



Colorado
OF KANSAS - CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST RECEIVED

FORM CG-1

TYPE TEST: ☒ Initial ☐ Annual JAN 9 1967 TEST DATE: 1/11/67

COMPANY: Shenandoah Oil Corp. LEASE: Cogburn COLO. OIL & GAS CONS. COMM. 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: Topeka PIPELINE CONNECTION: None

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

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

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

TYPE COMPLETION (Describe): Single, with static column TYPE FLUID PRODUCTION: None

PRODUCING THRU: Tubing RESERVOIR TEMPERATURE: 98 F 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"

REMARKS: New well

OBSERVED DATA

DURATION OF SHUT-IN: 89 HR.

RATE NO.	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DIEF. (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	
1	1/8	322		60	60	322	336.4	322	336.4	1	0
2	7/32	309		63	60	314	328.4	312	326.4	1	0
3	5/16	281		71	60	303	317.4	295	309.4	1	0
4	7/16	227		73	60	285	299.4	264	278.4	1	0
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RATE OF FLOW CALCULATIONS

RATE NO.	COEFFICIENT (F _D)(F _P) 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 Q Mcfd	GOR	G _m
1	0.2716	336.4		1.155	1.000	1.046	110	-	
2	0.8608	323.4		1.155	0.9971	1.044	335	-	
3	1.714	295.4		1.155	0.9896	1.038	601	-	
4	3.495	241.4		1.155	0.9877	1.030	1,004	-	
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PRESSURE CALCULATIONS

RATE NO.	P _t psia	P _c psia	P _w psia	(P _c) ² THOUSANDS	(P _w) ² THOUSANDS	PLOTING POINTS		100 $\frac{P_w - P_a}{P_c - P_a}$
						(P _c) ² - (P _w) ² THOUSANDS	Q Mcfd	
1	336.4	339.4	336.4	115.2	113.2	2.0	110	99.1
2	326.4	339.4	328.4	115.2	107.8	7.4	335	96.6
3	309.4	339.4	317.4	115.2	100.7	14.5	601	93.2
4	278.4	339.4	299.4	115.2	89.6	25.6	1,004	87.7
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INDICATED WELLHEAD OPEN FLOW 3,880 Mcfd @ 14.65 psia "n" = 0.881

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, 1967.

Witness (if any)

For Commission

For Company

Checked by