

STATE OF KANSAS - CORPORATION COMMISSION  
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2  
8-7-58

TYPE TEST:  Deliverability  Open Flow TEST DATE: 11-17-67

COMPANY: Shell Oil Co. LEASE: Gregg WELL NO.: 1-12

COUNTY: Comanche LOCATION: Shimer SECTION: 12 TWP: 33S RNG: 17W ACRES: 640

RESERVOIR: Mississippi PIPELINE CONNECTION: Union Oil Co. of California

COMPLETION DATE: 2-4-66 PLUG BACK TOTAL DEPTH: 5114 PACKER SET AT: None

CASING SIZE: 4 1/2" WT. I.D. SET AT 5113 PERF. TO 5089

TUBING SIZE: 2 3/8" WT. 4.7 I.D. 1.995 SET AT 5080 PERF. TO Open end

TYPE COMPLETION (Describe): Single TYPE FLUID PRODUCTION: Condensate & water

PRODUCING THRU: Tubing RESERVOIR TEMPERATURE: F BAR. PRESS - P<sub>a</sub>: 14.4 Psia

GAS GRAVITY - G<sub>g</sub>: .614 % CARBON DIOXIDE: % NITROGEN: API GRAVITY OF LIQUID: 66.0 @ 60

VERTICAL DEPTH (H): TYPE METER CONN.: Flange (METER RUN) (PROVER) SIZE: 3.00

SHUT-IN PRESSURE: SHUT IN 11-13- 19 67 AT 10:30 (AM) TAKEN 11-16- 19 67 AT 10:35 (AM) TAKEN

FLOW TEST: STARTED 11-16- 19 67 AT 10:35 (AM) TAKEN 11-17- 19 67 AT 10:35 (AM) TAKEN

OBSERVED DATA

DURATION OF SHUT-IN \_\_\_\_\_ HR.

SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) PRESSURE psig	DIFF. in. (h <sub>w</sub> )(h <sub>d</sub> )	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> )(P <sub>c</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>c</sub> ) psia		
SHUT-IN						1421	1435.4	1420		72	3.0 Cond.
FLOW	1.250	755	36.0	63		1346	1360.4	1299		24	2.5 Water

RATE OF FLOW CALCULATIONS

COEFFICIENT (F <sub>p</sub> )(F <sub>d</sub> ) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \cdot h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. FACTOR F <sub>t</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcfd	GOR	Q <sub>m</sub>
7.771	769.4	166.44	1.276	.9971	1.071	1,762	587,333	

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = 2060.4 ; (P<sub>w</sub>)<sup>2</sup> = 1850.7 ; P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>c</sub>)<sup>2</sup> = 0.207 ; (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	$\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
2060.2	209.7	9.825	.99233	.846	.83951	.69105	12,176

OPEN FLOW 12,175 Mcfd @ 14.63 psia DELIVERABILITY Mcfd @ 14.63 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 17 day of October, 1967.

H. Kirk Jataick  
Witness (if any)

For Company  
Checked by

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

FORM G-2  
8-7-58

**TYPE TEST:**  Deliverability  Open Flow      **TEST DATE:** 9-8-66

**COMPANY:** Shell Oil Co.      **LEASE:** Gregg      **WELL NO.:** 1-12

**COUNTY:** Comanche      **LOCATION:**      **SECTION:** 12      **TWP:** 33S      **RNG:** 17 W      **ACRES:** 640

**FIELD:** Shimer      **RESERVOIR:** Mississippi      **PIPELINE CONNECTION:** Union of California

**COMPLETION DATE:** 2-4-66      **PLUG BACK TOTAL DEPTH:** 5114      **PACKER SET AT:** None

**CASING SIZE:** 4 1/2 in.      **WT.:**      **I.D.:**      **SET AT:** 5113      **PERF.:** 5065      **TO:** 5089

**TUBING SIZE:** 2 3/8 in.      **WT.:** 4.7      **I.D.:** 1.995      **SET AT:** 5080      **PERF.:** Open end      **TO:**

**TYPE COMPLETION (Describe):** Single      **TYPE FLUID PRODUCTION:**

**PRODUCING THRU:** Tubing      **RESERVOIR TEMPERATURE F:**      **BAR. PRESS - P<sub>a</sub>:** 14.4 Psia

**GAS GRAVITY - G<sub>g</sub>:** .618      **% CARBON DIOXIDE:**      **% NITROGEN:**      **API GRAVITY OF LIQUID:** 59.9 @ 60

**VERTICAL DEPTH (H):**      **TYPE METER CONN.:** Flg.      **(METER RUN) (XXXXXX) SIZE:** 3.00 in.

**SHUT-IN PRESSURE: SHUT IN:** 9-2-1966 AT 8:00 (AM) (XX) TAKEN 9-7-1966 AT 8:00 (AM) (XX)

**FLOW TEST: STARTED:** 9-7-1966 AT 9:00 (AM) (XX) TAKEN 9-8-1966 AT 10:00 (AM) (XX)

**OBSERVED DATA**

DURATION OF SHUT-IN \_\_\_\_\_ HR.

SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DIFF. in. (h <sub>w</sub> )(h <sub>d</sub> )	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> )(P <sub>t</sub> )(P <sub>c</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>t</sub> )(P <sub>c</sub> ) psia		
SHUT-IN						1556		1558	1572.4	120	
FLOW	1.500	745	31.0	67	60	1454	1468.4	1395		24	4.6

**RATE OF FLOW CALCULATIONS**

COEFFICIENT (F <sub>p</sub> )(F <sub>d</sub> ) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m \times h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. F <sub>t</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcfd	GOR	G <sub>m</sub>
11.41	759.4	153.45	1.272	.9933	1.068	2,363	512,000	

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

(P<sub>c</sub>)<sup>2</sup> = 2472.4 ; (P<sub>w</sub>)<sup>2</sup> = 2156.2 ; P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>w</sub>)<sup>2</sup> = 0.207 ; (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	$\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
2472.2	316.2	7.818	.89309	.846	.75555	5.6958	13,459

**OPEN FLOW** 13,460

Mcfd @ 14.65 psia

**DELIVERABILITY**

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 \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_

*Paul J. Lemley*  
For Company  
*Ed. Marlow*  
Checked by

Witness (if any)

*[Signature]*