KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Te | st: | | | | | | (See Instruc | ctions on Re | verse Sid | e) | | | | |
|--|---|-----------|---|----------|---|--|--|--|---|---------------|---|-----------------------------|--|---|
| ∡ ∘ | pen F | low | | | | n | | | | | | | | |
| D | elivera | abilty | | | | lest Dat | e: July, | 2004 | | AF | Pl No. 15 | 23 - 205 | 50-0 | 00-00 |
| Compan | الم الم | 081 | E ENE | 26 | 7. Inc | , | | Lease | 1 | 13-3 | | | Well Nu | |
| County | lenn | e | Loc | ation | MNSW | Section | 33 | TWP | 55 | RNG (| - 0.4.0 | lw | | ttributed 40 |
| Field | Che | m | Creek | | | Reservoi | Niob | rara | | Gas Ga | athering Con | nection Bill | es Co | eek |
| Completi | ion Da | ate | plilor | ł | | Plug Bac | ck Total Dep | th 1517 | <u> </u> | Packer | Set at | /A | | |
| Casing S | Size (| 4.5 | - Wei | ght | 10.5 | - Internal I | Diameter | Set a | it | Perf | orations | 1376 TO 1 | 410 | |
| Tubing S | ize | N | A Wei | ght | | Internal i | Diameter | Set a | t | Perf | orations | То | | |
| Type Co. | mpleti | on (D | escribe) G | as | | Type Flui | d Productio | " Gas | > | Pump L | nit or Travelin | g Plunger? Ye. | s (No) | |
| Producin | | y (An | րulus / Tub ուհ | ing) | | % (| Carbon Diox | 0.Z | | % Nitro | gen 4. | Gas (| Gravity - G | 6.60 |
| Vertical [| | | | | · · · · · · · · · · · · · · · · · · · | | Pres | sure Taps | • | <u> </u> | | 2" me te i | r Run) (Pr | over) Size |
| Pressure | Build | up: | Shut in | Ü | 12 2 | 004 at_ | 7 | (PM) | Taken | 6/0 | 20 | 64 at 7 | | |
| Well on L | .ine: | | Started | | 2 | 0 at | | (AM) (PM) | Taken | | | at | | M) (PM) |
| | | | | | | | OBSERVE | D SURFACE | DATA | | | Duration of Shu | t-in /S | 4 Hours |
| Static / Dynamic Property | Orit Si: (incl | ze | Circle one Meter Prover Pres | sure | Pressure Differential in | Flowing Temperature t | Well Head Temperature t | Casi Wellhead F (P _w) or (P, | ressure | Wellhe | Tubing ead Pressure or (P ₁) or (P _c) | Duration (Hours) | Liquid | Produced arrels) |
| Shut-In | <u> </u> | | psig (Pm | 1) | inches H ₂ 0 | <u> </u> | | psig | psia 256 | psig | psia | | | |
| Flow | 0.5 | 50 | 154 | | 3,76 | 74 | 74 | | | | 154 | 744 | + 7 | 2 |
| · | | | | | | | FLOW STR | EAM ATTRI | BUTES | | | <u> </u> | - | |
| Plate Coeffieci (F _b) (F Mcfd | ent ,) | | Circle one: Meter or ver Pressure psia | | Press Extension ✓ P _m x h | Grav Fact F _g | or T | Flowing emperature Factor F ₁₁ | Fac | ation ctor | Metered Flov R (Mcfd) | v GOR (Cubic F Barrel | eet/ | Flowing Fluid Gravity G _m |
| | | | | <u> </u> | | (ODEN EL C | N40 (DE: 04 | | | | | | | |
| (P _c) ² = | | <u>_:</u> | (P _w) ² | | <u> </u> | P _d = _ |)W) (DELIVE | ERABILITY) | - 14.4) + | | <u> </u> : | |) ² = 0.207) ² = | 7 |
| (P _c) ² - (P or (P _c) ² - (P | | (P, |)² - (P _w)² | 1. 2. | P _c ² - P _d ² $P_c^2 - P_d^2$ $P_c^2 - P_d^2$ $P_c^2 - P_d^2$ | LOG of formula 1. or 2. and divide by: | P _c ² -P _w ² | Backpress Slope | = "n" gned | nxl | .og [] | Antilog | Delive Equals F | r Flow erability 1 x Antilog cfd) |
| | | | | | | | | Ó, 2 | | | | | | |
| | | | | | SEEA | MACH | EO | SHEE | t for | - Ju | LY, 29 | 04 | | |
| Open Flow | <u>, </u> | | 58 | ٨ | fcfd @ 14.6 | 5 psia | | Deliverabili | ty | | 1 | Mcfd @ 14.65 ps | ia | , |
| The u | ndersi | gned | authority, o | n bel | nalf of the C | Company, st | ates that he | is duly auth | orized to | make th | e above repor | t and that he ha | s knowled | ige of |
| | | | | | port is true | | | | 12 | ay of | August | - | , 20 | 04 |
| | | | Witness (| if any) | | —— | | ECEIVED PORATION CO | | ett i | Attento | Sign Ompany | 1 5re | EMKE |
| | | | For Comm | nission | | | AUG | 1 6 2 0(|)4 | | Check | ed by | | |

| and that the fore | der Rule K.A.R. 82-3-304 going pressure informat | ion and statem | ents contained | on this applica | | 11 |
|-------------------------------------|--|---|---|--|-----------------|---|
| of equipment insta I hereby requ | t of my knowledge and ballation and/or upon type est a one-year exemption ounds that said well: | of completion o | or upon use bei | ng made of the | gas well herein | named. |
| | one) is a coalbed methane prise cycled on plunger lift is a source of natural gris on vacuum at the presis not capable of producto supply to the best of to corroborate this claim | t due to water pas for injection esent time; KCC ucing at a daily r | approval Dock rate in excess and all suppor | ket No of 250 mcf/D ting documents | | mmission |
| Date: 8/13/09 | / | Signature: | Sudd ENG. NEE | a Stem | d. | KANSAS CORPORAT. AUG 6 CONSERVATION DI WICHITALKS |

