

TYPE TEST: ☒ Initial ☐ Annual ☐ Special		TEST DATE: 1/31/07	
COMPANY Carmen Schmitt Inc		LEASE Clarke	
COUNTY Stafford		WELL NO. 1	
LOCATION NE SE NE	SECTION 31	TWP 11s 14w	RNG ACRES
FIELD Red Eagle	RESERVOIR SemGas	PIPELINE CONNECTION	
COMPLETION DATE	PLUG BACK DEPTH 2582	PACKER SET AT	
	TOTAL DEPTH 2582		
CASING SIZE 4.500	WT. 9.500	ID 4.090	SET AT 2649
			PERF. 2420
			TO 2428
TUBING SIZE 2.375	WT. 4.700	ID 1.995	SET AT 2460
			PERF. TO
TYPE COMPLETION (Describe) Perforated		TYPE FLUID PRODUCTION None	
PRODUCING THRU (Annulus/Tubing) Tubing		RESERVOIR TEMPERATURE F 14.4 psia	
GAS GRAVITY - Gg 0.600	% CARBON DIOXIDE 0.400	% NITROGEN 5.500	API GRAVITY OF LIQUID
VERTICAL DEPTH (H) 2424	TYPE METER CONN. Flange		METER RUN SIZE 2
REMARKS			

OBSERVED SURFACE DATA

RATE NO.	ORIFICE SIZE in.	(METER) PRESSURE psig	DIFF. (h _w) (h _t)	FLOWING TEMP. t.	WELLHEAD TEMP. t.	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w) (P _t) (P _c) psia	psig	(P _w) (P _t) (P _c) psia		
SHUT-IN						739	753	489	503	72.00	
1.	0.750	89.20	5.40	26		703	717	462	476	24.00	
2.	0.750	91.20	15.90	29		659	673	481	495	0.50	
3.	0.750	92.80	40.50	31		549	563	342	356	0.50	
4.	0.750	94.60	47.80	31		472	486	283	297	0.50	

FLOW STREAM ATTRIBUTES

RATE NO.	COEFFICIENT (F _D) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times E_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW Q Mcfd	GOR	G _m
1.	2.779	103.6	23.65	1.2910	1.0344	1.0094	88		0.600
2.	2.779	105.6	40.98	1.2910	1.0312	1.0094	153		0.600
3.	2.779	107.2	65.89	1.2910	1.0291	1.0094	245		0.600
4.	2.779	109.0	72.18	1.2910	1.0291	1.0095	269		0.600

PRESSURE CALCULATION

RATE NO.	P _t psia	P _c psia	P _w psia	(P _c) ² Thousands	(P _w) ² Thousands	PLOTING POINTS		% SHUT-IN 100 $\left[\frac{P_w - P_a}{P_c - P_a} \right]$
						(P _c) ² - (P _w) ² Thousands	Q Mcfd	
1.	476.4	753.4	717.4	567.6	514.7	52.9	88.6	95.1
2.	495.4	753.4	673.4	567.6	453.5	114.1	153.0	89.2
3.	356.4	753.4	563.4	567.6	317.4	250.2	245.6	74.3
4.	297.4	753.4	486.4	567.6	236.6	331.0	269.0	63.9

INDICATED WELLHEAD OPEN FLOW

427

Mcfd @ 14.65 psia

"n" = 0.658

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated herein and that said report is true and correct. Executed this the 6 day of Feb, 20 07

Witness (if any)

