

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

Test Date:
4/12 to 4/13/11

API No. 15
057-20643 - 00 - 00

Company Vincent Oil Co.		Lease Smith		Well Number 1-7	
County Ford	Location 2010FNL & 765FEL	Section 07	TWP 29S	RNG (E/W) 22W	Acres Attributed
Field Morrow Sand		Reservoir Morrow Sand		Gas Gathering Connection KGS	
Completion Date		Plug Back Total Depth 5482		Packer Set at none	
Casing Size 5.5	Weight	Internal Diameter	Set at 5482	Perforations 5308	To 5316
Tubing Size 2.375	Weight	Internal Diameter	Set at 5316	Perforations	To
Type Completion (Describe) single		Type Fluid Production SW		Pump Unit or Traveling Plunger? Yes / No Yes - pump unit	
Producing Thru (Annulus / Tubing) annulus		% Carbon Dioxide .2175		% Nitrogen 10.982	
Vertical Depth(H)		Pressure Taps flange		Gas Gravity - G _g .664	
Pressure Buildup: Shut in 4/08		20 11 at 8:45 am (AM) (PM)		Taken 4/12 20 11 at 8:45 am (AM) (PM)	
Well on Line: Started 4/12		20 11 at 9:00 am (AM) (PM)		Taken 4/13 20 11 at 9:00 am (AM) (PM)	

OBSERVED SURFACE DATA

Duration of Shut-in 96 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (Pm)	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						614	628.4			96	
Flow	1.250	491	1.4	52		551	565.4			24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (F _v) 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 _{ps}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
8.329	505.4	26.60	1.227	1.008	1.046	287		.664

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P₁)² = 394.886 ; (P_w)² = 319.677 ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P₁)² = 0.207 ; (P₁)² = _____


(P ₁) ² - (P _w) ² or (P ₁) ² - (P _d) ²	(P _w) ² - (P _d) ²	Choose formula 1 or 2: 1. P _c ² - P _d ² 2. P _c ² - P _w 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" ----- or ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
394.121	75.209	5.240	.7193	.818	.5884	3.88	1114

Open Flow 1114 Mcfd @ 14.65 psia X .50 = Deliverability 557 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 the 29th day of April, 20 11.

Witness (if any)

For Commission



For Company
RECEIVED
MAY 12 2011

Checked by

KCC WICHITA

API 15-057-20643

MULTIPOINT BACK PRESSURE TEST

TYPE TEST: Initial Annual Special TEST DATE: 4/12/11

COMPANY: Vincent Oil Co. LEASE: Smith WELL NO.: 1-7

COUNTY: Ford LOCATION: 2010FNL&765FEL SECTION: 07 TWP: 29S RNG: 22W ACRES:

FIELD: Morrow Sand RESERVOIR: PIPELINE CONNECTION: KGS

COMPLETION DATE: PLUG BACK TOTAL DEPTH: 5482 PACKER SET AT: none

CASING SIZE: 5.5 WT. ID. SET AT: 5482 PERF. TO: 5316

TUBING SIZE: 2.375 WT. ID. SET AT: 5316 PERF. TO:

TYPE COMPLETION (Describe): single TYPE FLUID PRODUCTION: S/W

PRODUCING THRU: casing RESERVOIR TEMPERATURE F: BAR PRESS - P_a: 14.4 Psia

GAS GRAVITY - G_g: .664 % CARBON DIOXIDE: .2175 % NITROGEN: 10.982 API GRAVITY OF LIQUID:

VERTICAL DEPTH (H): TYPE METER CONN.: flange (METER RUN) (PROVER) SIZE: 2"

REMARKS: Tested into pipeline (250" EFM)

OBSERVED DATA

DURATION OF SHUT-IN 72 HR.

RATE No.	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DISP. (h _w) (h _d)	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P _i)(P _c) psia	psig	(P _w)(P _i)(P _c) psia		
SHUT IN											
1	1.250	472	1.0	56		614	628.4			96	
2	"	474	2.3	58		582	596.4			.75	
3	"	475	4.2	59		559	573.4			.75	
4	"	477	6.7	60		534	548.4			.75	
5						503	517.4			.75	

RATE OF FLOW CALCULATIONS

RATE NO.	COEFFICIENT (F _b) (F _p) Mofd	(METER) (PROVER) 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 Q Mofd	GOR	G _m
1	8.329	486.4	22.05	1.227	1.004	1.040	235		
2	"	488.4	33.51	"	1.002	1.040	357		
3	"	489.4	45.34	"	1.001	1.040	482		
4	"	491.4	57.37	"	1.000	1.040	609		
5									

PRESSURE CALCULATIONS

RATE NO.	P _i psia	P _o psia	P _w psia	(P _o) ² THOUSANDS	(P _w) ² THOUSANDS	PLOTING POINTS		% SHUT-IN $100 \left[\frac{P_w - P_a}{P_c - P_a} \right]$
						(P _o) ² - (P _w) ² THOUSANDS	Q Mofd	
1		628.4	596.4	394.8	355.7	39.1	235	94.9
2		"	573.4	"	328.8	66.0	357	91.2
3		"	548.4	"	300.7	94.1	482	87.3
4		"	517.4	"	267.7	127.1	609	82.3
5								

INDICATED WELLHEAD OPEN FLOW 1.475 Mofd @ 14.65 psia "n" = .818

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.