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 13-33

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 | 07:00:01 | 45,004.90 | SCF | 24:00:00 | hrs | 45,004.90 | SCFD | 4.77 | InH2O | 154.08 | psi | 68.05 | DegF | 26 |
| 04/07/02 | 07:00:01 | 44,261.70 | SCF | 24:00:00 | hrs | 44,261.70 | SCFD | 4.55 | InH2O | 154.23 | psi | 60.91 | DegF | 27 |
| 04/07/03 | 07:00:01 | 42,479.60 | SCF | 24:00:00 | hrs | 42,479.60 | SCFD | 4,26 | InH2O | 154.62 | psi | 71.34 | DegF | 28 |
| 04/07/04 | 07:00:01 | 41,416.70 | SCF | 24:00:00 | hrs | 41,416.70 | SCFD | 4.06 | InH2O | 154.75 | psi | 73.68 | DegF | 29 |
| 04/07/05 | 07:00:01 | 41,722.20 | SCF | 24:00:00 | hrs | 41,722.20 | SCFD | 4.10 | InH2O | 154.47 | psi | 69.98 | DegF | 30 |
| 04/07/06 | 07:00:01 | 41,475.60 | SCF | 24:00:00 | hrs | 41,475.60 | SCFD | 4.05 | InH2O | 154.30 | psi | 68.89 | DegF | 31 |
| 04/07/07 | 07:00:01 | 41,336.10 | SCF | 24:00:00 | hrs | 41,336.10 | SCFD | 4.04 | InH2O | 154.34 | psi | 71.40 | DegF | 32 |
| 04/07/08 | 07:00:01 | 40,366.90 | SCF | 24:00:00 | hrs | 40,366.90 | SCFD | 3.91 | InH2O | 154.91 | psi | 80.24 | DegF | 33 |
| 04/07/09 | 07:00:01 | 40,380.20 | SCF | 23:59:58 | hrs | 40,381.10 | SCFD | 3.91 | InH2O | 154.63 | psi | 79.56 | DegF | 34 |
| 04/07/10 | 07:00:01 | 42,003.20 | SCF | 24:00:00 | hrs | 42,003.20 | SCFD | 4.25 | InH2O | 153.80 | psi | 79.13 | DegF | 35 |
| 04/07/11 | 07:00:02 | 42,192.50 | SCF | 24:00:00 | hrs | 42,192.50 | SCFD | 4.29 | InH2O | 153.36 | psi | 77.52 | DegF | 36 |
| 04/07/12 | 07:00:01 | 42,367.90 | SCF | 24:00:00 | hrs | 42,367.90 | SCFD | 4.33 | InH2O | 153.39 | psi | 78.76 | DegF | 37 |
| 04/07/13 | 07:00:01 | 41,781.50 | SCF | 24:00:00 | hrs | 41,781.50 | SCFD | 4.25 | InH2O | 153.70 | psi | 84.18 | DegF | 38 |
| 04/07/14 | 07:00:02 | 31,824.70 | SCF | 23:59:58 | hrs | 31,825.40 | SCFD | 2.46 | InH2O | 153.83 | psi | 86.59 | DegF | 39 |
| 04/07/15 | 07:00:01 | 34,087.90 | SCF | 24:00:03 | hrs | 34,086.80 | SCFD | 2.82 | InH2O | 153.22 | psi | 82.25 | DegF | 40 |
| 04/07/16 | 07:00:01 | 34,546.20 | SCF | 23:59:59 | hrs | 34,546.60 | SCFD | 2.87 | InH2O | 153.91 | psi | 78.93 | DegF | 41 |
| 04/07/17 | 07:00:01 | 35,611.90 | SCF | 24:00:00 | hrs | 35,611.90 | SCFD | 3.00 | InH2O | 154.04 | psi | 70.71 | DegF | 42 |
| 04/07/18 | 07:00:02 | 34,943.90 | SCF | 24:00:00 | hrs | 34,943.90 | SCFD | 2.92 | InH2O | 154.22 | psi | 76.91 | DegF | 43 |
| 04/07/19 | 07:00:01 | 34,324.30 | SCF | 24:00:00 | hrs | 34,324.30 | SCFD | 2.83 | InH2O | 154.09 | psi | 80.16 | DegF | 44 |
| 04/07/20 | 07:00:01 | 33,653.30 | SCF | 24:00:00 | hrs | 33,653.30 | SCFD | 2.74 | InH2O | 154.18 | psi | 84.28 | DegF | 45 |
| 04/07/21 | 07:00:01 | 33,314.10 | SCF | 24:00:00 | hrs | 33,314.10 | SCFD | 2.69 | InH2O | 154.67 | psi | 87.07 | DegF | 46 |
| 04/07/22 | 07:00:01 | 34,322.10 | SCF | 24:00:00 | hrs | 34,322.10 | SCFD | 2.83 | InH2O | 154.49 | psi | 80.92 | DegF | 47 |
| 04/07/23 | 07:00:01 | 37,390.00 | SCF | 24:00:00 | hrs | 37,390.00 | SCFD | 3.32 | InH2O | 152.94 | psi | 69.74 | DegF | 48 |
| 04/07/24 | 07:00:02 | 40,602.60 | SCF | 24:00:00 | hrs | 40,602.60 | SCFD | 3.82 | InH2O | 152.55 | psi | 56.18 | DegF | 49 |
| 04/07/25 | 07:00:01 | 41,094.40 | SCF | 24:00:00 | hrs | 41,094.40 | SCFD | 3.92 | InH2O | 152.53 | psi | 56.79 | DegF | 50 |
| 04/07/26 | 07:00:01 | 41,178.10 | SCF | 24:00:00 | hrs | 41,178.10 | SCFD | 3.98 | InH2O | 152.39 | psi | 61.81 | DegF | 51 |
| 04/07/27 | 07:00:02 | 41,145.40 | SCF | 24:00:00 | hrs | 41,145.40 | SCFD | 4.03 | InH2O | 152.10 | psi | 67.79 | DegF | 52 |
| 04/07/28 | 07:00:01 | 42,281.70 | SCF | 24:00:00 | hrs | 42,281.70 | SCFD | 4.31 | InH2O | 151.88 | psi | 73.62 | DegF | 53 |
| 04/07/29 | 07:00:01 | 42,994.60 | SCF | 24:00:00 | hrs | 42,994.60 | SCFD | 4.42 | InH2O | 151.67 | psi | 68.40 | DegF | 54 |
| 04/07/30 | 07:00:01 | 41,969.40 | SCF | 24:00:00 | hrs | 41,969.40 | SCFD | 4.19 | InH2O | 153.26 | psi | 70.72 | DegF | 55 |
| 04/07/31 | 07:00:01 | 39,716.10 | SCF | 24:00:00 | hrs | 39,716.10 | SCFD | 3.75 | InH2O | 154.35 | psi | 74.43 | DegF | 56 |
| Flow Gra | and Total: | 1,221.79 | MCF | | | 1 A 1 A | | | | 0 101 | | | | |

AV6 = 39.4 MCFPD

Pc (6/9/4) = 242 psig = 255 psia Pw: 154 psia

Q: (Por Car)

