

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date: July, 2004

API No. 15 023-20549-00-00

Company <u>Noble Energy, Inc</u>		Lease <u>Bweygardt B-32</u>			Well Number	
County <u>Cheyenne</u>	Location <u>NWSW</u>	Section <u>32</u>	TWP <u>3S</u>	RNG (E/W) <u>41W</u>	Acres Attributed <u>40</u>	
Field <u>Cherry Creek</u>		Reservoir <u>Niobrara</u>	Gas Gathering Connection <u>Bitter Creek</u>			
Completion Date <u>6/3/04</u>		Plug Back Total Depth <u>1596</u>	Packer Set at <u>N/A</u>			
Casing Size <u>4.5</u>	Weight <u>10.5</u>	Internal Diameter	Set at	Perforations	To	
				<u>1450</u>	<u>1486</u>	
Tubing Size <u>N/A</u>	Weight	Internal Diameter	Set at	Perforations	To	
Type Completion (Describe) <u>Gas</u>		Type Fluid Production <u>Gas</u>	Pump Unit or Traveling Plunger?		Yes <input checked="" type="checkbox"/> No	
Producing Thru (Annulus / Tubing) <u>Casing</u>		% Carbon Dioxide <u>0</u>	% Nitrogen <u>4.6</u>	Gas Gravity - G _g <u>0.60</u>		
Vertical Depth(H)		Pressure Taps		(Meter Run) (Prover) Size <u>2 meters</u>		
Pressure Buildup: Shut in <u>6/3</u> 20 <u>04</u> at <u>7</u> (AM) (PM) Taken <u>6/7</u> 20 <u>04</u> at <u>7</u> (AM) (PM)						
Well on Line: Started _____ 20____ at _____ (AM) (PM) Taken _____ 20____ at _____ (AM) (PM)						

OBSERVED SURFACE DATA

Duration of Shut-in 96 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (P _m)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In											
Flow	<u>0.50</u>	<u>147</u>	<u>9.6</u>	<u>68</u>	<u>68</u>		<u>275</u>		<u>147</u>	<u>744</u>	<u>0</u>

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (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}	Duration (Hours)	Flowing Fluid Gravity G _m

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(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207
(P_d)² = _____

(P _c) ² = _____	(P _w) ² = _____	P _d = _____ %	(P _c - 14.4) + 14.4 = _____	
(P _c) ² - (P _b) 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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	Backpressure Curve Slope = "n" Assigned Standard Slope
				n x LOG
				Antilog
				Open Flow Deliverability Equals R x Antilog (Mcfd)
				<u>0.80</u>
				<u>SEE ATTACHED SHEET FOR JULY, 2004</u>

Open Flow 81 Mcfd @ 14.65 psia Deliverability 0.80 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 13 day of August, 2004.

Scott Steinke Scott STEINKE

Witness (if any)

For Company

For Commission

Checked by

100 Glenborough Drive
Suite 100
Houston, TX 77067-3610



Tel: 281.872.3100
Fax: 281.872.3111
www.nobleenergyinc.com

August 13, 2004

Jim Hemmen
Kansas Corporation Commission
130 S. Market
Room 2078
Wichita, KS 67202-3802

Subject: Open flow test of Noble Energy gas wells
Cheyenne County, KS

Dear Mr. Hemmen:

This letter is in response to correspondence dated July 16, 2004 from the KCC. The four wells in question produce from the Niobrara formation. The Niobrara is a chalk with very low permeability, usually 1 md or less. In order for a Niobrara gas well to produce, it must be stimulated with a hydraulic fracture treatment that uses proppant to keep the fracture open.

These four wells were all perforated and frac'd in the Niobrara. Following the frac treatments, the wells were flowed to atmosphere for about 5 days to recover load fluid from the frac and ensure that the wells were not flowing back excessive sand. They were then shut in for 3 days. After 72 hours, a 2" orifice plate tester was installed and a four-point test with a 24-hour extended flow test was conducted. A copy of these results were reported to KCC and are referenced in the 7/16/04 letter.

