

TYPE TEST: Initial Annual Special TEST DATE: 3/7/83

COMPANY: Mobil Oil Corp. LEASE: McCreery #1 UNIT WELL NO.: 2

COUNTY: Stevens LOCATION: NW/4 SECTION: 14 TWP: 34S RNG: 37W ACRES: 640

FIELD: Panoma RESERVOIR: Council Grove PIPELINE CONNECTION: Northern Natural Gas

COMPLETION DATE: 8/25/82 PLUG BACK TOTAL DEPTH: 3221 PACKER SET AT: ;

CASING SIZE: 5.5 WT: 14# ID: 5.012 SET AT: 3240 PERF.: 3062 TO: 3118

TUBING SIZE: 2 3/8 WT: 4.7# ID: 1.995 SET AT: 3088 PERF.: TO:

TYPE COMPLETION (Describe): Single TYPE FLUID PRODUCTION: Dry Gas & Saltwater

PRODUCING THRU: Annulus RESEVOIR TEMPERATURE F: BAR PRESS - P_a: 14.4 Psia

GAS GRAVITY - G_g: .700 % CARBON DIOXIDE: % NITROGEN: API GRAVITY OF LIQUID:

VERTICAL DEPTH (H): 3090 TYPE METER CONN.: Flange (METER RUN (FOOZER) SIZE: 3.068

REMARKS:

OBSERVED DATA DURATION OF SHUT-IN 72 HR.

RATE No.	ORIFICE SIZE in.	(METER) (FOOZER) PRESSURE psig	DEP. (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 XP _i)(P _o) psia	psig	(P _w XP _i XP _c) psia		
SHUT IN						147.2	161.6				
1	1.50	139.7	0.8			139.7	154.1			.5	.5
2	1.50	132.7	2.2			132.7	147.1			.5	.5
3	1.50	127.0	4.0			127.0	141.4			.5	1.0
4	1.50	119.5	6.5			119.5	133.9			.5	1.0
5											

RATE OF FLOW CALCULATIONS

RATE NO.	COEFFICIENT (F _o)(F _p) Mcfd	(METER) (FOOZER) PRESSURE psia	EXTENSION √P _m shw	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW Q Mcfd	GOR	Q _m
1	11.41	154.1	11.10	1.195	1.000	1.018	154.13		
2	11.41	147.1	17.99	1.195	1.000	1.017	249.51		
3	11.41	141.4	23.78	1.195	1.000	1.016	329.63		
4	11.41	133.9	29.50	1.195	1.000	1.015	408.53		
5									

PRESSURE CALCULATIONS

RATE NO.	P _i psia	P _c psia	P _w psia	(P _c) ² THOUSANDS	(P _w) ² THOUSANDS	PLOTTING POINTS		100 [(P _w - P _a) / (P _c - P _a)]
						(P _c) ² - (P _w) ² THOUSANDS	Q Mcfd	
1	154.1	161.6	154.1	26.11	23.76	2.35	154.13	
2	147.1	161.6	147.2	26.11	21.66	4.45	249.51	
3	141.4	161.6	141.5	26.11	20.03	6.08	329.63	
4	133.9	161.6	134.1	26.11	17.99	8.12	408.53	
5								

INDICATED WELLHEAD OPEN FLOW 1,030 Mcfd @ 14.65 psia "n" = 0.794

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 7 day of MARCH, 1983.