P1 1 500 11 000

Page Number: 1

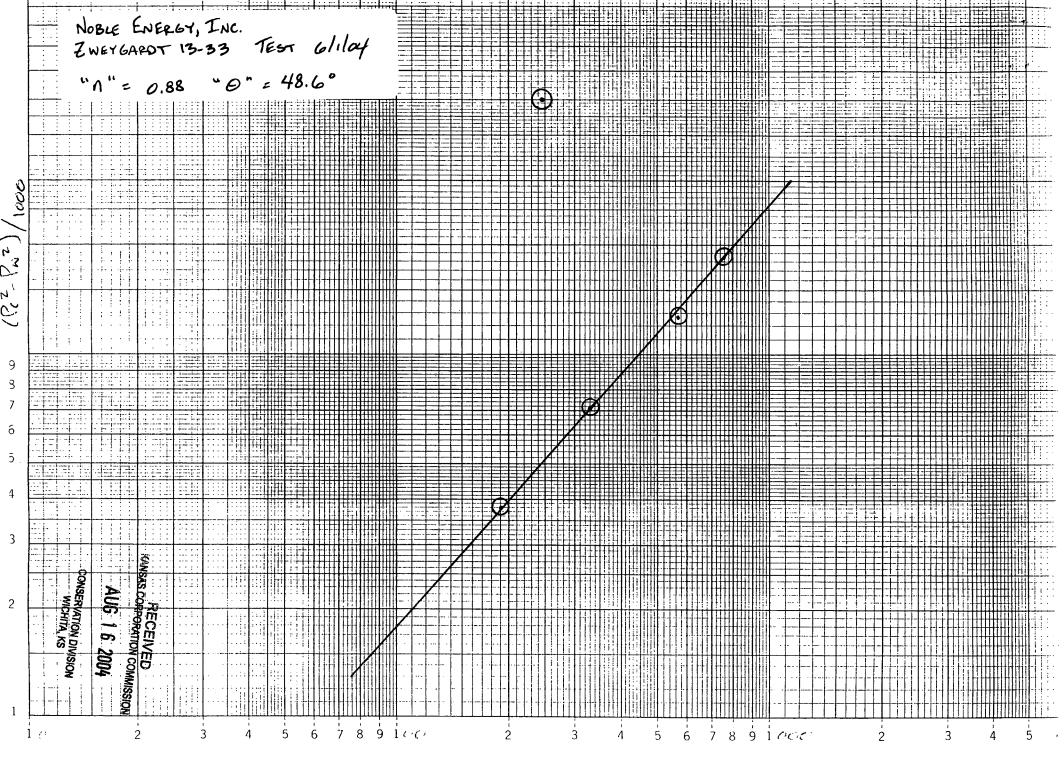
ZWEYGARDT 13-33

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 | 10:22:02 | 0.00 | SCF | 00:00:00 | hrs | 0.00 | SCFH | 0.00 | InH2O | 40.42 | psi | 84.52 | DegF | l |
| 04/06/07 | 10:22:28 | 0.00 | SCF | 00:00:00 | hrs | 0.00 | SCFH | 0.00 | InH2O | 40.46 | psi | 84.72 | DegF | 2 |
| 04/06/08 | 07:00:01 | 8,953.42 | SCF | 11:35:50 | hrs | 18,528.80 | SCFD | 11.60 | InH2O | -0.17 | psi | 100.62 | DegF | 3 |
| 04/06/09 | 07:00:01 | 36.05 | SCF | 00:13:54 | hrs | 3,734.79 | SCFD | 0.45 | InH2O | 0.08 | psi | 75.65 | DegF | 4 |
| 04/06/10 | 07:00:01 | 36,358.50 | SCF | 13:06:35 | hrs | 66,561.60 | SCFD | 11.03 | InH2O | 144.26 | psi | 63.03 | DegF | 5 |
| 04/06/11 | 07:00:01 | 52,004.60 | SCF | 24:00:00 | hrs | 52,004.60 | SCFD | 6.65 | InH2O | 149.41 | psi | 71.55 | DegF | 6 |
| 04/06/12 | 07:00:02 | 39,625.40 | SCF | 24:00:01 | hrs | 39,625.00 | SCFD | 3.75 | InH2O | 153.45 | psi | 73.27 | DegF | 7 |
| 04/06/13 | 07:00:01 | 39,655.50 | SCF | 23:59:59 | hrs | 39,656.00 | SCFD | 3.75 | InH2O | 153.79 | psi | 74.75 | DegF | 8 |
| 04/06/14 | 07:00:01 | 39,332.70 | SCF | 24:00:00 | hrs | 39,332.70 | SCFD | 3.72 | InH2O | 153.96 | psi | 78.41 | DegF | 9 |
| 04/06/15 | 07:00:01 | 39,216.30 | SCF | 24:00:00 | hrs | 39,216.30 | SCFD | 3.66 | InH2O | 154.45 | psi | 75.28 | DegF | 10 |
| 04/06/16 | 07:00:02 | 32,769.80 | SCF | 24:00:01 | hrs | 32,769.40 | SCFD | 2.58 | InH2O | 152.47 | psi | 74.16 | DegF | 11 |
| 04/06/17 | 07:00:01 | 46,429.00 | SCF | 23:59:59 | hrs | 46,429.50 | SCFD | 5.16 | InH2O | 148.78 | psi | 59.11 | DegF | 12 |
| 04/06/18 | 07:00:01 | 49,139.00 | SCF | 24:00:00 | hrs | 49,139.00 | SCFD | 5.78 | InH2O | 148.12 | psi | 57.09 | DegF | 13 |
| 04/06/19 | 07:00:01 | 64,858.00 | SCF | 24:00:00 | hrs | 64,858.00 | SCFD | 9.76 | InH2O | 150.45 | psi | 48.81 | DegF | 14 |
| 04/06/20 | 07:00:01 | 62,728.50 | SCF | 24:00:00 | hrs | 62,728.50 | SCFD | 9.22 | InH2O | 150.66 | psi | 54.42 | DegF | 15 |
| 04/06/21 | 07:00:01 | 57,925.60 | SCF | 24:00:00 | hrs | 57,925.60 | SCFD | 7.98 | InH2O | 151.27 | psi | 63.71 | DegF | 16 |
| 04/06/22 | 07:00:02 | 56,646.70 | SCF | 24:00:01 | hrs | 56,646.10 | SCFD | 7.51 | InH2O | 151.11 | psi | 55.15 | DegF | 17 |
| 04/06/23 | 07:00:01 | 55,732.00 | SCF | 23:59:59 | hrs | 55,732.70 | SCFD | 7.48 | InH2O | 150.22 | psi | 66.53 | DegF | 18 |
| 04/06/24 | 07:00:01 | 55,070.00 | SCF | 24:00:00 | hrs | 55,070.00 | SCFD | 7.39 | InH2O | 150.29 | psi | 73.13 | DegF | 19 |
| 04/06/25 | 07:00:02 | 55,616.40 | SCF | 24:00:00 | lus | 55,616.40 | SCFD | 7.44 | InH2O | 149.93 | psi | 65.16 | DegF | 20 |
| 04/06/26 | 07:00:01 | 54,662.00 | SCF | 24:00:00 | hrs | 54,662.00 | SCFD | 7.16 | InH2O | 151.07 | psi | 66.66 | DegF | 21 |
| 04/06/27 | 07:00:01 | 54,078.70 | SCF | 24:00:00 | hrs | 54,078.70 | SCFD | 6.97 | InH2O | 151.44 | psi | 65.55 | DegF | 22 |
| 04/06/28 | 07:00:01 | 53,859.20 | SCF | 24:00:00 | hrs | 53,859.20 | SCFD | 6.85 | InH2O | 151.59 | psi | 60.88 | DegF | 23 |
| 04/06/29 | 07:00:02 | 53,049.40 | SCF | 23:59:58 | hrs | 53,050.70 | SCFD | 6.75 | InH2O | 151.32 | psi | 68.37 | DegF | 24 |
| 04/06/30 | 07:00:01 | 49,153.10 | SCF | 24:00:02 | hrs | 49,151.90 | SCFD | 5.77 | InH2O | 153.51 | psi | 72.44 | DegF | 25 |
| Flow Gr | and Total: | 1,056.90 | MCF | J | | | | | | | | | | |

