						C-103
	NEW MEXI	CO OIL CONSERV	(Reviso N	(Revised 3-55)		
	MISC	ELLANEOUS REF	ORTS OI	N WELLS		
(Submit t		e District Office			Rule 1106)	
COMPANY	mereda Petro	Leum Corporation -	Box 706,	- Bunice, N	er Mezigo	
		(Addre	ss)			
LEASE State	JCala	WELL NO. 1	UNIT	E S 16	T 23-S	R 36-E
DATE WORK I	PERFORME	0 <u>4-18-61- 4-25-61</u>	P001	Jalmat		
Begin	ning Drillin	k appropriate blo g Operations	-	Remedial		sing Shut-off
Plugg Detailed accou		one, nature and q	uantity of	Other f materials	used and res	ults obtained.
pres gall Lane shot PSI perf of 2	s 1200, Hin. ons of cande -Wells perfor s, type E bui Mipple 3 312 . 3090'-3100	ing perf. from 328 Press 900# - Sam oil & 40,000# of : rated 52" casing fillets - Set 52" x : Woblanking plug. - Sandoil frac 30" ax press. 2700#, Hi	ioil frac 20-40 sam rom 3090' 2" Brown : - Spott 90'-3100'	52" cas. pe 1. Max press -3100' (10') DuogPak Pack ed 500 gal. (w/10,000 ga	rf. 3150'-321 . 1800#, Min. 2 shots per er @ 3125', t of 15% Reg. a 1. of oil & 1	0' w/20,000 press 1700#. ft. total 20 subing @ 3135', aid on 0,000#

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FILL IN BELOW FOR REMEDIAL WO	RK REPORTS ONLY		······
Original Well Data:			Marrie and Annual Contraction
DF Elev. 3469' TD 3610' PBD 331	21 DOIProd. Int.	Comp	ol Date
Tong. Dia 2-3/8" Tong Depth 33451	Oil String Dia glu	Oil Stri	ng Depth 37001
Perf Interval (s) 31501-32101 & 32601-33	1001 # 33301-33501		
	lucing Formation (s)	Yates - Se	ven Rivers
RESULTS OF WORKOVER:	В	EFORE	AFTER
Date of Test			4-27-61
Oil Production, bbls. per day			
Gas Production, Mcf per day			
Water Production, bbls. per day			55.20
Gas-Oil Ratio, cu. ft. per bbl.			
Gas Well Potential, Mcf per day			723 MCF
Witnessed by B.A. Hoore	Amerada Petro	leum Corpor	ation
		(Comj	pany)
OIL CONSERVATION COMMISSION	N I hereby certify t above is true and my knowledge. Name	complete f	
Title	Position Asst.	Dist. Supt.	
Date	Company Amera	a Petr. Cor	p

