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APPLICATION FOR CLASSIFICATION AS HARDSHIP GAS WELL

- 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 term)
- 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 abar.ionment, 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).
- a) 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.
- B) 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 have) and that notice of the application has been given to the transporter/purchaser and all offset operators.

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

Telephone (915) 683-1861

April 27, 1984

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

Attention Mr. Joe D. Ramey Director

> Re: Angell Ranch No. 1 B-Sec. 33, T19S, R28E Eddy County, New Mexico

Dear Sir:

This is to request that the captioned well be placed in the "Hardship" classification in order that it will not be completely shut-in during a period of low gas demand.

If in fact the subject well is shut-in or curtailed below its ability to produce, "underground waste" will occurr.

The Angell Ranch No. 1 is in the Winchester-Morrow Gas Pool. It was completed 12/15/76 in the Upper Morrow sands through a series of perforations 10,912'-10,956'. Total depth 11,248'. PBTD 10,972'. Initial Potential - CAOF 3,242 MCFGPD plus 24 barrels condensate and 48 barrels water. Shut-in tubing pressure 2662#. Gas connection to El Paso sales line was 1/24/77.

Attachment I is a production decline curve plotted from date of first sales in January, 1977 through Marten, 1984. Included above the curve are annual produced volumes of gas. Well performance was good until approximately the middle of 1979 at which time decline of pressure coupled with water volume caused difficulty in maintaining flow. It became necessary to install a compressor in November, 1979 to keep the well on line.

We were asked to cut back on production in early 1982 and it was found that a decrease in daily volume below the fluid moving capacity afforded by formation pressure and compresser caused the well to load and attempt to die. A daily average volume of 450 MCFPD gas was produced during the months of April through July, 1982. This was down considerably from the 710 MCFGPD produced August, 1981 through February, 1982. PENROC OIL CORPORATION Angell Ranch No. 1 Eddy County, New Mexico Energy and Minerals Department Oil Conservation Division Page 2.

Then the well was shut-in by El Paso 9 days in August, all of September, and 24 days in October, 1982. The well was dead and had to be swabbed two days to produce.

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Production from November 1982 through May, 1982 averaged only 422 MCFGPD. Then in June, 1983 the Angell Ranch loaded and ceased to produce. This time it was swabbed for four days before "Kicking-off".

That period of June, 1983 through March, 1984 shows a daily average gas production of 357 MCF.

Even though soap sticks have been used to help facilitate flow since late 1979 and this action continues on a twice a week basis, it is readily apparent that each time the well goes down a lower plateau of of daily gas volumes are experienced. If shut-downs are allowed even for short durations it will necessitate costly swabbing expense on top of already high operations costs. However, even more important, the observed lower plateaus of production will occurr more severly and the decline curve will plunge downward more rapidly. This simply means that "underground waste" will be a reflection of reserves that can never be recovered.

It is difficult to keep this well producing at its current rate so it is actually at or near its minimum sustainable producing rate which is approximately 350 MCFPD.

From May, 1980 to present date the amount of water to be moved has increased from . barrel/MCF to barrel/MCF.

Attachment II is a Well Bore Sketch of the Angell Ranch well showing casing sizes and setting depths, cement amounts and position of cement as well as tubing, packer, perforations, etc. This illustrates a typical completed well situation for the area. No mechanical attempts have been made to alleviate water other than compressor installation.

The Winchester Morrow Gas Pool is non-prorated.

Attachment III is a plat of the area which shows the proration unit attributed to the Angell Ranch well being outlined in orange color and the well itself circled in orange. Lease ownership and other wells also are indicated.

It is requested that the Angell Ranch well be placed in the "Hardship" classification with a minimum sustainable flow rate of 350 MCF 450 PENROC OIL CORPORATION Angell Ranch No. 1 Eddy County, New Mexico Energy and Minerals Department Oil Conservation Division Page 3.

gas per day. It is beleived that action is warrented based on the facts presented and made quite evident by the well performance shown on the decline curve.

