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: 3/19 to 3/20/12

API No. 15: 151-20388-00-01

Company	Lease	Well Number
L.D.Drilling, Inc.	Koenemann "OWWO"	1

County	Location	Section	TWP	RNG (E/W)	Acres Attributed
Pratt	CSWNW	28	26S	11W	

Field	Reservoir	Gas Gathering Connection
Haynesville	Arbuckle	Lumen

Completion Date	Plug Back Total Depth	Packer Set at
6/23/77		none

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
5.5			4344	4278	4280

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2.375			4319		

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger? Yes / No
single	none	yes - pump unit

Producing Thru (Annulus / Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity - G_g
annulus	.194	6.852	.679

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

Pressure Buildup: Shut in 3/16 20 12 at 9:15 am (AM) (PM) Taken 3/19 20 12 at 9:15 am (AM) (PM)

Well on Line: Started 3/19 20 12 at 9:45 am (AM) (PM) Taken 3/20 20 12 at 9:45 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 (P_w) or (P_t) or (P_c) psia	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In						659	673.4			72	
Flow	.750	179	3.8	49		616	630.4			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	193.4	27.11	1.214	1.011	1.019	94		.679

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2$ = 453.467 : $(P_w)^2$ = 397.404 : 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: $\frac{P_c^2 - P_w^2}{\quad}$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
453.260	56.063	8.085	.9077	.740	.6717	4.70	442

Open Flow 442 Mcfd @ 14.65 psia X .50 = Deliverability 221 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 20th day of March, 20 12.

Witness (if any)

For Company

For Commission

Checked by

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KCC WICHITA

STATE OF KANSAS - CORPORATION COMMISSION

FORM CG-1 Rev.

MULTIPOINT BACK PRESSURE TEST

TYPE TEST: ☒Initial ☐Annual ☐Special TEST DATE: 3/19/12

COMPANY: L.D.Drilling, Inc. LEASE: Koenemann "OWWO" WELL NO: 1

COUNTY: Pratt LOCATION: CSWNW SECTION: 28 TWP: 26S RNG (E/W): 11W ACRES:

API WELL NUMBER: 15- 151-20388-00-01 RESERVOIR: Arbuckle PIPELINE CONNECTION: Lumen

COMPLETION DATE: 6/23/77 PLUG BACK TOTAL DEPTH: 4344 PACKER SET AT: none

CASING SIZE: 5.5 WT: ID: SET AT: 4344 PERF.: 4278 TO: 4280

TUBING SIZE: 2.375 WT: ID: SET AT: 4319 PERF.: TO:

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

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

GAS GRAVITY - G_g: .679 % CARBON DIOXIDE: .194 % NITROGEN: 6.852 API GRAVITY OF LIQUID

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

REMARKS: Tested into Lumen pipeline (250" EFM)

OBSERVED DATA

DURATION OF SHUT-IN 72 HR.

RATE NO.	ORIFICE SIZE in	(METER) (PROVER) PRESSURE Psig	DIFF. (h_w) (h_d)	FLOWING TEMP t	WELL-HEAD TEMP. t	CSG WELLHEAD PRESS. Psig	CSG WELLHEAD PRESS. $(P_w)(P_t)(P_d)$ Psia	TBG WELLHEAD PRESS. Psig	TBG WELLHEAD PRESS. $(P_w)(P_t)(P_d)$ Psia	FLOW DURATION (HOURS)	LIQUID PROD. Bbls.
SHUT IN						659	673.4			72	
1	.750	189	23.6	50		629	643.4			.75	0
2	"	200	50.8	49		610	624.4			.75	0
3	"	204	85.4	48		581	595.4			.75	0
4	"	207	136.0	48		552	566.4			.75	0
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	203.4	69.28	1.214	1.010	1.021	241		
2	"	214.4	104.36	"	1.011	1.022	354		
3	"	218.4	136.57	"	1.012	1.022	477		
4	"	221.4	173.52	"	1.012	1.024	606		
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 $100 \frac{(P_w - P_d)}{(P_c - P_d)}$
1		673.4	643.4	453.5	413.9	39.6	241	95.5
2		"	624.4	"	389.8	63.7	354	92.7
3		"	595.4	"	354.5	99.0	477	88.4
4		"	566.4	"	320.8	132.7	606	84.1
5								