RECEIVED
AUG 1 6 2004

CONSERVATION DIVISION
WICHITA, KS



MULTIPOINT BACK PRESSURE TEST

INITIAL Tost Date: 06/01/04 Test Type; State: . Kansas Well No.; 13 33 Company: Noble Energy Inc. Legge; Zweygart Location: NWSW/4,SEC.33-T3S-R41W Acres : County: Cheyenne Charry Creek Raservior: Niobrara Pipeline Cann. None Fleid: Compiction Date; PBTD : 1513 Packer Set : Casing Size: 4 1/2" Wt.: 10.5# 1556 Porfs.; N/A Set @ : Porfs; Tubing Size; None Wt.; Set@; N/A Single Gas Type of Completion; Type Fluid Prod; None Producing Thru; Casing Reservoir Temp. F; -Bar. Press.; 13 PSI

% CO2 : - % N2 ; -

Vertical Depth; 1412 Type Meter Conn.; None

د ددون جان ی ر

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

Gas Gravity; .6 (est)

| | | | | Shut-in Hrs.: | | | | | |
|-------------|------------------------|--------------------------|----------------------------|-------------------------------------|------|------------------|--------------------------|--|--|
| Rate No. | Orifice Size in. | Prover Press. psig | Flowing Temp. deg. F | Casing Wellhead Pressure psig | psia | Duration hrs. | Liquid Prod. bbls. | | |
| Shut-in | blank | 230 | • | 230 | 243 | 0 | 0 | | |
| 1 | 3/16 | 222 | 68 | 222 | 235 | 1 | 0 | | |
| 2 | 1/4 | 215 | 68 | 215 | 228 | 1 | 0 | | |
| 3 | 11/32 | 202 | 87 | 202 | 215 | . 1 | ò | | |
| 4 | 13/32 | 188 | 67 | 188 | 201 | 1 | ٥ | | |
| 5 | 11/32 | BC | 70 | 80 | 93 | 24 | ٥ | | |

RATE OF FLOW CALCULATIONS

| Rate No | Coeffi- clent mcfd | Prover Press. psie | Gravity Factor Fg | Temp. Factor Ft | Deviation Factor Fpv | Rate of Flow Q mcfd | |
|------------|--------------------------|--------------------------|-------------------------|-----------------------|----------------------------|---------------------------|--|
| 1 | 0.6237 | 235 | 1.291 | 0.9924 | 1.0169 | 191 | |
| 2 | 1.1150 | 228 | 1.291 | 0.9924 | 1.0164 | 331 | |
| 3 | 2,0350 | 215 | 1,291 | 0.9933 | 1,0154 | 570 | |
| 4 | 2.9066 | 201 | 1,291 | 0.9933 | 1.0144 | 760 | |
| 5 | 2.0350 | 93 | 1.291 | 0,9905 | 1,0088 | 244 | |

PRESSURE CALCULATIONS

| Rate No. | Pc psis | Pw | Pc^2 /1000 | Pw^2 /1000 | Pc^2-Pw^2 /1000 | Q mefd | Shut- in % |
|-------------|------------|-----|---------------|---------------|--------------------|-----------|---------------|
| 1 | 243 | 235 | 59.0 | 55.2 | 3.8 | 191 | 96,52 |
| 2 | 243 | 228 | 59,0 | 52.0 | 7.1 | 331 | 93.48 |
| 3 | 243 | 215 | 59.0 | 46.2 | 12.8 | 570 | 87.83 |
| 4 | 243 | 201 | 59.0 | 40.4 | 18.6 | 760 | 81,74 |
| 5 | 243 | 93 | 59,0 | 8.8 | 50.4 | 244 | 34.78 |

INDICATED WELLHEAD OPEN FLOW =

279.31

Mcfd

"n" = 0.88

Liquid API Grav

Prover Size ;

N/A

2"

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 3-d day of June , 2004.

Wayne Mahon

For Excell Drilling Co.

Signed: Langua mah. Title: Field Technician

RECEIVED
JUN 2 1 2004
KANSAS CORPORATION COMMISSION HITT

AUG 1 6 2004

CONSERVATION DIVISION WICHITA, KS



To: Scott Steinke/Production/Houston_Onshore/Samedan@Samedan

Subject: one-pt test for KS wells

Scott.

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

Zweygardt 13-33

SIFBU on 6-2-04

SICP on 6-9-04 at 242 psi

Turned on to sales 6-10-04 .-

.500 orfice plate -

Production for 6-11-04 = 52 mcf

6-12-04 = 52 mcf

6-13-04 = 39 mcf

Zweygardt 22-5

SIFBU on 6-3-04

SICP on 6-7-04 at 272 psi

Turned on to sales 6-7-04 -

.500 orfice plate

Production for 6-8-04 = 29 mcf

6-9-04 = 57 mcf

6-10-04 = 57 mcf

6-11-04 = 57 mcf

Zweygardt 31-5

SIFBU on 6-1-04

"

SICP on 6-7-04 at 265 psi

Turned on to sales 6-7-04 -

.500 orfice plate

Production for 6-8-04 = 31 mcf

6-9-04 = 31 mcf

6-10-04 = 55 mcf

6-11-04 = 46 mcf

Zweygardt 13-32

SIFBU on 6-4-04

SICP on 6-9-04 at 262 psi

Turned on to sales on 6-9-04 -

.500 orfice 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

RECEIVED KANSAS CORPORATION COMMISSION

CONSERVATION DIVISION WICHITA, KS

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST (See Instructions on Reverse Side)

