

GENERAL INFORMATION

Client Information:

Company: Becker Oil Corp

Contact: Clyde Becker Jr.

Phone: Fax: e-mail:

Site Information:

Contact: Doug Brown

Phone: Fax: e-mail:

Well Information:

Name: Lippoldt #1

Operator: Becker Oil Corp

Location-Downhole: 6-23s-20w Edwards co KS

Location-Surface:

Test Information:

Company: Trilobite Testing

Representative:

Supervisor: Paul Simpson

Test Type: Initial 4pt @ 1pt Job Number:

Test Unit:

Start Date: 2002/02/07 Start Time: 10:50:00

End Date: 2002/02/08 End Time: 12:30:00

Report Date: Prepared By:

Remarks: Qualified By:

146 miles 2/7 142 miles 2/8

4pt 295
1pt 115
miles 124.10
120.70

654.80

**KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM G-2
(Rev.8/98)

TYPE TEST:

- ☒ Open Flow
☒ Deliverability

TEST DATE:

API No. 15-047-21462

Company Becker Oil Corp.		Lease Lippoldt			Well Number 1	
County Edwards	Location 2330'FSL 2100'F	Section 6	TWP 23s	RNG (E/W) 20w	Acres Attributed	
Field Groner	Reservoir Towanda	Gas Gathering Connection Key Gas				
Completion Date	Plug Back Total Depth 2570	Packer Set at none				
Casing Size 4.500	Weight 10.500	Internal Diameter 4.052	Set at 2572	Perforations 2533	To 2544	
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at 2497	Perforations	To	
Type Completion (Describe) single	Type Fluid Production water	Pump Unit or Traveling Plunger? no				
Producing Thru (Annulus/Tubing) tubing	% Carbon Dioxide .026	% Nitrogen 28.705			Gas Gravity- Gg .688	
Vertical Depth (H) 2539	Pressure Taps flange	Meter Run Size 3.067				
Pressure Buildup: Shut in			TAKEN	2/7/2002 @ 1050		
Well on Line: Started 2/7/2002 @ 1050			TAKEN	2/8/2002 @ 1230		

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						679	693	679	693		
Flow	1.000	106.0	16.00	49		595	609	594	608	25.6	

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
4.912	120.4	43.89	1.2056	1.0107	1.0078	264		.688

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P _c) ² = 480.8		(P _w) ² = 371.4		P _d = 15.3		% (P _c - 14.4) + 14.4 =		(P _a) ² = 0.207
(P _c) ² - (P _a) ²		(P _c) ² - (P _w) ²		LOG		Backpressure Curve Slope "n" ----- or ----- Assigned Standard Slope		(P _d) ² = 11.24
or (P _c) ² - (P _d) ²		$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$		LOG		n x LOG		Open Flow Deliverability = R x Antilog Mcfd
480.60		109.44		4.392		.6426		901
469.57		109.44		4.291		.6325		884

OPEN FLOW 901 Mcfd @ 14.65 psia DELIVERABILITY 884 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 12 day of Feb, 20 02

Witness (if any)

For Commission

For Company

Checked by

**KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST**

FORM G-1
8-7-58

TYPE TEST: ☒ Initial ☐ Annual ☐ Special		TEST DATE: 2/7/02	
COMPANY Becker Oil Corp.		LEASE Lippoldt	
COUNTY Edwards		WELL NO. 1	
LOCATION 2330'FSL 2100'F	SECTION 6	TWP 23s	RNG 20w
FIELD Towanda		PIPELINE CONNECTION	
COMPLETION DATE	PLUG BACK DEPTH TOTAL DEPTH 2573	PACKER SET AT	
CASING SIZE 4.500	WT. 10.500	ID 4.052	SET AT 2572
		PERF. 2533	TO 2544
TUBING SIZE 2.375	WT. 4.700	ID 1.995	SET AT 2497
TYPE COMPLETION (Describe)		TYPE FLUID PRODUCTION water	
PRODUCING THRU (Annulus/Tubing) tubing		RESERVOIR TEMPERATURE F 105	BAR PRESS - Pa 14.4 psia
GAS GRAVITY - Gg .688	% CARBON DIOXIDE .026	% NITROGEN 28.705	API GRAVITY OF LIQUID
VERTICAL DEPTH (H) 2539	TYPE METER CONN.		PROVER SIZE 2"
REMARKS			