For Company

For Commission

Checked by

GAS WELL BACK PRESSURE CURVE

WELL TESTER: Trilobite Testing

TEST DATE: 1/31/07

Carmen Schmitt Inc

Clarke

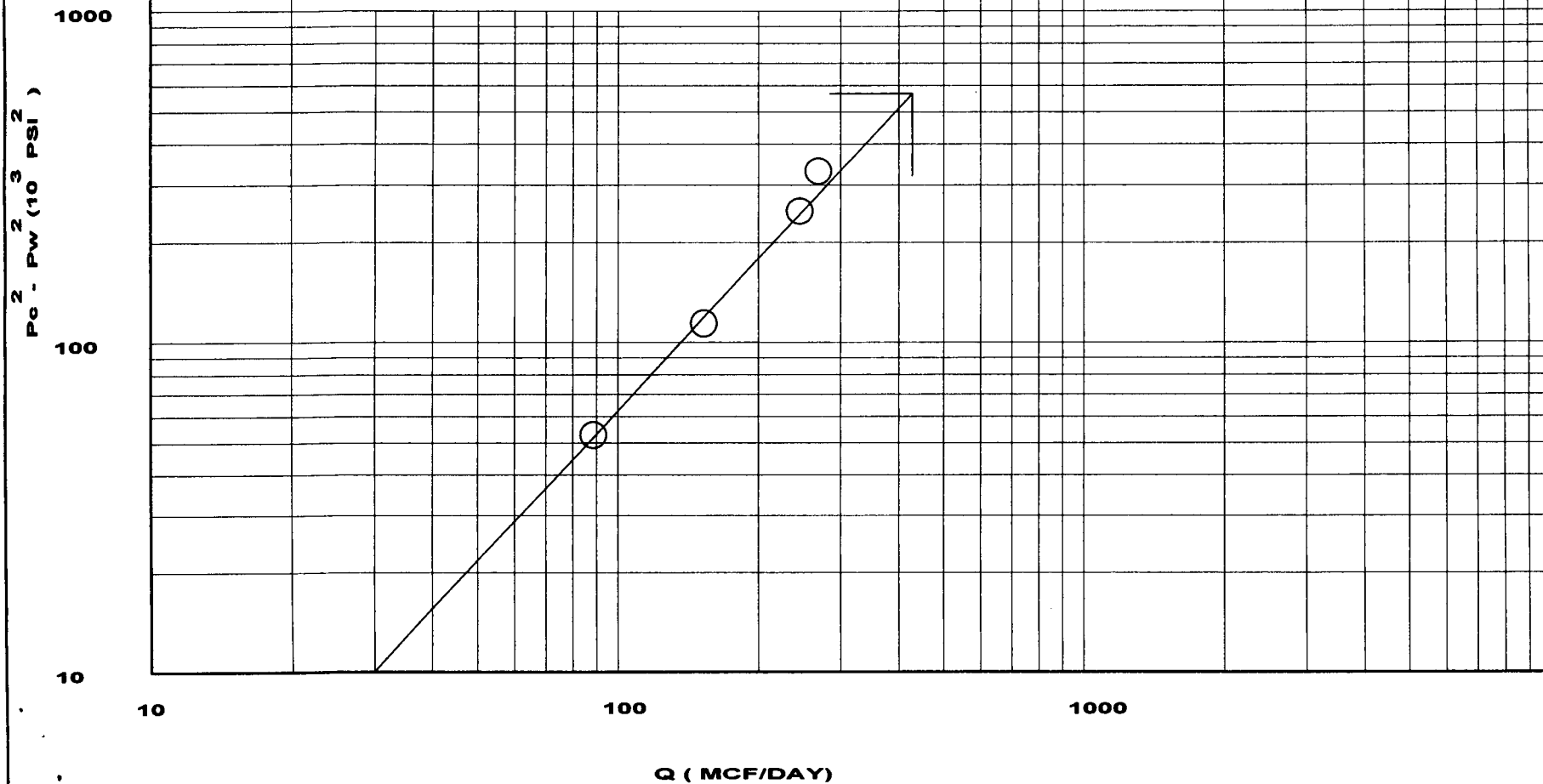
31 31s 14w

Stafford

,KS

Exponent n: 0.6577

AOF (MCF/Day): 427.



**KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM G-2
(Rev.8/98)

TYPE TEST:

☒ Open Flow
☒ Deliverability

TEST DATE: 2/07

API No. 15-185-20043-0001

Company Carmen Schmitt Inc		Lease Clarke		Well Number 1	
County Stafford	Location NE SE NE	Section 31 31s 14w	TWP 14w	RNG (E/W)	Acres Attributed
Field Red Eagle		Reservoir Red Eagle		Gas Gathering Connection SemGas	
Completion Date		Plug Back Total Depth 2582		Packer Set at	
Casing Size 4.500	Weight 9.500	Internal Diameter 4.090	Set at 2649	Perforations 2420	To 2428
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at 2460	Perforations	To
Type Completion (Describe) Perforated		Type Fluid Production None		Pump Unit or Traveling Plunger? no	
Producing Thru (Annulus/Tubing) Tubing		% Carbon Dioxide 0.301		% Nitrogen 24.959	Gas Gravity- Gg 0.698
Vertical Depth (H) 2424		Pressure Taps Flange		Meter Run Size 2	
Pressure Buildup: Shut in			TAKEN		
Well on Line: Started			TAKEN		

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H ₂ O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P _w) (P _t) (P _c)		Tubing WellHead Press. (P _w) (P _t) (P _c)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						739	753	489	503	72.0	
Flow	0.750	119.2	6.50	38		520	534	275	289	24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mcf/d	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcf/d	GOR	G _m
2.779	133.6	29.47	1.1969	1.0218	1.0105	101		0.698

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

$(P_c)^2 = 567.6$	$(P_w)^2 = 285.6$	$P_d = 15.8$	%	$(P_c - 14.4) + 14.4 =$	$(P_d)^2 = 14.21$		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\left[\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2} \right]$ or $\left[\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2} \right]$	LOG	Backpressure Curve Slope "n" ---- or ---- Assigned Standard Slope	$n \times \text{LOG}$	Antilog	Open Flow Deliverability = R x Antilog Mcf/d
567.40	282.03	2.012	0.3036	0.658	0.1997	1.584	160
553.40	282.03	1.962	0.2927	0.658	0.1925	1.558	157

OPEN FLOW 160 Mcfd @ 14.65 psia DELIVERABILITY 157 Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated herein and that said report is true and correct. Executed this the 6 day of Feb, 20 07

Witness (if any)

For Company

For Commission

Checked by

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, Inc.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 785-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 620-624-5389
Fax: 620-626-7108

Lab Number:	20070306	Analyzed:	02/02/07
Sample From:	Clarke 1	Pressure:	
Producer:	Carmen Schmitt	Temperature:	
Date:		Location:	31-31-14
Time:		County:	Stafford
Sampler:		State:	Kansas
Source:	4 Pt	Formation:	Red Eagle

	Mole %	GPM
Helium	He: 0.886	0.000
Hydrogen	H2: 0.012	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 24.959	0.000
Carbon Dioxide	CO2: 0.301	0.000
Methane	C1: 68.766	0.000
Ethane	C2: 3.170	0.848
Propane	C3: 1.109	0.306
Iso Butane	iC4: 0.244	0.080
Normal Butane	nC4: 0.274	0.086
Iso Pentane	iC5: 0.123	0.045
Normal Pentane	nC5: 0.034	0.012
Hexanes Plus	C6+: 0.122	0.053

TOTAL: 100.000 1.430
Z Fact: 0.9984
SP.GR.: 0.6976
BTU (SAT): 797.0 @ 14.73 psia
BTU (DRY): 811.2 @ 14.73 psia
OCTANE RATING: 94.4