| Type Tes | st: | | | | (See Instri | uctions on F | Reverse Sid | de) | | | | |
|--|-----------------------------|---|--|---|--|---|--|--------------|---|--------------------------------|--|----------|
| X or | pen Flow | | | | | | • | | | | | |
| | eliverabilty | | | Test Da | ote: July, | 2004 | | Α | PI No. 15 | 23 - 2059 | 50 | |
| Company | NOB | -E En | E067, In | c | Zwi | Lease Waaro | 11 | 13- | | | Well Number | |
| County | enne | | cation NNSh | Continu | 33 | TWP | 35 | RNG (| EAN | Iw | Acres Attribute | ed ed |
| Field (| herry | Cree | k | Reserve | oir Nial | 09619 | | Gas G | athering Con | nection Bild | 1 | |
| Completic | | blilo | + | Plug Ba | ack Total De | 15 ₁ | 3 | Packer | Set at | /A | KANSAS CO | RECE |
| Casing S | | - We | eight (0.5 | S Internal | Diameter | Set | at | Per | forations | To | 410 AUG | TURAT |
| Tubing Si | ze N | A We | eight | Internal | Diameter | Set | at | Per | forations | То | CRIA | 16 |
| Type Con | npletion (D | Pescribe) | bas | Type Flo | uid Producti | on Ga | ~ | Pump l | Jnit or Travelin | g Plunger? Yes | CONSERVA NO WICH | TTA, KS |
| Producing | Thry (An | ກຸulus / Tub ໄດ້ຊື | bing) | % | Carbon Dio | xide 0.7 | | % Nitro | ogen 4. | Gas G | Gravity - G | |
| Vertical D | epth(H) | _ | | ····· | Pre | ssure Taps | | | | (Meter | · Run\ (Prover) C | |
| Pressure I | Buildup: | Shut in | 6/2 | 2064 at_ | 7 | (AM) (PM) | Taken | 61 | ? | 2" meter | | |
| Well on Li | ne: | Started | | | | | | | | at | | • |
| | | | | | | ED SURFAC | | | | | t-in 154 H | |
| Static / Dynamic Property | Orifice Size (inches) | Circle on Meter Prover Pres | Differential in | Flowing Temperature | Well Head Temperature | Wellhead | sing Pressure | Wellhe | Tubing ead Pressure or (P,) or (P,) | Duration (Hours) | Liquid Produce | |
| Shut-In | | psig (Pn | n) Inches H ₂ 0 | <u> </u> | | psig | psia 256 | psig | psia | | (Surreis) | |
| Flow | 0.50 | 154 | 1 3.75 | 74 | 74 | | | | 154 | 744 | 0 | \dashv |
| | | | | | FLOW STR | REAM ATTR | IBUTES | | | | | |
| Plate Coefficcie (F _b) (F _p) Mcfd | nt | Circle one: Meter or ver Pressure psia | Press Extension P _m x h | Grav Fac F _s | tor | Flowing Temperature Factor F,, | Devi Fac | | Metered Flow R (Mcfd) | GOR (Cubic Fe Barrel) | Growin | |
| | | | | (ODEN 5) | 2107 (2.21 | | <u> </u> | | | | | |
| (P _c) ² = | : | (P _w) ² | | P _d = | OW) (DELIV | |) CALCULA 'c - 14.4) + | | ; | (P _a) [,] | ² = 0.207 ² = | |
| $(P_c)^2 - (P_a)$ or $(P_c)^2 - (P_d)$ | |)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 | P _c ² -P _w ² | Slop | ssure Curve pe = "n" or signed ard Slope | пхі | og [| Antilog | Open Flow Deliverability Equals R x Antilo (Mcfd) | og |
| | | | 666 | 1 | | | 88 | | | | | |
| Open Flow | | <u>5</u> 8 | | HITACH | HED _ | SHEE | | - Ju | 27,790 | | | |
| | | | Mcfd @ 14.0 | | | Deliverabi | | | | 1cfd @ 14.65 psia | · · · · · · · · · · · · · · · · · · · | |
| | | | | | | | • - | make the | e above report | and that he has | , | |
| e facts state | ed therein, | and that s | aid report is true | and correct. | Executed | this the | 13 da | ay of | August | | , 20 04 | . • |
| | | Man | (if any) | | | _ | Au | ett a | Stemto | | - 50 04 STEINK | E |
| | | Witness (| ii any) | | | | | | For Co | | | |
| | | For Comm | nission | | | _ | · | | Checke | ed 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.

RECEIVED KANSAS CORPORATION COMMISSION

AUG 1 6 2004

CONSERVATION DIVISION WICHITA, KS

Scott Steinke Petroleum Engineer

| exempt status under Rule K.A.R. 82-3-304 on beha and that the foregoing pressure information and s correct to the best of my knowledge and belief bas | etatements contained on this application form are true and ed upon available production summaries and lease records letion or upon use being made of the gas well herein named. |
|---|---|
| gas well on the grounds that said well: (Check one) is a coalbed methane producer is cycled on plunger lift due to well: is a source of natural gas for injuities on vacuum at the present times is not capable of producing at a | vater ection into an oil reservoir undergoing ER e; KCC approval Docket No daily rate in excess of 250 mcf/D by any and all supporting documents deemed by Commission |
| Date: 8/13/04 | RECEIVED KANSAS CORPORATION COMMISSIC AUG 1 6 2004 CONSERVATION DIVISION WICHITA, KS |