Very truly yours,

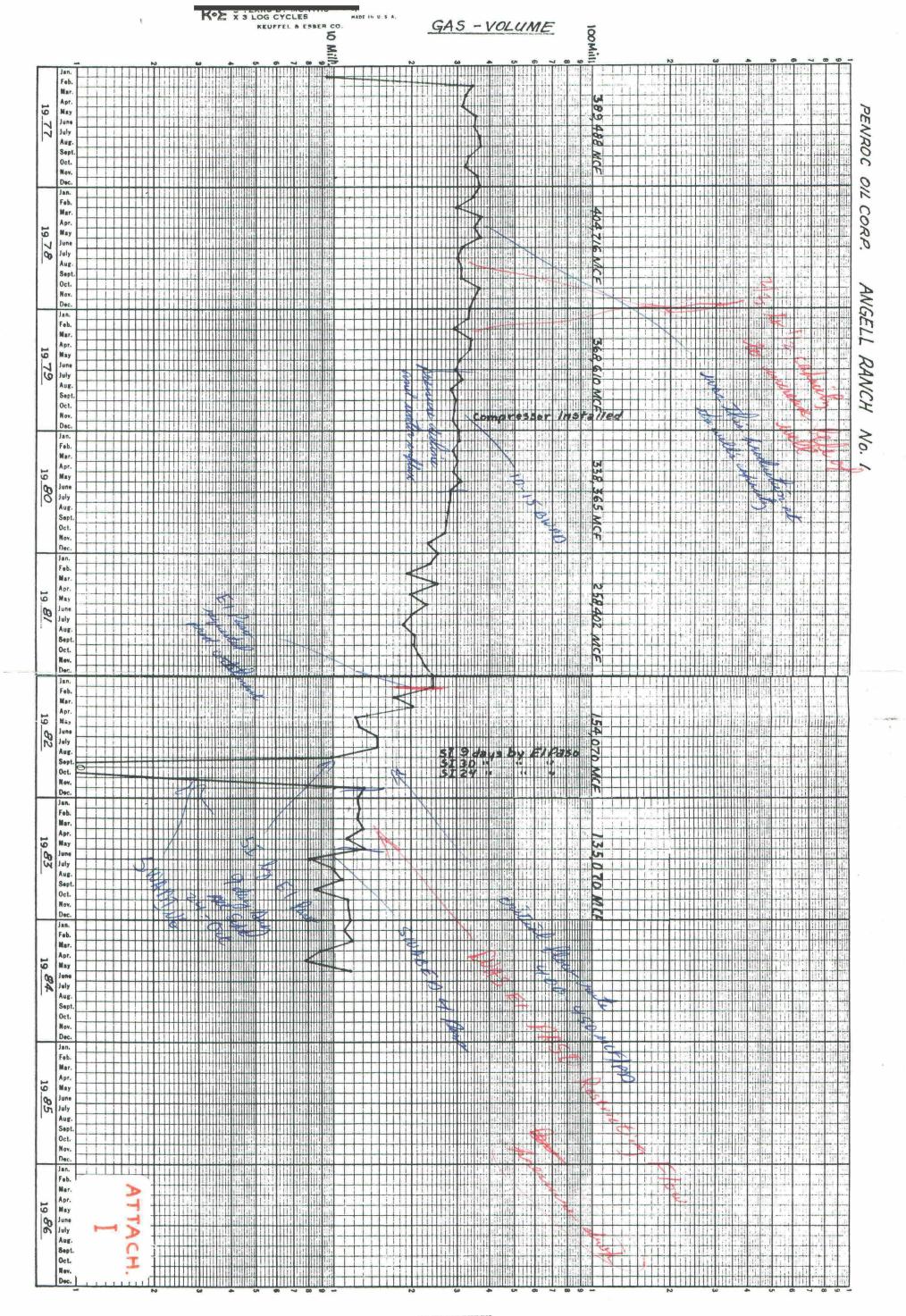
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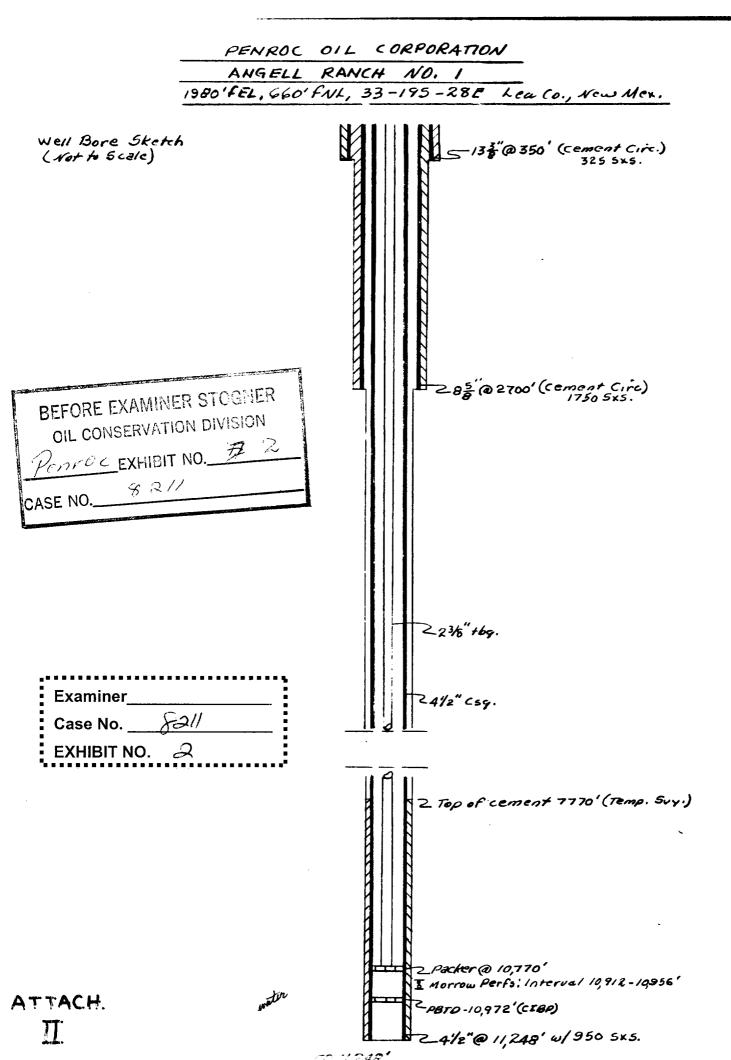
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Attachments



