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		APPLICATION FOR CLASSIFICATION AS HARDSHIP GAS WELL								
Ope	erator	PENROC OIL CORPORATION Contact Party 5. J. TALLEY								
Add	iress	P.O. DRAWER 831, MIDLAND, TEXA5 79702 Phone No. 915-683-1861								
Lea		MADERA COM Well No. / UT C Sec. // TWP 245 RGE 34E								
Pac	Pool Name ANTELOPE RIDGE MORROW Minimum Rate Requested 200 MCFPD									
Tza	Transporter Name <u>EL PASO NATURAL GAS (O</u> . Purchaser (if different)									
Are	e you	seeking emergency "hardship" classification for this well? yes $X_{}$ no								
λpp wel	licar l qua	t must provide the following information to support his contention that the subject lifies as a hardship gas well.								
1)	wast	vide a statement of the problem that leads the applicant to believe that "underground e" will occur if the subject well is shut-in or is curtailed below its ability to suce. (The definition of underground waste is shown on the reverse side of this a)								
2)	Docu elim	ment that you as applicant have done all you reasonably and economically can do to winate 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.								
	Ъ)	Mechanical condition of the well(provide wellbore sketch). Explain fully mechanical attempts to rectify the problem, including but not limited to:								
		 the use of "smallbore" tubing; ii) other de-watering devices, such as plunger lift, rod pumping units, etc. 								
3)		ent historical data which demonstrates conditions that can lead to waste. Such data ld 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)	lf f aban	ailure to obtain a hardship gas well classification would result in premature donment, calculate the quantity of gas reserves which would be lost								
5)	Show dete	the minimum sustainable producing rate of the subject well. This rate can be rmined by:								
	a)	Minimum flow or "log off" test; and/or								
	Ъ)	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).								
5)	Atta owne	ch a plat and/or map showing the proration unit dedicated to the well and the rship of all offsetting acreage.								
7)	Subm clas	it any other appropriate data which will support the need for a hardship sification.								
9)	If t stat	he well is in a prorated pool, please show its current under- our over-produced us.								
9)	appl appl name	ch a signed statement certifying that all information submitted with this ication is true and correct to the best of your knowledge; that one copy of the ication has been submitted to the appropriate Division district office (give the) and that notice of the application has been given to the transporter/purchaser and offset operators.								

APPLICATION FOR CLASSIFICATION AS HARDSHIP GAS WELL

WELL: Penroc Oil Corporation Madera Comm. No. 1

1. Prolonged shut-in periods for the Madera Comm. No. 1 well have caused considerable down time from a mechanical standpoint and has led to damage of the producing horizon. The water sensitive Morrow Sands have shown an increased inability to respond to production after periods of shut-in. Also available reservoir energy may have been permaturely dissipated to a degree that the ability of the well to unload produced water is impaired even with the aid of a compressor. These factors point out that underground waste will occur if the well continues to be shut-in or is curtailed below its ability to produce.

2.

(a) The Madera Comm. No. 1 well is located 1980' from the West and 660' from the North lines of Section 11, T24S, R34E, Lea County, New Mexico. It is in the Antelope Ridge Morrow Gas Pool. Completion date was 3-15-74 in the Morrow Sands section through a series of perforations 13,524-13,744 feet. Total depth is 14,100'. PBTD is 14,060'. Initial potential was CAOF 1,440 MCFGPD plus 51.77 barrels condensate per day. Shut-in tubing pressure 4259#. Gas connection to El Paso sales line was 6-14-74.

Note: Well was deviated because of lost fish in the hole. TD $\overline{13,580}$ ' Set cement to 13,132' Drilled cement to 13,168' Set Dynadrill at 13,168' 12-8-73. TD 14,100' reached 1-10-74.

The Madera Comm. No. 1 well has always been a high-pressure, low volume well. It is evidenced that production had slowly decreased from an average 8,000 MCF per month production in 1975 to an average of approximately 5,250 MCF per month during 1980. This is almost 6.5 years. Then in late 1980 the well would not produce into the sales line. A compressor was installed and the well produced without incident until those periods of low gas market demand and the well commenced to be shut-in. During the months of June, July, August and September, 1982 the well was shut-in 3, 23, 26 and 13 days respectively. Production was resumed each time simply by opening the well. However, the real problems began to develop in 1983. The well was shut-in 10 days in May but had to be swabbed to return to the sales line. On June 4, 1983 found fluid at 3000 feet. Make 7 runs with swab. Well kicked off.