This initial four-point test is used by Noble only as a qualitative assessment of the well's potential. We look at the initial shut in pressure and whether or not the well is misting or producing water during the test. We typically take the 24-hour one-point rate and divide it by four as an initial estimate of what the well will first produce for plate sizing and pipeline nominations. We do not believe the initial four-point test is indicative of the long term performance of the Niobrara reservoir. The well is producing in linear flow from the hydraulic fracture during the four-point test. The true reservoir performance is not observed until the well begins flowing in radial flow and that does not occur until the well has produced for more than 2-3 days.

We believe a 30-day average rate of production provides the best value to use in the potential test and we have attached those values for these wells. We use the shut-in casing pressure prior to the well being turned on, the average flowing pressure and the slope of the 4-point test above to determine the value of "C". We then calculate the AOF using a flowing pressure of 14.65 psia. Those calculations are attached, also.

We are also enclosing production graphs of offset wells in the area. The graphs show that no well has ever produced over 250 MCFPD. Thus, we feel that Niobrara gas wells in Cheyenne County, KS should be considered exempt from testing.

Should you have any questions, please contact the undersigned at 281-874-6773.

Sincerely,
Noble Energy, Inc.

A handwritten signature in black ink that reads 'Scott Steinke'.

Scott Steinke
Petroleum Engineer

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I declare under penalty of 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 Noble Energy, Inc and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.

I hereby request a one-year exemption from open flow testing for the Zneygardt 13-32 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 not capable of producing at a daily rate in excess of 250 mcf/D

I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.

Date: 8/13/04

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Signature: [Handwritten Signature]

Title: ENGINEER

Instructions: If a gas well meets one of 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 claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been 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 for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption IS denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

