Form G-2
(Rev. 7/03)

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:
(See Instructions on Reverse Side)

☑ Open Flow
☑ Deliverabilty

Test Date: 1/13 to 1/14/12

API No. 15: 047-21597-00-00

Company	Lease	Well Number
McCoy Petroleum	Smith Trust C	1-34

County	Location	Section	TWP	RNG (E/W)	Acres Attributed
Edwards	NWSWSE	34	25S	19W	

Field	Reservoir	Gas Gathering Connection
	Miss.	SemGas

Completion Date	Plug Back Total Depth	Packer Set at
4/25/11		none

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
4.5	10.5		4742	open hole 4742	4753

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2.375			4691		

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger? Yes / No
single	Oil & SW	no

Producing Thru (Annulus / Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity - G_g
tubing	.1887	8.2898	.640

Vertical Depth(H)	Pressure Taps	(Meter Run) (Prover) Size
	flange	2"

Pressure Buildup: Shut in 1/10 20 12 at 9:45 am (AM) (PM) Taken 1/13 20 12 at 9:45 am (AM) (PM)

Well on Line: Started 1/13 20 12 at 10:15 am (AM) (PM) Taken 1/14 20 12 at 10:15 am (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in 72 Hours

Static / Dynamic Property	Orifice Size (Inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H_2O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Casing Wellhead Pressure psia	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Tubing Wellhead Pressure psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In						875.1	889.5	740.1	754.5	72	
Flow	.750	96	4.0	32		728.4	742.8	466.8	481.2	24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F_b) (F_p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m x h}$	Gravity Factor F_g	Flowing Temperature Factor F_{tt}	Deviation Factor F_{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G_m
2.779	110.4	21.01	1.250	1.028	————	75		.640

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2$ = 791.210 : $(P_w)^2$ = 569.270 : P_d = ____ % $(P_c - 14.4) + 14.4$ = ____ : $(P_a)^2$ = 0.207 $(P_d)^2$ = ____

$(P_c)^2 - (P_a)^2$ 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: $\frac{P_c^2 - P_w^2}{}$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
791.003	221.94	3.564	.5519	.660	.3642	2.31	173

Open Flow 173 Mcfd @ 14.65 psia X .50 = Deliverability 86.5 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 31st day of January, 20 12.

Witness (if any)

For Company

For Commission

Checked by

RECEIVED
FEB 07 2012
KCC WICHITA

STATE OF KANSAS - CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM CG-1 Rev.

TYPE TEST: X Initial ☐ Annual ☐ Special TEST DATE: 1/13/12

COMPANY	LEASE	WELL NO:
McCoy Petroleum	Smith Trust C	1-34

COUNTY	LOCATION	SECTION	TWP	RNG (E/W)	ACRES
Edwards	NWSWSE	34	25S	19W	

API WELL NUMBER	RESERVOIR	PIPELINE CONNECTION
15. 047-21597-00-00	Miss.	SemGas

COMPLETION DATE	PLUG BACK TOTAL DEPTH	PACKER SET AT
4/25/11		

CASING SIZE	WT.	ID.	SET AT	PERF.	TO
4.5			4742	open hole 4742	4753

TUBING SIZE	WT.	ID.	SET AT	PERF.	TO
2.375			4691		

TYPE COMPLETION (Describe)	TYPE FLUID PRODUCTION	
single	Oil & SW	

PRODUCING THRU	RESERVOIR TEMPERATURE °F	BAR PRESS -P_a 14.4 Psia
tubing		

GAS GRAVITY - G_g	% CARBON DIOXIDE	% NITROGEN	API GRAVITY OF LIQUID
.640	.1887	8.2898	

VERTICAL DEPTH (H)	TYPE METER CONNECTION	(METER RUN) (PROVER) SIZE
	flange	2"

REMARKS
Tested into SemGas pipeline (EFM)

OBSERVED DATA — DURATION OF SHUT-IN 72 HR.

