MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

2. 3. 3/4" 412 62 928 3 hrs.					MULTI	-POINT E	BACK PRES	SURE TES	ST FOR GAS	S WELLS		Revised 12-1-55	
Company Surset International Fet. Corp. Lease	Pool				F	ormation	_ Dakote	<u> </u>		_County_	San J	nan	
Unit B Sec. 4 Dep. 278 Rge. 10N Purchaser Casing 5-1/2" Mt. 15.5 I.D. Set at 6773 Perf. 6510 To 6712 Tubing 2-3/8 Wt. 4.7 I.D. Set at 6773 Perf. 6510 To 6712 Tubing 2-3/8 Wt. 4.7 I.D. Set at 6712 Perf. Open End To Gas Pay: From 6510 To 6712 L x0 0.670 GB Bar. Press. Producing Thru: Casing Tubing I Type Well Single Bar. Press. Producing Thru: Casing Tubing I Type Well Single Single-Bradenhead-G. G. or G.O. Dual Reservoir Pemp. OBSERVED DATA Type Taps Tobing Data Casing Data No. (Chover) (Choke) Press. Diff. Temp. Press. Temp. Press. Temp. Of Flow No. (Line) (Orifice) Size psig hw Op. psig Op. psig Op. psig Op. psig Op. psig Op. Press. Size psig hw Op. psig Op. psig Op. Press. Diff. Temp. Press. Temp. Press. Temp. Op. Press. Temp. Op. Press. Temp. Press. Temp. Op. Press. Temp. Op. Psig Op.	Init	ial X	 	_Annu	al		Spec	ial		Date of	Test_	2-1-59	
Casing 5-1/2" Wt. 15.5 I.D. Set at 6773 Perf. 6510 To 6712	Comp	any Sunset	Interna	tions	l Pet.	Corp.	Lease	Fede	ral	We	Ll No	2-7	
Tubing 2-3/8 wt. 4.7 1.B. Set at 6712 Perf. Dpen Red To Gas Pay: From 6510 To 6712 L xG 0.670 GL Bar. Press. Producing Thru: Gasing Tubing X Typs Well Single Bate of Completion: 1-22-59 Packer Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. OBSERVED DATA Tested Through (Cricke) Press. Diff. Temp. Press. Temp. Frees. Temp. Of Flow No. (Line) (Cricke) Press. Diff. Temp. Press. Temp. Press. Temp. Of Flow Size Size psig h, 9. 1640 1997 Size Size psig h, 9. 1640 1997 Size FLOW CALCULATIONS No. (24-Hour) VhwPr psia Factor Fac	Unit	H S	Sec4	Tw	p. 27 1	Rg	e. 10W	Purc	haser				
Gas Pay: From 6510 To 6712 L xG 0.670 -GL Bar.Press. Producing Thru: Casing Tubing I Type Well Single Single-Bradenhead-G. G. or G.O. Dual Bate of Completion: 1-22-59 Packer Reservoir Temp. OBSERVED DATA Type Taps Flow Data Flow Press. Temp. Press. Temp. Duration of Flow Size Size psig h, OF. psig OF. psig OF. Hr. 1. 1. 2. 3. 3/4* 412 62 928 3 hre. Flow CALCULATIONS Flow Temp. Gravity Compress. Rate of Flow Temp. Flow Calculations Flow Temp. Gravity Plowing Flow Bit. O.25 psia Ft Fg Fpv 815.025 psia 1. 12.1440 424 .9981 0.9463 1.046 5180 FRESSURE CALCULATIONS As Liquid Hydrocarbon Ratio Cof/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid Fg. 1919	Casi	ng 5-1/2" W	It. 15.	<u>5</u> I	.D	Se	t at 67	73 Pe	rf. 651	9	To 6	712	
Producing Thru: Casing	Tubi	ng 2-3/8 N	It. 4.7	I	.D	Se	t at 67	l2 Pe	rf. Open	E nd	To		
Date of Completion: 1-22-59 Packer Reservoir Temp.	Gas	Pay: From_	6510	_To	6712	L	x	G 0.670			_Bar.Pr	ess	
Date of Completion: 1-22-59 Packer Reservoir Temp.	Prod	ucing Thru:	Casi	ing		Tu	bing	X	Type We	11 Sing	10	0.0.0	
Type Taps	Date	of Complet	ion:	1-22-	-59	Packe	r						
Flow Data							OBSERV	ED DATA					
Choke Chok	Test	ed Through	Tippe	r) (Choke)	(Vision)				Type Tar	os		
No. (Line (Orifice Size psig hw OF psig O? psig O? psig O? Flow Fr.													
1640 1907	No.	(Line)	(Orifi	ce)						1	1	of Flow	
1.	ST	Size	Siz	ie	psig	h _w	F.				F.	Hr.	
Second S	1.												
FLOW CALCULATIONS FLOW CALCULATIONS Coefficient No. Coefficient No. (24-Hour)	3. [3/4"		412		62			928		3 hrs.	
No. Coefficient Variety Pressure Flow Temp. Gravity Compress. Rate of Flow Q-MCFPD Pactor Factor F	5.												
No. (24-Hour) V hwpf psia Factor F		Coeffici	ent		P					Compre	255.	Rate of Flow	
PRESSURE CALCULATIONS as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas ravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid P_c 1919 P_C	No.			h.r			Factor		Factor	Factor			
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as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid P _c 1919 P _c 3633 No. P _w P _t F _c Q (F _c Q) ² (F _c Q) ² P _w ² P _c ² -P _w ² Cal. P _w F _c P	5.												
Specific Gravity Flowing Fluid Po 1919 Pc 3683						PR	ESSURE C	ALCUIATI	ONS				
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Pt (psia)										Y			
2. 3. 940 Absolute Potential: 6541 MCFPD; n_ 0.85 1.2627 COMPANY Sunset International Petroleum Corp. ADDRESS FCX /S27 Denne Cole FCX SES Blumfuld AGENT and TITLE Tom Popp. Engineer WITNESSED T. A. Dugan COMPANY Consultant REMARKS	No -		$P_{\mathbf{t}}^{2}$	F	,Q	$(F_cQ)^2$	(F	c^{Q}	P _w ,2	$P_c^2 - P_w^2$	С	al. Pw	
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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 I Actual rate of flow at end of flow period at W. H. working pressure ($P_{\rm W}$). MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwT 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.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor. .
- F_{pv} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\mathbf{W}}$ cannot be taken because of manner of completion or condition of well, then $P_{\mathbf{W}}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\mathbf{t}}$.

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