ZWEYGARDT 13-32

JULY 2004

Date	Time	Total Flow	Units	Flow Time	Units	Flow Rate	Units	DP Avg	Units	SP Avg	Units	PT Avg	Units	Sequence	
04/07/01	07:00:02	63,810.40	SCF	24:00:00	hrs	63,810.40	SCFD	9.94	InH2O	148.05	psi	66.23	DegF	26	
04/07/02	07:00:02	64,097.10	SCF	24:00:00	hrs	64,097.10	SCFD	9.90	InH2O	148.15	psi	59.94	DegF	27	
04/07/03	07:00:02	62,124.50	SCF	24:00:00	hrs	62,124.50	SCFD	9.42	InH2O	148.79	psi	68.67	DegF	28	
04/07/04	07:00:01	61,245.90	SCF	24:00:00	hrs	61,245.90	SCFD	9.19	InH2O	149.04	psi	71.45	DegF	29	
04/07/05	07:00:01	61,895.90	SCF	24:00:00	hrs	61,895.90	SCFD	9.35	InH2O	148.52	psi	67.59	DegF	30	
04/07/06	07:00:02	62,108.10	SCF	24:00:00	hrs	62,108.10	SCFD	9.41	InH2O	148.30	psi	66.99	DegF	31	
04/07/07	07:00:01	61,907.50	SCF	23:59:59	hrs	61,908.20	SCFD	9.39	InH2O	148.36	psi	69.07	DegF	32	
04/07/08	07:00:02	59,826.00	SCF	24:00:01	hrs	59,825.30	SCFD	8.86	InH2O	149.34	psi	77.58	DegF	33	
04/07/09	07:00:02	59,835.40	SCF	23:59:59	hrs	59,836.10	SCFD	8.87	InH2O	148.85	psi	76.88	DegF	34	
04/07/10	07:00:01	61,093.60	SCF	24:00:00	hrs	61,093.60	SCFD	9.32	InH2O	147.71	psi	76.56	DegF	35	
04/07/11	07:00:02	62,221.10	SCF	24:00:01	hrs	62,220.40	SCFD	9.68	InH2O	147.01	psi	75.06	DegF	36	
04/07/12	07:00:02	62,421.50	SCF	23:59:59	hrs	62,422.30	SCFD	9.75	InH2O	147.13	psi	75.84	DegF	37	
04/07/13	07:00:01	60,971.00	SCF	24:00:00	hrs	60,971.00	SCFD	9.36	InH2O	147.63	psi	80.74	DegF	38	
04/07/14	07:00:01	59,909.10	SCF	24:00:00	hrs	59,909.10	SCFD	9.03	InH2O	147.91	psi	81.60	DegF	39	
04/07/15	07:00:02	61,880.20	SCF	24:00:01	hrs	61,879.50	SCFD	9.62	InH2O	147.05	psi	77.70	DegF	40	
04/07/16	07:00:01	61,074.60	SCF	23:59:59	hrs	61,075.40	SCFD	9.26	InH2O	147.97	psi	74.84	DegF	41	
04/07/17	07:00:01	61,814.60	SCF	24:00:00	hrs	61,814.60	SCFD	9.36	InH2O	148.13	psi	68.06	DegF	42	
04/07/18	07:00:01	60,633.40	SCF	24:00:00	hrs	60,633.40	SCFD	9.08	InH2O	148.38	psi	73.22	DegF	43	
04/07/19	07:00:02	60,225.70	SCF	24:00:01	hrs	60,225.00	SCFD	9.01	InH2O	148.29	psi	76.38	DegF	44	
04/07/20	07:00:02	59,668.40	SCF	24:00:00	hrs	59,668.40	SCFD	8.89	InH2O	148.46	psi	79.50	DegF	45	
04/07/21	07:00:02	58,257.00	SCF	24:00:00	hrs	58,257.00	SCFD	8.48	InH2O	149.17	psi	82.18	DegF	46	
04/07/22	07:00:02	59,137.80	SCF	23:59:59	hrs	59,138.50	SCFD	8.67	InH2O	148.82	psi	76.92	DegF	47	
04/07/23	07:00:02	63,359.10	SCF	24:00:01	hrs	63,358.30	SCFD	9.94	InH2O	146.38	psi	67.94	DegF	48	
04/07/24	07:00:02	65,380.10	SCF	24:00:00	hrs	65,380.10	SCFD	10.37	InH2O	145.77	psi	55.72	DegF	49	
04/07/25	07:00:02	65,302.20	SCF	24:00:00	hrs	65,302.20	SCFD	10.34	InH2O	145.78	psi	55.68	DegF	50	
04/07/26	07:00:02	64,869.40	SCF	24:00:00	hrs	64,869.40	SCFD	10.31	InH2O	145.64	psi	60.37	DegF	51	
04/07/27	07:00:01	64,432.00	SCF	23:59:59	hrs	64,432.70	SCFD	10.32	InH2O	145.35	psi	66.53	DegF	52	
04/07/28	07:00:02	64,169.60	SCF	24:00:00	hrs	64,169.60	SCFD	10.35	InH2O	145.05	psi	71.12	DegF	53	
04/07/29	07:00:01	64,921.30	SCF	24:00:00	hrs	64,921.30	SCFD	10.52	InH2O	144.72	psi	66.68	DegF	54	
04/07/30	07:00:02	62,297.80	SCF	24:00:01	hrs	62,297.10	SCFD	9.57	InH2O	147.16	psi	68.67	DegF	55	
04/07/31	07:00:02	59,756.10	SCF	23:59:57	hrs	59,758.20	SCFD	8.77	InH2O	148.68	psi	71.68	DegF	56	
Flow Grand Total:		1,920.65	MCF												

