



RECEIVED
JAN 30 1967

TYPE TEST: Deliverability Open Flow TEST DATE: 1/12/67

COMPANY: Shenandoah Oil Corp. LEASE: Cogburn WELL NO.: 1

COUNTY: Baca LOCATION: 1320 from W line & 2640 from S line SECTION: 12 TWP: 33S RNG: 42W ACRES: 640

FIELD: Midway RESERVOIR: Topoka PIPELINE CONNECTION: None

COMPLETION DATE: 1/7/67 PLUG BACK TOTAL DEPTH: 3190 PACKER SET AT: None

CASING SIZE	WT.	I.D.	SET AT	PERF.	TO
4-1/2"	9.5	4.090	3256	3132	3142
				3087	3092

TUBING SIZE	WT.	I.D.	SET AT	PERF.	TO
2-3/8"	4.7	1.995	3084	Open ended	

TYPE COMPLETION (Describe): Single, with Static Column TYPE FLUID PRODUCTION: None

PRODUCING THRU: Tubing RESERVOIR TEMPERATURE F: 98.7 BAR. PRESS - P_a: 14.4 Psia

GAS GRAVITY - G_g: 0.750 (est.) % CARBON DIOXIDE: - % NITROGEN: - API GRAVITY OF LIQUID: -

VERTICAL DEPTH (H): 3115 TYPE METER CONN.: (METER RUN) (PROVER) SIZE: 2"

SHUT-IN PRESSURE: SHUT IN Jan. 7, 19 67 AT 5:00 (AM)(PM) TAKEN Jan. 11, 19 67 AT 10:15 (AM)(PM)
FLOW TEST: STARTED Jan. 11, 19 67 AT 2:15 (AM)(PM) TAKEN Jan. 12, 19 67 AT 10:15 (AM)(PM)

OBSERVED DATA

DURATION OF SHUT-IN: 89 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						325	339.4	325	339.4	89	
FLOW	5/16	271		71	60	294	308.4	285	299.4	20	0

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _b)(F _d) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION √P _m xh _w	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	G _m
1.714	285.4		1.155	0.9896	1.036	579	-	

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 115.2 ; (P_w)² = 95.1 ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_a)² = 0.207 ; (P_d)² = _____

(P _c) ² - (P _a) ² or (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 x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
115.0	20.1	5.7214	0.75750	0.881	0.66736	4.6490	2,692

OPEN FLOW 2,692 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 17th day of January, 19 67.

Harold L. Young
Witness (if any)

Chris H. Rose
For Company