

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
- Deliverability

Test Date:
4/18 to 4/19/11

API No. 15
033-21576 - 0000

Company Redland Resources, LLC		Lease Perry		Well Number 5-8	
County Comanche	Location N/2 S/2 SE NE	Section 05	TWP 34S	RNG (E/W) 16W	Acres Attributed
Field Ham		Reservoir Oswego		Gas Gathering Connection Oneok	
Completion Date 2/04/11		Plug Back Total Depth 4860 CIBP		Packer Set at none	
Casing Size 4.5	Weight	Internal Diameter	Set at 5073	Perforations 4753	To 4763
Tubing Size 2.375	Weight	Internal Diameter	Set at 4448	Perforations	To
Type Completion (Describe) single		Type Fluid Production SW		Pump Unit or Traveling Plunger? Yes / No no	
Producing Thru (Annulus / Tubing) tubing		% Carbon Dioxide .1054		% Nitrogen 1.1585	
Vertical Depth(H)		Pressure Taps flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 4/15 20 11 at 9:00 am (AM) (PM) Taken 4/18 20 11 at 9:00 am (AM) (PM)					
Well on Line: Started 4/18 20 11 at 9:45 am (AM) (PM) Taken 4/19 20 11 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 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						1342	1356.4	1342	1356.4	72	
Flow	1.125	63	10.4	57		1011	1025.4	923	937.4	24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _v) (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
6.557	77.4	28.37	1.278	1.003	-----	238		.612

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 1839.820 ; (P_w)² = 1051.445 ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_s)² = 0.207 ; (P_d)² = _____

(P _c) ² - (P _s) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _s 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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_s^2}$	Backpressure Curve Slope = "n" Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
1839.613	788.375	2.333	.3679	.712	.2619	1.83	436

Open Flow **436** Mcfd @ 14.65 psia X .50 = Deliverability **218** 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 29th day of April, 20 11.

Witness (if any)

For Commission

For Company

Checked by

RECEIVED

MAY 12 2011

KCC WICHITA

STATE OF KANSAS - CORPORATION COMMISSION

FORM CG-1

API 15-033-21576

MULTIPOINT BACK PRESSURE TEST

TYPE TEST: Initial Annual Special TEST DATE: 4/18/11

COMPANY: Redland Resources, LLC LEASE: Perry WELL NO.: 5-8

COUNTY: Comanche LOCATION: N/2 S/2 SE NE SECTION: 05 TWP: 34S RNG: 16W ACRES:

FIELD: Ham RESERVOIR: Oswego PIPELINE CONNECTION: Oneok

COMPLETION DATE: 2/04/11 PLUG BACK TOTAL DEPTH: 4860 CIBP PACKER SET AT: none

CASING SIZE: 4.5 WT. ID. SET AT: 5073 PERF. TO: 4763

TUBING SIZE: 2.375 WT. ID. SET AT: 4448 PERF. TO:

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

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

GAS GRAVITY - G_g: .612 % CARBON DIOXIDE: .1054 % NITROGEN: 1:1585 API GRAVITY OF LIQUID:

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

REMARKS: Tested into pipeline EFM (250")

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	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											
1	1.125	63	19.1	79		1342	1356.4	1342	1356.4	72	
2	"	70	36.1	86		1286	1300.4	1283	1297.4	75	0
3	"	74	58.8	87		1241	1255.4	1233	1247.4	75	0
4	"	77	85.3	82		1187	1201.4	1174	1188.4	75	0
5						1133	1147.4	1112	1126.4	75	trace

RATE OF FLOW CALCULATIONS

RATE NO.	COEFFICIENT (F _b)(F _p) Mofd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m z h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW Q Mofd	GOR	G _m
1	6.557	77.4	38.45	1.278	.9822	--	316		
2	"	84.4	55.19	"	.9759	--	451		
3	"	88.4	72.09	"	.9750	--	589		
4	"	91.4	88.29	"	.9795	--	725		
5									

PRESSURE CALCULATIONS

RATE NO.	P _t psia	P _c psia	P _w psia	(P _c) ² THOUSANDS	(P _w) ² THOUSANDS	PLOTING POINTS		100 $\left[\frac{P_w - P_a}{P_c - P_a} \right]$
						(P _c) ² - (P _w) ² THOUSANDS	Q Mofd	
1	1297.4	1356.4	1300.4	1839.8	1691.0	148.8	316	95.8
2	1247.4	"	1255.4	"	1576.0	263.8	451	92.5
3	1188.4	"	1201.4	"	1443.3	396.5	589	88.5
4	1126.4	"	1147.4	"	1316.5	523.3	725	84.6
5								

