

KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM G-1
8-7-58

TYPE TEST: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		TEST DATE: 7/24/00	
COMPANY Pioneer Oil Company		LEASE Kinsler C.E.	
WELL NO. 1-1033			
COUNTY Morton	LOCATION 50' E C NW NW S	SECTION 22 31s 40w	TWP 30N
FIELD Kinsler		PIPELINE CONNECTION Topeka	
COMPLETION DATE 6/17/00	PLUG BACK DEPTH 3220	PACKER SET AT 3300	
CASING SIZE 5.500	WT. 14.000	ID 4.995	SET AT 3250
TUBING SIZE 2.375	WT. 4.700	ID 1.995	SET AT 3219
TYPE COMPLETION (Describe) Gas		TYPE FLUID PRODUCTION water	
PRODUCING THERU (Annulus/Tubing) tubing		RESERVOIR TEMPERATURE F 110.	
GAS GRAVITY - Gg .822		% CARBON DIOXIDE .093	
VERTICAL DEPTH (H) 3347		TYPE METER CONN. flange	
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						216	230			72.00	
1.	1.250	35.00	51.00	75		206	220	130	144	.50	
2.	1.250	34.00	53.00	79		190	204	130	144	.50	
3.	1.250	34.00	61.00	78		186	200	130	144	.50	
4.	1.250	36.00	88.00	78		177	191	130	144	.50	

FLOW STREAM ATTRIBUTES

RATE NO.	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 Q Mcfd	GOR	G _m
1.	7.770	49.4	50.19	1.1031	.9859	1.0037	425		.822
2.	7.771	48.4	50.65	1.1031	.9822	1.0035	427		.822
3.	7.771	48.4	54.34	1.1031	.9831	1.0035	459		.822
4.	7.771	50.4	66.60	1.1031	.9831	1.0037	563		.822

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.	144.4	230.4	220.4	53.1	48.6	4.5	425.7	95.4
2.	144.4	230.4	204.4	53.1	41.8	11.3	427.9	88.0
3.	144.4	230.4	200.4	53.1	40.2	12.9	459.5	86.1
4.	144.4	230.4	191.4	53.1	36.6	16.5	563.3	81.9

INDICATED WELLHEAD OPEN FLOW

1353

Mcfd @ 14.65 psia

"n" =

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 Aug, 2000.

Witness (if any)

For Commission

Checked by

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
(Rev.8/98)

TYPE TEST:

- ☒ Open Flow
☒ Deliverability

TEST DATE: 7/25/00 **API No.** 129-21606-0000

Company Pioneer Oil Company		Lease Kinsler C.E.		Well Number 1-1033	
County Morton	Location 50' E C NW NW S	Section 22 31s 40w	TWP 40w	RNG (E/W)	Acres Attributed 320
Field Kinsler		Reservoir Topeka		Gas Gathering Connection	
Completion Date 6/17/00		Plug Back Total Depth 3220		Packer Set at	
Casing Size 5.500	Weight 14.000	Internal Diameter 4.995	Set at 3250	Perforations 3082	To 3176
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at 3219	Perforations 3205	To 3208
Type Completion (Describe) Gas		Type Fluid Production water		Pump Unit or Traveling Plunger? no	
Producing Thru (Annulus/Tubing) tubing		% Carbon Dioxide .093		% Nitrogen 32.661	Gas Gravity- G_g .822
Vertical Depth (ft) 3347		Pressure Taps flange		Meter Run Size 3"	
Pressure Buildup: Shut in 7/21/00 8:00am		TAKEN 7/24/00 @ 11:45am			
Well on Line: Started 7/24/00 11:45am		TAKEN 7/25/00 @ 8:00pm			

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						216	230			72.0	
Flow	1.250	34.0	49.00	74		153	167	130	144	32.3	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mcfd	(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 Mcfd	GOR	G _m
7.770	48.4	48.70	1.1030	.9868	1.0036	413		.822

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P _c) ² = 53.1		(P _w) ² = 28.0		14.8	% (P _c - 14.4) + 14.4 =		(P _a) ² = 0.207
(P _c) ² - (P _a) ²		(P _c) ² - (P _w) ²			(P _c) ² - (P _d) ²		(P _d) ² = 1.16
or (P _c) ² - (P _d) ²		$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" ----- or ----- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcfd
52.88	25.06	2.110	.3243	.755	.2448	1.757	726
51.93	25.06	2.072	.3164	.755	.2389	1.733	716

OPEN FLOW 726 **Mcfd @ 14.65 psia** **DELIVERABILITY** 716 **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 9 day of Aug, 2000.