INDICATED WELLHEAD OPEN FLOW 1500 Mcfd @ 14.65 Psia "n" = .740

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 23rd day of March, 2012

Witness (if any)

For Company

For Commission

Checked By

(Rev.10/96)

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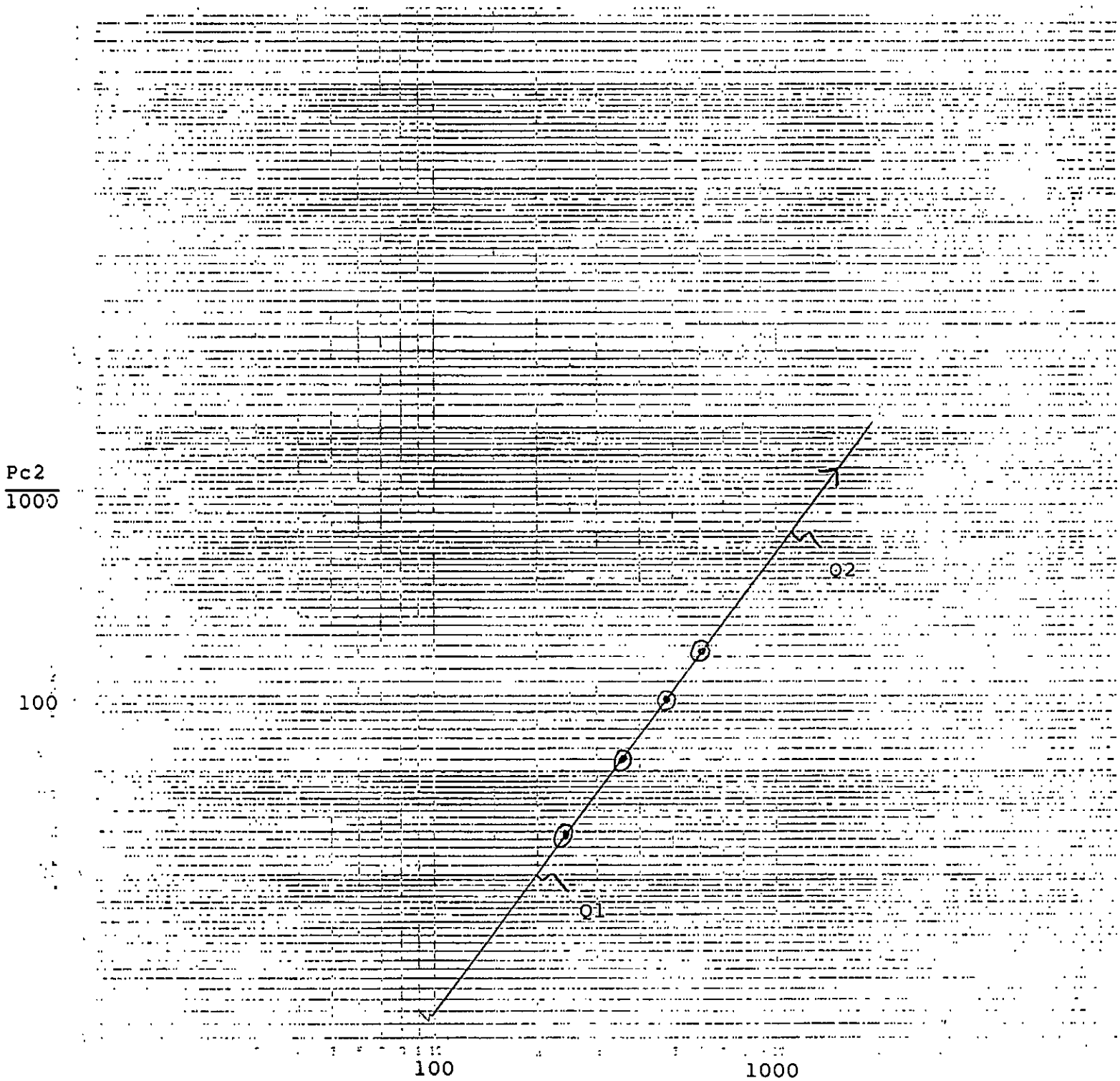
KCC WICHITA

