 2 3 3 4 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4	31	1
												, da, T.

POYLE HARTMAN, UIL CPERATOR Year-to-bate procuction for 1983 Volumes calculated at 15.025 psia

VCLUMES CALCULATED	LCOLAIEU	A 120.020 F	A TOL		The second control of	OATE ON			THE PROPERTY OF MALESTAN AND THE PROPERTY OF T				
LEASE# MET	# 10.7.	THE THE PARTY CANADA CA	PAID OUT	82/01/09	ėC	•	NRI	% F4					
							• 32	2334936-₺	-BEFORE-PAYGUT	-			
800323 53	1395 SOUTH	EMPIRE STATE	TE COM #1			12/31/30	•2	Š		82/c1/09	OPERATUR	(- DOYLE HARTMAN	
	MCF-GAS PRODUCED		-Bats H20 PRODUCED	DAYS PRODM	PSIG	AVG	BT!! FACT OR	BTU	GAS	ITO CUME CIL	AVG TP	AVG DAYS CP SHUTIN	i
JANUARY	15395	171.04	16.00	21.2	604-75	75	1666	6111-	162397	101117•61	966	1206	1
FEBRUARY	15793	164.77	13.00	25.47	681•25	83	0666	1179	778190	10282-33	8 7 4	1179	
MARCH	22215	239 •40	24 • 00	30 €	576.00		0666	1167	300405	10521.73	394	1192	
APS IL	17573	-1.85.98-	16.00	50.6	550*20	78-	0666	1167	R-17978	-15707.76	853	1062	
* *	22277	173.71	21.06	31.0	477.50	7.7	6866.	1167	340255	10986.47	352	1050	
JONE	13342	129,85	00.81	29.7	605.50	43	6866*	1167	853597	11015.32	331	1070	
JULY	16193	162.02	20 • 00	29 •4	554•50	32	- 3866	1167	061698	11177.34	068		
AUGUST	14895	153.25	13.00	30.5	533.75	30	6866	1167	384675	11330.59	800	1054	ļ †
SEP TEMBER	12944	173.19	16.00	23 • 8	561.50	92	2666	1167	897519	11503.78	808	1093	,
CCTOBER	13032	1.75.92	00 • 8 1	27.1	579+00		2666	-1167	910551	11579.70	792	1093	
NOVEMBER	12606	185.07	19.0C	30 • 0	614.75	67	£666*	11 57	923257	11864.77	913	1067	
DECEMBER	16208	142.47	29 • 06	21.7	418.50	7.1	0666*	1175	939465	120C7•24	875	1050	
YTO 1983	192463	2060.67	224.00	330.8	And the second s	The contract was contract to the last and make the second contract to the second contract t		· · · · · · · · · · · · · · · · · · ·		The second secon			
1.10	939465	1.2007.•24	663+061025+8	1025.8		50 to	A COMMAND OF THE COMM					31	

SCYLE HARTMAN, DIL OPERATOR Year-IC-Date Propuction for 1984 Volumes Calculated at 15,025 PSIA

