



COLORADO CONSERVATION COMMISSION

Deliverability Test

RECEIVED

JUN 18 1973

TYPE TEST: ☐ Deliverability ☒ Open Flow TEST DATE: 4-16-73 OIL & GAS CONS. COMM.

COMPANY: Horizon Oil & Gas Co. of Texas LEASE: Spikes WELL NO.: 1-26

COUNTY: Baca LOCATION: SECTION 26 TWP 33S R9G 43W ACRES 640

FIELD: Walsh Flank, NW RESERVOIR: Topeka "A" PIPELINE CONNECTION: Baca Gas Gathering System, Inc.

COMPLETION DATE: 10-4-65 PLUG BACK TOTAL DEPTH: 3109 PACKER SET AT:

CASING SIZE: 2-7/8 WT. 6.5 I.D. 2.441 SET AT 3223 PERF. 3123 TO 3129

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_a: 14.4 psiaGAS GRAVITY - G_g: .755 % CARBON DIOXIDE: .05 % NITROGEN: 28.14 API GRAVITY OF LIQUID:

VERTICAL DEPTH (H): 3126 TYPE METER CONN.: Flg. (METER RUN) (PROVER) SIZE: 3.000

SHUT-IN PRESSURE: SHUT IN 4-13- 19 73 AT 12:30 (AM)(PM) TAKEN 4-16- 19 73 AT (AM)(PM)

FLOW TEST: STARTED 4-16- 19 73 AT (AM)(PM) TAKEN 4-19- 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 _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 _t)(P _c) psia	psig	(P _w)(P _t)(P _c) psia		
SHUT-IN						284.0	298.4			72	
FLOW	.625	108.0	46	60		108.0	122.4			72	

Pcr 624 Tcr 324

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _p)(F _d) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m \pm h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	<div>DVR FIP HHM JAM JJD</div>
1.897	122.4	75.04	1.151	1.000	1.008	165		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P _c) ² = 89.0	(P _w) ² = 15.1	P _d = %	(P _c - 14.4) + 14.4 =	(P _a) ² = 0.207	(P _d) ² =		
$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_a^2}{P_c^2 - P_d^2}$	LOG []	"n"	n = LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
88.8	73.9	1.2011	.0795879	.850	.0676497	1.1686	193

OPEN FLOW 193

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