NEW MEXICO

Gas Well Plat

OIL CONSERVATION COMMISSION

	nerge 6. 101 060 Dat	te 6-16-55
R. Olsen	Christmas	2
Operator	Lease 7 M D. O.	
me of Producing For	mation Tates-Seven Rivers Poo	1 Jalmat

No. Acres Dedicated to the Well 160

2

SECTION	TOWNSH	IP 22 S	RANGE
1	a da segura de la segura		
N			#
<i> </i>			
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*			
1		4	
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I hereby certify that the information given above is true and complete to the best of my knowledge.

owel Name Position Geolegist Representing R. Olem Address Drawer Z, Jal, N. M.

- 1. Is this gas well a dual completion? Yes No. x.
- If the answer to Question 1 is Yes, are there any other dually completed wells within the dedicated acreage? Yes ______No._____.

A separate plat must be filed for each gas well, outlining the area dedicated to such well and showing the location of all other wells (oil and gas) within the outlined area.

Mail in duplicate to the district office for the district in which the well is located.

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NEW MEXICO OIL CONSERVATION COMMISSION One-point Back Pressure Test for Gas Wells

Form C-122-C

(Deliverability) HOSDS OFFICE OC42-1-54 South z Le Formation 7 Rivers - Queen County_ Pool Jalmat Lea Annual _____ Special _____ Date of test 2-8/AP-1 Initial_ Jal Oil Co., Inc. Lease _____ _____Sec. 28 ____Twp. 22 ____Rge. 36 ________Rge. 1/2/1. 15.5 I.D. ______Set at ______ ______ Lease ______ Christmas ______ Well No. _____ ___Rge. __36 ____Purchaser EI Paso Natural Gas Co. _____Set at _____3145 _____ Perf._____ To _____ Company_ Unit___ Casing <u>5</u> _ Perf.__ _ To _

 Casing 2 174 Wt. 120 1.0 Set at 3669 Perf.

 Tubing 2 Wt. 4.7 1.0 Set at 3669 Perf.

 Gas Pay: From 3450 To 3696 L_{3669} x G .679 = GL 2491
To _____Bar.Press._____3.2__ Producing Thru: Casing _____ Tubing ____ Type Well___ single Single-Bradenhead-G.G. or G.O. Dual

		•		FLOW D.	ATA					
Sta	rted	Tal	ken	Duration	Туре	Line	Orfice	Static	Differ-	Flow
Date	time	Date	time	Hours	Taps	Size	Size	Press.	ential	Temp.
2-8-60	10:00AM	2-9-60	10:00AM	24	Flg	<u>4</u>	1.500	265 .2	18.06	68
	PM		PM							

	FLOW CALCULATIONS												
Static Pressure ^p f	Differ- ential h _w	Meter Extension √p _f h _w	24-Hour Coeff- icient	Gravity Factor Fg	Temp. Factor ^F t	Compress- ability ^F pv	Rate of Flow MCF/Da. @ 15.025 psia Q						
265.2	18.06	69.20	13.99	• 9400	. 9924	1.027	927.5						

			SHUT-IN	DATA			FLOW	DATA
Shut	t-in	Press.	Taken	Duration				ng Pressure
Date	Time	Date	Time	Hours	(^P c) ps	sia	(^P w)and(^P t)psia
	1				Tubing	Casing	Tubing	Casing
2-9-60	10:00AM	2-10-60 2-11-60		24 48	492 .2 531.2		267.2	
	PM	2 - 12 - 60	PM	72	552.2			

FRICTION CALCULATIONS(if necessary)			SUMMARY	
$PW^2 = (267.2)^2 \neq (9.936 \times 927.5)^2 (.158) = 84.8$		P _c = _	552.2	psia
		Q =_	927.5	MCF/Da.
DELIVERABILITY CALCULATIONS		P_=_	291.2	psia
$P_w = 291.2$ $P_c = 552.2$ $P_w + P_c = .527$	'3	P_=_	441.8	psia
$\frac{1 - \frac{P_{w}}{P_{c}}}{.36 + M} \frac{.4727}{.36 + M} \frac{1 + \frac{P_{w}}{P_{c}}}{.4987} \frac{1 - \frac{P_{w}}{P_{c}}}{1.527} \left(1 - \frac{P_{w}}{P_{c}}\right) \left(1 + \frac{P_{w}}{P_{c}}\right) = M \frac{.721}{.527}$.8	D = _	541.7	MCF/Da.
$.36 + M - \frac{.4987}{$	•	=	9.766429	-10 +
COMPANY Jal Oil Company, Inc. ADDRESS Drawer Z, Jal, New Mexico	Log	Q = _	2.967314	
AGENT and TITLE Dadell LILLS Prod. Supt. Jo Clean	Log	D = _]	12.733743	-10
WITNESSED EI Paso Natural Gas Co.	Antilog	=_	541.7	= D
REMARKS	,			

