,	STA	TE	OF	NEW	MEX	ICO	
ENER	GY	AND	MI	NERA	LS	DEPAI	RTM

			APPLI	CATION FOR CLASS	IFICATION AS HAR	DSHIP GAS WELL				
	Operator Tenneco Oil Company Contact Party Scott McKinney									
		-		Englewood, CO			· · · · ·			
	Lea	se	Jones	Well No. 5		5 TWP 29N	rge <u>R8</u> W			
ſ	Poo	] N2099.	Basin Dakota		Minimum Ra	te Requested				
	Tra	nspol.	M∶me <u>El Paso</u>	Natural Gas	Purchaser	(if different)				
	λre	you s	eeking <b>emergency</b>	"hardship" class	ification for th	is well? X ·	yes no			
			must provide the ifies as a hards		mation to suppor	ct his contentio	on that the subject			
		waste	" will occur if t ce. (The definit	the problem that the subject well tion of undergrou	is shut-in or is	curtailed below	e that "underground w its ability to e side of this			
	2)	Docum elimi	ent that you as a nate or prevent	applicant have do the problem(s) le	ne all you reaso ading tc this ap	nably and econor plication.	mically can do to			
		a)	Well history. En attempts have bee	xplain fully all en made, explain	attempts made to reasons for fail	rectify the prouve to do so.	oblem. If no			
				tion of the well( ots to rectify th						
				smallbore" tubing mping units, etc.		atering devices	, such as plunger			
	·		nt historical da d include: —	ta which demonstr	ates conditions	that can lead to	o waste. Such data			
		a)	Permanent loss o	f productivity af	ter shut-in peri	ods (i.e., form	ation damage).			
	•	b)	Frequency of swal	bbing required af	ter the well is	shut-in or curt	ailed.			
		c)	Length of time so shut-in.	wabbing is requir	ed to return wel	l to production	after being			
		d)	Actual cost figu	res showing inabi	lity to continue	operations wit	hout special relief			
,	4)	If fa aband	ilure to obtain a onment, calculat	a hardship gas we e the quantity of	ll classificatio gas reserves wh	n would result i ich would be lo	in premature st			
	5)	Show deter	the minimum sust mined by:	ainable producing	rate of the sub	ject well. This	s rate can be			
		a)	Minimum flow or	"log off" test; a	ind/or					
و			gas/water ratio,	well production both before and e production date	after shut-in pe	ng rates and provide the second s	essures, as well as e well dying, and			
	6)		th a plat and/or ship of all offs	map showing the p etting acreage.	proration unit de	dicated to the	well and the			
	7)	Submi class	t any other appr ification.	opriate data whic	ch will support t	he need for a h	ardship			
	8)	If the well is in a prorated pool, please show its current under- or over-produced status.								
	{ <del>k</del>	appli appli name)	cation is true a cation has been	ment certifying t nd correct to the submitted to the of the applicati	e best of your kn appropriate Divi	owledge; that o	ne copy of the			
			filled operatory.							

1) Definition of Underground Waste.

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"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."

Side 2

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- 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 escind 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 <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 <u>intent to approve</u> 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 basis 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.
  - 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.

## Tenneco Oil Exploration and Production

A Tenneco Company

Western Rocky Mountain Division

Florene Set for hearing

6162 South Willow Drive

Englewood, Colorado 80155

P.O. Box 3249

(303) 740-4800



FNNF(

June 20, 1984

IL COMOSPIYATION DIVISION

CANTA CT

New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501

Case 8283

RE: Hardship Status - Jones #5 Section 35, T29N, R8W San Juan County, New Mexico

Gentlemen:

Tenneco Oil requests that the referenced well be classified as a hardship gas well. Underground waste will occur due to shut-in because of a build up of liquids in the wellbore requiring the well to be swabbed to return it to production. The build up of liquids in the wellbore also causes the water saturation of the pay zones near the wellbore to increase, there by lowering the relative permeability to gas. This low relative permeability, whether permanent or temporary, will restrict the flow of gas.