OBSERVED SURFACE DATA

RATE NO.	ORIFICE SIZE in.	(PROVER) 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						679	693	679	693		
1.	.500	17.00		60		648	662	648	662	1.00	
2.	.500	37.00		66		620	634	620	634	1.00	
3.	.500	61.00		72		580	594	579	593	1.00	
4.	.500	91.00		70		536	550	534	548	1.00	

FLOW STREAM ATTRIBUTES

RATE NO.	COEFFICIENT (F _p) Mcfd	(PROVER) 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.	4.380	31.4	31.40	1.2058	1.0000	1.0013	166		.688
2.	4.388	51.4	51.40	1.2058	.9943	1.0027	271		.688
3.	4.388	75.4	75.40	1.2058	.9887	1.0042	396		.688
4.	4.388	105.4	105.40	1.2058	.9905	1.0060	555		.688

PRESSURE CALCULATION

RATE NO.	P _t psia	P _c psia	P _w psia	(P _c) ² Thousands	(P _w) ² Thousands	PLOTING POINTS		100 $\left[\frac{P_w - P_a}{P_c - P_a} \right]$
						(P _c) ² - (P _w) ² Thousands	Q Mcfd	
1.	662.4	693.4	662.4	480.8	438.8	42.0	166.1	95.4
2.	634.4	693.4	634.4	480.8	402.5	78.3	271.1	91.3
3.	593.4	693.4	594.4	480.8	353.3	127.5	396.1	85.4
4.	548.4	693.4	550.4	480.8	302.9	177.9	555.7	78.9

INDICATED WELLHEAD OPEN FLOW

1229

Mcfd @ 14.65 psia

"n" = .828

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 12 day of Feb, 20 02

Witness (if any)