			MU	LTI-	POINT B	ACK PRES	SSURE TE	st for gas	WEELS	1 2 4	Revised 12-1-5
	ol Jalmat		<u></u>	Fo	rmation	Yates	- Seven	Rivers	_County	Lea	
	itial		_Annual_			Spec	ial X		_Date of	Test 2	4/29-60
	npany Amerada	Petrol	um Corp	orat	Lon	Lease St	ate JC"	En	Wel	1 No	1
	it	Sec. 16	Twp 🏒	38	Rg	e. <u>36-</u> B	Pur	chaser Per	main Basi	a Pipel	ine Company
e	sing 5.500 *	Wt. 15.5	I.D.	4.950) ■Se	t at <u>370</u>	01 P	erf. <u>3150'</u>		To _330	01
Ł	oing2-3/8	Wt. <u>4.7</u>	I.D.	1.99	Se Se	t at <u>32</u>	21 Pe	erf. <u>3279</u>		To <u>328</u>	21
5	Pay: From	31.50	To 3300		_L_ 327	<u>9</u> >	cG 0_66(64	Bar.Pre	ss. 13.2
С	ducing Thru	: Cas:	ing		Tu	bing I	<u>c:</u> ,	Type We	11_ <u>Singla</u>		Dual
t	e of Comple	tion: 1	23-51	···	Pa cke	r		Reservo	ir Temp	6. or u 179 Cal	sulsted
	0.58	5 112 1	1.67%			OBSERV	ED DATA				
S	ted Through	-			(Meter)				Туре Тар	SPin	•
_		F	ow Data				Tubing	g Data	Casing D		
	(Prover) (Line)	(Orifi		ess.	Diff.	Temp.	Press	Temp.	Press.	Temp.	Duration of Flow
e	Size	Siz	· · ·	sig	h _w	°F.	psig	°F.	psig	^{>} F•	Hr.
_							588.3		661.0		70.50
-	2#	0.042		2.1		69 79	309.8	<u>69</u> 79			3.00
	28	0.125	16	5.8		80	166.8	80			3.00
	2*	0.187		2.7		69	322.7	<u>69</u> <u>65</u>			3.00
-		Victo.								<u> </u>	
_	Coeffic	ient		Pre	ssure	FLOW CAL Flow	Temp.	Gravity	Compre	ss.	Rate of Flow
			<u></u>			Fac	tor	Factor	Facto	r	Q-MCFPD
•		ur) -	/ ^h w ^p f		osia		't	Fg	F _{pv}		@ 15.025 psia
•	(24-Ho			163		0.9915	í	0.9535	1.048		<u>38</u>
• 1	0.0827			221				U OK3K	000		
	<u> </u>			323		0.9822		0.9535	1.029		58
• 1 1 1 1 1	0.0827				.0	0.9822					
<pre></pre>	0.0827 0.1820 0.3418 0.7851		carbons	180	9 9 PRJ	0.9822 0.9813 0.9915	ALCULATI	0.9535 0.9535 0.9535 IONS Speci Speci	1.015 1.034 1.031	ty Sepa ty Flow P ²	58 258 334 rator Gas ring Fluid
v	0.0827 0.1820 0.3418 0.7851 1.0834 Liquid Hydro ity of Liqu 9.936	id Hydro	carbons	180	PR.	0.9822 0.9813 0.9915 0.9952 ESSURE C cf/bbl. deg.	ALCULATI	0.9535 0.9535 0.9535 IONS Speci Speci	1.015 1.034 1.031 fic Gravi fic Gravi	ty_Flow	58 258 334 rator Gas ring Fluid
	0.0827 0.1820 0.3418 0.7851 1.0834 Liquid Hydro ity of Liqui 9.936	id Hydro	carbons	180	PR.	0.9822 0.9813 0.9915 0.9952 ESSURE C cf/bbl. deg.	ALCUTATI	0.9535 0.9535 0.9535 IONS Speci Speci	1.015 1.034 1.031 fic Gravi	ty Flow P ² _45	58 258 334 rator Gas ring Fluid 4.5 1. Pw
	0.0827 0.1820 0.3418 0.7851 1.0834 Liquid Hydre ity of Liqu 9.936 Pw Pt (psia) 463.3	Pt ²	F _c Q	180	.0 .9 .3 .138 (F _c Q) ² .142	0.9822 0.9813 0.9915 0.9952 ESSURE C cf/bbl. deg. (F (1 .01	ALCUTAT	0.9535 0.9535 0.9535 IONS Speci Pc-6 Pw2 214.6	1.015 1.034 1.031 fic Gravi fic Gravi 74.2 P_c^2-P_w^2 P_c^2-P_w^2	ty Flow P ² _P ² _ 45 Ca P 463.3	58 258 258 334 arator Gas ring Fluid 4.5 1. Pw Pc 0.687
	0.0827 0.1620 0.3418 0.7851 1.0634 Liquid Hydro ity of Liqu 9.936 Pw Pt (psia) 463.3 323.0	Pt ² Pt ²	F _c Q	180	.0 .9 .3 .138 .(F _c Q) ² .142 .320	0.9822 0.9813 0.9915 0.9952 ESSURE C cf/bbl. deg. (F (1 .01 .04	$\frac{1}{2}$	0.9535 0.9535 0.9535 IONS Speci Pc_6 Pw2 214.6 164.3	1.015 1.034 1.031 fic Gravi fic Gravi 74-2 P_c^2-P_w^2 P_c^2-P_w^2 350.2	ty Flow P ² C Ca P C C C C C C	58 258 258 334 arator Gas ring Fluid 4.5 1. P _W F _C 0.647 0.479
	0.0827 0.1820 0.3418 0.7851 1.0834 Liquid Hydre ity of Liqu 9.936 Pw Pt (psia) 463.3	Pt ²	F _c Q	180	.0 .9 .3 .138 (F _c Q) ² .142	0.9822 0.9813 0.9915 0.9952 ESSURE C cf/bbl. deg. (F (1 .01 .04	CalcurAT	0.9535 0.9535 0.9535 IONS Speci Pc_6 Pw2 214.6 104.3 32.4 113.7	1.015 1.034 1.031 fic Gravi fic Gravi 74.2 P_c^2-P_w^2 P_c^2-P_w^2	ty Flow P ² _P ² _ 45 Ca P 463.3	58 258 334 arator Gas ing Fluid 4.5 1. Pw Pc 0.687 0.267