In September, 1983, well went down because of mechanical malfunction of choke valve. After repair would not flow. Swabbed over a period of three days before could get well to flow. The year 1984 was a bad one. The well died. Swabbed and determined had communication in casing annulus. Pulled tubing. Had hole in the tubing at 10,574 feet. Found scale in lower tubing. Treated well with 1000 gals Gypsol and acidized perforations with 1000 gallons 15% NE acid. This during the month of May. Well would not flow. Alternately shut-in for pressure buildup and open to flow. No success. Swabbed well two days in June. Would not retain sustained flow. Swabbed again on June 25th for one day. Well would make only 35-50 MCFGPD throughout most of July. Eventually unloaded enough water to slowly increase production to an average of 216 MCFGPD in December 1984. For the first time the well suffered a loss in income in the year 1984.

It can be noted that well performance has not been good in 1985 due to a variety of factors. January evidenced only 14 producing days because of sales line freeze-ups attributable to extremely cold temperatures. Average daily production 126 MCFGPD. The Madera produced an average of 205 MCFGPD during February but was shut-in by the purchaser for four days being the 15th through the 18th. Production was recorded for the first 25 days of March being a average of 265 MCFGPD. Well shut-in by purchaser on the 25th through the 25 of April. Were allowed to open the well one day on the 26th but told to shut-in again. Shut-in until May 17th. Allowed to produced through the 24th and shut-in again. Averaged 135 MCFGPD. Opened on the 26th. Produced through the 21st of June. Averaged 164 MCFGPD. El Paso shut-in for annual shut-in tubing pressure test. Could not get well to flow after this. Alternately shut-in for pressure buildup and open but with negative results. Swabbed well three days on the 5th, 6th, and 7th of July. Again went through alternate shut-in and open procedures with no sustained Swabbed two days on August 21 and 22. Determine have flow. leaking seal assembly. Pull tubing, repair seal assembly and go back in hole. Swabbed the 28th and 29th. After shut-in could not get well to flow. Periodically shut-in and open to attempt production. Was not successfull. Have pressure buildup to 2800 lbs. Move in unit for one last attempt to get the well to produce and swabbed on the 25th and 26th of September. Close well in two days. After open have small flow gas. Keep well producing through October slowly increasing to 110 MCFGPD but average 91 MCFGPD for the month. During November averaged 122 MCFGPD but had increased to approximately 160 MCFGPD. Producing an average of 4.64 barrels water per day.

The well experienced a loss in 1985.

(b) The wellbore sketch shows the complete mechanical condition of the Madera Comm. No. 1. It was previously mentioned that this is a sidetracked hole. A permanent packer is located at 13,405; and the tubing has a 15' seal assembly through the packer. This is to allow free travel to compensate for expansion and contraction of the tubing. No other mechanical means have been considered for the reason that the cost of 13,400 feet of smaller diameter tubing is prohibitive considering limited volume of gas produced from a well that has not paid out in $11\frac{1}{2}$ years and that amount of small diameter tubing is risky to run in a deviated hole. And from what can be observed now, there is no assurance that the well can be revived once it goes down.

3.

(a) If the problems encountered and periods of shut-in could have been minimized during the past 2½ years, the well would in all probability be capable of producing 225 MCFGPD. Since the well has been producing without interruption, it averaged 91 MCFGPD in October and 122 MCFGPD in November. It is hopefull production will recover to more than that evidenced in October and November.

As pointed out earlier, a 1000 gallon treatment of Gypsol to clean scale was performed across the perforations on 5-15-84 and a 1000 gallon NE 15% acid treatment was performed on 5-17-84. No real improvement was noted.

(b) It appears swabbing would be required any time the well is shut-in in the future.

(c) Last swab period was 9-25-85 and 9-26-85. On first day swabbed 7 runs with fluid level at 4800 feet. On second day swabbed 3 times with fluid level 9500 feet. On 8-28-85 and 8-29-85 make total of 12 runs with swab with level commencing at 2400 feet from surface. Cost of swabbing was \$1171 in September and \$1795 in late August. Normal monthy operation cost is approximately \$3000.

4. Failure to obtain a hardship gas well classification will result in permature abandonment of this well and a loss of reserves estimated to be at least 1,005,142 MCF of gas.

5. (a) Minimum rate that is practical to sustain the compressor, keep produced water moving, and to allow a reasonable profit is estimated at 200 MCFGPD.

(b) Reference is made to decline curve and Production History sheet.

It has been found when the well could produce in excess of 220 MCFGPD, 8-9 barrels of water per day was produced. During November of 1985 when an average daily gas production rate was 122 MCF, 4.64 barrels water per day was produced.

6. Plat attached.

Only two Morrow wells nearby.

The Texas West Oil and Gas well 1/2 mile north produced 24 MCF in August 1985. Produced only 615 MCF in all of 1984. Cumulative through 1984 1,460,602 MCF.

Shell Western E and P, Inc. No. 6, Antelope Ridge Unit, over 1 mile Northwest, produced 10,776 MCF in August, 1985. Cumulative through August, 1985 was 2,117,427 MCF.