Eldon Durbin
 (Witness) For Commission

RECEIVED
 STATE CORPORATION COMMISSION

MAY 24 1983

Tom Romero
 For Company
 E. D. Logan
 Checked by

***** EQUIVALENT STATIC WELLHEAD PRESSURE *****

DATE: 03/03/83 LEASE: MCCREERY #1-UNIT WELL NO.: #2

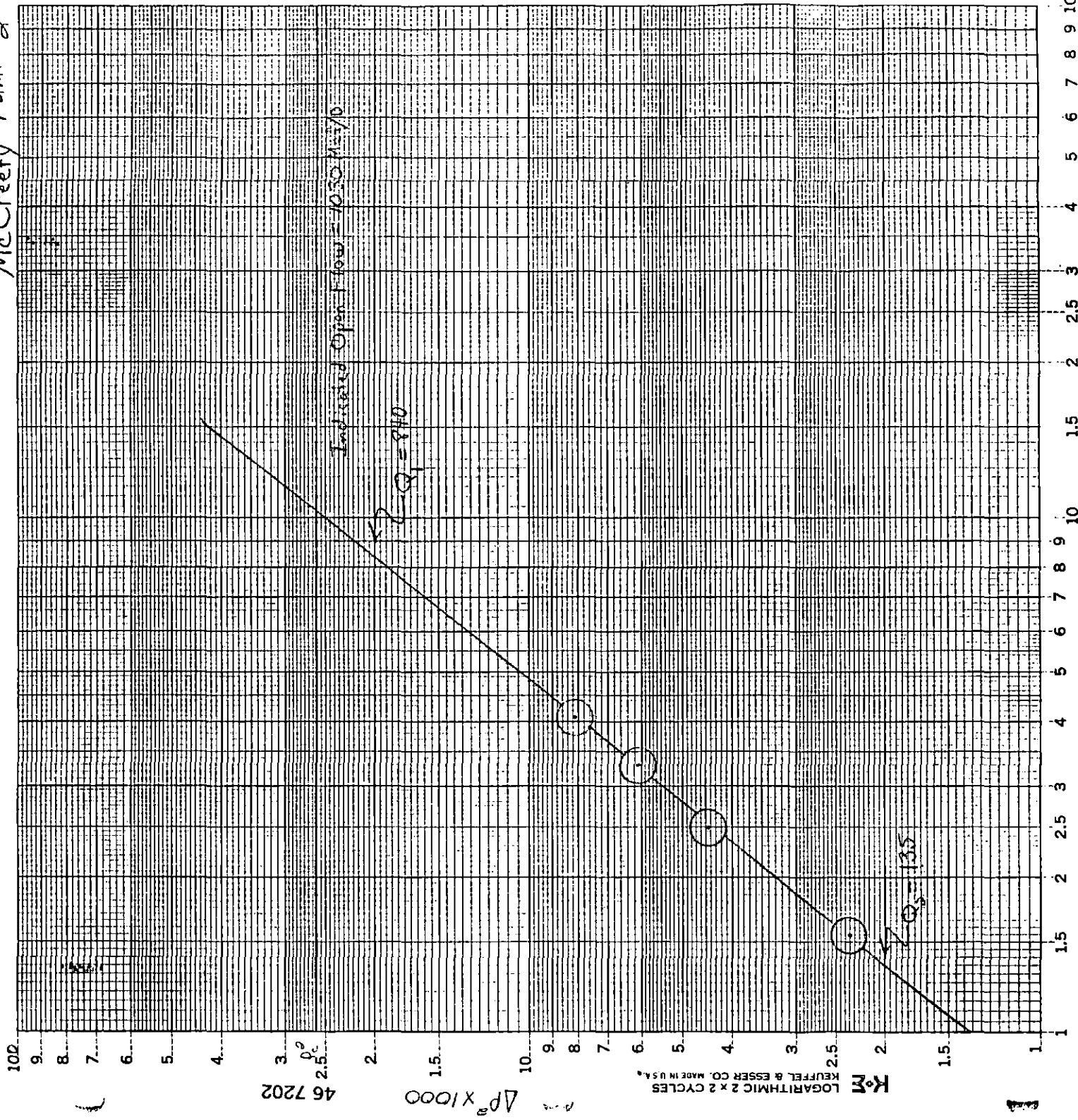
FIELD: PANOMA COUNTY: STEVENS

XCO2: 0.0 XN2: 0.0 GM: 0.700 PCR: 667. TCR: 392.

H: 3090. GM*H: 2163. L/H: 1.000 FLOW STRING: ANNULUS

RATE:	1	2	3	4
Q (MMCFD)	0.1541	0.2495	0.3296	0.4085
TW (RANKINE)	520	520	520	520
TS (RANKINE)	558	558	558	558
T-EFFECTIVE	539	539	539	539
Z-EFFECTIVE	0.967	0.968	0.969	0.971
TE*ZE	521.1	521.8	522.5	523.3
GM*H/(TE*ZE)	4.151	4.145	4.140	4.133
EXP(S)	1.168	1.168	1.168	1.168
(1 - EXP(-S))	0.144	0.144	0.144	0.144
PT (PSIA)	154.1	147.1	141.4	133.9
PT**2 (THOUS.)	23.75	21.64	19.99	17.93
FC	1.653	1.653	1.653	1.653
F1	1.595	1.597	1.599	1.602
F1*QM	0.246	0.399	0.527	0.654
Y	0.060	0.159	0.278	0.428
R**2	0.009	0.023	0.040	0.061
PM**2 (THOUS.)	23.76	21.66	20.03	17.99
PS**2 (THOUS.)	27.76	25.30	23.40	21.01
PS	166.6	159.1	153.0	144.9
P-EFFECTIVE	160.4	153.1	147.2	139.4
P-REDUCED	0.240	0.229	0.221	0.209
T-REDUCED	1.375	1.375	1.375	1.375
Z-EFFECTIVE	0.967	0.968	0.969	0.971