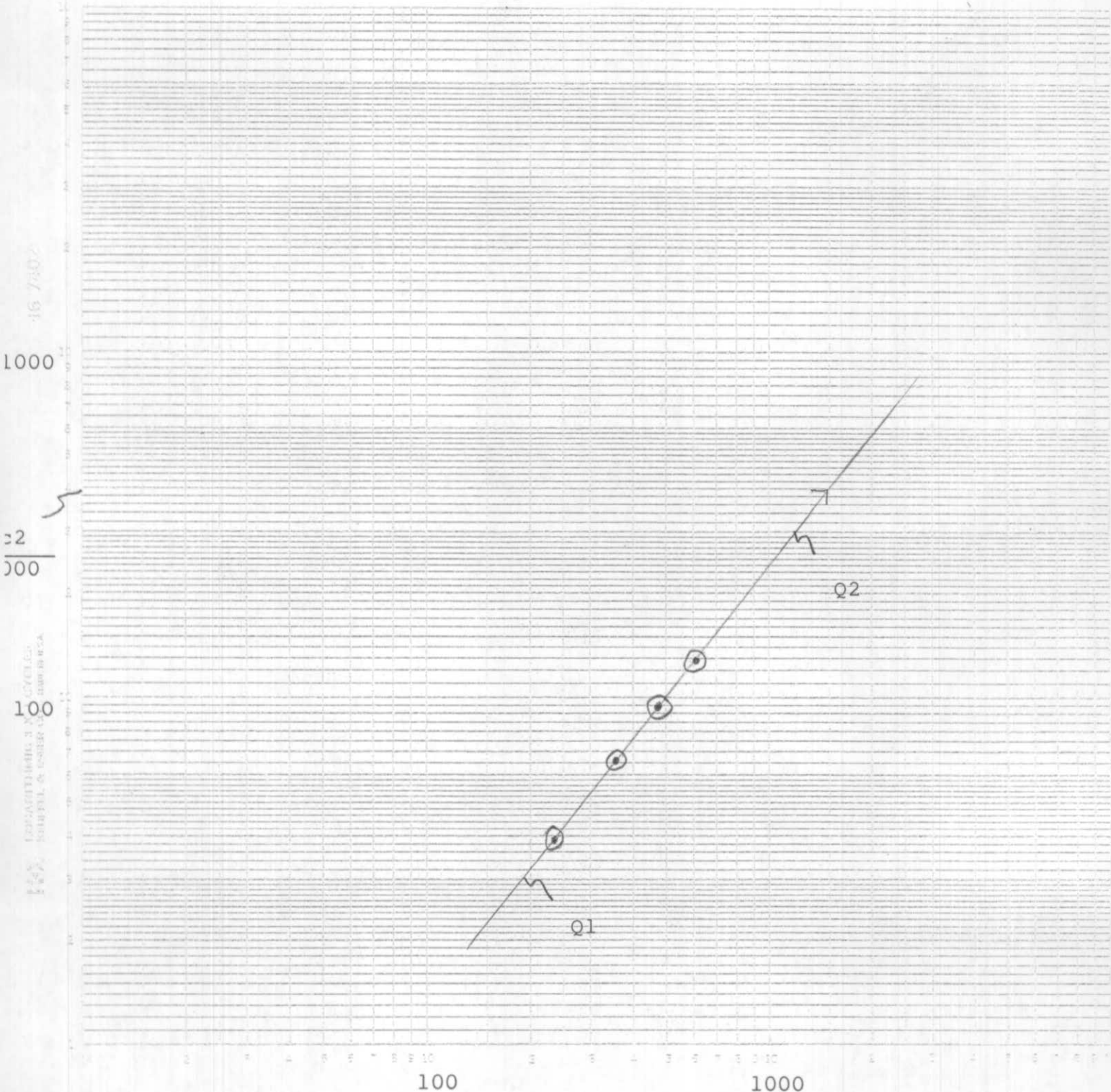
Executed this the 29th day of April, 2011.

Witness (if any)

For Commission

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Vincent Oil Co. - Smith 1-7
 2010FNL & 765 FEL 07-29S-22W
 Ford County
 Tested 4/12/11



Q2 - 1250 - Log: 3.096
 Q1 - 190 - Log: 2.278

"n" = .818

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 MAY 12 2011
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MEASUREMENT SOLUTIONS INC.

