

dst file

JUN 10 1991

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

O. C. D.

ARTESIA, OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 05-30-91			
Company Siete Oil & Gas				Connection			
Pool <i>Buffalo Valley Penn</i>				Formation Atoka			
Completion Date		Total Depth 8675		Plug Back TD		Elevation	
Farm or Lease Name Mojave				Well No. 1			
Csg. Size 5 1/2	Wt. 15.5	d 1.995	Set At 8675	Perforations: From 8202 To 8242		Unit Sec. Twp. Rge. P 15 15S 27E	
Thq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 8089	Perforations: From To		Country Chaves	
Type Well - Single - Dragoonhead - G.C. or G.O. Multiple Single				Packer Set At 8089		State New Mexico	
Producing Thru Tubing		Reservoir Temp. °F 155 8089		Mean Annual Temp. °F 60		Buro. Press. - P _g 13.2	
L 8089	H 8089	G _g .665	% CO ₂ .28	% N ₂ .65	% H ₂ S	Prover	Meter Run 3.068
						Taps Flange	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							2090		PKR		3 days
1.	3	X	.750	700	7.00	92	1900		PKR		1 hr.
2.	3	X	.750	700	12.00	92	1720		PKR		1 hr.
3.	3	X	.750	700	22.00	92	1400		PKR		1 hr.
4.	3	X	.750	700	48.00	92	1240		PKR		1 hr. &
5.											15 mins.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	2.672	70.66	713.2	.9706	1.226	1.064	239
2.	2.672	92.51	713.2	.9706	1.226	1.064	313
3.	2.672	125.26	713.2	.9706	1.226	1.064	424
4.	2.672	185.02	713.2	.9706	1.226	1.064	626
5.							

NO.	P _r	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	1.06	552	1.46	.884	73.3	53 @ 60°	.665	XXXXXX	670	378
2.	1.06	552	1.46	.884				XXXXXX		
3.	1.06	552	1.46	.884						
4.	1.06	552	1.46	.884						
5.										

NO.	P _i ²	P _w ²	P _r ²	P _i ² - P _w ²
1	1913.6	3661.7	761.8	
2	1733.9	3006.3	1417.1	
3	1414.8	2001.6	2421.9	
4	1257.1	1580.4	2843.1	
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.556$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .974$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.556$