Witness (if any)

For Company

For Commission

Checked by

I declare under penalty or perjury under the laws of the state of Kansas that I am authorized to request exempt status under rule K.A.R. 82-3-304 on behalf of the operator Pioneer Oil Company and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named.

I hereby request a permanent exemption from open flow testing for the Kinsler C.E. gas well on the grounds that said well:

(check one)

- ☐ is a coalbed methane producer
- ☐ is cycled on plunger lift due to water
- ☐ is a source of natural gas for injection into an oil reservoir undergoing ER
- ☐ is on vacuum at the present time; KCC approval Docket No. _____
- ☐ is incapable of producing at a daily rate in excess of 150 mcf/D

Date: _____

Signature: _____

Title: _____

Instructions:

All active gas wells must have at least an original G-2 form on file with the conservation division. If a gas well meets the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under "observed surface data." Shut-in pressure shall thereafter be reported yearly in the same manner.

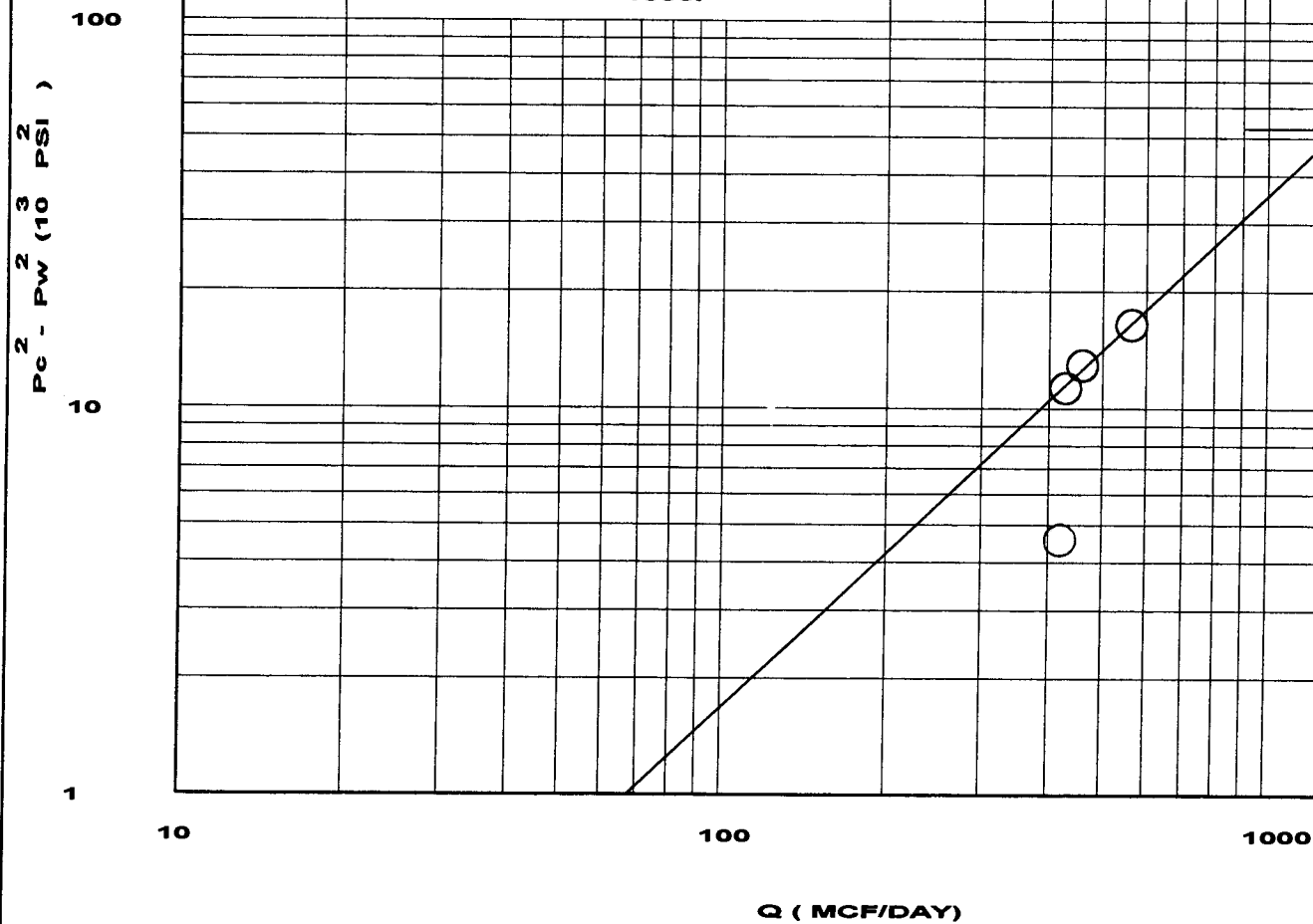
The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.

