PENROC Oil Corporation

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

Telephone (915) 683-1861

April 27, 1984

RECEIVED BY

APR 3 0 1984

O. C. D.

ARTESIA, OFFICE

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 March, 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.



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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 .38 barrel/MCF to 1.18 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



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Very truly yours,

PENROC OIL CORPORATION

Sterling/D. Talley

President

SJT:msr

Attachments



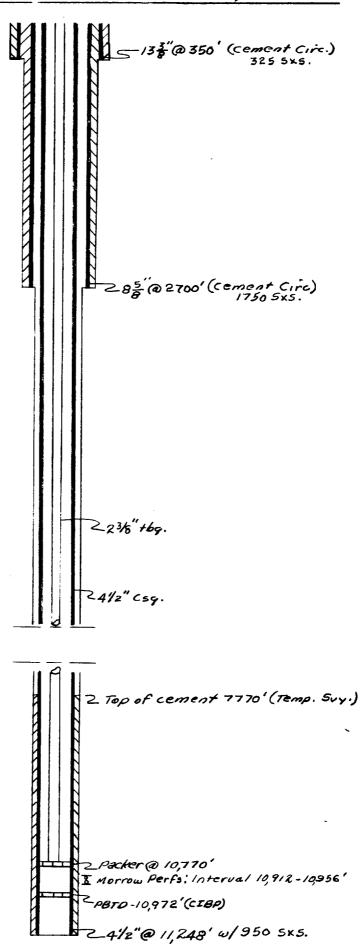
PENROC OIL CORPORATION

ANGELL RANCH NO. 1

TO 11.248'

1980'FEL, 660' FNL, 33-195-28E Lea Co., New Mex.

Well Bore Sketch (Not to Scale)



ATTACH

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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.

Sterling J. Talley

President

PENROC OIL CORPORATION

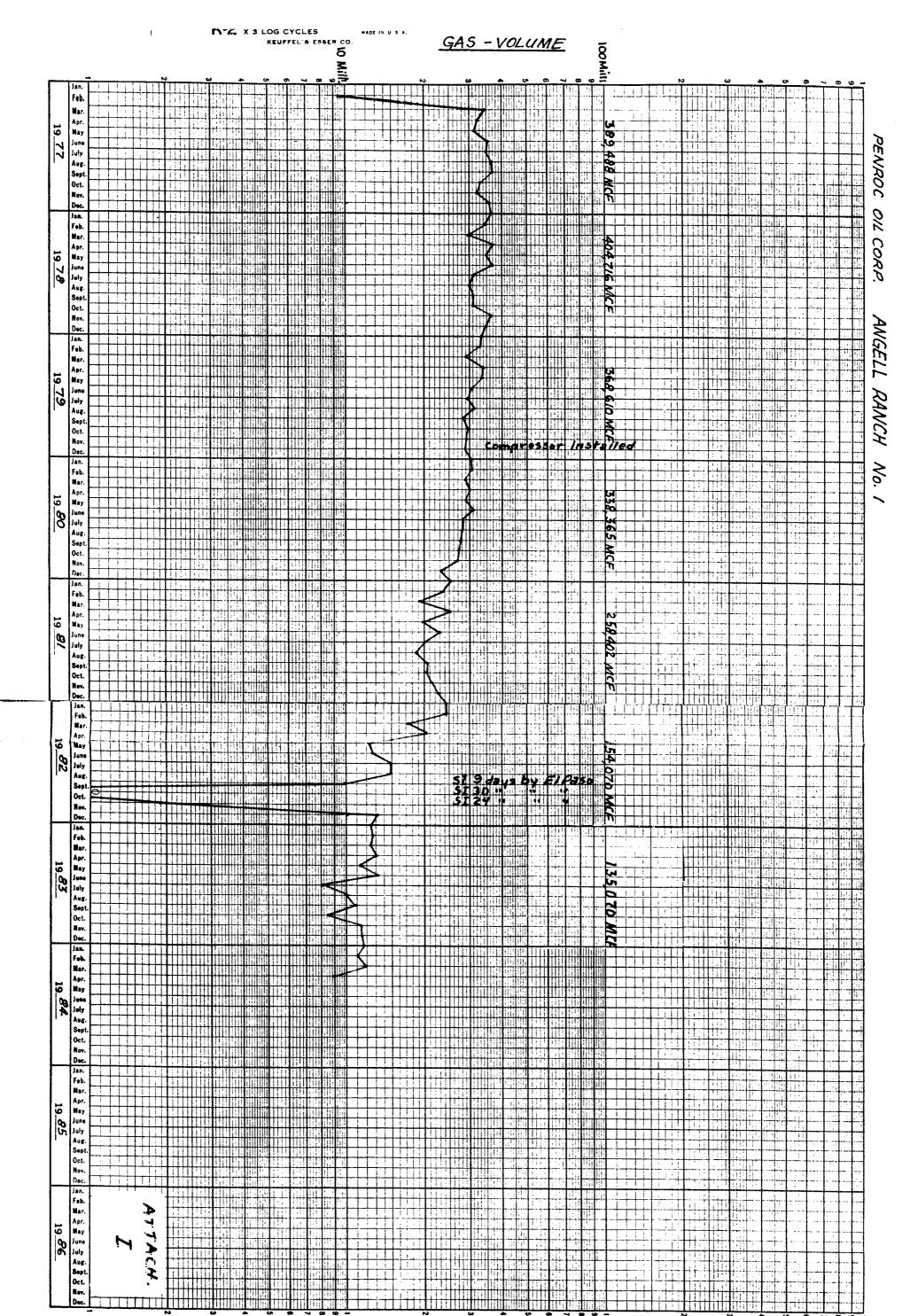
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ARTESIA, OFFICE