6705 East 81st Street Suite 155 Tulsa, OK 74133
 Telephone 918-493-2700 Fax 918-493-2704

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1/3/2011

GAS ANALYSIS REPORT

METER NUMBER : 55107
METER NAME : SMITH 1-7
METER ID : VINCENT OIL
PRODUCER :
COMPANY : VINCENT OIL

*Entered
2-2-11*

SAMPLE TYPE : SPOT
SAMPLE DATE : 12/20/2010
SAMPLE PRES / TEMP : 513 / 87
SAMPLED BY : MM
EFFECTIVE DATE : 12/01/2010

<u>COMPONENT</u>		<u>PERCENT</u>	<u>BTU VALUES @ 14.65</u>		<u>BTU VALUES @ 14.73</u>	
Helium	He	0.6176	REAL DRY	988.67	REAL DRY	994.06
Oxygen	O2	0.0000	REAL WET	971.36	REAL WET	976.67
Hydrogen Sulfide	H2S	0.0000				
Carbon Dioxide	CO2	0.2175				
Nitrogen	N2	10.9820				
Methane	C1	80.3417	<u>GPM VALUES @ 14.65</u>		<u>GPM VALUES @ 14.73</u>	
Ethane	C2	4.5072	C2	1.1982	C2	1.2047
Propane	C3	2.0501	C3	0.5614	C3	0.5645
I-Butane	iC4	0.3181	iC4	0.1035	iC4	0.1040
N-Butane	nC4	0.5439	nC4	0.1705	nC4	0.1715
I-Pentane	iC5	0.1256	iC5	0.0457	iC5	0.0460
N-Pentane	nC5	0.1315	nC5	0.0474	nC5	0.0476
Hexane Plus	C6+	0.1648	C6+	0.0715	C6+	0.0719
TOTALS		100.0000		2.1982		2.2102

SPECIFIC GRAVITY

REAL DRY 0.6639
 REAL WET 0.6632

COMPRESSIBILITY FACTOR

Z FACTOR DRY 0.9979
 Z FACTOR WET 0.9978

GALLONS PER THOUSAND

GPM TOTALS @ 14.65

C2 + GPM 2.1982
 C3 + PGM 1.0000
 C4 + GPM 0.4386
 C5 + GPM 0.1646

GPM TOTALS @ 14.73

C2 + GPM 2.2102
 C3 + PGM 1.0055
 C4 + GPM 0.4410
 C5 + GPM 0.1655

COMMENTS :

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FIELD DATA SHEET

Pumper:

Phone#:

 Type Test: Initial Annual Special Test Date 4/12/11

 Company VINCENT OIL Connection KGS

Field _____ Reservoir _____ Location _____

 Completion Date _____ Total Depth _____ Plug Back TD _____ Elevation _____ Form or Lease Name SMITH

 Csg. Size _____ Wt. _____ d _____ Set At _____ Perforations: From _____ To _____ Well No. 1-7

 Tbg. Size _____ Wt. _____ d _____ Set At _____ Perforations: From _____ To _____ Sec. 07 Top - Blk 295 Rgs - Sur 22W

 Type Completion (Describe) SINGLE Packer Set At _____ County or Parish FORD

 Producing Thru CASING Reservoir Temp. F _____ Mean Annual Temp. F 60 Daro. Press. - P 14.4 State KS
Prover _____ Meter Run 2" FLB

 G_v .664 % CO₂ .2175 % N₂ 10.982 % H₂S _____

DATE	ELAP. TIME	WELLHEAD WORKING PRESSURE			METER OR PROVER				REMARKS
		Thg. Psig	Csg. Psig	Δ P	Pressure Psig	Diff.	Temp. F	Orifice	
8:45	46		614						P. UNIT STARTED 4/11/11
9:00							1.20		COMMENCE TEST
9:15			597		471	.4	52		
9:30			587		472	1.8	55		
9:45			582		472	1.0	56		
10:00			567		474	2.2	58		2.50% 599
10:15			563		474	2.3	58		5.0% 583
10:30			559		474	2.3	58		7.5% 568
10:45			544		474	4.1	58		10.0% 552
11:00			539		475	4.3	59		12.5% 537
11:15			534		475	4.2	59		15.0% 522
11:30			514		476	7.0	59		17.5% 506
11:45			508		477	6.8	60		20.0% 491
12:00			503		477	6.7	60		25.0% 460
12:15			525		473	1.4	62		SET RATE FOR 1 PT TEST (295 Mcf/D)
9:00	24		551		491	1.4	52		1 PT TEST 4/13/11
	0.0								
	0.5								Begin 30 minute wellhead buildup
	1.0								
	1.5								
	2.0								
	3.0								
	4.0								
	5.0								
	6.0								
	7.0								
	8.0								
	9.0								
	10.0								
	15.0								
	20.0								
	25.0								
	30.0								

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