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

Type Test	:				(See Instructi	ons on Hev	rerse Siae,)			
	en Flow			Test Dat	e: איזיעל ,:			API I	No. 15	,,,,,	10
	liverabilty	<i>'</i>			ין צייטער					13 - 205 4	19-00-00
Company	Nos	LE ENE	RGY, INC			Lease Z	Weyaa	off 13	132		Well Number
County	reyenn		ation Nwらw	Section	32	1 445		LING (E)	Y) : 14.	V	Acres Attributed
Field Cí	verry	Creek	-	Reservo	" Niob	rara		Gas Gath	ering Conn	Bitter	Crzek KANSAS CORPO
Completio	n Date	6/3/0	 'Ч	Plug Bad	ck Total Depti	155	6	Packer Se	et at	A	KANSAS CORPO
Casing Si	ze L	ł. S Wei	ght 10.5	Internal	Diameter	Set a	t	Perfora		1450 To	1486 AUG
Tubing Si	ZØ	Vla Wei	ght	Internal	Diameter	Set a	t	Perfora	ations	То	CONSERVATI
Type Com	pletion (Describe) (jas	Type Flu	id Production	600	,	Pump Uni	t or Traveling	•	No
Producing	Thru (A	nnulus / Tub	ing) Casing	% (Carbon Dioxid			% Nitroge	n 4.6	Gas G	ravity - G
Vertical D	epth(H)				Press	ure Taps				(Meter	Run) (Prover) Size
Pressure	Buildup:	Shut in	6/3	an O'4 at	7	AM (PM)	Taken	6/7	20		7 (AM) (PM)
Well on Li		Started		20 at		(AM) (PM)				at	
		· · · · · · · · · · · · · · · · · · ·			OBSERVE	SURFACE	DATA			Duration of Shut	-in <u>G</u> Hour
Static /	Orifice	Circle on		Flowing	Well Head	Casi Wellhead F	ng	1	bing d Pressure	Duration	Liquid Produced
Dynamic Property	Size (inches)	Prover Pres	ssure in	Temperature t	Temperature t	(P _w) or (P _t		1	P ₁) or (P _c)	(Hours)	(Barrels)
Shut-In						ролу	275	<u> </u>	1		
Flow	0.50	147	9.6	68	68				147	744	C
				<u></u>	FLOW STR	EAM ATTRI	BUTES		<u> </u>		
Plate Coefficci (F _b) (F _c	ent	Circle one: Meter or Prover Pressure	Press Extension ✓ P _m x h	Gra Fac	tor Te	Flowing emperature Factor	Devi	etor	Metered Flor	w GOR (Cubic Fe Barrel)	eet/ Fluid
Mcfd		psia	l man		g	F _{it}		pv	(.		' G _m
	1	<u></u>	 	(OPEN FL	.OW) (DELIVE	ERABILITY)	CALCUL	ATIONS		(P.))2 = 0.207
P _c) ² =	:	(P _w) ²	'=:	P _d =	%	's (P	_c - 14.4) +	14.4 =	:)2 =
(P _c) ² - (P or (P _c) ² - (P		(P _c) ² - (P _w) ²	Choose formula 1 or 1. P _c ² -P _c ² 2. P _c ² -P _c ²	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Slop	sure Curve e = "n" or igned ard Slope	n x LC	og 📗	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
			divided by: P _c ² · P _c	y by:	<u></u>	Standa	ind Slope	0	30		
			SE	E Am	TCHED	SHE	ET	Fee	Juni,	2004	
Open Flow	v	81	Mcfd @ 14	.65 psia		Deliverabi	lity			Mcfd @ 14.65 ps	ia
	•	•	on behalf of the	, •		•		make the		ort and that he ha	as knowledge of , 20 <u>C J</u>
		14/3=	o (if any)			_	Sud	y st	mto	Scori	STEINE
			s (if any)								
		For Con	nmission						Che	cked by	

					n authorized to request
exempt status under Ru	le K.A.R. 82-3-30	4 on behalf of t	he operator	Noble En	ersy, Inc
nd that the foregoing	pressure informa	tion and state	ments contained	on this application	ation form are true and
orrect to the best of m	knowledge and l	belief based up	oon available pro	duction summ	aries and lease records
					gas well herein named.
I hereby request a c	ne-year exemption	on from open fl	ow testing for the	e they go	udt 13-32
as well on the grounds	that said well:				
(Check one)					
	coalbed methane	producer			
	cled on plunger li	•			
	source of natural			ervoir underaoir	na ER
=	vacuum at the pr	•		J	.5 /
=	t capable of prod				
4			•		
I further agree to su	pply to the best o	of my ability an	y and all suppor	ting documents	deemed by Commission
aff as necessary to co	rroborate this cla	im for exempt	ion from testing.		
1 .		•			
ate: 8/13/04					KANSAS CORPORATION COM
					ALIO COM
					AUG 1 6 2004
					ONSERVATION
		Signature:	Sut a	Stembo	WICHITA, KS
			6.,		
		Signature:	ENGINE	74 WWW W	