RATE NO.	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE Psig	DIFF. (h_w) (h_g)	FLOWING TEMP t	WELL-HEAD TEMP. t	CSG WELLHEAD PRESS. Psig	CSG WELLHEAD PRESS. (P_w)(P_t)(P_a) Psia	TBG WELLHEAD PRESS. Psig	TBG WELLHEAD PRESS. (P_w)(P_t)(P_a) Psia	FLOW DURATION (HOURS)	LIQUID PROD. Bbls.
SHUT IN						875.1	889.5	740.1	754.5	72	
1	.750	90	7.7	49		835.7	850.1	624.4	638.8	.75	
2	"	94	16.6	51		800.6	815.0	573.0	587.4	.75	
3	"	97	28.7	50		757.0	771.4	519.7	534.1	.75	
4	"	100	44.6			716.0	730.4	473.5	487.9	.75	
5											

RATE OF FLOW CALCULATIONS

RATE NO.	COEFFICIENT (F_b) (F_p) Mcfd	(METER) (PROVER) PRESSURE Psia	PRESS EXTENSION $\sqrt{P_m * h_w}$	GRAVITY FACTOR F_g	FLOWING TEMP FACTOR F_t	DEVIATION FACTOR F_{pv}	RATE OF FLOW Q Mcfd	GOR (ft^3/Bbl)	G_m
1	2.779	104.4	28.35	1.250	1.011	---	100		
2	"	108.4	42.42	"	1.009	---	149		
3	"	111.4	56.54	"	1.010	---	198		
4	"	114.4	71.42	"	1.011	---	251		
5									

PRESSURE CALCULATIONS

RATE NO.	P_t Psia	P_c Psia	P_w Psia	$(P_c)^2$ THOUSANDS	$(P_w)^2$ THOUSANDS	PLOTTING POINTS $(P_c)^2 - (P_w)^2$ THOUSANDS	PLOTTING POINTS Q Mcfd	% SHUT-IN $100 \frac{(P_c - P_w)}{(P_c - P_a)}$
1		889.5	850.1	791.2	722.7	68.5	100	95.5
2		"	815.0	"	664.2	127.0	149	91.6
3		"	771.4	"	595.0	196.2	198	86.7
4		"	730.4	"	533.4	257.8	251	82.1
5								

INDICATED WELLHEAD OPEN FLOW 500 Mcfd @ 14.65 Psia "n" = .660

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 31st day of January 2012.

Witness (if any)