INDICATED WELLHEAD OPEN FLOW 1,750

Mofd @ 14.65 psia

"n" = .712

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 29th day of April 2011

RECEIVED

Witness (if any)

For Commission

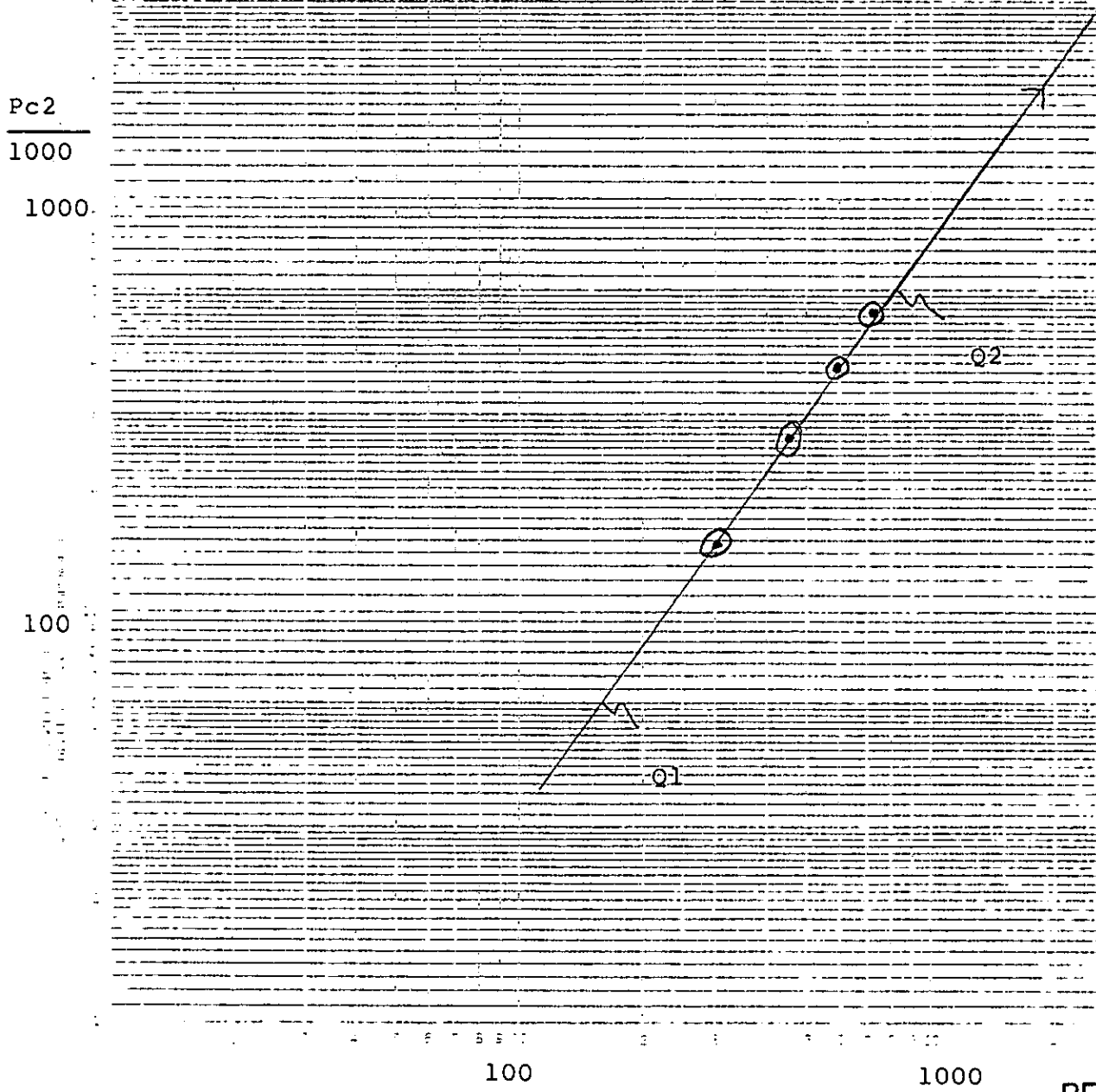
MAY 12 2011

KCC WICHITA

For Company

Checked by

Redland Resources, LLC - Perry 5-8
N/2 S/2 SE NE 05-34S-16W
Comanche County
Tested 4/18/11



