

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
(Rev.8/98)

TYPE TEST:

- Open Flow
- Deliverability

TEST DATE: 12/03/03

API No. 15-023-20470-00-00

Company Priority Oil & Gas LLC		Lease Zweygardt			Well Number 1-20	
County Cheyenne	Location SW NW NW	Section 20	TWP 4	RNG (E/W) 15W	Acres Attributed	
Field Cherry Creek	Reservoir Niobrara	Gas Gathering Connection Kinder Morgan			RECEIVED DEC 05 2003 KCC WICHITA	
Completion Date 5-9-03	Plug Back Total Depth 1308	Packer Set at				
Casing Size 4.500	Weight 10.500	Internal Diameter 4.052	Set at 1359	Perforations 1167	To 1204	
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To	
Type Completion (Describe) co2 Frac	Type Fluid Production none		Pump Unit or Traveling Plunger?			
Producing Thru (Annulus/Tubing) casing	% Carbon Dioxide .170	% Nitrogen 5.120	Gas Gravity- Gg .590			
Vertical Depth (H) 1185	Pressure Taps Flange		Meter Run Size 2.067			
Pressure Buildup: Shut in	11-28-03 @ 17:20	TAKEN	12-2-03 @ 14:00			
Well on Line: Started	12-2-03 @ 14:00	TAKEN	12-3-03 @ 09:20			

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						152	166			93.0	
Flow	.750	62.3	26.80	49		115	129			24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcfd	GOR	G _m
2.779	76.7	45.34	1.3019	1.0107	1.0058	166		.590

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

$(P_c)^2 = 27.7$ $(P_w)^2 = 16.7$ $P_d = 46.9$ % $(P_c - 14.4) + 14.4 =$ $(P_a)^2 = 0.207$
 $(P_d)^2 = 6.08$

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$ or $\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	LOG []	Backpressure Curve Slope "n" ----- or ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability = R x Antilog Mcfd
27.48	10.94	2.512	.4000	.896	.3585	2.283	380
21.60	10.94	1.975	.2955	.896	.2649	1.840	306

OPEN FLOW 380 Mcfd @ 14.65 psia DELIVERABILITY 306 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 4 day of Dec, 2003

Witness (if any)

For Company

For Commission

Checked by

RECEIVED

DEC 05 2003

KCC WICHITA

EMPACT ANALYTICAL SYSTEMS INC

365 SOUTH MAIN STREET
 BRIGHTON, CO 80601
 303-637-0150

NATURAL GAS ANALYSIS

PROJECT NO. :	0312006	ANALYSIS NO. :	01
COMPANY NAME :	PRIORITY OIL & GAS	ANALYSIS DATE:	DECEMBER 2, 2003
ACCOUNT NO. :		SAMPLE DATE :	NOVEMBER 20, 2003
PRODUCER :	PRIORITY OIL & GAS	TO:	
LEASE NO. :	1-20	CYLINDER NO. :	0591
NAME/DESCRIP :	ZWEYGARDT	LOCATION :	SEC. 20-4S-41 W

FIELD DATA

SAMPLED BY :	K ANDREWS	AMBIENT TEMP.:	
SAMPLE PRES. :	91#	GRAVITY :	0.590
SAMPLE TEMP. :	48 F	VAPOR PRES. :	
COMMENTS :	PROBE		

COMPONENTS	NORM. MOLE%	GPM @ 14.65	GPM @ 14.73
HELIUM	0.09	-	-
HYDROGEN	0.01	-	-
OXYGEN/ARGON	0.07	-	-
NITROGEN	5.12	-	-
CO2	0.17	-	-
METHANE	92.64	-	-
ETHANE	1.34	0.356	0.358
PROPANE	0.39	0.107	0.108
ISOBUTANE	0.07	0.023	0.023
N-BUTANE	0.07	0.022	0.022
ISOPENTANE	0.02	0.007	0.007
N-PENTANE	0.01	0.004	0.004
HEXANES+	0.00	0.000	0.000
<u>TOTAL</u>	<u>100.00</u>	<u>0.519</u>	<u>0.522</u>

BTU @ 60 DEG F	<u>14.65</u>	<u>14.73</u>
GROSS DRY REAL =	973.8	979.1
GROSS WET REAL =	956.8	962.1

DENSITY (AIR=1 @14.696 PSIA 60F) : 0.5904

COMPRESSIBILITY FACTOR : 0.99805

NOTE: REFERENCE GPA 2261(ASTM D1945), 2145, & 2172 CURRENT PUBLICATIONS