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 13-33

JULY 2004

| Date | Time | Total Flow | Units | Flow Time | Units | Flow Rate | Units | DP Avg | Units | SP Avg | Units | PT Avg | Units | Saguanaa |
|----------------------|----------|-----------------------|-------|-----------|-------|-----------|-------|--------|-------|--------|-------|--------|-------|----------------|
| 04/07/01 | 07:00:01 | 45,004.90 | SCF | 24:00:00 | hrs | 45,004.90 | SCFD | 4.77 | InH2O | 154.08 | psi | 68.05 | DegF | Sequence 26 |
| 04/07/02 | 07:00:01 | 44,261,70 | SCF | 24:00:00 | hrs | 44.261.70 | SCFD | 4.55 | InH2O | 154.23 | psi | 60.91 | DegF | 27 |
| 04/07/03 | 07:00:01 | 42,479.60 | SCF | 24:00:00 | hrs | 42,479.60 | SCFD | 4.26 | InH2O | 154.62 | psi | 71.34 | DegF | 28 |
| 04/07/04 | 07:00:01 | 41,416.70 | SCF | 24:00:00 | hrs | 41,416,70 | SCFD | 4.06 | InH2O | 154.75 | psi | 73.68 | DegF | 29 |
| 04/07/05 | 07:00:01 | 41,722.20 | SCF | 24:00:00 | hrs | 41,722.20 | SCFD | 4.10 | InH2O | 154.47 | psi | 69.98 | DegF | 30 |
| 04/07/06 | 07:00:01 | 41,475.60 | SCF | 24:00:00 | hrs | 41,475,60 | SCFD | 4.05 | InH2O | 154.30 | psi | 68.89 | DegF | 31 |
| 04/07/07 | 07:00:01 | 41,336.10 | SCF | 24:00:00 | hrs | 41,336.10 | SCFD | 4.04 | InH2O | 154.34 | psi | 71.40 | DegF | 32 |
| 04/07/08 | 07:00:01 | 40,366.90 | SCF | 24:00:00 | hrs | 40,366.90 | SCFD | 3.91 | InH2O | 154.91 | psi | 80.24 | DegF | 33 |
| 04/07/09 | 07:00:01 | 40,380.20 | SCF | 23:59:58 | hrs | 40,381.10 | SCFD | 3.91 | InH2O | 154.63 | psi | 79.56 | DegF | 34 |
| 04/07/10 | 07:00:01 | 42,003.20 | SCF | 24:00:00 | hrs | 42,003.20 | SCFD | 4.25 | InH2O | 153.80 | psi | 79.13 | DegF | 35 |
| 04/07/11 | 07:00:02 | 42,192.50 | SCF | 24:00:00 | hrs | 42,192.50 | SCFD | 4.29 | InH2O | 153.36 | psi | 77.52 | DegF | 36 |
| 04/07/12 | 07:00:01 | 42,367.90 | SCF | 24:00:00 | hrs | 42,367.90 | SCFD | 4,33 | InH2O | 153.39 | psi | 78.76 | DegF | 37 |
| 04/07/13 | 07:00:01 | 41,781.50 | SCF | 24:00:00 | hrs | 41,781.50 | SCFD | 4.25 | InH2O | 153.70 | psi | 84.18 | DegF | 38 |
| 04/07/14 | 07:00:02 | 31,824.70 | SCF | 23:59:58 | hrs | 31,825.40 | SCFD | 2.46 | InH2O | 153.83 | psi | 86.59 | DegF | 39 |
| 04/07/15 | 07:00:01 | 34,087.90 | SCF | 24:00:03 | hrs | 34,086.80 | SCFD | 2.82 | InH2O | 153.22 | psi | 82.25 | DegF | 40 |
| 04/07/16 | 07:00:01 | 34,546.20 | SCF | 23:59:59 | hrs | 34,546.60 | SCFD | 2.87 | InH2O | 153.91 | psi | 78.93 | DegF | 41 |
| 04/07/17 | 07:00:01 | 35,611.90 | SCF | 24:00:00 | hrs | 35,611.90 | SCFD | 3.00 | InH2O | 154.04 | psi | 70.71 | DegF | 42 |
| 04/07/18 | 07:00:02 | 34,943.90 | SCF | 24:00:00 | hrs | 34,943.90 | SCFD | 2.92 | InH2O | 154.22 | psi | 76.91 | DegF | 43 |
| 04/07/19 | 07:00:01 | 34,324.30 | SCF | 24:00:00 | hrs | 34,324.30 | SCFD | 2.83 | InH2O | 154.09 | psi | 80.16 | DegF | 44 |
| 04/07/20 | 07:00:01 | 33,653.30 | SCF | 24:00:00 | hrs | 33,653.30 | SCFD | 2.74 | InH2O | 154.18 | psi | 84.28 | DegF | 45 |
| 04/07/21 | 07:00:01 | 33,314.10 | SCF | 24:00:00 | hrs | 33,314.10 | SCFD | 2.69 | InH2O | 154.67 | psi | 87.07 | DegF | 46 |
| 04/07/22 | 07:00:01 | 34,322.10 | SCF | 24:00:00 | hrs | 34,322.10 | SCFD | 2.83 | InH2O | 154.49 | psi | 80.92 | DegF | 47 |
| 04/07/23 | 07:00:01 | 37,390.00 | SCF | 24:00:00 | hrs | 37,390.00 | SCFD | 3.32 | InH2O | 152.94 | psi | 69.74 | DegF | 48 |
| 04/07/24 | 07:00:02 | 40,602.60 | SCF | 24:00:00 | hrs | 40,602.60 | SCFD | 3.82 | InH2O | 152.55 | psi | 56.18 | DegF | 49 |
| 04/07/25 | 07:00:01 | 41,094.40 | SCF | 24:00:00 | hrs | 41,094.40 | SCFD | 3.92 | InH2O | 152.53 | psi | 56.79 | DegF | 50 |
| 04/07/26 | 07:00:01 | 41,178.10 | SCF | 24:00:00 | hrs | 41,178.10 | SCFD | 3.98 | InH2O | 152.39 | psi | 61.81 | DegF | 51 |
| 04/07/27 | 07:00:02 | 41,145.40 | SCF | 24:00:00 | hrs | 41,145.40 | SCFD | 4.03 | InH2O | 152.10 | psi | 67.79 | DegF | 52 |
| 04/07/28 | 07:00:01 | 42,281.70 | SCF | 24:00:00 | hrs | 42,281.70 | SCFD | 4.31 | InH2O | 151.88 | psi | 73.62 | DegF | 53 |
| 04/07/29 | 07:00:01 | 42,994.60 | SCF | 24:00:00 | hrs | 42,994.60 | SCFD | 4.42 | InH2O | 151.67 | psi | 68.40 | DegF | 54 |
| 04/07/30 | 07:00:01 | 41,969.40 | SCF | 24:00:00 | hrs | 41,969.40 | SCFD | 4.19 | InH2O | 153.26 | psi | 70.72 | DegF | 55 |
| 04/07/31 Flow Gra | 07:00:01 | 39,716.10 1,221.79 | SCF | 24:00:00 | hrs | 39,716.10 | SCFD | 3.75 | InH2O | 154.35 | psi | 74.43 | DegF | 56 |

Flow Grand Total: 1,221.79 MCF

A16: 34.4 MCFPD

PC (6/9/4) = 242 poig

= 255 poia

CONSERVATION COMMISSION

A06: 0.0034 (2552-14.652)

0.88

A06: 0.0034 (2552-14.652)