Q2 - 825 - Log: 2.916
Q1 - 160 - Log: 2.204

"n" = .712

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MAY 12 2011

KCC WICHITA

Daily Meter Analysis Summary

460053 - PERRY 5-8

April 2011

Pressure Base: 14.65 Atmos Pressure: 14.40 Pressure: 75.3
 Temp Base: 60.00 Contract Day: 1 Temperature: 58.1
 Contract Hour: 7

Day	Relative Density	Dry Heating Value	Wet Heating Value	As Del Heating Value	CO2	N2	C1	C2	C3	iC4	nC4	iC5	nC5	C6	C7	C8	C9	C10	HCDP	CCT	Wobbe
1	0.6656	1108.75	1089.34		0.099	4.059	86.386	4.139	2.476	0.357	1.097	0.284	0.318	0.609	0.000	0.000	0.000	0.000			1367.29
2	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
3	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
4	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
5	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
6	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
7	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
8	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
9	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
10	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
11	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
12	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
13	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
14	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
15	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
16	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
17	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
18	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
19	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
20	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
21	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
22	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
23	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
24	0.6708	1113.76	1094.27		0.098	4.339	85.791	4.180	2.588	0.374	1.166	0.300	0.338	0.640							1367.29
Avg	0.6705	1113.45	1093.96		0.098	4.322	85.829	4.177	2.581	0.373	1.162	0.299	0.337	0.638	0.000	0.000	0.000	0.000			1367.29

*USEO MORE CURRENT ANALYSIS FROM REDLAND RES. METER (GFM)
 TO CALCULATE TEST RESULTS - PAPER COPY NOT AVAILABLE.*

RECEIVED
 MAY 12 2011
 KCC WICHITA

*** End of Report***

FIELD DATA SHEET

Pumper:

Phone#: 580-334-7013

Type Test: Initial Annual Special Test Date: 4/18/11

Company: REDLAND RESOURCES, INC Connection: ONGOR

Field: Reservoir Location:

Completion Date: Total Depth: Plug Back TD: Elevation: Farm or Lease Name: PERRY

Csg. Size: W. d Set At: Perforations: From: To: Well No.: 5-8

Tbg. Size: W. d Set At: Perforations: From: To: Sec. Top - Blk Rgs - Sw
05 345 14W

Type Completion (Describe): SINGLE Packer Set At: NONE County or Parish: COMANCHE

Producing Thru: TB6 Reservoir Temp. F: Mean Annual Temp. F: 60 Duro. Press. - P: 14.4 State: KS

G_s: .612 % CO₂: .1054 % N₂: 1.1585 % H₂S: Prover: Meter Run: 2 Taps: FLG

DATE	ELAP. TIME	WELLHEAD WORKING PRESSURE			METER OR PROVER				REMARKS (Include liquid production data) Type - API Gravity - Amount
		Tbg. Psig	Csg. Psig	Δ P	Pressure Psig	Diff.	Temp. F	Orifice	
4:45	72	1271	1272						4/14/11 LINE HEATER WOULD NOT STAY LT 50-60 MPH WIND GUSTS - POST LOMED TEST
4/18/11									
9:00	72	1342	1342					1.125	LIT Line HEATER @ 9:15 COMMENCE TEST
9:45									
:00		1324	1326		56	7.9	77		
:15		1308	1310		60	14.4	77		2.590 1308
:30		1283	1286		63	14.1	79		5.090 1275
:45		1262	1269		70	25.0	84		7.590 1041
:00		1245	1253		70	35.1	86		10.090 1208
:15		1233	1241		70	36.7	86		12.590 1174
:30		1214	1222		72	40.2	86		15.090 1141
:45		1198	1206		73	59.1	87		17.590 1107
:00		1179	1187		74	58.8	87		20.090 1074
:15		1154	1164		76	87.0	85		25.090 1006
:30		1138	1148		77	85.8	83		
:45		1122	1133		77	85.3	82		
1:00		1125	1146		63	16.4	82		TRAIL of FLUID THRU CHOKER
	0.0								SET 1-POINT RATE 295 mcf/d
	0.5								Begin 30 minute wellhead buildup
9:45	1.0	923	1011		63	10.4	57		1-POINT 4/19/11 235 mcf/d
	1.5								
	2.0								
	3.0								
	4.0								
	5.0								
	6.0								
	7.0								
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