For Commission

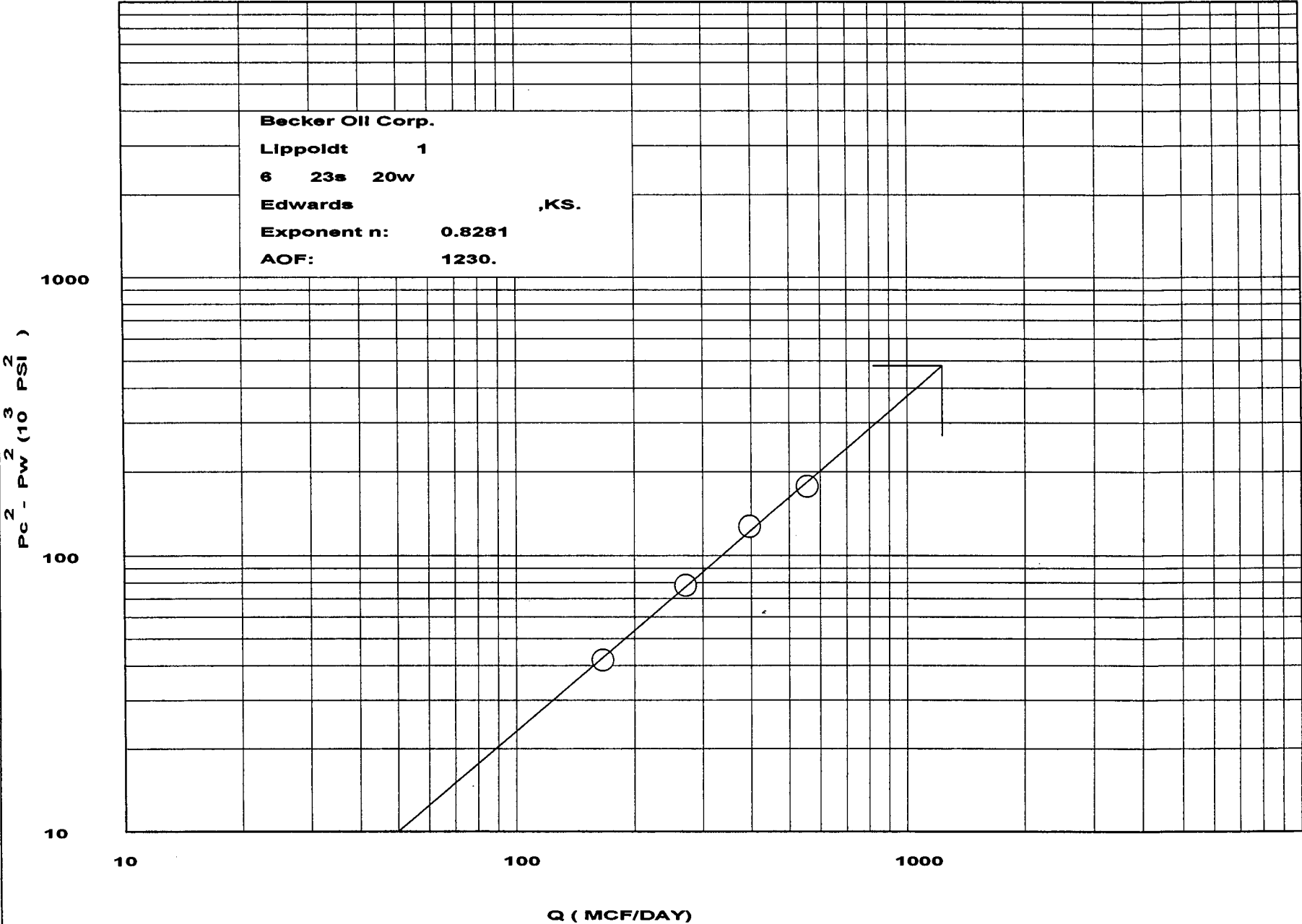
For Company

Checked by

GAS WELL BACK PRESSURE CURVE

WELL TESTER: Trilobite Testing

TEST DATE: 2/7/02



NATURAL GAS ANALYSIS REPORT

Sampled by: Analyzed by:

Trilobite Testing, Inc.
Hays, Kansas

Caraway Analytical, Inc
P. O. Box 2137

Hays, Kansas

Hays, Kansas 67905

Sample From: Lippoldt #1 DST 2
Producer: Becker Oil

Pressure:
Temperature:

Date Location: 6-23-20

Time:
Sampler:
Source:

County: Edwards
State: Kansas
Formation: Towanda

	Mole %	GPM
Helium	He: 0.985	0.000
Hydrogen	H2: 0.037	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 28.705	0.000
Carbon Dioxide	CO2: 0.026	0.000
Methane	C1: 68.686	0.000
Ethane	C2: 0.841	0.225
Propane	C3: 0.194	0.053
Iso Butane	iC4: 0.037	0.012
Normal Butane	nC4: 0.039	0.012
Iso Pentane	iC5: 0.052	0.019
Normal Pentane	nC5: 0.082	0.030
Hexanes Plus	C6+: 0.316	0.138

TOTAL: 100.000 0.489

Z Fact: 0.9986

SP.GR.: 0.6878

BTU (SAT): 727.5 @ 14.73 psia
BTU (DRY): 740.4 @ 14.73 psia
OCTANE RATING: 90.6

COMMENTS:

0.000

Becker Oil Corp
 2330' FSL 2100 FWL 6 23s 20w Edwards Ks
 Start Test Date: 2002/02/07
 Final Test Date: 2002/02/08