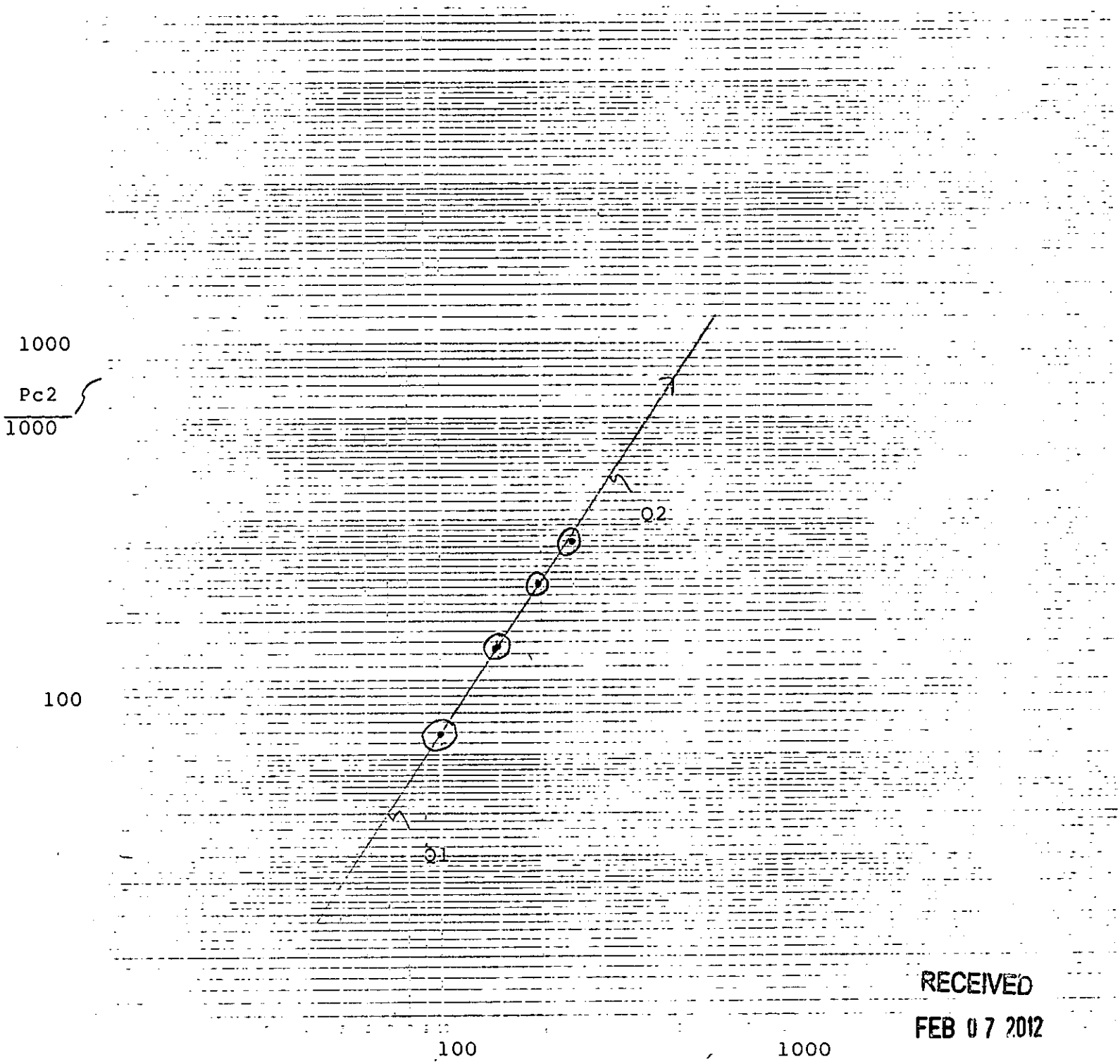
For Company
Cem, Inc.

For Commission

Checked By

RECEIVED
FEB 07 2012
KCC WICHITA

McCoy Petr. - Smith Trust C 1-34
NWSWSE 34-25S-19W
Edwards County
Tested 1/13/12



Q2 - 320 - Log: 2.505
Q1 - 70 - Log: 1.845

"n" = .660

FIELD DATA SHEET

Pumper:

Phone#:

Type Test: ☒ Initial ☐ Annual ☐ Special — Test Date: 1/13/12

API: 15-047-21597-0000

Company: McCoy Petr — Connection: SEMGAS

Field — Reservoir: Miss — Location: NW SW SE

Completion Date: 4/25/11 — Total Depth — Plug Back TD — Elevation

Farm or Lease Name: SMITH TRUST C

Csg. Size: 4.5 — Wt.: 10.5 — d — Set At: 4742 — Perforations: From: OPEN HOLE — To: 4742 - 4753

Well No.: 1-34

Tbg. Size: 2.375 — Wt. — d — Set At: 4691 — Perforations: From — To

Sec.: 34 — Twp - Blk: 25 — Rge - Sw: 19

Type Completion (Describe): SINGLE — Packer Set At: NONE

County or Parish: EDWARDS

Producing Thru: TBG — Reservoir Temp. F @ — Mean Annual Temp. F: 60 — Baro. Press. - P_a: 14.4