0.88

AOF = 58.56 MCFPO

Pue 154 paia

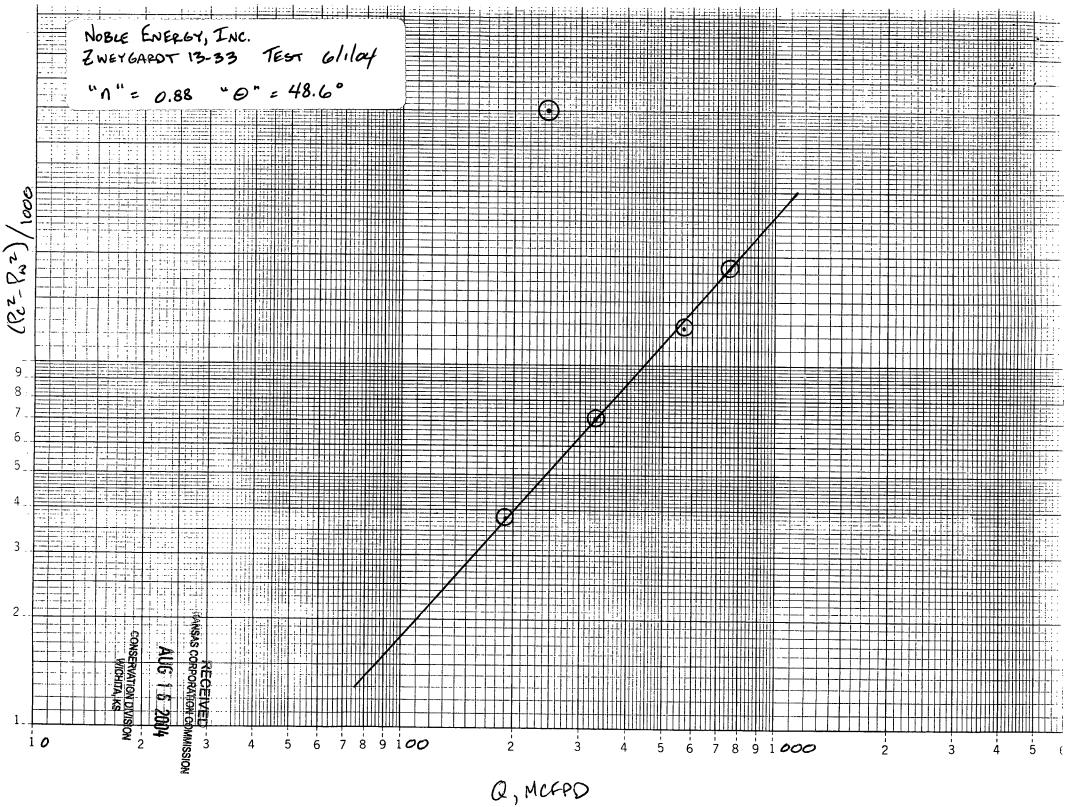
Page Number: 1

ZWEYGARDT 13-33 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 | 10:22:02 | 0.00 | SCF | 00:00:00 | hrs | 0.00 | SCFH | 0.00 | InH2O | 40.42 | psi | 84.52 | DegF | 1 |
| 04/06/07 | 10:22:28 | 0.00 | SCF | 00:00:00 | hrs | 0.00 | SCFH | 0.00 | InH2O | 40.46 | psi | 84.72 | DegF | 2 |
| 04/06/08 | 07:00:01 | 8,953.42 | SCF | 11:35:50 | hrs | 18,528.80 | SCFD | 11.60 | InH2O | -0.17 | psi | 100.62 | DegF | 3 |
| 04/06/09 | 07:00:01 | 36.05 | SCF | 00:13:54 | hrs | 3,734.79 | SCFD | 0.45 | InH2O | 0.08 | psi | 75.65 | DegF | 4 |
| 04/06/10 | 07:00:01 | 36,358.50 | SCF | 13:06:35 | hrs | 66,561.60 | SCFD | 11.03 | InH2O | 144.26 | psi | 63.03 | DegF | 5 |
| 04/06/11 | 07:00:01 | 52,004.60 | SCF | 24:00:00 | hrs | 52,004.60 | SCFD | 6.65 | InH2O | 149.41 | psi | 71.55 | DegF | 6 |
| 04/06/12 | 07:00:02 | 39,625.40 | SCF | 24:00:01 | hrs | 39,625.00 | SCFD | 3.75 | InH2O | 153.45 | psi | 73.27 | DegF | 7 |
| 04/06/13 | 07:00:01 | 39,655.50 | SCF | 23:59:59 | hrs | 39,656.00 | SCFD | 3.75 | InH2O | 153,79 | psi | 74.75 | DegF | 8 |
| 04/06/14 | 07:00:01 | 39,332.70 | SCF | 24:00:00 | hrs | 39,332.70 | SCFD | 3.72 | InH2O | 153.96 | psi | 78.41 | DegF | 9 |
| 04/06/15 | 07:00:01 | 39,216.30 | SCF | 24:00:00 | hrs | 39,216.30 | SCFD | 3.66 | InH2O | 154.45 | psi | 75.28 | DegF | 10 |
| 04/06/16 | 07:00:02 | 32,769.80 | SCF | 24:00:01 | hrs | 32,769.40 | SCFD | 2.58 | InH2O | 152.47 | psi | 74.16 | DegF | 11 |
| 04/06/17 | 07:00:01 | 46,429.00 | SCF | 23:59:59 | hrs | 46,429.50 | SCFD | 5.16 | InH2O | 148.78 | psi | 59.11 | DegF | 12 |
| 04/06/18 | 07:00:01 | 49,139.00 | SCF | 24:00:00 | hrs | 49,139.00 | SCFD | 5.78 | InH2O | 148.12 | psi | 57.09 | DegF | 13 |
| 04/06/19 | 07:00:01 | 64,858.00 | SCF | 24:00:00 | hrs | 64,858.00 | SCFD | 9.76 | InH2O | 150.45 | psi | 48.81 | DegF | 14 |
| 04/06/20 | 07:00:01 | 62,728.50 | SCF | 24:00:00 | hrs | 62,728.50 | SCFD | 9.22 | InH2O | 150.66 | psi | 54.42 | DegF | 15 |
| 04/06/21 | 07:00:01 | 57,925.60 | SCF | 24:00:00 | hrs | 57,925.60 | SCFD | 7.98 | InH2O | 151.27 | psi | 63.71 | DegF | 16 |
| 04/06/22 | 07:00:02 | 56,646.70 | SCF | 24:00:01 | hrs | 56,646.10 | SCFD | 7.51 | lnH2O | 151.11 | psi | 55.15 | DegF | 17 |
| 04/06/23 | 07:00:01 | 55,732.00 | SCF | 23:59:59 | hrs | 55,732.70 | SCFD | 7.48 | InH2O | 150.22 | psî | 66.53 | DegF | 18 |
| 04/06/24 | 07:00:01 | 55,070.00 | SCF | 24:00:00 | hrs | 55,070.00 | SCFD | 7.39 | InH2O | 150.29 | psi | 73.13 | DegF | 19 |
| 04/06/25 | 07:00:02 | 55,616.40 | SCF | 24:00:00 | hrs | . 55,616.40 | SCFD | 7.44 | InH2O | 149.93 | psi | 65.16 | DegF | 20 |
| 04/06/26 | 07:00:01 | 54,662.00 | SCF | 24:00:00 | hrs | 54,662.00 | SCFD | 7.16 | InH2O | 151.07 | psi | 66.66 | DegF | 21 |
| 04/06/27 | 07:00:01 | 54,078.70 | SCF | 24:00:00 | hrs | 54,078.70 | SCFD | 6.97 | InH2O | 151.44 | psi | 65.55 | DegF | 22 |
| 04/06/28 | 07:00:01 | 53,859.20 | SCF | 24:00:00 | hrs | 53,859.20 | SCFD | 6.85 | InH2O | 151.59 | psi | 60.88 | DegF | 23 |
| 04/06/29 | 07:00:02 | 53,049.40 | SCF | 23:59:58 | hrs | 53,050.70 | SCFD | 6.75 | InH2O | 151.32 | psi | 68.37 | DegF | 24 |
| 04/06/30 | 07:00:01 | 49,153.10 | SCF | 24:00:02 | hrs | 49,151.90 | SCFD | 5.77 | InH2O | 153.51 | psi | 72.44 | DegF | 25 |
| Flow Gra | nd Total: | 1,056.90 | MCF | | **** | | ******************************* | | | | | · | | |

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KANSAS CORPORATION COMMISSION CONSERVATION DIVISION WICHITA, KS AUG 1 6 2004

Page Number: 1



INITIAL Test Type; Noble Energy Inc. Company; County;

Cheyenne Cherry Creek State: -Lease; Location :

Kansas Zweygart Tost Date: Well No.;

06/01/04 13 33

Field;

Reservior: PBTD ;

NWSW/4,SEC.33-T3S-R41W Niobrara

Acres : Pipeline Cann.