BEFORE EXAMINER STOGNER OIL CONSERVATION DIVISION PENTOC EXHIBIT NO. 1 8211 CASE NO.____



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BEFORE EXAMINER STOGNER
OIL CONSERVATION DIVISION
Penroc EXHIBIT NO. 3
CASE NO. 8211

This Attachment IV is to certify that all the information submitted with this application is true and correct to the best of my knowledge.

It is further certified that one copy of this application has been transmitted to the Artesia Division District office and that notice of the application has been transmitted to the transporter/purchaser which in this case is El Paso Natural Gas Company.

Notice has also been provided to offset operators being Cities Service, Gulf, Dorchester, Southland Royalty and Hondo Drilling.

Talley

/ President PENROC OIL CORPORATION

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Examiner	
Case No. 821/	-

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BEFORE EMAMILER STOLLER	
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P. O. DRAWER 831 . MIDLAND, TEXAS . 79702

Telephone (915) 683-1861

April 27, 1984

Re: Application for Classification as Hardship Gas Well Angell Ranch Well No. 1 B-33-19S-28E Eddy County, New Mexico

Gulf Oil Company P. O. Box 1150 Midland, Texas 79702

Gentlemen:

According to our records you are a diagonal offset operator to the captioned well operated by Penroc Oil Corporation. The proration unit assigned to this well includes the north one-half of Section 33.