7. None.

8. Non-prorated.

9. Signed Statement enclosed.

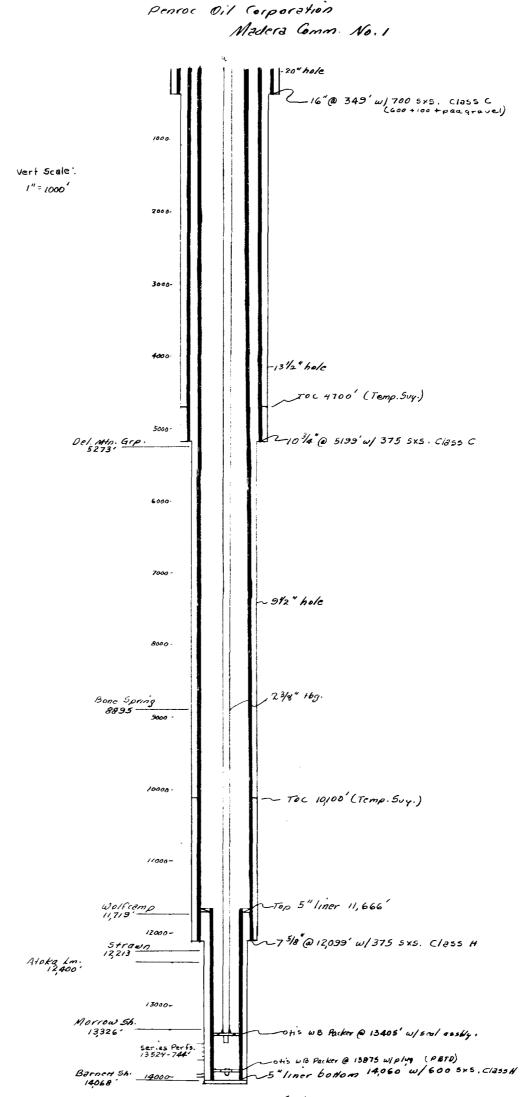
Copies of Application submitted to Hobbs District Office and to El Paso Natural Gas Company.

Letter of Notification, Copy of application and plat of area furnished to offset operators.

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PRODUCTION HISTORY

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Madera Comm. No. 1

Year	Annual (MCF)	Cumulative (MCF)
1974	98,891	
1975	101,017	199,908
1976	86,237	286,145
1977	78,205	364,350
1978	71,535	435,885
1979	67,695	503,580
1980	62,817	566,397
1981	86,508	652,905
1982	69,749	722,654
1983	60,039	782,693
1984	47,941	830,634
1985 (thru Nov.)	24,610	855,244

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MADERA COMM. NO. 1

	1983 Expenses	1984 Expenses	1985 Expenses
JAN	\$ 2,857.00	\$ 2,882.75	\$ 2,912.75
FEB	2,857.00	2,882.75	3,308.37
MAR	3,363.98	2,882.75	2,954.45
APR	3,004.72	11,980.09	2,922.75
MAY	3,136.41	38,179.81	3,050.89
JUNE	3,589.21	3,812.23	2,990.77
JULY	2,383.50	4,571.14	5,553.25
AUG	2,910.53	3,167.17	6,761.72
SEPT	5,509.62	2,912.75	14,497.41
OCT	3,546.22	3,007.23	3,708.60
NOV	2,882.75	2,912.75	2,922.75
DEC	2,382.75	2,912.75	R
	\$39,423.69	\$82,104.17	\$51,584.21*

* ll month total

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MADERA COMM. NO. 1

RESERVE CALCULATIONS

- 4259 psia Initial SITP March 1974 2800 psia SITP prior to swabbing - Sept. 1985 1459 psi Pressure depletion 855,245 MCF Cumulative production through 11-30-85 $\frac{385,245}{1459} = \frac{586.19}{1459}$ MCF/lb. of pressure depletion At 1000 PSI Abandonment Pressure:
- 2800 1000 = 1800 psi remaining usable pressure 1800 x 586.19 = 1,055,142 MCF remaining recoverable reserves.
- At 200 MCF Per Day rate: $\frac{1055142}{200} = 5275 \text{ days or } 14.45 \text{ years to depletion}$

Price paid as of October, 1985: $$2.10 \times 1,055,142 = \frac{$2,215,798}{$22,215,798}$ Gross Value of remaining reserves.

P. O. DRAWER 831 . MIDLAND, TEXAS . 79702

Telephone (915) 683-1861

December 17, 1985

Re: Application for Classification
 as Hardship Gas Well
 Madera Comm. No. 1 Well
 C - Sec. 11, T24S, R34E
 Lea County, New Mexico

Sohio Petroleum Company 10 Desta Drive, Suite 600 W. Midland, Texas 79705

Gentlemen:

According to our records you are an offset operator to the captioned well operated by Penroc Oil Corporation. The proration unit assigned to this well is the North one-half of Section 11 as outlined on the attached plat. The plat shows acreage ownership and wells.