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
Date	Time 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
04/07/01	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
04/07/02	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
04/07/03	07:00:02	61,245.90	SCF	24:00:00	hrs	61,245.90	SCFD	9.19	InH2O	149.04	psi	71.45	DegF	29
04/07/04	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 31
04/07/06	07:00:01	62,108.10	SCF	24:00:00	hrs	62,108.10	SCFD	9.41	InH2O	148.30	psi	66.99	DegF	
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 33
04/07/08	07:00:02	59,826.00	SCF	24:00:01	hrs	59,825.30	SCFD	8.86	InH2O	149.34	<u>psi</u>	77.58	DegF	34
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	
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 37
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	38
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	
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 77.70	DegF DegF	39 40
04/07/15	07:00:02	61,880.20	SCF	24:00:01	hrs	61,879.50	SCFD	9.62	InH2O	147.05	psi	74.84	DegF	41
04/07/16	07:00:01	61,074.60	SCF	23:59:59	hrs	61,075.40	SCFD	9.26	InH2O	147.97	psi	68.06	DegF	42
04/07/17	07:00:01	61,814.60	SCF	24:00:00	hrs	61,814.60	SCFD	9.36	InH2O	148.13	psi	73.22	DegF	43
04/07/18	07:00:01	60,633.40	SCF	24:00:00	hrs	60,633.40	SCFD	9.08	InH2O	148.38	psi psi	76.38	DegF	44
04/07/19	07:00:02	60,225.70	SCF	24:00:01	hrs	60,225.00	SCFD	9.01	InH2O	148.29	psi	79.50	DegF	45
04/07/20	07:00:02	59,668.40	SCF	24:00:00	hrs	59,668.40	SCFD	8.89	InH2O	148.46		82.18	DegF	46
04/07/21	07:00:02	58,257.00	SCF	24:00:00	hrs	58,257.00	SCFD	8.48	InH2O	148.82	psi	76.92	DegF	47
04/07/22	07:00:02	59,137.80	SCF	23:59:59	hrs	59,138.50	SCFD	8.67	InH2O	146.38	psi psi	67.94	DegF	48
04/07/23	07:00:02	63,359.10	SCF	24:00:01	hrs	63,358.30	SCFD	9.94	InH2O	145.77	psi	55.72	DegF	49
04/07/24	07:00:02	65,380.10	SCF	24:00:00	hrs	65,380.10	SCFD	10.37	InH2O	145.78	psi	55.68	DegF	50
04/07/25	07:00:02	65,302.20	SCF	24:00:00	hrs	65,302.20	SCFD	10.34	InH2O	145.64		60.37	DegF	51
04/07/26	07:00:02	64,869.40	SCF	24:00:00	hrs	64,869.40	SCFD	10.31	InH2O	145.35	psi psi	66.53	DegF	52
04/07/27	07:00:01	64,432.00	SCF	23:59:59	hrs	64,432.70	SCFD	10.32	InH2O	145.05		71.12	DegF	53
04/07/28	07:00:02	64,169.60	SCF	24:00:00	hrs	64,169.60	SCFD	10.52	InH2O	144.72	psi psi	66.68	DegF	54
04/07/29	07:00:01	64,921.30		24:00:00	hrs	64,921.30	SCFD	9.57	InH2O	147.16	psi	68.67	DegF	55
04/07/30	07:00:02	62,297.80		24:00:01	hrs	62,297.10	SCFD	8.77	InH2O	148.68	psi	71.68	DegF	56
04/07/31	07:00:02	59,756.10		23:59:57	hrs	59,758.20	SCFD	0.77	1111120	170.08	1 155	1		
Flow G	rand Total:	1,920.65	MCF		_				0	w= 147	nain			

ANG 62 MCFPO

Pc (6/9/04) = 262 psis = 275 psia Pw= 147 psia

Q: C(PC7-Pw7) N 62: C(C252-1.177)

