NEW MEXICO CIL CONSERVATION COMMISSION

P. O. BOX 2045

HOBBS, NEW MEXICO

DATE January 7, 1959 TO: RE: GAS WELLS Neville G. Penrose, Inc. This is: 1813 Fair Bldg. A New Gas Well An Oil Well Converted to Gas Fort Worth, Texas An Oil-Gas Dual A Gas-Gas Dual Gentlemen: Form C-104 has been received on your Hardy #1-N Well No. Unit Lease IX | But no allowable can be assigned this 120 _____ acre allowable will And a ____ well until the following forms have be assigned in the **_____**Pool been received: under Order No. R-1176 Form C-104 _____ Filed 7/22/58 Filed 7/22/58 Form C-110 _____ Filed _____ 6/9/58 Form C-128 _____ NSP Order Approved 5/26/58 Notice of Connection _____ Date of Connection 12/27/58 Deliverability Test _____ Filed Not Required

OIL CONSERVATION COMMISSION

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011 & Gas Inspector

Original-OCC, Santa Fe cc-File, Operator & Transporter---EP

Original-Operator cc-File

NEW MEXICO OIL CONSERVATION COMMESSION FIDE OCC

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Inj	itial X	Ann	.ei		Spec	ial		_Date of	Test /-	86-4	
Con	apany Nevill	e G. Penros	, Inc.		Lease		Hardy	We]	1 No	1 12 1	
Unit 1 B Sec. 17 Twp.			np21	21 Rge. 37			PurchaserE		il Paso Naturel Gas Co.		
Cas	ing 51/2	1t. 15.5	D.	Set at6599			5664		To	690- 777	
	oing_2"										
	Pay: From								_		
Pro	ducing Thru:	Casing	<u>X</u>	Tu	bing	Sir	Type We	ell Ges -	Oil Dual	O. Dual	
Dat	e of Complet	ion: Jan. I	75 0	Packe	r <u>6520</u>		Reserve	pir Temp.			
	ted Through	·		(Makaax)		ED DATA		Туре Тар)S		
~	(Prover)	Flow D		Dice	m -		Data	Casing I	ata		
No.		(Orifice)			-		Temp.			Duration of Flow	
	Sign	Size	psig	h _w		psig	°F.		°F.	Hr.	
SI 1. 2. 3. 4. 5.	2	1.500	- 11 -		<u>88</u> 34			1634		72 hr. S.I.	
2.	2	1.500	23		32			1010		3	
4.	2	1.500	48		41		+	<u>739</u> 506	+	3	
5.	2	1.500	50		49			435		24	
				1	FLOW CAL	CULATION	S				
No.	Coeffici	pefficient		Pressure		Temp. tor	Gravity Factor	Compress. Factor		Rate of Flow Q-MCFPD	
	(24-Hou	r) $\sqrt{h_w}$	p _f	psia	F		Fg	F _{pv}		2 15.025 psia	
1.	54.3653 -			.27	1.0260		.9608	N		1,297 -	
$\frac{1}{2}$ $\frac{3}{4}$ $\frac{4}{5}$	54.2653 -			.2	1.0281		9608			2,481	
<u> </u>	54.3653 - 54.3653 -			.2	1.0188		9608 9608	t		3,256	
5.	54.3453			.2	1.0107		9608 -		*	3, 336	
	Liquid Hydro ity of Liqui 1.812	d Hydrocarb			cf/bbl. deg.	ALCUATI	Speci Speci		ty_Flow	rator Gas 65 ing Fluid_ <u>.79</u> 3.3 -	
	Pw	· · · · · ·						<u> </u>		·····	
No.	Bt (psia)	P_t^2 F	c ^Q	$(F_cQ)^2$	(F	$\left \frac{e^{Q}}{e^{-s}} \right ^{2}$	P _w 2	$P_c^2 - P_w^2$	Ca	P_{W}	
1.	1201.2	1442.8/ 2	.35	5.52 -		-e)	1444.0	1267.3	P.		
2.	1023.2/	1044.9/	.50/	20.25	4.7	7	1051.6	1661.7	1:25	- 12.26	
3. 4.	<u>752.2</u> 519.2 *		90 ·	34.81 / 42.77 /	8.1	·		2139.4		6 4517	
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AGE	NT and TITLE	16		minaing.		orth, Tex		McNaught	on, Vice	President	
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UUM	PANY	<u>EI</u>	ano Net	vrai Ga s	Company REM	ARKS				······································	

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INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas well in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Bex 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q = ctual rate of flow at end of flow period at W. H. working pressure (P_W). CF/da. @ 15.025 psia and 60° F.
- P_c: 2 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- P_{w} static wellhead working pressure as determined at the end of flow period. Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt lowing wellhead pressure (tubing if flowing through tubing, casing if lowing through casing.) psis
- P_f deter pressure, psia.
- h_w = Differential meter pressure, inches water.
- FgI fravity correction factor.
- Ft flowing temperature correction factor.
- F_{pv}-Supercompressability factor.
- n _Slope of back pressure curve

Note If P_W cannot be taken because of manner of completion or condition of well, then P_W must be calculated by adding the pressure drop due to friction within the flow string to P_t .





Q = M.C.F.D.