Avg 62 MCFPD

$$P_c(6/9/04) = 262 \text{ psig}$$

$$= 275 \text{ psia}$$

$$P_w = 147 \text{ psia}$$

$$Q = C(P_c^2 - P_w^2)^n$$

$$62 = C(275^2 - 147^2)^{0.80}$$

$$C = 0.0101$$

$$AOF = 0.0101(275^2 - 14.65^2)^{0.80}$$

$$= 80.99 \text{ MCFPD}$$

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ZWEYGARDT 13-32

JUNE 2004

Date	Time	Total Flow	Units	Flow Time	Units	Flow Rate	Units	DP Avg	Units	SP Avg	Units	PT Avg	Units	Sequence
04/06/07	16:05:27	0.00	SCF	00:00:00	hrs	0.00	SCFD	0.00	InH2O	12.57	psi	146.27	DegF	1
04/06/07	16:05:43	0.00	SCF	00:00:00	hrs	0.00	SCFD	0.00	InH2O	12.58	psi	102.46	DegF	2
04/06/08	07:00:01	0.00	SCF	00:00:00	hrs	0.00	SCFD	0.00	InH2O	0.08	psi	85.83	DegF	3
04/06/09	07:00:01	0.00	SCF	00:00:00	hrs	0.00	SCFD	0.00	InH2O	0.20	psi	79.27	DegF	4
04/06/10	07:00:02	0.00	SCF	00:00:00	hrs	0.00	SCFD	0.00	InH2O	0.22	psi	69.91	DegF	5
04/06/11	07:00:02	35,820.90	SCF	14:10:20	hrs	60,661.10	SCFD	9.24	InH2O	144.27	psi	65.52	DegF	6
04/06/12	07:00:02	56,730.80	SCF	24:00:03	hrs	56,728.80	SCFD	8.01	InH2O	146.17	psi	70.71	DegF	7
04/06/13	07:00:02	55,922.40	SCF	23:59:59	hrs	55,923.10	SCFD	7.80	InH2O	146.46	psi	72.19	DegF	8
04/06/14	07:00:02	55,237.00	SCF	24:00:01	hrs	55,236.30	SCFD	7.64	InH2O	146.72	psi	75.51	DegF	9
04/06/15	07:00:02	54,830.70	SCF	24:00:00	hrs	54,830.70	SCFD	7.46	InH2O	147.41	psi	73.04	DegF	10
04/06/16	07:00:02	56,281.80	SCF	24:00:00	hrs	56,281.80	SCFD	7.96	InH2O	145.16	psi	71.66	DegF	11
04/06/17	07:00:02	60,261.80	SCF	23:59:59	hrs	60,262.50	SCFD	9.04	InH2O	142.49	psi	58.10	DegF	12
04/06/18	07:00:01	61,032.10	SCF	24:00:00	hrs	61,032.10	SCFD	9.28	InH2O	141.79	psi	56.22	DegF	13
04/06/19	07:00:01	60,707.50	SCF	24:00:00	hrs	60,707.50	SCFD	8.94	InH2O	143.32	psi	48.10	DegF	14
04/06/20	07:00:02	59,040.40	SCF	23:59:58	hrs	59,041.80	SCFD	8.52	InH2O	143.86	psi	53.69	DegF	15
04/06/21	07:00:02	56,848.40	SCF	24:00:03	hrs	56,846.40	SCFD	7.99	InH2O	145.00	psi	63.07	DegF	16
04/06/22	07:00:01	57,448.10	SCF	23:59:59	hrs	57,448.80	SCFD	8.03	InH2O	144.80	psi	54.34	DegF	17
04/06/23	07:00:02	57,095.40	SCF	24:00:01	hrs	57,094.70	SCFD	8.14	InH2O	144.30	psi	65.99	DegF	18
04/06/24	07:00:02	56,322.70	SCF	24:00:00	hrs	56,322.70	SCFD	8.01	InH2O	144.50	psi	72.27	DegF	19
04/06/25	07:00:02	57,343.30	SCF	23:59:57	hrs	57,345.30	SCFD	8.21	InH2O	143.99	psi	64.61	DegF	20
04/06/26	07:00:02	57,247.00	SCF	24:00:03	hrs	57,245.00	SCFD	8.17	InH2O	144.53	psi	65.70	DegF	21
04/06/27	07:00:02	56,916.60	SCF	23:59:58	hrs	56,917.90	SCFD	8.03	InH2O	145.01	psi	64.41	DegF	22
04/06/28	07:00:02	57,109.70	SCF	24:00:02	hrs	57,108.40	SCFD	8.00	InH2O	145.20	psi	60.02	DegF	23
04/06/29	07:00:02	56,433.50	SCF	23:59:57	hrs	56,435.50	SCFD	7.95	InH2O	144.89	psi	67.72	DegF	24
04/06/30	07:00:02	63,999.10	SCF	24:00:03	hrs	63,996.90	SCFD	10.13	InH2O	147.27	psi	70.56	DegF	25
Flow Grand Total:		1,132.63	MCF											

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NOBLE ENERGY, INC.
ZWEYGARDT 13-32 TEST 6/3/04
"n" = 0.80 "θ" = 51.3°