This form is to be used for reporting deliverability tests in the designated Dry Gas Pools of Lea County as ordered by New Mexico Oil Conservation Commission Directive dated March 15, 1954, which directive was provided for by Orders R-365-A through R-376-A. For details regarding this test please refer to the above mentioned Directive.

NOMENCLATURE

- Q = Actual 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
- $P_d = Deliverability pressure; 80\% of 72 hour individual wellhead shut-in pressure (<math>P_c$). psia

 P_w = Static wellhead working pressure as determined at the end of flow period. (Casing if flowing through tubing, tubing if flowing through casing.) psia

- P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing). psia
- D = Deliverability at Deliverability pressure (P_d) MCF/da @ 15.025 psia and 60° F.
- p_f _ Static meter pressure, psia.
- $h_w = Differential meter pressure, inches water.$
- F_{σ} = Gravity correction factor
- $F_t =$ Flowing temperature correction factor.
- **F** = Supercompressibility 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_+ .

NEW MEXICO OIL CONSERVATION COMMISSION One-point Back Pressure Test for Gas Wells Form C-122-C (Deliverability) 4-1-54 1 Eurice HOBBS OFFICE OCC Formation 7 Rivers - Queen County . Pool Lea ____Special_____Date of test 2-8 ___Lease ____Christmas 1960 MAR 10 AW Rge.__36 Purchaser El Paso Natur Initial **X** Annual <u>Co.</u>, Inc. _fille 10 No 9 Company Purchaser El Paso Natural Gas Co. 3145 Perf. Rge. Unit_ Casing Set at_ _ Perf. То 3669 Tubing_ Set at Perf. To To_3696 = GL _2491 3669 ____x G___**.679** L _ Gas Pay: From Bar.Press. 13 Producing Thru: Casing Tubing _____ Type Well___ single Single- Bradenhead-G.G. or G.O. Dual

		•		FLOW D.	ATA					
Sta	rted	Tal	ken	Duration	Туре	Line	Orfice	Static	Differ-	Flow
Date	time	Date	time	Hours	Taps	Size	Size	Press.	ential	Temp.
2-8-60	10:09 _{AM}	2-9-60	10:0QM	24	Flg	4	1.500	265.2	18.06	68
	PM		PM							

Static	Differ-	Meter	24-Hour	Gravity	Temp.	Compress-	Rate of Flow
Pressure	ential	Extension	Coeff-	Factor	Factor	ability	MCF/Da. @ 15.025 psia
$p_{\mathbf{f}}$	h _w	√p _f h _w	icient	Fg	^F t	Fpv	Q
265.2	18,06	69.20	13.99	.9400	. 9924	1.027	927.5

			SHUT-IN	DATA			FLOW	DATA
Shu	it-in	Press.	Taken	Duration		Pressure		
Date	Time	Date	Time	Hours	(^P c) p	sia	(^P w)and(^H	t)psia
					Tubing	Casing	Tubing	Casing
2-9-60	10:00AM	2-10-60 2-11-60 2-12-60	10:00M	24 48 72	4 92.2 531.2 552 .2		267.2	
	PM	2-12-00	PM	14	772.2			

FRICTION CALCULATIONS(if necessary) SUMMARY $PW^2 = (267.2)^2 \neq (9.936 \times 927.5)^2 (.158) = .84.8$ 552.2 psia 927.5 MCF/Da. 291.2 DELIVERABILITY CALCULATIONS psia 291.2 441.8 552.2 .5273 P., + Pc psia 541.7 _MCF/Da. .7218 9.697839 .773 9.766429-10 **x**(n). Log_ .36 + M Jal Oil Company, Inc. Log Q = 2.967314 COMPANY Drawer Z, Jal, New Mexico Ladell Ellis Prod. Supt. Log D = 12.733743-10AGENT and TITLE, D. Southern a.g WITNESSED EL Paso Natural Gas Co. Antilog = 541.7 **D** REMARKS Olive 34 Degrade to the and there as the fil