STATE OF NEW MEXICO EMERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION
P. O. Box 2088
Santa Fe, New Mexico 87501

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O. C. D.

SECRIAED DI

APPLICATION FOR CLASSIFICATION AS HARDSHIP GAS WELL ARTESIA, OFFICE

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| Operator | PENI | ROC OIL | CORPORA | TION | Conta | ct Par | ty 57 | ERLING | U.T | ALLEY | |
|----------------------|--------------------|------------|-----------------------------|----------------|-----------|---------|--------------|----------|---------|--------------|-----|
| Address | PO DRA | WER 83 | I, MIDLANI | TEXAS | 79702 | | Phone | No. 915- | 683-1 | 861 | • |
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| Pool Ham | e WINCE | HESTER | - MORROL | GAS | Minimu | m Rate | Reques | ted 350 | MCF | GPD | |
| Transpor | ter Name | EL PAS | O NATUR | AL GAS | CO. Purch | naser (| if diff | erent) _ | | | |
| Are you | se ek ing e | mergency | "hardship" | classific | cation fo | or this | well? | ×_ | yes | n | O |
| App.isan well qua | it must pi | rovide the | ne following hip gas wel | informat 1. | ion to s | upport | his co | ntention | that th | ne subj | ect |

- 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 abanionment, 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).
- 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 make) and that notice of the application has been given to the transporter/purchaser and all officet operators.

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Adopted 3-2-84 Side 1

Case 8211

APPLICATION FOR CLASSIFICATION AS HARDSHIP GAS WELL

| Operator _ | PENRO | OIL | CORPORA | TION | Contac | ct Party | STERL | ING J | . TALLE | EY_ |
|------------|------------------|--------|--------------------------|-----------|--------------|--------------|-----------|-------------|---------------------------------------|----------|
| Address 🙎 | O DRAWE | R 831 | MIDLAND | TEXA 5 | 79702 | F | hone No. | 915-62 | 73-1861 | |
| Lease AN | GELL RA | NCH | Well No | /UT | B Sec | c. <u>33</u> | TWP | S | RGE 288 | = |
| Pool Name | WINCHE. | STER- | MORROW | GAS | Minimur | n Rate F | Requested | 350 | MCFGP | 'D |
| Transporte | er Name <i>E</i> | LPASO | NATUR | AL GAS | O.Purcha | aser (if | differe | nt) | · · · · · · · · · · · · · · · · · · · | |
| Are you se | eking eme | rgency | "hardship" | classific | ation for | r this w | rell? | Х уе | :s | . no |
| | | | following ip gas well | | ion to su | pport h | is conter | ition th | at the su | bjec |

