



COLORADO CONSERVATION COMMISSION

RECEIVED

JUN 18 1973

Deliverability Test

TYPE TEST: ☐ Deliverability ☒ Open Flow TEST DATE: 4-23-73

COMPANY: Horizon Oil & Gas Co. of Texas LEASE: Jenkins WELL NO.: 1-28

COUNTY: Baca LOCATION: Topeka SECTION: 28 TWP: 34S RNG: 42W 41N ACRES: 640

FIELD: Greenwood RESERVOIR: Topeka PIPELINE CONNECTION: Baca Gas Gathering System, Inc.

COMPLETION DATE: 5-11-61 PLUG BACK TOTAL DEPTH: 2935 PACKER SET AT: _____

CASING SIZE: 2-7/8 WT.: 6.5 I.D.: 2.441 SET AT: 3085 PERF.: 2771 TO: 2779

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

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

PRODUCING THRU: Casing RESERVOIR TEMPERATURE, F: _____ BAR. PRESS - P_a: 14.4 Psia

GAS GRAVITY - G_g: .770 % CARBON DIOXIDE: .02 % NITROGEN: 31.69 API GRAVITY OF LIQUID: _____

VERTICAL DEPTH (H): 2775 TYPE METER CONN.: Flg. (METER RUN) (PROVER) SIZE: 3.000

SHUT-IN PRESSURE: SHUT IN 4-20 73 AT 4-23 73 (AM)(PM) TAKEN 4-23 73 AT (AM)(PM)

FLOW TEST: STARTED 4-23- 19 73 AT 4-26 73 (AM)(PM) TAKEN 4-26 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 _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						356.0	370.4					72	
FLOW	.500	240.0	2	60		240.0	254.4					72	

Pcr 612

Tcr 329

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _p)(F _d) Mcfd	(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 R Mcfd	GOR	DVR	
								F _g	F _t
1.214	254.4	22.56	1.140	1.000	1.021	32		✓	✓
								✓	✓
								✓	✓
								✓	✓

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_e)^2 = 137.2$		$(P_w)^2 = 64.7$	$P_d = \quad \quad \quad \%$	$(P_c - 14.4) + 14.4 = \quad \quad \quad$	$(P_e)^2 = 0.207$	$(P_d)^2 = \quad \quad \quad$	
$\frac{(P_e)^2 - (P_a)^2}{(P_e)^2 - (P_d)^2}$ or $\frac{(P_e)^2 - (P_d)^2}{(P_e)^2 - (P_d)^2}$	$(P_e)^2 - (P_w)^2$	$\frac{P_e^2 - P_a^2}{P_e^2 - P_w^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcf/d
137.0	72.5	1.8904	.2765478	.772	.2134949	1.6349	52

OPEN FLOW

52

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 31 day of May, 1973

Witness (if any)

For Commission

For Company

Checked by