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- $P_d =$ Deliverability pressure; 80% of 72 hour individual wellhead shut-in pressure (P_c). psia

 $P_w =$ Static wellhead working pressure as determined at the end of flow period. (Casing if flowing through tubing, tubing if flowing through casing.) psia

- $P_t =$ Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing). psia
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- p_f _ Static meter pressure, psia.
- $h_w = Differential meter pressure, inches water.$
- F_{α} = Gravity correction factor.
- $F_t =$ Flowing temperature correction factor.
- F = Supercompressibility factor.
- n = Slope of back pressure curve.



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NEW MEXICO OIL CONSERVATION COMMISSION One-point Back Pressure Test for Gas Wells Form C-122-C HOBBS OFFICE OCG-1-54 4 Ennie (Deliverability) 0-Formation 7 Rivers - Queen County Los Special _____ Date of these _____ Pool _ Initial Annual Ine. Lease Christmes 011 Co. Company Well No. Purchaser El Paso Natural Gas Co. Unit_ Rge. Casing Set at_ Perf. To_ 1669 Tubing_ Set at Perf. To 3669 x G ____679 = GL 2+9 Gas Pay: From To_ L Bar.Press. 13 Producing Thru: Casing Tubing_ Type Well_ single Single- Bradenhead-G.G. or G.O. Dual

		•		FLOW D	ATA					
Sta	arted	Tal	ken	Duration	Type	Line	Orfice	Static	Differ-	Flow
Date	time	Date	time	Hours	Taps	Size	Size	Press.	ential	Temp.
2-8-60	10:00 _{AM}	2-9-60	10:00 M	24	Flg	. 4	1.500	265.2	18.06	68
	PM		PM							

· · · · · · · · · · · · · · · · · · ·		<u></u>	F.	LOW CALCUL	ATIONS		
Static	Differ-	Meter	24-Hour	Gravity	Temp.	Compress-	Rate of Flow
Pressure	ential	Extension	Coeff-	Factor	Factor	ability	MCF/Da. @ 15.025 psia
P_{f}	h _w	Vpf hw	icient	Fg	Ft	Fpy	Q
265.2	18.06	69.20	1.3.99	.9400	. 9924	1.027	927.5

			SHUT-IN	DATA			FLOW I	DATA
Shu	t-in	Press.	Taken	Duration	Wellhead	Pressure	W.H. Working	g Pressure
Date	Time	Date	Time	Hours	(^P c) ps	sia	(^{P}w) and $(^{P}t$)psia
					Tubing	Casing	Tubing	Casing
2-9-60	10:00M	2-11-60	10:00M	48	531.2		267,2	
		2-12-60		72	552,2			
	PM		PM		, ·			

FRICTION CALCULATIONS(if necessary) SUMMARY $PW^2 = (267.2)^2 \neq (9.936 \times 927.5)^2 (.158) = 84.8$ 552.2 psia 927.5 _MCF/Da. 291,2 DELIVERABILITY CALCULATIONS psia 291.2 441.8 552.2 .5273 + P. P., psia 541.7 MCF/Da. .7218 9.697839 9,766429-10 .773 Log .36 + M x (n). COMPANY Jal Oil Company, Inc. Depress 2,967314 Log Q = ADDRESS ____ Log D = 12.733743-10 Ladoll Ellis Prod. Supt. dez AGENT and TITLE D. Southern WITNESSED PL Post Natural Gas Co. 541.7 Antilog COMPANY _ = D REMARKS place 2:13 con all in manchange a #2.71

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- $P_t =$ Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing). psia
- D = Deliverability at Deliverability pressure (P_d) MCF/da. @ 15.025 psia and 60° F.
- p_f Static meter pressure, psia.
- h_w = Differential meter pressure, inches water.
- F_{σ} = Gravity correction factor.
- $F_t =$ Flowing temperature correction factor.
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NEW MEXICO OIL CONSERVATION COMMISSION One-point Back Pressure Test for Gas Wells