$(P_1^2 - P_2^2) / 1000$

9

8

7

6

5

4

3

2

1

10

2

3

4

5

6

7

8

9

100

2

3

4

5

6

7

8

9

1000

2

3

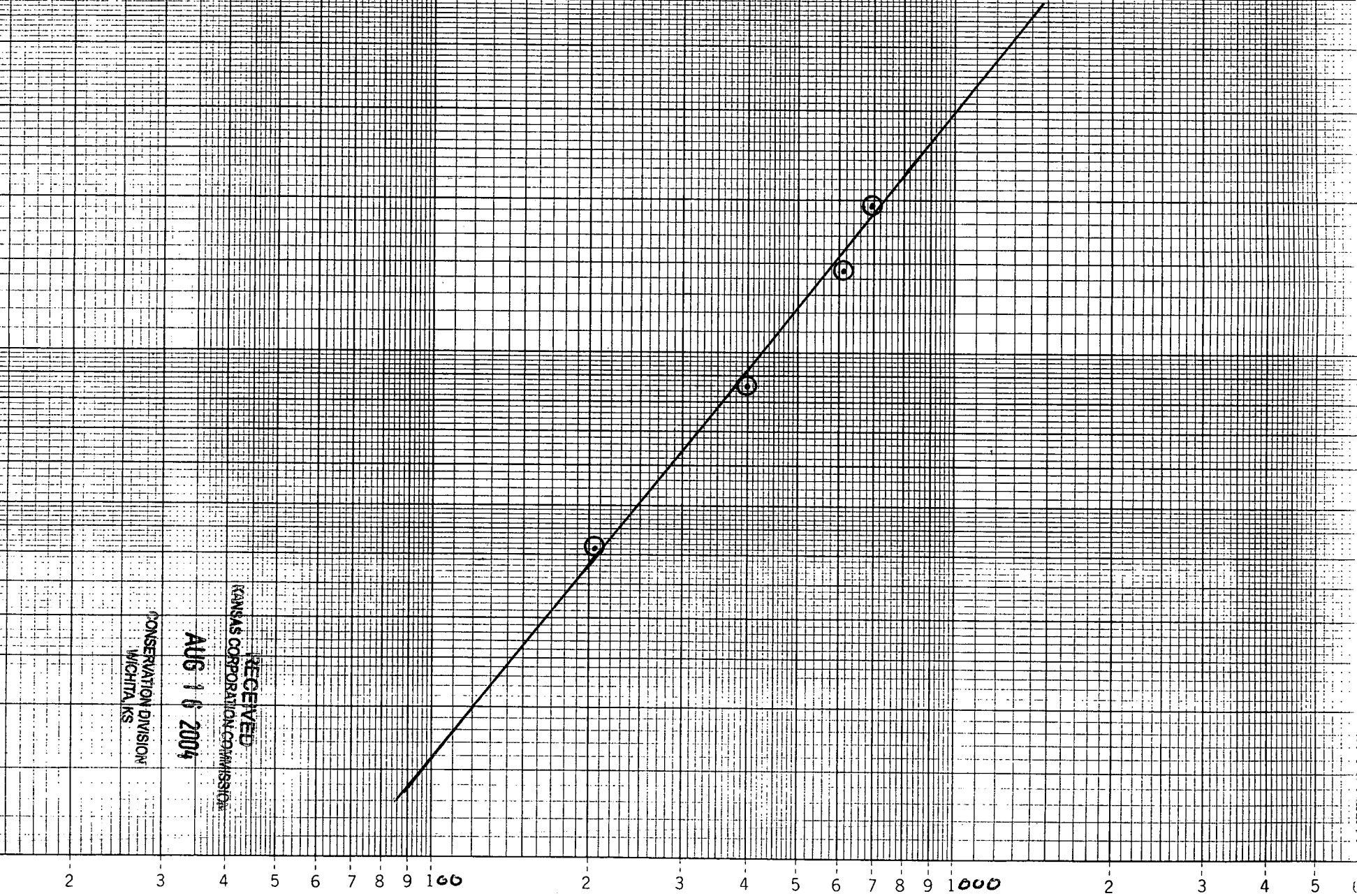
4

5

10

Q_1 , MCFPD

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MICHIGAN, KS



MULTIPOINT BACK PRESSURE TEST

13-32

Test Type ; INITIAL
 Company ; Noble Energy Inc.
 County ; Cheyenne
 Field ; Cherry Creek
 State ; Kansas
 Lease ; Zweggart
 Location ; NWSW/4,SEC,32-T3S-R41W
 Reservoir ; Niobrara
 Test Date ; 06/03/04
 Well No. ; 13 32
 Acres ;
 Pipeline Conn. ; None
 Completion Date ;
 Casing Size ; 4 1/2" Wt. ; 10.5#
 Tubing Size ; None Wt. ;
 Type of Completion ; Single Gas
 PBT D ; 1596
 Snt @ ; 1638
 Set @ ;
 Type Fluid Prod ; None
 Packer Set ;
 Perfs. ; N/A
 Perfs ; N/A
 Producing Thru ; Casing
 Gas Gravity ; .6 (est)
 Vertical Depth ; 1488
 Reservoir Temp. F ; --
 % CO2 ; -- % N2 ; --
 Type Meter Conn. ; None
 Bar. Press. ; 13 PSI
 Liquid API Grav ; N/A
 Prover Size ; 2"

Remarks: Used 2" critical flow prover & dead weight tester.

OBSERVED DATA

Rate No.	Orifice Size In.	Prover Press. psig	Flowing Temp. deg. F	Casing Wellhead Pressure		Duration hrs.	Liquid Prod. bbls.
				psig	psia		
Shut-in	blank	247	--	247	260	0	0
1	3/16	239	70	239	252	1	0
2	17/64	230	70	230	243	1	0
3	11/32	217	70	217	230	1	0
4	3/8	206	70	206	219	1	0
5	11/32	100	70	100	113	24	0

RATE OF FLOW CALCULATIONS

Rate No.	Coefficient mcf/d	Prover Press. psia	Gravity Factor Fg	Temp. Factor Ft	Deviation Factor Fpv	Rate of Flow Q mcf/d
1	0.6237	252	1.291	0.9905	1.0179	205
2	1.2640	243	1.291	0.9905	1.0172	400
3	2.0350	230	1.291	0.9905	1.0163	608
4	2.4390	219	1.291	0.9905	1.0155	694
5	2.0350	113	1.291	0.9905	1.0079	296

PRESSURE CALCULATIONS