	0.0827 0.1620 0.3418 0.7851 1.0834 Liquid Hydru ity of Liqu 9.936 Pw Pt (psia) 463.3 323.0 160.0	Pt ² Pt ² 104.3 32.40	F _c Q 	180 335 319	.0 .9 .3 .138 .(F _c Q) ² .142 .320 .332	0.9822 0.9813 0.9915 0.9952 ESSURE C cf/bbl. deg. (F (1 .01 .04 .04	ALCU ^T AT] ALCU ^T AT] -e ^{-s}) 96 42 58	0.9535 0.9535 0.9535 IONS Speci Pc_6 Pw2 214.6 104.3 32.4	1.015 1.034 1.031 fic Gravi fic Gravi 74-2 $P_c^2 - P_w^2$ 29.9 350.2 422.1	ty Flow Pc_45 Ca Pc_45 323.0 140.0	58 258 334 arator Gas ing Fluid 4.5 1. Pw Pc 0.687 0.267
	0.0827 0.1820 0.3418 0.7851 1.0734 Liquid Hydre ity of Liqu 9.936 Pw Pt (psia) 463.3 323.0 160.0 335.9 315.3 olute Potent	Pt Pt 214.6 104.3 32.40 112.8 99.41 tial:_2	F _c Q F _c Q 556 576 2.563 3.318	-5) 0	.0 .9 .3 PR .138 (F _c Q) ² .142 .320 .332 6.569 1.009	0.9822 0.9813 0.9915 0.9952 ESSURE C cf/bbl. deg. (F (1 .04 .04 .90 1.51	alcutAT	0.9535 0.9535 0.9535 IONS Speci Pc_6 Pw2 214.6 104.3 32.4 113.7	1.015 1.034 1.031 fic Gravit fic Gravit 74.2 P_c-P_w^2 P_c-P_w^2 350.2 422.1 340.8 353.6	Ca PC_45 Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC CA CA PC PC CA CA PC CA CA CA CA CA PC CA CA CA CA CA CA CA CA CA CA CA CA CA	58 258 334 rator Gas ing Fluid
	0.0827 0.1620 0.3418 0.7851 1.0634 Liquid Hydro ity of Liquity of Liquity 9.936 Pw Pt (psia) 463.3 323.0 160.0 335.9 315.3 olute Potenty PANY	Pt Pt 214.6 104.3 32.40 112.8 99.41 tial: 20 reda Pot	F _c Q F _c Q .377 .566 .576 2.563 3.318 4	-5) 0	.0 .9 .3 PR .138 (F _c Q) ² .142 .320 .332 6.569 1.009	0.9822 0.9813 0.9915 0.9952 ESSURE C cf/bbl. deg. (F (1 .01 .04 .04 .90 1.51 MCFPD;	alcutAT	0.9535 0.9535 0.9535 IONS Speci Pc_6 Pw2 214.6 104.3 32.4 113.7 100.9	1.015 1.034 1.031 fic Gravit fic Gravit 74.2 P_c-P_w^2 P_c-P_w^2 350.2 422.1 340.8 353.6	Ca PC_45 Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC CA CA PC PC CA CA CA CA CA CA CA CA CA CA CA CA CA	58 258 334 rator Gas ing Fluid
	0.0827 0.1820 0.3418 0.7851 1.0834 Liquid Hydre ity of Liquity 9.936 Pw Pt (psia) 43.3 323.0 160.0 335.9 315.3 olute Potenty PANY American RESS Drawn	Pt Pt 214.6 104.3 32.40 112.8 99.41 tial:_20 reda Pol wor "D", E	F _c Q F _c Q .377 .566 .576 2.563 3.318 	-5) () -5) () () () () () () () () () () () () ()	.0 .9 .9 .13 .138 (F _c Q) ² .142 .320 .332 6.569 1.009	0.9822 0.9813 0.9915 0.9952 ESSURE C cf/bbl. deg. (F (1 .01 .04 .04 .90 1.51 MCFPD;	alcutAT	0.9535 0.9535 0.9535 IONS Speci Pc_6 Pw2 214.6 104.3 32.4 113.7 100.9 00 Limite	1.015 1.034 1.031 fic Gravit fic Gravit 74.2 P_c-P_w^2 P_c-P_w^2 350.2 422.1 340.8 353.6	Ca PC_45 Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC CA CA PC PC CA CA CA CA CA CA CA CA CA CA CA CA CA	58 258 334 rator Gas ing Fluid
	0.0827 0.1820 0.3418 0.7851 1.0834 Liquid Hydre ity of Liqu 9.936 Pw Pt (psia) 43.3 323.0 160.0 335.9 315.3 olute Potent PANY Ame RESS Draw NT and TITL NESSED J.	Pt Pt 214.6 104.3 32.40 112.8 99.41 tial:_28 reda Pot wor "D" E D. Horte	F _c Q F _c Q .377 .566 .576 2.563 3.318 	-5) (-5) (.0 .9 .9 .13 .138 (F _c Q) ² .142 .320 .332 6.569 1.009	0.9822 0.9813 0.9915 0.9952 ESSURE C cf/bbl. deg. (F (1 .01 .04 .04 .04 .90 1.51 MCFPD; ice	ALCU AT cQ) ² -e ^{-s}) 96 42 58 65 92 n1.	0.9535 0.9535 0.9535 IONS Speci Pc_6 Pw2 214.6 104.3 32.4 113.7 100.9 00 Limite	1.015 1.034 1.031 fic Gravit fic Gravit 74.2 P_c-P_w^2 P_c-P_w^2 350.2 422.1 340.8 353.6	Ca PC_45 Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC Ca PC CA CA PC PC CA CA CA CA CA CA CA CA CA CA CA CA CA	58 258 334 rator Gas ing Fluid

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INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells 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 Box 871, Santa Fe.

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

NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w). MCF/da. @ 15.025 psia and 60° F.
- P_{C} 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- 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-Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- h_w Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t 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 .