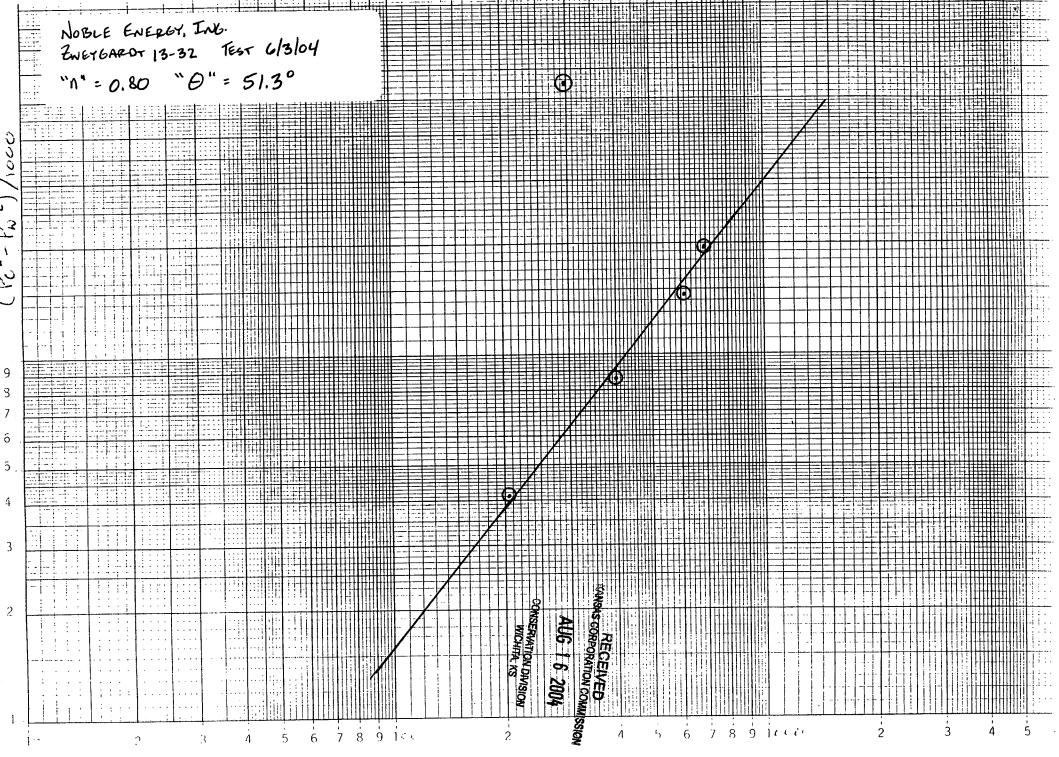
AOF = 0.0101 (275, 1465,) 0,80

The state of the s

ZWEYGARDT 13-32 JUNE 2004

	m	Tatal Elem	Units	Flow Time	Units	Flow Rate	Units	DP Avg	Units	SP Avg	Units	PT Avg	Units	Sequence
Date	Time	Total Flow	SCF	00:00:00	hrs	0.00	SCFD	0.00	InH2O	12.57	psi	146.27	DegF	1
04/06/07	16:05:27	0.00	SCF	00:00:00	hrs	0.00	SCFD	0.00	InH2O	12.58	psi	102.46	DegF	2
04/06/07	16:05:43	0.00		00:00:00	hrs	0.00	SCFD	0.00	InH2O	0.08	psi	85.83	DegF	3
04/06/08	07:00:01	0.00	SCF	00:00:00	hrs	0.00	SCFD	0.00	InH2O	0.20	psi	79.27	DegF	4
04/06/09	07:00:01	0.00	SCF	00:00:00	hrs	0.00	SCFD	0.00	InH2O	0.22	psi	69.91	DegF	5
04/06/10	07:00:02	0.00	SCF			60,661.10	SCFD	9.24	InH2O	144.27	psi	65.52	DegF	6
04/06/11	07:00:02	35,820.90	SCF	14:10:20	hrs	56,728.80	SCFD	8.01	InH2O	146.17	psi	70.71	DegF	7
04/06/12	07:00:02	56,730.80	SCF	24:00:03 23:59:59	hrs	55,923.10	SCFD	7.80	InH2O	146.46	psi	72.19	DegF	8
04/06/13	07:00:02	55,922.40	SCF		hrs	55,236.30	SCFD	7.64	InH2O	146.72	psi	75.51	DegF	9
04/06/14	07:00:02	55,237.00	SCF	24:00:01	hrs	54,830.70	SCFD	7.46	InH2O	147.41	psi	73.04	DegF	10
04/06/15	07:00:02	54,830.70	SCF	24:00:00	hrs	56,281.80	SCFD	7.96	InH2O	145.16	psi	71.66	DegF	11
04/06/16	07:00:02	56,281.80	SCF	24:00:00	hrs	60,262.50	SCFD	9.04	InH2O	142.49	psi	58.10	DegF	11 12
04/06/17	07:00:02	60,261.80	SCF	23:59:59	hrs	61,032.10	SCFD	9.28	InH2O	141.79	psi	56.22	DegF	13
04/06/18	07:00:01	61,032.10	SCF	24:00:00	hrs	60,707.50	SCFD	8.94	InH2O	143.32	psi	48.10	DegF	14
04/06/19	07:00:01	60,707.50	SCF	24:00:00	hrs	59.041.80	SCFD	8.52	InH2O	143.86	psi	53.69	DegF	14 15
04/06/20	07:00:02	59,040.40	SCF	23:59:58	hrs		SCFD	7.99	InH2O	145.00	psi	63.07	DegF	16
04/06/21	07:00:02	56,848.40	SCF	24:00:03	hrs	56,846.40	SCFD	8.03	Inl120	144.80	psi	54.34	DegF	17
04/06/22	07:00:01	57,448.10	SCF	23:59:59	hrs	57,448.80	SCFD	8.14	InH2O	144.30	psi	65.99	DegF	18
04/06/23	07:00:02	57,095.40	SCF	24:00:01	hrs	57,094.70	SCFD	8.01	InH2O	144.50	psi	72.27	DegF	19
04/06/24	07:00:02	56,322.70	SCF	24:00:00	hrs	56,322.70		8.21	InH2O	143.99	psi	64.61	DegF	20
04/06/25	07:00:02	57,343.30	SCF	23:59:57	hrs	57,345.30	SCFD	8.17	InH2O	144.53	psi	65.70	DegF	21
04/06/26	07:00:02	57,247.00	SCF	24:00:03	hrs	57,245.00	SCFD	8.03	InH2O	145.01	psi	64.41	Degl	22
04/06/27	07:00:02	56,916.60	SCF	23:59:58	hrs	56,917.90	SCFD		InH2O	145.20	psi	60.02	DegF	23
04/06/28	07:00:02	57,109.70		24:00:02	hrs	57,108.40	SCFD	8.00 7.95	Inti2O	144.89	psi	67.72	DegF	24
04/06/29	07:00:02	56,433.50		23:59:57	hrs	56,435.50	SCFD	. I	InH2O	147.27	psi	70.56	DegF	25
04/06/30	07:00:02	63,999.10	SCF	24:00:03	hrs	63,996.90	SCFD	10.13	111120	1 197.27	; par	1 , , , , , ,		J
Flow Gr	and Total:	1,132.63	MCF	J										