GAS WELL BACK PRESSURE CURVE

WELL TESTER: 7/24/00 @ 11:45am

TEST DATE: 7/24/00

Pioneer Oil Company
Kinsler C.E. 1-1033
22 31s 40w
Morton ,KS.
Exponent n: 0.7546
AOF: 1353.



NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Sample From: Kinsler 1-1033 4pt
Producer: Pioneer Oil

Pressure:
Temperature:

Time:
Sampler:
Source:

County: Morton
State: Kansas
Formation:

	Mole %	GPM
Helium	He: 0.806	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 32.661	0.000
Carbon Dioxide	CO2: 0.093	0.000
Methane	C1: 52.529	0.000
Ethane	C2: 6.021	1.610
Propane	C3: 4.485	1.236
Iso Butane	iC4: 0.605	0.198
Normal Butane	nC4: 1.438	0.453
Iso Pentane	iC5: 0.339	0.124
Normal Pentane	nC5: 0.395	0.143
Hexanes Plus	C6+: 0.628	0.274

TOTAL: 100.000 4.039

Z Fact: 0.9978

SP.GR.: 0.8218

BTU (SAT): 866.8 @ 14.73 psia
BTU (DRY): 882.1 @ 14.73 psia
OCTANE RATING: 81.4

COMMENTS:

0.000

Att: Tina

STATE OF KANSAS - CORPORATION COMMISSION
ONE POINT STABLE WIND OPEN FLOW OR DISPERABILITY TEST

FORM C-1

OWNER Pradco Oil Company	TEST DATE 12/2/94	WELL NO. 1-1033
LOCATION Marion NW 1/4 SE	SECTION 33	TWP 31S
RESERVOIR Topeka	PIPELINE CONNECTION	
DATE 6/17/00	FLUID BACK TOTAL DEPTH 3220'	PACKER SET AT N/A
WT 5 1/2"	LD 5.04.995	SET AT 3253'
WT 4.78	LD 2.0" 1.995	SET AT 3204'
TYPE Gas	TYPE FLUID PRODUCTION water	PERF 3205' to 3208'
RESERVOIR TEMPERATURE ° F		
0.78	% CARBON DIOXIDE 0.08	% NITROGEN 24
TYPE METER CONNECTION meter run		

