



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 "A" WELL NO.: 1-26  
COUNTY: Baca LOCATION: Baca SECTION: 26 TWP: 33S RNG: 42W ACRES: 640  
FIELD: Midway RESERVOIR: Topeka "A" PIPELINE CONNECTION: Baca Gas Gathering System, Inc.  
COMPLETION DATE: 7-27-61 PLUG BACK TOTAL DEPTH: 3143 PACKER SET AT: 3047  
CASING SIZE: 2-7/8 WT. 6.5 I.D. 2.441 SET AT 3171 PERF. 3032 TO 3047  
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>: .750 % CARBON DIOXIDE: .03 % NITROGEN: 25.08 API GRAVITY OF LIQUID: 30.00  
VERTICAL DEPTH (H): 3038 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 72 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 WELL-HEAD PRESS. psig		TUBING WELL-HEAD PRESS. psig		DURATION HOURS	LIQUID PROD. Bbls.
SHUT-IN						218.0		232.4		72	
FLOW	500	135.0	11	60		135.0				72	

Pcr 630 Tcr 354

RATE OF FLOW CALCULATIONS

COEFFICIENT (F <sub>p</sub> )(F <sub>d</sub> ) M <sub>scd</sub>	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m \times h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. FACTOR F <sub>t</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R M <sub>scd</sub>	GOR	DVR	FJP	HHM G <sub>m</sub>	JAM	LD
1.214	149.4	40.54	1.000	1.155	1.013	58						

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_a)^2 = 54.0$		$(P_w)^2 = 22.3$		$P_d = \quad \%$		$(P_c - 14.4) + 14.4 = \quad$		$(P_a)^2 = 0.207$ $(P_d)^2 = \quad$	
$\frac{(P_a)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	$n \times \text{LOG [ ]}$	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG M <sub>scd</sub>		
53.8	31.7	1.6966	.2295893	.647	.1485443	1.4078	82		
OPEN FLOW 82		M <sub>scd</sub> @ 14.65 psia		DELIVERABILITY		M <sub>scd</sub> @ 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