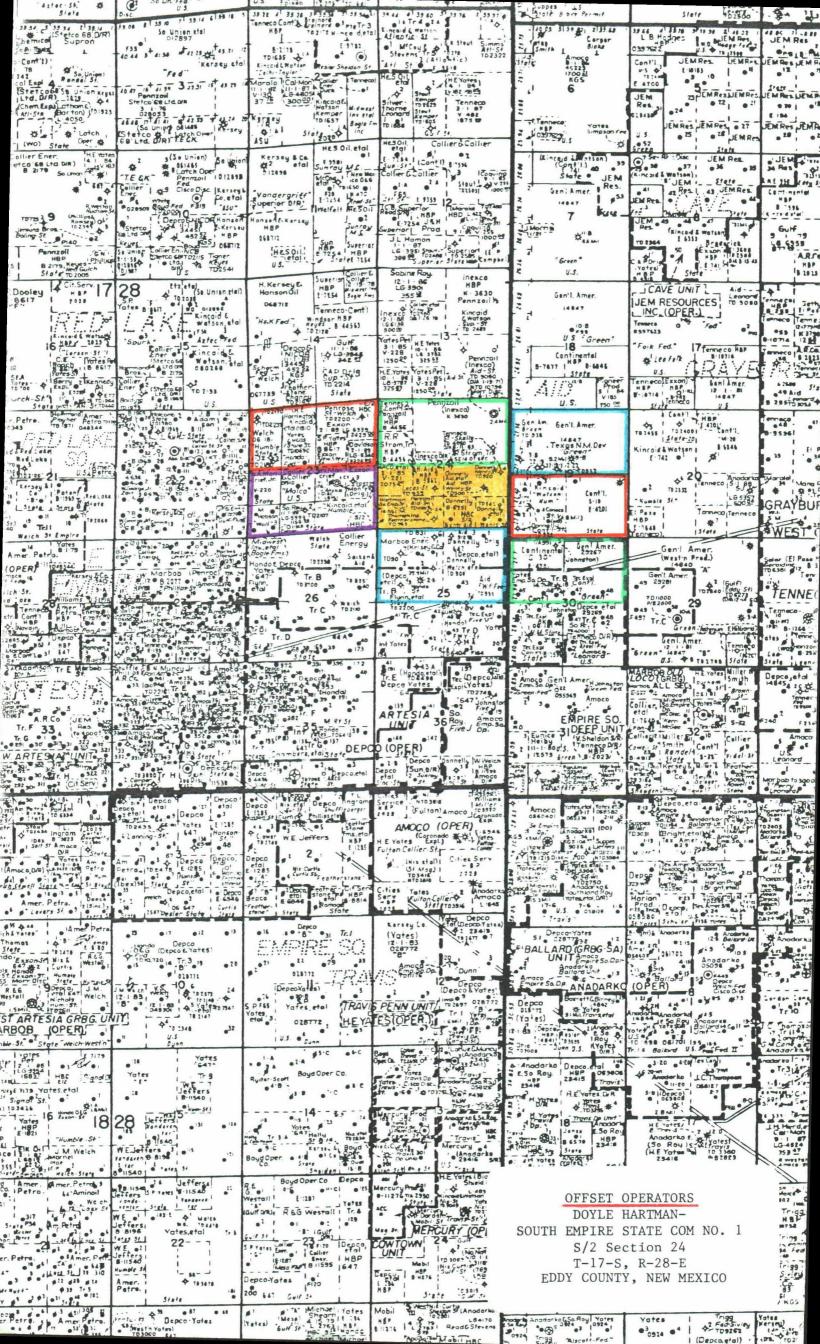
307 0N 5/21/64

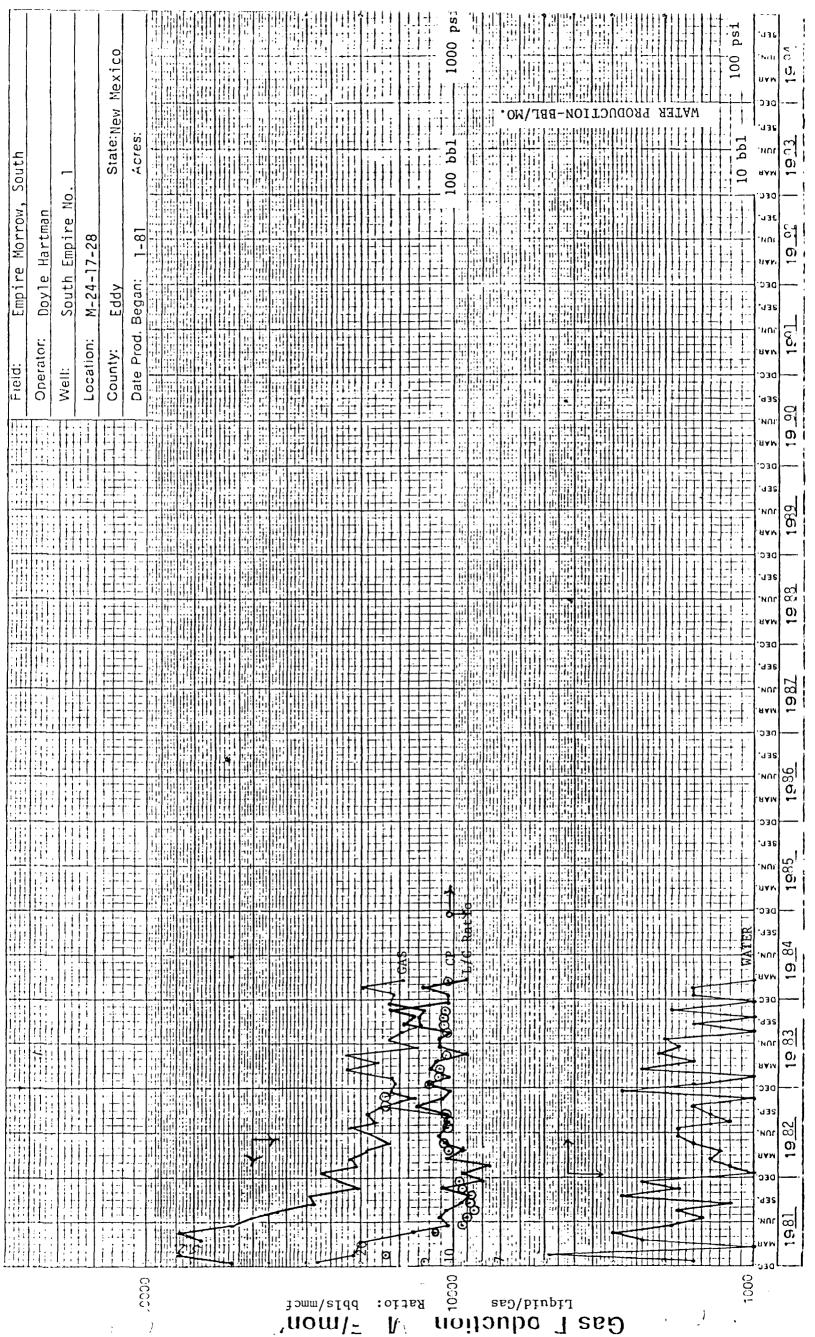
RPT# 000003

٠ (١) ١٠:٠	ロコードコウンコドウ	730. TT 18	x * 0 -			C JESO								
LEASE# R	GTEX#	Company of the second of the s	PAID OUT	82/01/99	i	STREAM	ZAZ	% I2		-				
83063	54395 SOUTH	EMPIPE	STATE COM #1	:		08/18/71	•	32334936 ±	BEFORE_PAYOUT AFTER PAYOUT	82/C1/09	OPERATIOR	- DCYLE	E HARTMAN	•
	MCF_GAS_ PRODUCED	BSLS DIL PRODUCED	BBLS_H2D. PRODUCED?	CAYS PRODM	LP	AVS TEMP	BTU FACTOR	eTu	TID CUME	ITD CUME CIL	AVG	AVG	DAYS SHUTIN	
JANUARY.	15745	145.99	15.00	24.5	549.75	71.	9992.	1175	955211	12154 • 23	.923	1115		
FECPUARY	19313	237.35	16.00	23.0	536.00	12	1666	1175	975024	12391.58	336	1028		
MAPCH	14732	134+33	16.00	31.0	500.75		1666*	11.75	989756	12525.91	777	1049	**************************************	1
APFIL	10291	131.23		30•0	576-75	75	1666	11 71	1000047	12557.14	762	1070	The second secon	
<u>></u> ۲ %														
JUNE		the state and the state of the							The contract of the contract o					
ייייי אחר	American designation of the control) de la maiorita de la compansión de la	The second secon				The second secon		The state of the s	A DECEMBER OF THE PROPERTY OF	The state of the s	:		
AUGUST														
SEPTENBER	X		2						man to describe the control of many to the control of the control	The second secon		:	OF COLUMN TO LABOR THE COLUMN TO THE COLUMN TWO COLUMN TO COLUMN T	!
OCTOBER						:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					:		
NGVEMBER														
DECEMBER		and the contract of the contra		.			to the second se	With a contract of the contrac	TO THE COMMISSION OF THE CASE OF THE COMMISSION			,		
YTC 1934	60581	06*659	96.00	113.2					TO THE PROPERTY OF THE PROPERTY AND ADMINISTRATION OF THE PROPERTY OF THE PROP					