Please be advised that Penroc has filed application with the New Mexico Oil Conservation Division for the Angell Ranch well to be placed in the Hardship Gas Well Classification. This would allow the well not to be completely shut-in during periods of low gas demand. It is difficult to keep this well producing normally even with compressor assistance. It has already suffered formation damage because of previous shut-in periods.

If you have any questions let us hear from you.

Very truly yours,

PENROC OIL CORPORATION

Sterling J. Talley

President

Examiner_____ Case No. ______ EXHIBIT NO. _____

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

Telephone (915) 683-1861

April 27, 1984

Re: Application for Classification as Hardship Gas Well Angell Ranch Well No. 1 B-33-19S-28E Eddy County, New Mexico

Cities Service Oil & Gas Corp. P. O. Box 1919 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 includes the north one-half of Section 33.

Please be advised that Penroc has filed application with the New Mexico Oil Conservation Division for the Angell Ranch well to be placed in the Hardship Gas Well Classification. This would allow the well not to be completely shut-in during periods of low gas demand. It is difficult to keep this well producing normally even with compressor assistance. It has already suffered formation damage because of previous shut-in periods.

If you have any questions let us hear from you.

Very truly yours,

PENROC OIL CORPORATION

diley

Sterling J. Talley President

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

Telephone (915) 683-1861

April 27, 1984

Re: Application for Classification as Hardship Gas Well Angell Ranch Well No. 1 B-33-19s-28E Eddy 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 includes the north one-half of Section 33.

Please be advised that Penroc has filed application with the New Mexico Oil Conservation Division for the Angell Ranch well to be placed in the Hardship Gas Well Classification. This would allow the well not to be completely shut-in during periods of low gas demand. It is difficult to keep this well producing normally even with compressor assistance. It has already suffered formation damage because of previous shut-in periods.

If you have any questions let us hear from you.

Very truly yours,

PENROC OIL CORPORATION

Sterling **/**. Talley President

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

Telephone (915) 683-1861

April 27, 1984

Re: Application for Classification as Hardship Gas Well Angell Ranch Well No. 1 B-33-195-28E Eddy County, New Mexico

Dorchester Exploration, Inc. 3300 North A, Building 8, Suite 100 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 includes the north one-half of Section 33.

Please be advised that Penroc has filed application with the New Mexico Oil Conservation Division for the Angell Ranch well to be placed in the Hardship Gas Well Classification. This would allow the well not to be completely shut in during periods of low gas demand. It is difficult to keep this well producing normally even with compressor assistance. It has already suffered formation damage because of previous shut-in periods.

If you have any questions let us hear from you.

Very truly yours,

PENROC OIL CORPORATION Sterling J. Talley

President

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

Telephone (915) 683-1861

April 27, 1984

Re: Application for Classification as Hardship Gas Well Angell Ranch Well No. 1 B-33-195-28E Eddy County, New Mexico

Hondo Drilling Company 410 North Loraine Midland, Texas 70702

Gentlemen:

According to our records you are a diagonal offset operator to the captioned well (perated by Penroc Oil Corporation. The proration unit assigned to this well includes the north one-half of Section 33.

Please be advised that Penroc has filed application with the New Mexico Oil Conservation Division for the Angell Ranch well to be placed in the Hardshi, Gas Well Classification. This would allow the well not to be completely shut-in during periods of low gas demand. It is difficult to keep this well producing normally even with compressor assistance. It has already suffered formation damage because of previous shut-in periods.

If you have iny questions let us hear from you.

Very truly yours,

PENROC OIL CORPORATION

Jalley Starling Sterling J. Talley

President

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<u>P., 19.</u>	EXHIBIT NO	
CASE NO.	5211	