None

Completion Date;

Casing Size; 4 1/2" Tubing Size ; None Wt.; 10,5# Wt.;

Set @ ; Set@; 1513 1556 Packer Set; Perfs.;

N/A N/A

Type of Completion;

Single Gas

Type Fluid Prod; None

Bar. Press.; Liquid API Grav

Porfs;

13 PSI

Producing Thru; Casing Gas Gravity; .6 (est)

Vertical Depth:

1412

Reservoir Temp. F; -% CO2; -- % N2; --Type Meter Conn.; None

Prover Size ;

N/A 2"

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

OBSERVED DATA

Shut-In Hrs.:

| Rate No. | Orifice Size in. | Prover Press. psig | Flowing Temp. deg. F | Casing Wellhead Pressure psig | psia | Duration | Liquid Prod. bbls. |
|-------------|------------------------|--------------------------|----------------------------|-------------------------------------|------|----------|--------------------------|
| Shut-In | blank | 230 | ٦. | 230 | 243 | 0 | 0 |
| 1 | 3/16 | 222 | 68 | 222 | 235 | 1 | 0 |
| 2 | 1/4 | 215 | 68 | 215 | 228 | • | 0 |
| 3 | 11/32 | 202 | 67 | 202 | 215 | 1 | ŏ |
| 4 | 13/32 | 188 | 67 | 188 | 201 | 1 | ŏ |
| 5 | 11/32 | ВО | 70 | 80 | 93 | 24 | ā |

RATE OF FLOW CALCULATIONS

| Rate No | Coeffi- clent mcfd | Prover Press. psie | Gravity Factor Fg | Temp. Factor Ft | Deviation Factor Fpy | Rate of Flow Q mcfd | |
|------------|--------------------------|--------------------------|-------------------------|-----------------------|----------------------------|---------------------------|--|
| 1 | 0.6237 | 235 | 1.291 | 0.9924 | 1,0169 | 191 | |
| 2 | 1.1150 | -228 | 1.291 | 0.9924 | 1.0164 | 331 | |
| 3 | 2,0350 | 215 | 1,291 | 0.9933 | 1.0154 | 570 | |
| 4 | 2.9066 | 201 | 1.291 | 0.9933 | 1.0144 | 760 | |
| 5 | 2.0350 | 93 | 1.291 | 0.9905 | 1.0088 | 244 | |

PRESSURE CALCULATIONS

| Rate No. | Pc psia | Pw | Pc^2 /1000 | Pw^2 /1000 | Pc^2-Pw^2 /1000 | Q mofd | Shut- in % |
|-------------|------------|-----|---------------|---------------|--------------------|-----------|---------------|
| 1 | 243 | 235 | 59.0 | 55.2 | 3.8 | 191 | 96,52 |
| 2 | 243 | 228 | 59,0 | 52.0 | 7.1 | 331 | 93.48 |
| 3 | 243 | 215 | 59.0 | 46.2 | 12.8 | 570 | 87.83 |
| 4 | 243 | 201 | 59.0 | 40.4 | 18.6 | 760 | 81.74 |
| 5 | 243 | 93 | 58,0 | 8.8 | 50.4 | 244 | 34.78 |

INDICATED WELLHEAD OPEN FLOW =

279.31

Mcfd

"n" = 0.88

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 3rd day of June , 2004

Wayne Mahon

For Excell Drilling Co.

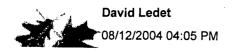
RECEIVED KANSAS CORPORATION COMMISSION

AUG 1 6 2004

RECEIVED JUN 2 1 2004 KCC WICHITA

Title: Field Tachnician

CONSERVATION DIVISION WICHITA, KS



To: Scott Steinke/Production/Houston_Onshore/Samedan@Samedan

Subject: one-pt test for KS wells

Scott,

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

Zweygardt 13-33

SIFBU on 6-2-04

SICP on 6-9-04 at 242 psi

Turned on to sales 6-10-04,-

.500 orfice plate -

Production for 6-11-04 = 52 mcf

6-12-04 = 52 mcf

6-13-04 = 39 mcf

Zweygardt 22-5

SIFBU on 6-3-04

SICP on 6-7-04 at 272 psi

Turned on to sales 6-7-04 -

.500 orfice plate

Production for 6-8-04 = 29 mcf

6-9-04 = 57 mcf

6-10-04 = 57 mcf

6-11-04 = 57 mcf

Zweygardt 31-5

SIFBU on 6-1-04

SICP on 6-7-04 at 265 psi

Turned on to sales 6-7-04 -

.500 orfice plate

Production for 6-8-04 = 31 mcf

6-9-04 = 31 mcf

6-10-04 = 55 mcf

6-11-04 = 46 mcf

Zweygardt 13-32

SIFBU on 6-4-04

SICP on 6-9-04 at 262 psi

Turned on to sales on 6-9-04 -

.500 orfice 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

RECEIVED KANSAS CORPORATION COMMISSION

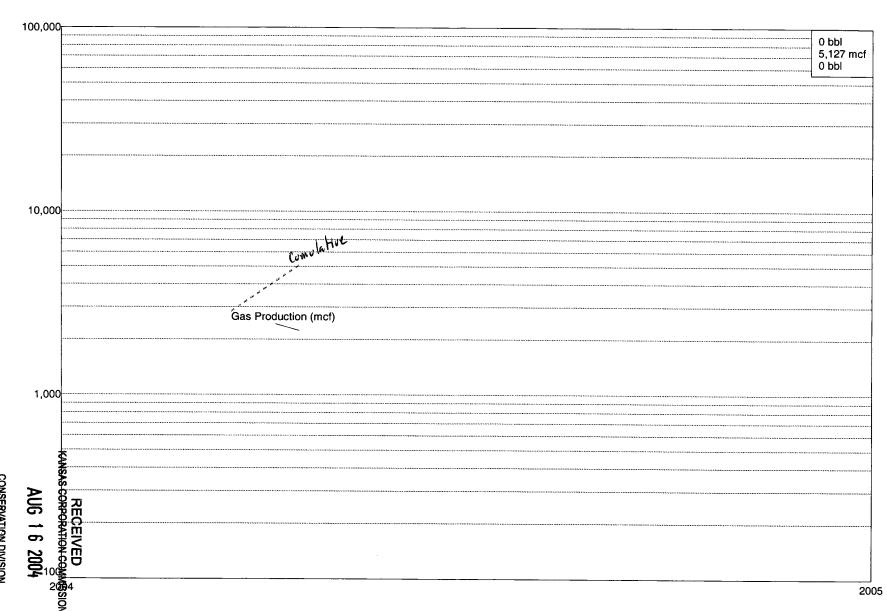
AUG 1 6 2004

CONSERVATION DIVISION WICHITA, KS

Lease Name: ZWEYGARDT County, State: CHEYENNE, KS Operator: SAMEDAN OIL CORPORATION Field: CHERRY CREEK NIOBRARA Reservoir: NIOBRARA

Location: 33 3S 41W S2 NW SW

ZWEYGARDT - SAMEDAN OIL CORPORATION NIOBRARA as of 04/2004 CHERRY CREEK NIOBRARA



Time

Production Rates / menth