Please be advised that Penroc has filed application with the New Mexico Oil Conservation Division for the Madera Comm. No. 1 well to be granted a Hardship Gas Well Classification. A copy of said application is attached. This would allow the well not to be completely shut-in by the gas purchaser during periods of low gas demand. It has become quite difficult to keep this well producing even with compressor assistance. It has suffered formation damage because of previous shut-in periods.

Date of Hearing is January 9, 1986.

If you have any questions do not hesitate to let us hear from

you.

Very truly yours,

PENROC OIL CORPORATION Γ£.

President

P. O. DRAWER 831 . MIDLAND, TEXAS . 79702

Telephone (915) 683-1861

December 17, 1985

Re: Application for Classification
 as Hardship Gas Well
 Madera Comm. No. 1 Well
 C - Sec. 11, T24S, R34E
 Lea County, New Mexico

Texas West Oil and Gas Corporation One First City Center, Suite 1480 Midland, Texas 79701

Gentlemen:

According to our records you are an offset operator to the captioned well operated by Penroc Oil Corporation. The proration unit assigned to this well is the North one-half of Section 11 as outlined on the attached plat. The plat shows acreage ownership and wells.

Please be advised that Penroc has filed application with the New Mexico Oil Conservation Division for the Madera Comm. No. 1 well to be granted a Hardship Gas Well Classification. A copy of said application is attached. This would allow the well not to be completely shut-in by the gas purchaser during periods of low gas demand. It has become quite difficult to keep this well producing even with compressor assistance. It has suffered formation damage because of previous shut-in periods.

Date of Hearing is January 9, 1986.

If you have any questions do not hesitate to let us hear from

Very truly yours,

PENROC OIL CORPORATION Forting A Dalley Sterling Talley

SJT:msr

you.

Attachments

P. O. DRAWER 831 . MIDLAND, TEXAS . 79702

Telephone (915) 683-1861

December 17, 1985

Re: Application for Classification
 as Hardship Gas Well
 Madera Comm. No. 1 Well
 C - Sec. 11, T24S, R34E
 Lea County, New Mexico

Southland Royalty Company 21 Desta Drive Midland, Texas 79705

Gentlemen:

According to our records you are an offset operator to the captioned well operated by Penroc Oil Corporation. The proration unit assigned to this well is the North one-half of Section 11 as outlined on the attached plat. The plat shows acreage ownership and wells.

Please be advised that Penroc has filed application with the New Mexico Oil Conservation Division for the Madera Comm. No. 1 well to be granted a Hardship Gas Well Classification. A copy of said application is attached. This would allow the well not to be completely shut-in by the gas purchaser during periods of low gas demand. It has become quite difficult to keep this well producing even with compressor assistance. It has suffered formation damage because of previous shut-in periods.

Date of Hearing is January 9, 1986.

If you have any questions do not hesitate to let us hear from

Very truly yours,

PENROG OIL CORPORATION Jolley cerling A. Talley

President

SJT:msr Attachments

you.

P. O. DRAWER 831 · MIDLAND, TEXAS · 79702

Telephone (915) 683-1861

December 17, 1985

Re: Application for Classification
 as Hardship Gas Well
 Madera Comm. No. 1 Well
 C - Sec. 11, T24S, R34E
 Lea County, New Mexico

Shell Western E & P, Inc. P. O. Box 1509 Midland, Texas 79702

Gentlemen:

According to our records you are an offset operator to the captioned well operated by Penroc Oil Corporation. The proration unit assigned to this well is the North one-half of Section 11 as outlined on the attached plat. The plat shows acreage ownership and wells.

Please be advised that Penroc has filed application with the New Mexico Oil Conservation Division for the Madera Comm. No. 1 well to be granted a Hardship Gas Well Classification. A copy of said application is attached. This would allow the well not to be completely shut-in by the gas purchaser during periods of low gas demand. It has become quite difficult to keep this well producing even with compressor assistance. It has suffered formation damage because of previous shut-in periods.

Date of Hearing is January 9, 1986.

If you have any questions do not hesitate to let us hear from

Very truly yours,

PENROC OIL CORPORATION actery Sterling J. Talley

President

you.

SJT:msr Attachments This Attachment is to certify that all the information submitted with this Application for Classification as Hardship Gas Well for the Madera Comm. No. 1 well is true and correct to the best of my knowledge.

It is further certified that one copy of the application has been transmitted to the Division District office of Hobbs and that notice of the application has been furnished to the transporter/purchaser being El Paso Natural Gas Company.

Notice has also been provided to offset operators being Texas West Oil and Gas Company, Sohio Petroleum Company, Southland Royalty Company and Shell Western, E and P, Inc.

President

PENROC OIL CORPORATION