McCreery #1 Unit #2



Q x 100

$$N = \log 840 - \log 135 = 0.794$$

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

FORM G-2

TYPE TEST-DELIVERABILITY

TEST DATE- 4/19/83

WSU NO.- 6005
 MLOC - 25262

1982 DSP

COMPANY-MOBIL OIL CORPORATION

LEASE-MCCREERY #1 UNIT WELL NO. 2

COUNTY- STEVENS

LOCATION- NW/4

SEC- 14 TWP- 34S RNG- 37W

ACRES- 640

FIELD-PANOMA

RESERVOIR-COUNCIL GROVE

PIPELINE CONNECTION-NORTHERN NATURAL GAS

COMPLETION DATE- 8/25/82

PLUGBACK/TOTAL DEPTH- 3221

PACKER SET AT-NONE

CASING SIZE- 5.500

WT.- 14.0

I.D.- 5.012

SET AT- 3240

PERFS 3062 TO 3118

TUBING SIZE- 2.375

WT.- 4.70

I.D.- 1.995

SET AT- 3088

PERFS

TYPE COMPLETION-SINGLE

PRODUCING THRU ANNULUS

GAS GRAVITY 0.700

PCT. CO2

TYPE FLUID PRODUCTION-WTR

RESERVOIR TEMPERATURE-F. 98

BAR. PRESS 14.40

PCT N2

API LIQUID GRAVITY

VERTICAL DEPTH (H) 3088

TYPE METER CONN- FLANGE

METER RUN SIZE 3.068 IN.

SHUT-IN PRESS- SHUT IN 4/22/83

FLOW TEST- STARTED 4/19/83

TAKEN 4/25/83

TAKEN 4/22/83

SHUT-IN ORIFICE OR FLOW	METER SIZE IN.	DIFF. IN (HW) PSIG	FLOW TEMP. F.	OBSERVED DATA		TUBING WELLHEAD PRESSURE PSIG - PSIA	DURATION TIME HOURS	LIQUID PROD BBLs
				WELL TEMP. F.	CASING WELLHEAD PRESSURE PSIG - PSIA			
S.I. FLOW	1.000	132.50	10.50	60	60	145.3- 159.7 132.7- 147.1	NONE NONE	72.0 72.0

COEFFICIENT (FB)	METER PRESS.-PSIA	EXTENSION SQRT(HWPM)	RATE OF FLOW CALCULATIONS		DEVI. FAC F(PV)	RATE OF FLOW MCF/D	GOR	GM
			GRAVITY F(G)	FLOW TEMP F(T)				
4.911	146.90	39.27	1.195	1.000	1.017	234.5		

OPEN FLOW-DELIVERABILITY CALCULATIONS
 PC2 = 25.5 PW2 = 21.1 PD = 140.2 PC2 = 19.7 (PC-14.4)+14.4 = 159.7 PA2 = 0.207
 ***** PENALTY CALCULATION WAS APPLIED TO PW. PENALIZED PW IS 130.8 *****
 PC2-PA2 25.3 PC2-PW2 4.4 PC2-PA2/PC2-PW2 5.7107 LOG() 0.757 N X LOG 0.794 ANTILOG 3.9885 OPEN FLOW 935.1

PC2-PD2 5.8 PC2-PW2 4.4 PC2-PD2/PC2-PW2 1.3202 LOG() 0.121 N X LOG 0.794 ANTILOG 1.2468 DELIVERABILITY 292.3

OPEN FLOW 935 MCFPD DELIVERABILITY 292 MCFPD ADJUSTED DELIVERABILITY 292 MCFPD

 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 2 DAY OF MAY, 1983.
 WITNESS(IF ANY) ELDON DURBIN
 FOR COMMISSION

FOR COMPANY S SHELDON
 CHECKED BY MORGAN

K B Sahay
 82 D.S.P