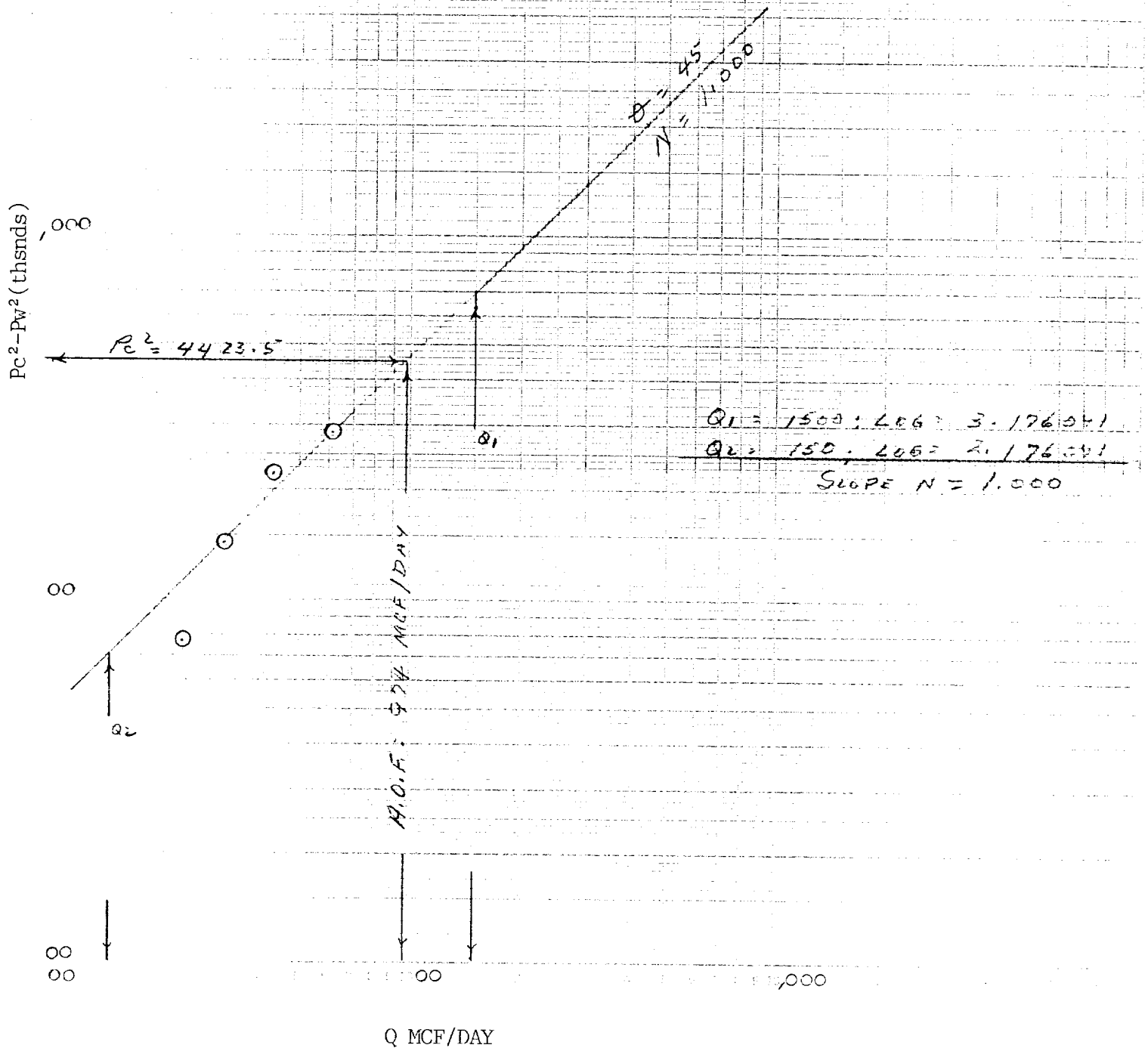
Part ID-2
6-28-91
comp & BK

Absolute Open Flow	974	Mcf/d @ 15.025	Angle of Slope	45	Slope, n	1.000
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Remarks	WELL PRODUCED 1.00 BBL 53 @ 60° CONDENSATE during test	
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Approved By Division	Conducted By	Calculated By	Checked By
	Don Hall Testore	RM	RM

Siete Oil & Gas
 Mohave, Well #1
 15 - 15S - 27E
 Chaves County, New Mexico
 05-30-91



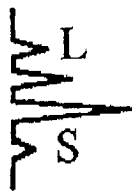
PRO WELL TESTING & WIRELINE FIELD DATA SHEET

COMPANY Siete Oil & Gas COMPANY REPRESENTATIVE Darrin Steed
 LEASE NAME & NO. Mojave Fed. #1 TEST DATE & TIME 05-30-91
 COUNTY Chaves STATE New Mexico ELEVATION _____ FORMATION Atoka
 UNIT _____ SECTION 15 TOWNSHIP 15-S RANGE 27-E
 TEST TYPE X INITIAL _____ ANNUAL _____ SPECIAL _____ TYPE WELL Single
 COMPLETION DATE _____ TD@ 8675 PBD@ NO PB PKR@ 8089.97
 CONNECTION NONE METER RUN 3.068 TAPS Flange
 CASING SIZE 5½ WT. 15.5 DIA. _____ SET@ 8675
 TUBING SIZE 2 3/8 WT. 4.7 DIA. _____ SET@ 8089.97
 PERFORATIONS FROM 8202 TO 2842
 PRODUCING THRU Tubing

TIME DATE	ELAP. HR	TBG. PRES	CASING PRES	W/H TEMP	METER PRES	OR PROVER DIFF	ORIF. TEMP	ORIF. SIZE	CHOKE SIZE	MCFD	H ² O P/H	TOTAL H ² O	OIL P/H	TOTAL OIL
5-30-91									645					
12:00		2090										START	1st	RATE
12:15		2160			700	6	92	.750	4/64	216				
12:30		1990			700	5	92	.750	4/64	197				
12:45		1915			700	7	92	.750	4/64	233				
1:00		1900			700	7	92	.750	4/64	233				
1:15		1820			700	13	92	.750	5/64	319		Start	2nd	rate
1:30		1790			700	13	92	.750	5/64	319				
1:45		1760			700	13	92	.750	5/64	319				
2:00		1720			700	12	92	.750	5/64	306				
2:15		1610			700	24	92	.750	6/64	433		Start	3rd	rate
2:30		1520			700	23	90	.750	6/64	424				
2:45		1460			700	21	88	.750	7/64	405				
3:00		1400			700	22	88	.750	7/64	414				
3:15		1340			700	38	92	.750	9/64	545		Start	4th	Rate
3:30		1270			700	43	92	.750	9/64	579				
3:45		1260			700	50	92	.750	9/64	625				
4:00		1260			700	50	92	.750	9/64	625				
4:15		1240			700	48	92	.750	9/64	612				

1 BBL CONDENSATE

53 OIL GRAVITY @ 60°



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Pro Well Testing & Wireline
Attention: Mr. Merv Buecker
P. O. Box 791
Hobbs, New Mexico 88240

SAMPLE
IDENTIFICATION: Mojavi Federal #1
COMPANY: Seite Oil & Gas Corp.
LEASE:
PLANT:

SAMPLE DATA:	DATE SAMPLED: 5/30/91 4:00PM	GAS (XX)	LIQUID ()
	ANALYSIS DATE: 05-30-91	SAMPLED BY: Floyd - Pro	
	PRESSURE - PSIG 750.00	ANALYSIS BY: Rolland Perry	
	SAMPLE TEMP. °F 100.00		
	ATMOS. TEMP. °F 90.00		

REMARKS:

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM	
Oxygen	(O2)			
Hydrogen Sulfide	(H2S)			
Nitrogen	(N2)	0.65		
Carbon Dioxide	(CO2)	0.28		
Methane	(C1)	86.54		
Ethane	(C2)	7.17	1.913	
Propane	(C3)	3.05	0.838	
I-Butane	(IC4)	0.39	0.127	
N-Butane	(NC4)	0.88	0.277	
I-Pentane	(IC5)	0.26	0.095	
N-Pentane	(NC5)	0.24	0.087	
Hexane	(C6)	0.54	0.222	
Heptanes Plus	(C7+)	0.00	0.000	
		100.00	3.559	
BTU/CU.FT. - DRY		1165		MOLECULAR WT 19.2518
AT 14.650 DRY		1161		
AT 14.650 WET		1141		26# GASOLINE - 0.496
AT 15.025 DRY		1191		
AT 15.025 WET		1170		
SPECIFIC GRAVITY -				
CALCULATED		0.665		
MEASURED		0.000		

COMPANY :		SIETE OIL AND GAS		LEASE :		MOJAVE		WELL NO. :		1		Pc = 2103.2		Pc2 = 4423.5		*	
UNIT :				SECTION :		15		TOWNSHIP :		15						*	
L :		8089		H :		8089		L/H :		1		G/GMIX :		0.706		Pt2 = 3660.3	
%CO2 :		0.28		%N2 :		0.65		H2S :				DATE :		5 30 91		Pw = 1913.6	
d :		1.995		Fr :		0.018231		GH :		5710.8		RANGE :		27		3004.0	
																1733.9	
																1997.1	
																1414.8	
																1570.5	
																1257.1	
																*	
VOL 1 :		239		PSIA 1 :		1913.2		RESV.TEMP		154.9		Pc2-Pw2=		761.8		Pw2 = 3661.7	
VOL 2 :		313		PSIA 2 :		1733.2								1417.1		3006.3	
VOL 3 :		424		PSIA 3 :		1413.2		SHUT-IN PR=		2103.2				2421.9		2001.5	
VOL 4 :		626		PSIA 4 :		1253.2								2843.1		1580.4	
																*	
				PCR :		668						n =		1.000		*	
				TCR :		392										*	
												Pc2/(Pc2-Pw2) =		5.807		*	
LINE		RATE 1				RATE 2				RATE 3				RATE 4		3.121	
																1.826	
		'1ST		'2ND		'1ST		'2ND		'1ST		'2ND		'1ST		'2ND	
																1.556	
																*	
1 QM		0.239		0.239		0.313		0.313		0.424		0.424		0.626		0.626	
2 TW		534		534		534		534		534		534		534		534	
3 Ts		614.9		614.9		614.9		614.9		614.9		614.9		614.9		614.9	
4 T		574.4		574.4		574.4		574.4		574.4		574.4		574.4		574.4	
PR (est)		2.86				2.59				2.12				1.88			
5 Z(est)		0.740		0.733		0.749		0.738		0.776		0.758		0.793		0.775	
6 TZ		425.1		421.2		430.5		423.7		445.5		435.6		455.5		445.1	
7 GH/TZ		13.434		13.557		13.267		13.478		12.818		13.109		12.538		12.832	
8 eS		1.655		1.663		1.645		1.658		1.617		1.635		1.600		1.618	
9 1-e-S		0.396		0.399		0.392		0.397		0.382		0.388		0.375		0.382	
10 Pt		1913.2		1913.2		1733.2		1733.2		1413.2		1413.2		1253.2		1253.2	
11 Pt2 /1000		3660.3		3660.3		3004.0		3004.0		1997.1		1997.1		1570.5		1570.5	
12 Fr		0.018231		0.018231		0.018231		0.018231		0.018231		0.018231		0.018231		0.018231	
13 Fc=FrTZ		7.750		7.680		7.848		7.725		8.123		7.942		8.304		8.114	
14 FcQm		1.85		1.84		2.46		2.42		3.44		3.37		5.20		5.08	
15 L/H(FcQm)		3.4		3.4		6.0		5.8		11.9		11.3		27.0		25.8	
16 Fw		11.357833		11.342611		12.364985		12.319543		14.526688		14.403708		10.13625		19.8539432	
17 Pw2		3661.7		3661.7		3006.3		3006.3		2001.7		2001.5		1580.6		1580.4	
18 Ps2		6059.9		6088.0		4944.2		4983.4		3237.0		3272.4		2529.5		2557.0	
19 Ps		2461.7		2467.4		2223.6		2232.4		1799.2		1809.0		1590.4		1599.1	
20 P		2187.4		2190.3		1978.4		1982.8		1606.2		1611.1		1421.8		1426.1	
21 Pr		3.27		3.28		2.96		2.97		2.40		2.41		2.13		2.13	
22 Tr		1.47		1.47		1.47		1.47		1.47		1.47		1.47		1.47	
23 Z		0.733		0.733		0.738		0.737		0.758		0.758		0.775		0.774	
																FORM C122-D	