RECEIVED
RECEIVED
AUG 1 6 2004



Con West >

J (UU4UUJ J J

MULTIPOINT BACK PRESSURE TEST

Test Type;

INITIAL

Company; County:

Nobia Energy inc. Cheyenne

Field;

State: Lease:

Location;

Reservior;

Kansas

Zweygart NWSW/4,SEC,32-T39-R41W

Niobrara

Well No.;

Acres; Pipeline Conn.

Test Date:

13 32 None

06/03/04

Cherry Creek

PBTD: Snt @ ;

1596 1638 Packer Set;

Perfs. : Perfs;

N/A N/A

Type of Completion;

Casing Size; 4 1/2" Tubing Size :

Completion Date;

Nane

Wt.; 10.5# WL: Single Gas

Set @: Type Fluid Prod; None

Bar. Press.;

13 PSI

Producing Thru; Casing

Gas Gravity ; .6 (est) Vertical Depth;

1488

Reservoir Tomp. F; -% CO2; - % N2; -Type Mater Conn.; None

Liquid API Grav Provet Size;

N/A 2"

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

Rata No.			OBSERV	ED DATA		Shut-in Hrs.:	
	Orifice Size In.	Prover Prese. psig	Flowing Temp. deg. F	Casing Wellhead Pressuro psig	psla_	Duration hrs.	Liquid Prod. bbis,
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	00

RATE OF FLOW CALCULATIONS

Rate No.	Coeffi- cient mcfd	Prover Press, psla	Grewity Factor Fg	Temp, Factor Ft	Deviation Factor Fpv	Rate of Flow Q mcfd	
1	0.6237	252	1,291	0.9905	1.0179	205	
ż	1.2640	243	1.291	0,9905	1.0172	400	
3	2.0350	230	1,291	0.9905	1,0163	. 608	
4	2,4380	219	1.291	0.9905	1.0155	694	
Ś	2.0350	113	1,291	0.9905	1.0079	296	

PRESSURE CALCULATIONS

Rats No.	Pc psia	Pw psla	Pc^2 /1000	Pw^2 /1000	Pc^2-Pw^2 /1000	Q mc(d	Shut- In %	·
1	260	252	67.6	63,5	4.1	205	96.76	
2	260	243	87.6	59.0	8.6	400	93.12	
3	260	230	67.6	52.9	14.7	608	87.85	
4	260	219	87.6	48.0	19,6	694	83.40	RECEIVED
5	260	113	67.6	12.8	54.8	296	40.49(ANSA	RECEIVED S CORPORATION COMMISSION

INDICATED WELLHEAD OPEN FLOW = 349,82 Mcfd "n" = 0.80

AUG 1 6 2004

CONSERVATION DIVISION

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 4th day of 7 12 2 20 0 7

Wayne Mahon

For Excell Drilling Co.

Signed: Le acre Brish Title: Field Technician RECEIVED

JUN 2-1 2004

KCC WICHITA



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:

Zwevgardt 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