This well currently has no dewatering devices installed since the well will not log off as long as it is producing. However, when the well is shut in for a period of time it has to be swabbed to return it to production. The use of other dewatering devices has been considered but rejected. These are:

- (1) Plunger lift due to shut-in bottom hole pressure being very close to the line pressure.
- (2) Undersize tubing the minimum flow rates necessary to unload the produced water, as calculated by the methods proposed by Turner are listed below:

2-3/8" (1.995" ID) - 697 MCFD 1-1/4" (1.380" ID) - 333 MCFD 1" (1.049" ID) - 193 MCFD

Since the well has a deliverability of approximately 155 MCFD none of the above tubing sizes would enable the well to unload its produced water. It would not be advisable to use smaller tubing than 1" at these depths.

Normal swab time is usually one to two days, at a cost of approximately \$1,500.00. If Tenneco abandoned this well due to failure to obtain hardship gas well classification, the quantity of gas reserves which would be lost would be 325 MMCF. This well is in a prorated pool which is currently not classified due to being a marginal well. Hardship Status - Jones #5 Page 2 June 20, 1984

If you have any questions concerning the application for hardship gas well status, please contact Mark Owen, Production Engineer at 303/740-4840.

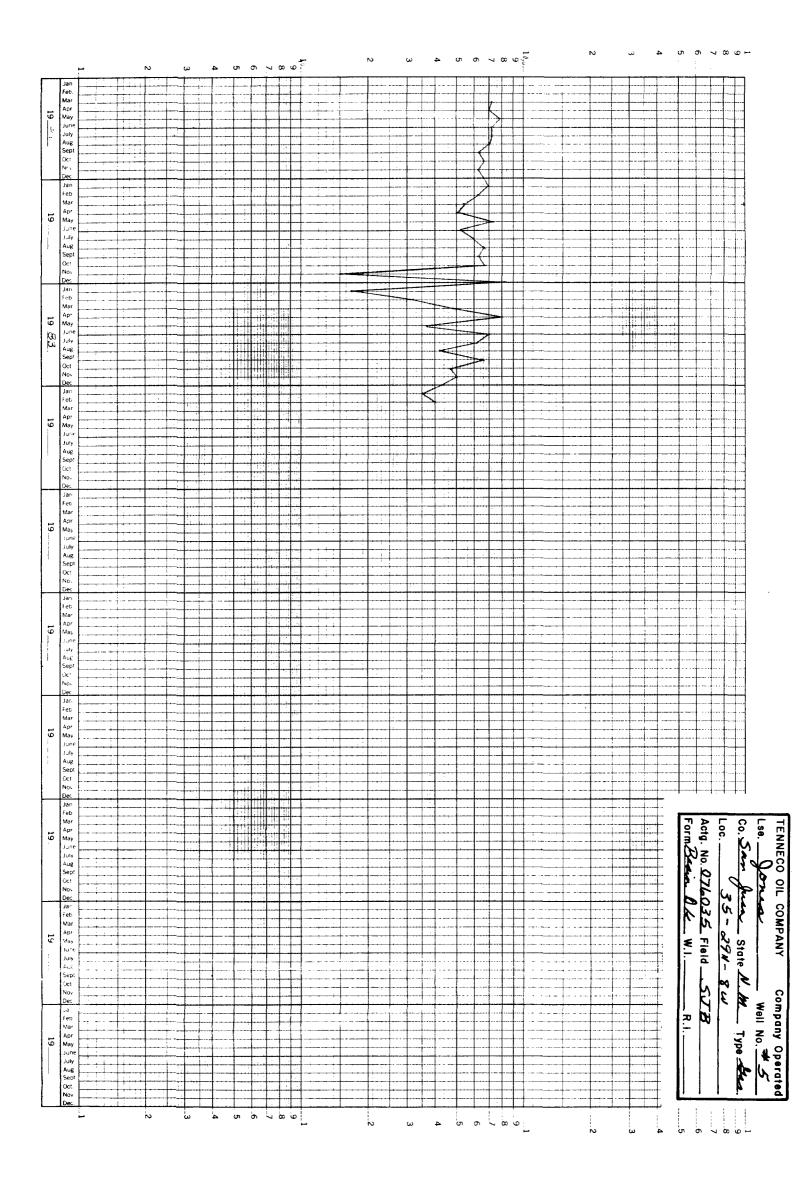
Very truly yours, 1L Num

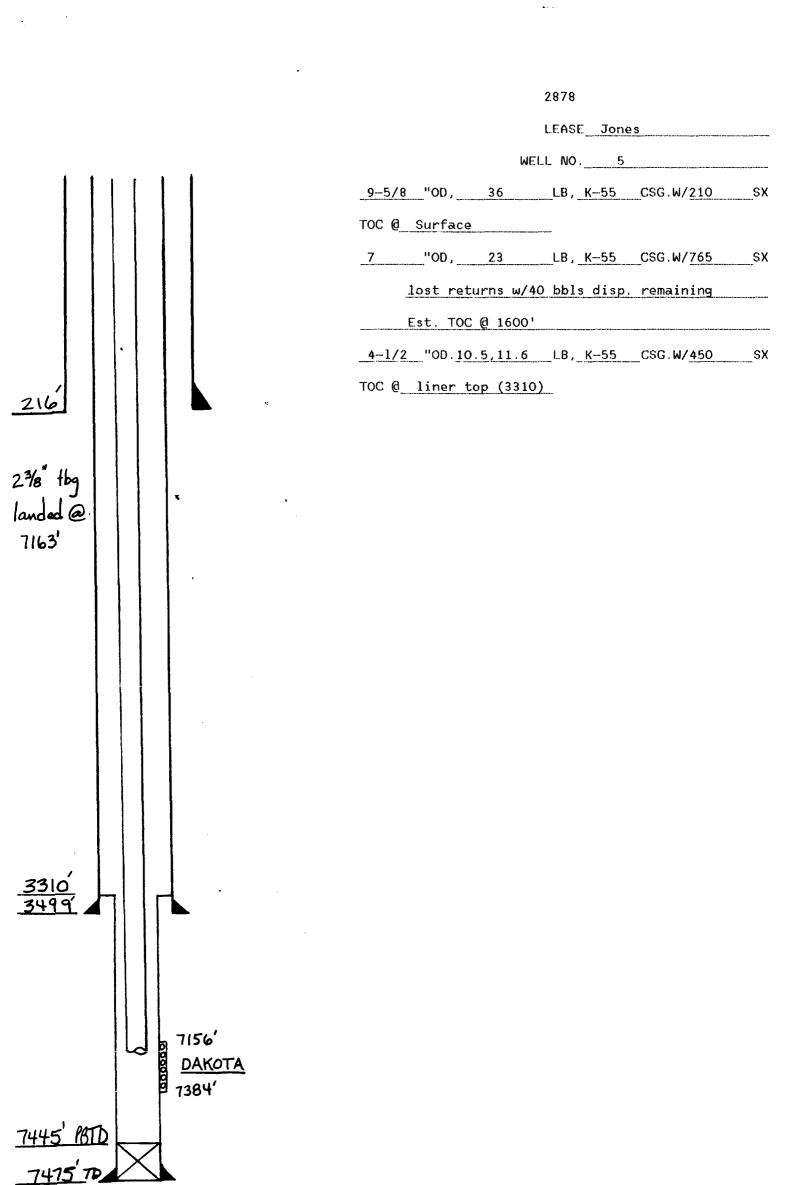
Scott McKinney Senior Regulatory Analyst

SMc:gj Attachment

cc: Mark Owen Joe Vice El Paso Natural Gas K-E 10 YEARS BY MONTHS x 3 LOG CYCLES KEUFFEL & ESSER CO. MADE IN USA

47 6740





-TENNECOWELL HISTORY - 2885/2

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## OIL CONSERVATION DIVISION P. O. UOX 2088 SANTA FE, NEW MEXICO 87501

		All distances must be fro	m the cuter houndaries	et the Section.	
Operator			Lease		Well No.
TENNECO OI			JONES	County	5
Unit Letter Section Township		· ·	Range		·
Α	35	29N	<u>8</u> W	San J	uan
Actual Footage Loc	1	NT	1380	_	
1030	feet from the Producing For	North line and		feet from the E	ast line
Ground Level Elev. 6343	Dakota		Basin Dako	ota	Dedicated Acreage:
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1. Outline the	e acreage dedica	ted to the subject we	ell by colored pencil	l or hachure m	arks on the plat below.
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Form C-107 Revised 10-1-78

## OFFSET OPERATORS

Jerome P. McHugh & Ass. 650 S. Cherry St., Suite 1225 Denver, Co 80222 Mesa Petroleum Co. 1660 Lincoln St., Suite 2800 Denver, Co. 80264

Jones #5 Sec. 35, T29N, R8W

San Juan County, NM