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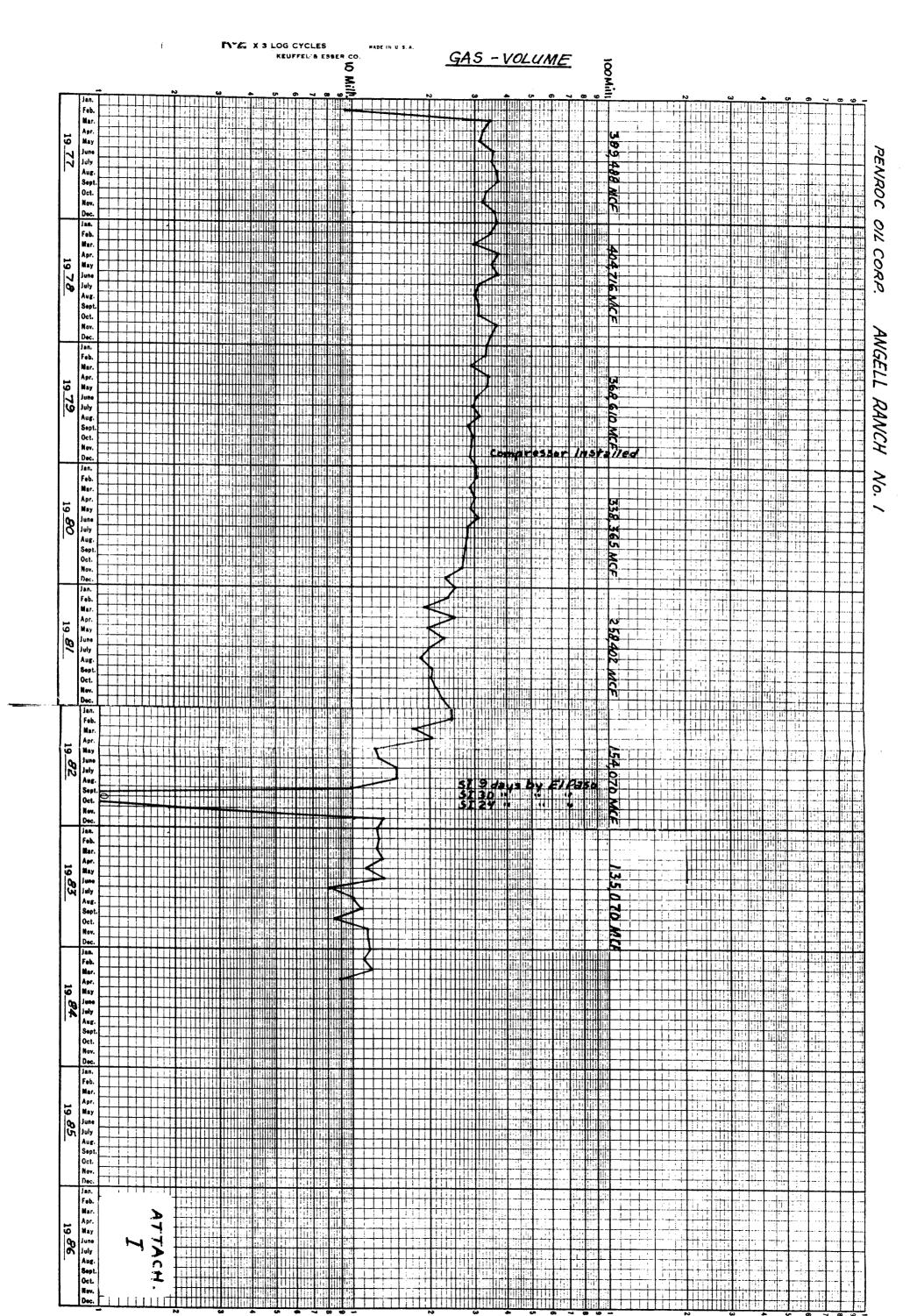
PENROC OIL CORPORATION

terling/f. Talley

President

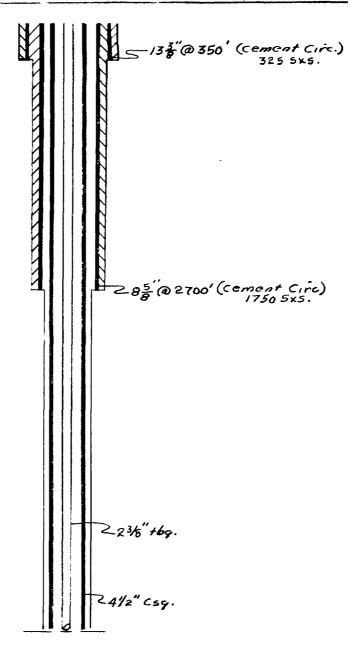
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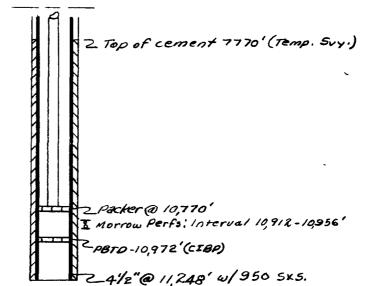
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PENROC OIL CORPORATION ANGELL RANCH NO. 1 1980'FEL, 660' FNL, 33-195-28E Lea Co., New Mex.

Well Bore Sketch (Not to Scale)





ATTACH
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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.

i**x**g J. Talley

President

PENROC OIL CORPORATION