L.D.Drilling, Inc. - Koenemann "OWWO" #1
CSWNW 28 - 26S - 11W
Pratt County
Tested 3/19/12



Q2 - 1100 - Log: 3.041
Q1 - 200 - Log: 2.301

"n" = .740

FIELD DATA SHEET

Pumper:

Phone#:

Type Test: ☒ Initial ☐ Annual ☐ Special Test Date 3/19/12

Company LD DRLG Connection LUMEN

Field Reservoir Location C SW NW

Completion Date Total Depth Plug Back TD Elevation

Farm or Lease Name KOENEMANN TRUST

Csg. Size Wt. d Set At Perforations: From To

Well No. 1

Tbg. Size Wt. d Set At Perforations: From To

Sec. 28 Twp - Rge 26S - 11W

Type Completion (Describe) SINGLE

Packer Set At NONE

County or Parish PRATT

Producing Thru CSG Reservoir Temp. F @ Mean Annual Temp. F 60 Baro. Press. - P_a 14.4

State

G_g .679 % CO_2 .194 % N_2 6.852 % H_2S Prover Meter Run 2 Taps FLG

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)
9:15	12		659						
9:45								.750	COMMENCE TEST
:00			646		174	18.8	51		
:15			638		188	23.9	50		
:30			629		189	23.6	50		
:45			620		198	52.3	49		
:00			614		199	51.1	49		
:15			610		200	50.8	49		
:30			598		202	89.1	49		2.5% 643
:45			589		203	86.3	48		5.0% 626
:00			581		204	85.2	48		7.5% 610
									10.0% 593
:15			570		205	139.2	48		12.5% 577
:30			561		206	137.1	48		15.0% 560
:45			552		207	134.0	48		17.5% 544
									20.0% 527
									25.0% 494
1:00			609						SET FLOW RATE FOR LPT TEST @ 325 MCFD
9:45			616		179	3.8	49		BALL VALVE CONTROLLING FLOW PARTIALLY FROZE OFF.
	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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MAR 28 2012

KCC WICHITA

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

12/7/2011

GAS ANALYSIS REPORT

METER NUMBER :	22205	**SAMPLE TYPE :**	SPOT
METER NAME :	KONEMANN	**SAMPLE DATE :**	11/29/2011
METER ID :	LD DRILLING	**SAMPLE PRES / TEMP :**	163 / 62
PRODUCER :		**SAMPLED BY :**	MM
COMPANY	LD DRILLING	**EFFECTIVE DATE :**	11/01/2011

LOCATION : SEC. 28-26S-11W PRATT COUNTY

COMPONENT		PERCENT
Helium	He	0.2162
Oxygen	O2	0.0000
Hydrogen Sulfide	H2S	0.0000
Carbon Dioxide	CO2	0.1937
Nitrogen	N2	6.8523
Methane	C1	82.4822
Ethane	C2	4.9705
Propane	C3	2.8206
I-Butane	iC4	0.4019
N-Butane	nC4	1.1527
I-Pentane	iC5	0.2401
N-Pentane	nC5	0.3284
Hexane Plus	C6+	0.3414
	TOTALS	100.0000

BTU VALUES @ 14.65	
REAL DRY	1082.35
REAL WET	1063.40

BTU VALUES @ 14.73	
REAL DRY	1088.26
REAL WET	1069.21

GPM VALUES @ 14.65		GPM VALUES @ 14.73	
C2	1.3214	C2	1.3286
C3	0.7724	C3	0.7766
iC4	0.1307	iC4	0.1315
nC4	0.3614	nC4	0.3634
iC5	0.0874	iC5	0.0879
nC5	0.1183	nC5	0.1189
C6+	0.1481	C6+	0.1489
	2.9397		2.9558

SPECIFIC GRAVITY	
REAL DRY	0.6790
REAL WET	~~0.6781~~

COMPRESSIBILITY FACTOR	
Z FACTOR DRY	0.9974
Z FACTOR WET	0.9974

GALLONS PER THOUSAND

GPM TOTALS @ 14.65	
C2 + GPM	2.9397
C3 + PGM	1.6183
C4 + GPM	0.8459
C5 + GPM	0.3538

GPM TOTALS @ 14.73	
C2 + GPM	2.9558
C3 + PGM	1.6272
C4 + GPM	0.8506
C5 + GPM	0.3557

COMMENTS :