Rate No.	Pc psia	Pw psia	Pc^2 /1000	Pw^2 /1000	Pc^2-Pw^2 /1000	Q mcf/d	Shut-in %
1	260	252	67.6	63.5	4.1	205	96.76
2	260	243	67.6	59.0	8.6	400	93.12
3	260	230	67.6	52.9	14.7	608	87.85
4	260	219	67.6	48.0	19.6	694	83.40
5	260	113	67.6	12.8	54.8	296	40.49

INDICATED WELLHEAD OPEN FLOW = 349.82 Mcfd

"n" = 0.80

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 WICHITA, KS

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 9th day of June 20 04

Wayne Mahon For Excell Drilling Co.

Signed: Wayne Mahon Title: Field Technician

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David Ledet

08/12/2004 04:05 PM

To: Scott Steinke/Production/Houston_Onshore/Samedan@Samedan
cc:
Subject: one-pt test for KS wells

Scott,

Here is the pressure info on the 4 KS wells in question:

Zweygartdt 13-33 SIFBU on 6-2-04 SICP on 6-9-04 at 242 psi Turned on to sales 6-10-04
.500 orifice plate -

Production for 6-11-04 = 52 mcf
" 6-12-04 = 52 mcf
" 6-13-04 = 39 mcf

Zweygartdt 22-5 SIFBU on 6-3-04 SICP on 6-7-04 at 272 psi Turned on to sales 6-7-04
.500 orifice plate

Production for 6-8-04 = 29 mcf
" 6-9-04 = 57 mcf
" 6-10-04 = 57 mcf
" 6-11-04 = 57 mcf

Zweygartdt 31-5 SIFBU on 6-1-04 SICP on 6-7-04 at 265 psi Turned on to sales 6-7-04
.500 orifice plate

Production for 6-8-04 = 31 mcf
" 6-9-04 = 31 mcf
" 6-10-04 = 55 mcf
" 6-11-04 = 46 mcf

Zweygartdt 13-32 SIFBU on 6-4-04 SICP on 6-9-04 at 262 psi Turned on to sales on 6-9-04
.500 orifice plate

Production for 6-10-04 = 35 mcf
" 6-11-04 = 54 mcf
" 6-12-04 = 54 mcf
" 6-13-04 = 54 mcf

If you need anything else, please call

David

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AUG 16 2004

CONSERVATION DIVISION
WICHITA, KS