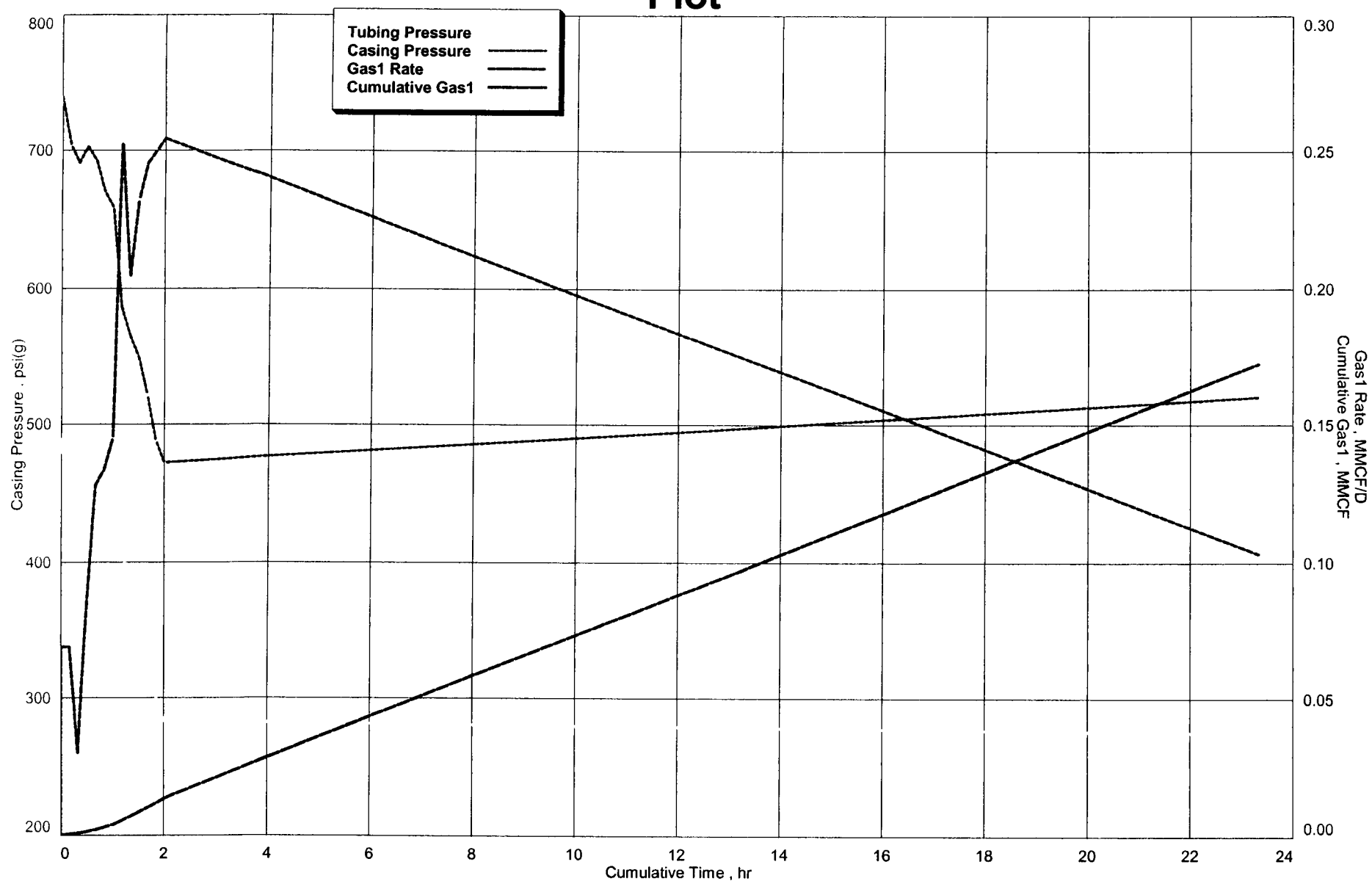
COMMENTS:

0.000

Carmen Schmitt Inc
NE SE NE Sec 31 21s 14w Stafford KS
Start Test Date: 2007/01/31
Final Test Date: 2007/02/01