Lippoldt #1

FieldNotes

Field Measurements

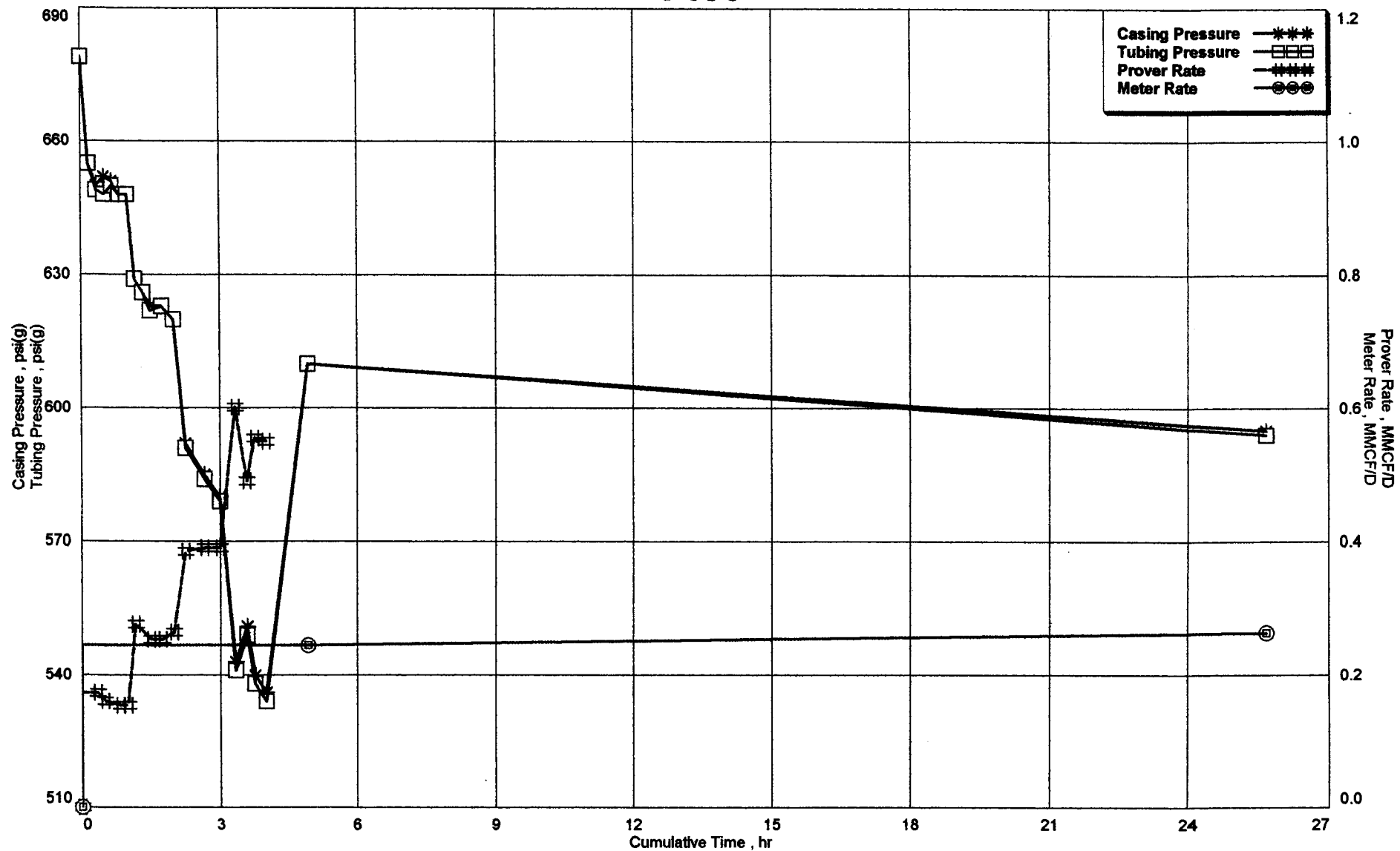
	Date	Clock Time	Comments	Tubing Pres	Casing Pres	Static1 Pres	Meter1 Temp	Prover Rate	Meter Rate	Static2 Pres	Diff2 Pres	Meter2 Temp
	yyyy/mm/dd	hh:mm:ss		psi(g)	psi(g)	psi(g)	°F	MMCF/D	MMCF/D	psi(g)	in of H2O	°F
1	2002/02/07	10:50:00	shutin									
2		10:50:00		679.00	679.00	0.00	0.00	0.000				
3		11:00:00		655.00	655.00							
4		11:10:00		649.00	650.00	20.00	54.00	0.173				
5		11:20:00		648.00	652.00	18.00	54.00	0.161				
6		11:30:00		650.00	651.00							
7		11:40:00		648.00	648.00	17.00	60.00	0.154				
8		11:50:00	1st pt									
9		11:50:00		648.00	648.00	17.00	60.00	0.154				
10		12:00:00		629.00	629.00	39.00	64.00	0.277				
11		12:10:00		626.00	626.00							
12		12:20:00		622.00	623.00	35.00	70.00	0.254				
13		12:35:00		623.00	623.00	35.00	70.00	0.254				
14		12:50:00	2nd pt									
15		12:50:00		620.00	620.00	37.00	70.00	0.265				
16		13:05:00		591.00	592.00	60.00	72.00	0.385				
17		13:30:00		584.00	585.00	61.00	72.00	0.390				
18		13:50:00	3rd pt									
19		13:50:00		579.00	580.00	61.00	72.00	0.390				
20		14:10:00		541.00	543.00	101.00	72.00	0.601				
21		14:25:00		549.00	551.00	80.00	72.00	0.491				
22		14:35:00		538.00	540.00	92.00	70.00	0.555				
23		14:50:00	4th pt									
24		14:50:00		534.00	536.00	91.00	70.00	0.550				
25		14:50:00	started one point test									
26		15:45:00		610.00	610.00				0.245	97.00	15.00	51.00
27	2002/02/08	12:30:00		594.00	595.00				0.264	106.00	16.00	49.00

2002/02/07 10:50:00 To 2002/02/08 12:30:00
 Gas 0.325 Cum. 0.325 MMCF

Becker Oil Corp
2330' FSL 2100 FWL 6 23s 20w Edwards Ks
Start Test Date: 2002/02/07
Final Test Date: 2002/02/08