State: KS

G_g — % CO_2 — % N_2 — % H_2S — Prover — Meter Run: 2" — Taps: F/C

DATE Time of Reading	ELAP. TIME Hrs.	WELLHEAD WORKING PRESSURE Tbg. Psig	Csg. Psig	ΔP	METER OR PROVER Pressure. Psig	Diff.	Temp. F	Orifice	REMARKS (Include liquid production data: Type - API Gravity - Amount)
9:45	72	740.1	875.1						
10:15								.750	COMMENCE TEST (NO LINE HEATER) FLOW CONTROL W/BALL VALVE @ SEPARATOR INLET
:30		644.5	852.1		92	7.6	45		2.5% 853
:45		628.8	840.9		93	7.7	48		5.0% 831
:00		624.4	835.7		90	7.7	49		7.5% 809
:15		592.3	813.0		91	12.3	48		10.0% 788
:30		578.5	803.4		91	16.8	50		12.5% 766
:45		573.0	800.6		94	16.6	51		15.0% 744
:00		544.5	778.3		95	29.1	51		17.5% 722
:15		536.2	765.7		96	29.0	50		20.0% 700
:30		519.7	757.0		97	28.7	50		25.0% 656
:45		503.1	735.7		98	46.1	49		
:00		490.8	722.4		94	45.0	49		
:15		473.5	716.0		100	44.6	49		
1:15			716.0		94	6.6	51		SET FLOW RATE FOR 1-HT TEST 91 mcf/D
9:45		466.8	728.4		96	7.0	32		
	0.0								Begin 30 minute wellhead buildup
	0.5								
	1.0								
	1.5								
	2.0								
	3.0								
	4.0								
	5.0								
	6.0								
	7.0								
	8.0								
	9.0								
	10.0								
	15.0								
	20.0								
	25.0								
	30.0								

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FEB 07 2012
KCC WICHITA

MEASUREMENT SOLUTIONS INC.
6705 East 81st Street Suite 155 Tulsa, OK 74133
Telephone 918-493-2700 Fax 918-493-2704

5/31/2011

GAS ANALYSIS REPORT

METER NUMBER :	3114855	**SAMPLE TYPE :**	SPOT
METER NAME :	SMITH TRUST	**SAMPLE DATE :**	05/24/2011
METER ID :	SEM GAS	**SAMPLE PRES / TEMP :**	102 / 63
PRODUCER :		**SAMPLED BY :**	MO
COMPANY	SEM GAS	**EFFECTIVE DATE :**	05/01/2011

COMPONENT		PERCENT	GPM VALUES @ 14.65		GPM VALUES @ 14.73	
Helium	He	0.6911				
Oxygen	O2	0.0000				
Hydrogen Sulfide	H2S	0.0000				
Carbon Dioxide	CO2	0.1887				
Nitrogen	N2	8.2898				
Methane	C1	84.6273				
Ethane	C2	3.7647	**C2**	1.0008	**C2**	1.0063
Propane	C3	1.3346	**C3**	0.3655	**C3**	0.3675
I-Butane	iC4	0.2270	**iC4**	0.0738	**iC4**	0.0743
N-Butane	nC4	0.3953	**nC4**	0.1239	**nC4**	0.1246
I-Pentane	iC5	0.1189	**iC5**	0.0433	**iC5**	0.0435
N-Pentane	nC5	0.1147	**nC5**	0.0413	**nC5**	0.0415
Hexane Plus	C6+	0.2479	**C6+**	0.1076	**C6+**	0.1081
	TOTALS	100.0000		1.7562		1.7658

BTU VALUES @ 14.65		BTU VALUES @ 14.73	
REAL DRY	996.26	REAL DRY	1001.70
REAL WET	978.83	REAL WET	984.17

SPECIFIC GRAVITY

REAL DRY	0.6398
REAL WET	0.6396

COMPRESSIBILITY FACTOR

Z FACTOR DRY	0.9979
Z FACTOR WET	0.9979

GALLONS PER THOUSAND

GPM TOTALS @ 14.65	
C2 + GPM	1.7562
C3 + PGM	0.7554
C4 + GPM	0.3899
C5 + GPM	0.1922

GPM TOTALS @ 14.73	
C2 + GPM	1.7658
C3 + PGM	0.7595
C4 + GPM	0.3920
C5 + GPM	0.1931

COMMENTS :