Clarke #1

Plot



Carmen Schmitt Inc
 NE SE NE Sec 31 21s 14w Stafford KS
 Start Test Date: 2007/01/31
 Final Test Date: 2007/02/01

Clarke #1

FieldNotes

Field Measurements

	Clock	Tubing	Casing	Diff1	Static1	Meter1	Gas1	Cum.		
Date	Time	Comments	Pres	Pres	Pres	Pres	Temp	Orifice1	Rate	Gas1
yyyy/mm/dd	hh:mm:ss		psi(g)	psi(g)	in of H2O	psi(a)	°F	in	MMCF/D	MMCF
1	2007/01/31	10:40:00	shut in							
2		10:40:00			0.00	0.00	0.00		0.000	0.000
3		10:50:00	430.00	704.00	3.70	101.50	25.60	0.750	0.069	0.000
4		11:00:00	468.00	691.00	0.70	102.40	26.50		0.030	0.001
5		11:10:00	1st pt							
6		11:10:00	462.00	703.00	5.40	103.60	26.50		0.084	0.001
7		11:20:00	466.00	692.00	12.50	104.50	27.20		0.128	0.002
8		11:30:00	470.00	670.00	13.60	104.80	28.40		0.133	0.003
9		11:40:00	2nd pt							
10		11:40:00	481.00	659.00	15.90	105.60	29.40		0.144	0.004
11		11:50:00	416.00	586.00	48.50	106.40	31.00		0.253	0.005
12		12:00:00	377.00	565.00	31.70	106.60	31.10		0.205	0.007
13		12:10:00	3rd pt							
14		12:10:00	342.00	549.00	40.50	107.20	31.20		0.232	0.008
15		12:20:00	317.00	521.00	45.00	108.00	31.50		0.246	0.010
16		12:30:00	302.00	488.00	46.30	108.70	31.50		0.250	0.012
17		12:40:00	4th pt							
18		12:40:00	283.00	472.00	47.80	109.00	31.50		0.254	0.013
19	2007/02/01	10:00:00	275.00	520.00	6.50	133.60	38.00		0.103	0.172
20		10:00:00	1 pt							

2007/01/31 10:40:00 To 2007/02/01 10:00:00

Gas	0.172	Cum.	0.172 MMCF
Oil	0.000	Cum.	0.000 bbl
Water	0.000	Cum.	0.000 bbl
Condensate	0.000	Cum.	0.000 bbl

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- ☐ Open Flow
☐ Deliverability

(See Instructions on Reverse Side)

Test Date:

API No. 15
-185-20043-0001

Company Carmen Schmitt Inc.		Lease Clarke		Well Number 1	
County Stafford	Location NE SE NE	Section 31	TWP 21S	RNG (E/W) 14W	Acres Attributed
Field		Reservoir Red Eagle		Gas Gathering Connection SemGas	
Completion Date 1/11/07		Plug Back Total Depth 2582'		Packer Set at	
Casing Size 4.5"	Weight 9.5#	Internal Diameter	Set at 2649'	Perforations 2420'	To 2428'
Tubing Size 2 3/8"	Weight	Internal Diameter	Set at 2460'	Perforations	To
Type Completion (Describe) Perforated		Type Fluid Production None		Pump Unit or Traveling Plunger? Yes / No No	
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide		% Nitrogen	Gas Gravity - G _g
Vertical Depth(H)		Pressure Taps		(Meter Run) (Prover) Size	

Pressure Buildup: Shut in _____ 20 _____ at _____ (AM) (PM) Taken _____ 20 _____ at _____ (AM) (PM)
Well on Line: Started _____ 20 _____ at _____ (AM) (PM) Taken _____ 20 _____ at _____ (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in _____ Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In											
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _p) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207

(P_d)² = _____

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ :

(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

Open Flow Mcfd @ 14.65 psia Deliverability Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the _____ day of _____, 20 _____.

Witness (if any)

For Company

For Commission

Checked by