51 I	1000047	-12657-14	729.00	1139.0	:				to a service of the s			*	31	1

OFFSET OPERATORS Doyle Hartman— South Empire State Com No. 1 S/2 Section 24 T-17-S, R-28-E Eddy County, New Mexico

OPERATOR	WELL NAME	WELL LOCATION	P. U. DESCRIPTION
Yates	J. Z. Lucas St. Com No. 1	E-23-17-28	N/2 Section 23 T-17-S, R-28-E
Pennzoil	Aid State No. 1	A-24-17-28	N/2 Section 24 T-17-S, R-28-E
General American	Green No. 9-B	G-19-17-29	N/2 Section 19 T-17-S, R-29-E
Conoco	State Com No. 1-19	N-19-17-29	S/2 Section 19 T-17-S, R-29-E
Yates	Empire South Deep No. 18	F-30-17-29	N/2 Section 30 T-17-S, R-29-E
Hondo	BV State No. 2	F-25-17-28	N/2 Section 25 T-17-S, R-28-E
Unknown	No Known Well		N/2 Section 26 T-17-S, R-28-E
Exxon	CY State No. 1	J-23-17-28	S/2 Section 23 T-17-S, R-28-E





STATEMENT OF CERTIFICATION HARDSHIP GAS WELL CLASSIFICATION Doyle Hartman-South Empire State Com No. 1 S/2 Section 24 T-17-S, R-28-EEddy County, New Mexico Empire Morrow, South 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 Artesia District II Office of the Oil Conservation Division;
- 3. Notice of this application has been given to El Paso Natural Gas Company, the transporter and purchaser; and
- 4. Notice of this application has been given to all offset Empire Morrow, South operators.

Michelle Hembree Hemline Administrative Assistant

THE STATE OF TEXAS S COUNTY OF MIDLAND S

BEFORE ME, Notary Public, on this day personally appeared Michelle Hambree known to me to be the person whose name is subscribed to theforegoing instrument and acknowledged to me that she executed the same

GIVEN under my hand and seal of office this 215^{+} day of

Condy Sue Harrison Notary Public

My Commission Expires:

CINDY SUE HARRISON

Mr. Commission Expires Aug. 11, 1987