



## COLORADO CONSERVATION COMMISSION

## Deliverability Test

RECEIVED

JUN 18 1973

TYPE TEST: ☐ Deliverability ☒ Open Flow TEST DATE: 4-30-73

COMPANY: Horizon Oil & Gas Co. of Texas LEASE: Holmes WELL NO.: 1-14

COUNTY: Baca LOCATION: SECTION: 14 TWP: 33S RNG: 42W ACRES: 640

FIELD: Midway RESERVOIR: Topeka "A" PIPELINE CONNECTION: Baca Gas Gathering System, Inc.

COMPLETION DATE: 2-4-61 PLUG BACK TOTAL DEPTH: 3128 PACKER SET AT:

CASING SIZE: 2-7/8 WT.: 6.5 I.D.: 2.441 SET AT: 3163 PERF.: 3054 TO: 3064

TUBING SIZE: WT.: I.D.: SET AT: PERF.: TO:

TYPE COMPLETION (Describe): Single TYPE FLUID PRODUCTION: None

PRODUCING THRU: Casing RESERVOIR TEMPERATURE, F: 99 BAR. PRESS - P<sub>a</sub>: 14.4 Psia

GAS GRAVITY - G<sub>g</sub>: .765 % CARBON DIOXIDE: .02 % NITROGEN: 24.92 API GRAVITY OF LIQUID:

VERTICAL DEPTH (H): 3059 TYPE METER CONN.: Flg. (METER RUN) (PROVER) SIZE: 3.000

SHUT-IN PRESSURE: SHUT IN: 4-27 19 73 AT: (AM)(PM) TAKEN: 4-30 19 73 AT: (AM)(PM)

FLOW TEST: STARTED: 4-30 19 73 AT: (AM)(PM) TAKEN: 5-03 19 73 AT: (AM)(PM)

## 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						239.0	253.4			72	
FLOW	.750	140.0	2	60		140.0				72	

Pcr 626

Tcr 349

## RATE OF FLOW CALCULATIONS

COEFFICIENT (F <sub>b</sub> )(F <sub>d</sub> ) Mcd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. FACTOR F <sub>t</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcd	GOR	DVR
2.740	154.4	17.57	1.143	1.000	1.013	56		G <sub>m</sub>
								H <sub>m</sub>
								I <sub>m</sub>
								J <sub>m</sub>

## (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_e)^2 = 64.2$		$(P_w)^2 = 23.9$	$P_d =$ %	$(P_c = 14.4) + 14.4 =$	$(P_e)^2 = 0.207$	$(P_d)^2 =$	
$\frac{(P_e)^2 - (P_d)^2}{(P_e)^2 \text{ or } (P_d)^2}$	$(P_e)^2 - (P_w)^2$	$\frac{P_e^2 - P_d^2}{P_e^2 - P_w^2}$	LOG [ ]	"n"	$n \times \text{LOG [ ]}$	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcd
64.0	40.4	1.5858	.2002559	.752	.1505940	1.4145	79

OPEN FLOW 79 Mcd @ 14.65 psia DELIVERABILITY Mcd @ 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 31 day of May, 1973.

Witness (if any)

For Commission

For Company

Checked by