BHT#
TD#

Date shutin: 7-21-00

Field Notes

Company: Pioneer Oil		Address:		95%	205				
Wellname: Kinsler 1-1033				90%	194				
Location: 33-315-40W		County: Morton	St: KS.	85%	184				
Formation:		Field/Pool:		80%	174				
TD:		Casing size:	Tubing size:	Plug back depth:					
		Feet of:	Feet of:	Packer depth:					
Meter run size: 3" 3"		Orif (in) 1.25	Type meter connection:						
Gravity of Liquid:		Orif (in)	Producing through:						
Type of completion: slotted			Mileage:						
Date	Clk Tim	Csg Pres	Csg Pres	Diff	Temp	Static/Prover	Wat Vol1	Oil Vol	Comment
yy/mm/dd	clock	psi	psi	In of H2O	F	PSI	inch	bbl	
7-24-00	11:45 A.M.	0	216						
	11:48 A.M.	34	216	45	85				lubing 130
	11:58 A.M.	34	213	46	78				
	12:08 P.M.	35	210	50	76				
30	12:18	35	206	51	75				
	12:28	35	200	52	75				
	12:38 P.M.	35	196	51	77				
60	12:48 P.M.	34	190	53	79				
	12:58 P.M.	34	188	54	79				
	1:08 P.M.	35	186	64	79				
90	1:18 P.M.	34	185	61	78				
	1:28 P.M.	36	181	85	76				
	1:38 P.M.	36	180	94	75				
120	1:48 P.M.	36	177	88	78				

Seal Baybo 45 one way

33-31s-40w

GENERAL INFORMATION

Client Information:

Company: Pioneer Oil Company

Contact: George Payne

Site Information:

Contact:

Well Information:

Name: Kinsler C.E. ~~1-1022~~ 1-1033Location-Downhole: ~~22~~ 31s 40w Morton co Kansas
33

Test Information:

Company: Trilobite Testing, L.L.C.

Representative: Scott Bugbee

Supervisor:

Test Type: Initial 1 & 4 point tests

Test Unit:

Start Date: 2000/07/24 Start Time: 11:45:00

End Date: 2000/07/25 End Time: 08:00:00

1pt. 115

4pt. 295

Gas Analysis 60

Mileage

180 @ .85 153

Total 623

BHP buildup

days@250

2nd Week

3rd Week

4th Week

Remarks:

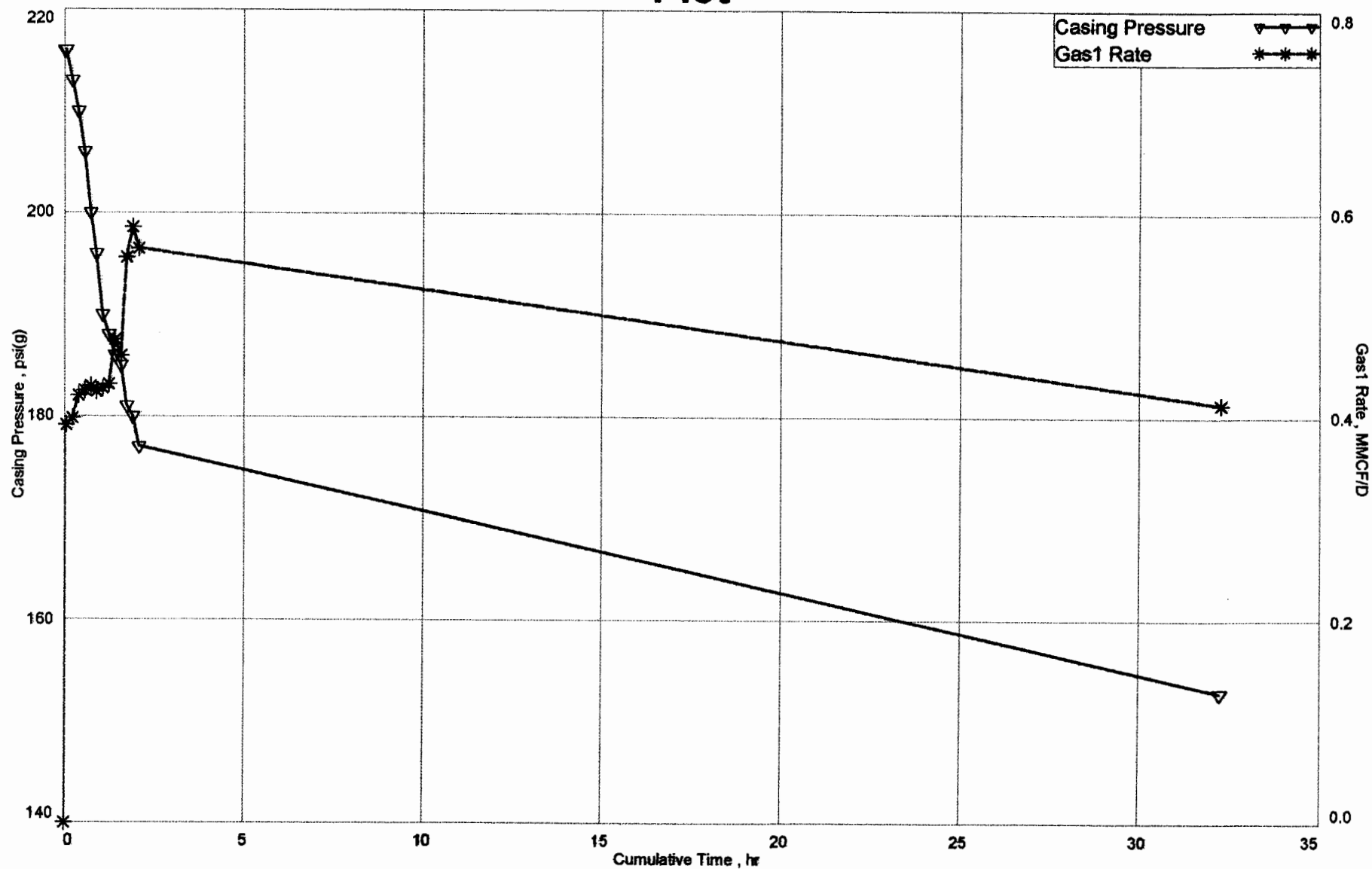
7/24/00 miles 90 Scott

7/25/00 miles 90 Scott

Pioneer Oil Company
22 31s 40w Morton co Kansas
Start Test Date: 2000/07/24
Final Test Date: 2000/07/25

Kinsler C.E. 1-1022

Plot



Pioneer Oil Company
 22 31s 40w Morton co Kansas
 Start Test Date: 2000/07/24
 Final Test Date: 2000/07/25

Kinsler C.E. 1-1022

FieldNotes

Field Measurements

	Date	Clock Time	Comments	Casing Pres	Static1 Pres	Tubing Pres	Diff1 Pres	Meter1 Temp	Gas1 Rate
	yyyy/mm/dd	hh:mm:ss		psi(g)	psi(g)	psi(g)	in of H2O	°F	MMCF/D
1	2000/07/24	11:45:00	shutin						
2	2000/07/24	11:45:00		216.00	0.00	0.00	0.00	0.00	0.000
3	2000/07/24	11:48:00		216.00	34.00	130.00	45.00	85.00	0.391
4		11:58:00		213.00	34.00	130.00	46.00	78.00	0.398
5		12:08:00		210.00	35.00	130.00	50.00	76.00	0.420
6		12:18:00	1st point						
7		12:18:00		206.00	35.00	130.00	51.00	75.00	0.425
8		12:28:00		200.00	35.00	130.00	52.00	75.00	0.429
9		12:38:00		196.00	35.00	130.00	51.00	77.00	0.424
10		12:48:00	2nd point						
11		12:48:00		190.00	34.00	130.00	53.00	79.00	0.427
12		12:58:00		188.00	34.00	130.00	54.00	79.00	0.431
13		13:08:00		186.00	35.00	130.00	64.00	79.00	0.475
14		13:18:00	3rd point						
15		13:18:00		185.00	34.00	130.00	61.00	78.00	0.459
16		13:28:00		181.00	36.00	130.00	85.00	76.00	0.556
17		13:38:00		180.00	36.00	130.00	94.00	75.00	0.586
18		13:48:00	4th point						
19		13:48:00		177.00	36.00	130.00	88.00	78.00	0.565
20	2000/07/25	20:00:00	1 point						
21		20:00:00		153.00	34.00	130.00	49.00	74.00	0.412