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ono perito		0 1000 10	T COO WOL		
015	(Deliverab	ility)	HOBBS	OFFICE OCC	4-1-54
Pool John Futh Eurice Formation	7 Myors				
Initial Annual	Special _		Datesof	thast M2497	2-12-60
Initial Annual Company Jel Cil Co., Inc. Unit Sec. 23 Twp. 22	_ LeaseC	hristen	960 MAIN	ugst M240/	No. 2
Unit Sec. 28 Twp. 22	Rge	_Purchase	r <u>ELP</u>	so Natural	Cas Co.
	_Set at	3145	Perf		'o
Tubing 2 Wt. 4.7 I.D.	_Set at	3669	Perf.		'o
Gas Pay: From 3490 To 3690	L 3660	x G		GL 2.91	Bar.Press. 13.2
Producing Thru: CasingTubin	g Typ	e Well		single	
		Single	- Bradenł	nead-G.G. or	G.O. Dual

				FLOW D.	АТА					
Sta	Started Tak		ken Durati		ration Type		Orfice	Static	Differ-	Flow
Date	time	Date	time	Hours	Taps	Size	Size	Press.	ential	Temp.
2-8-60	10:00M	2-5-60	10:00	24	F 1 8	. 4	1.90	265.2	18.06	69
	PM		PM							

_				F]	LOW CALCULA	ATIONS		
Γ	Static	Differ-	Meter	24-Hour	Gravity	Temp.	Compress-	Rate of Flow
	Pressure	ential	Extension	Coeff-	Factor	Factor	ability	MCF/Da. @ 15.025 psia
	$p_{\mathbf{f}}$	h _w	Vpf hw	icient	Fg	Ft	Fpv	Q
ſ	265.2	18,06	69.20	13.99		. 9924	1.027	927.5

			FLOW DATA					
Shut-in Press. Taken			Taken	Duration	Wellhead Pressure		W.H. Working Pressure	
Date	Time	Date	Time	Hours	(^P c) psia		(^{P}w) and (^{P}t) psia	
					Tubing	Casing	Tubing	Casing
2-5-60	10:09.	~-10-60 ?-11-60	10:00	4.9	531.2		267.2	
		2-12-60		72	552,2			
	PM		PM	Į				

FRICTION CALCULATIONS(if necessary) SUMMARY $PW^2 = (267.2)^2 \neq (9.936 \times 927.5)^2 (.153) =$ 84.8 552.2 psia \$27.5 MCF/Da. DELIVERABILITY CALCULATIONS psia . 5273 291.2 552.2 lator - $+ P_c$ Pu P_ psia MCF/Da. .7213 1-= M n = 9-706429-10 9.697839 .773 .36 + M Jal Oil Company, Inc. COMPANY Drover 2, Jal, New Porton 2.967314 Log Q = 12.733743-10 ADDRESS ____ Tile Prod. Supt. AGENT and TITLE D. Coethorn Log D WITNESSED T Poso Netural Cas Co. 941.7 Antilog **=** D COMPANY _ REMARKS

pk (03410

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- F_{pv} = Supercompressibility factor.
- n = Slope of back pressure curve.



Note:

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Gas Well Plat

OIL CONSERVATION COMMISSION

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	-		Date 10-19-	3
R. Olsen Etal	B. A. C	hristaas	2_	······································
Operator	Lease	11	Well No	
Name of Producing I		n	Pool Se . Eu	nice
Name of Producing 1	ormation			
No. Acres Dedicated	to the Well 160		and the second	
SECTION 28	TOWNSHI	P_229	RANGE_	<u>365</u>
<u>BEGINON</u>				
			-	
	2			
		R. Olsen	Etal	1
			JURA .	#2
· ·				
		B. A. Chu		
1		D. A. UN	- こうし 単 私 お	

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name_ Position Representing R. Olsen **Ulsen** Address Drawer 'Z' Jal, New Mexico

(over)

- 1. Is this gas well a dual completion? Yes_____No____
- 2. If the answer to Question 1 is Yes, are there any other dually completed wells within the dedicated acreage? Yes _____ No_____

A separate plat must be filed for each gas well, outlining the area dedicated to such well and showing the location of all other wells (oil and gas) within the outlined area.

Mail in duplicate to the district office for the district in which the well is located.