Lippoldt #1

Plot



Company: <u>Sector Oil Corp</u>				15-047-21462					
Address:									
Wellname: <u>Lippoldt #1</u>				2533-44					
Legal: <u>2330 FSL 2100 FwL</u>				Sec: <u>6</u>		Twp: <u>23s</u>		Rge: <u>20w</u>	
Formation: <u>Towanda</u>			Field/Pool:			County: <u>Edwards</u>		St: <u>Ky</u>	
Casing size: <u>4.5</u>		Feet of: <u>2572</u>		Wt: <u>10.5</u>		Meter run size:		SI: <u>679</u>	
Tubing Size: <u>2.3/8</u>		Feet of: <u>2497</u>		Wt: <u>4.7</u>		Orif (in):		95% <u>645</u>	
TD: <u>2573</u>		Plugged back depth:			Packer depth:			90% <u>611</u>	
Type Test: <u>4 pt</u>			Tap Type:			Gravity:		85% <u>577</u>	
Type Completion:				Producing through: <u>Tubing</u>				80% <u>543</u>	

Date	Clk Tim	Tbg Pres	Csg Pres	Diff	Temp	Static/Prover	Wat Vol1	Oil Vol	Comment
mm/dd	clock	psi	psi	in of H2O	F	PSI	inch	inch	
2/7	1050	679	679						ST
	1100	655	655						
	1110	649	650		54	20			
	1120	649	652		54	18			
	1130	650	651						
	1140	648	648		60	17			
	1150	648	648						1st point
	1200	629	629		64	38			
	1210	626	626						
	1220	622	623		70	35			
	1235	623	623						
	1250	620	620		70	37			2nd pt
	1305	591	592		72	60			
	1330	584	585						
	1350	579	580		72	61			3rd pt
1410	1350	541	543						3rd pt
	1425	549	551		72	80			
	1435	538	540		70	92			
	1450	534	536		70	91			
1 pt	1500 1520	594	595	16	49	106			

Date	Miles	Name	Date	Miles	Name	Date	Miles	Name
2/7	146	RS,						
2/8	142							

1254.36

Company: <u>Decker/KC Exploration</u>				15-047-21462					
Address:									
Wellname: <u>Lippold A1</u>				2533.44					
Legal: <u>2330 FSL 2100 FWL</u>				Sec: <u>6</u>		Twp: <u>23s</u>		Rge: <u>20w</u>	
Formation: <u>Towarda</u>			Field/Pool:			County: <u>Edwards</u>		St: <u>Ks</u>	
Casing size: <u>4.5</u>		Feet of: <u>2572</u>		Wt: <u>10.5</u>		Meter run size:		SI: <u>679</u>	
Tubing Size: <u>2.3/8</u>		Feet of: <u>2497</u>		Wt: <u>4.7</u>		Orif (in):		95% <u>645</u>	
TD: <u>2573</u>		Plugged back depth:			Packer depth:			90% <u>611</u>	
Type Test: <u>4 pt</u>			Tap Type:			Gravity:		85% <u>577</u>	
Type Completion:				Producing through: <u>Tubing</u>				80% <u>543</u>	

Date	Clk Tim	Tbg Pres	Csg Pres	Diff	Temp	Static/Prover	Wat Vol1	Oil Vol	Comment
mm/dd	clock	psi	psi	in of H2O	F	PSI	inch	inch	
11/16	10:50	128.52	107.23		40.7	13			SI
	11:00	128.00	107.93		41.3	14			
11/17	00:30	108.63	104.01		41.3	12			
	01:20	109.90	111.41		52.1	13			
	07:30	109.56	77.26		30.9	8			
	10:30	109.21	82.85		39.2	12			
	11:30	114.81	84.38		56.5	2			1st point
	13:30	212.10	83.63		55.3	2			
	14:30	208.51	81.70		53.6	3			
	16:30	188.26	72.36		47.0	32			
	20:30	212.21	105.15		45.1	2			
	22:30	204.68	108.46		42.1	37			2nd pt
11/18	00:30	209.10	123.71		49.2	18			
	07:30	238.44	98.16		26.6	12			
	10:50	579.2	580.74		72.4	14			3rd pt
11/10	10:50	811.24	811.45		70	4			3rd pt
	11:25	546.0	552		72	20			
	14:35	538	540		70	92			
	14:50	530	530		70	91			
	14:50								

Date	Miles	Name	Date	Miles	Name	Date	Miles	Name
21	1	DS						

1254.36
 Grader Pass