

Flow Time	1st 8	Min.	2nd 60	Min.	Date	9-22-62	Ticket Number	343011 S
Closed In Press. Time	1st 20	Min.	2nd 20	Min.	Kind of Job	Open Hole	Halliburton District	McPherson
Pressure Readings	Field		Office Corrected		Tester	M. W. Brack	Witness	Don Melland
Depth Top Gauge	2831	Ft.	Blanked Off		Drilling Contractor	Melland Drilling Company		
BT. P.R.D. No.	272		12	Hour Clock	Elevation	1534' DF	Top Packer	-
Initial Hydro Mud Pressure	1460		1419		Total Depth	2853	Bottom Packer	2840'
Initial Closed in Pres.	700		699		Interval Tested	2840-2853'	Formation Tested	Mississippi
Initial Flow Pres.	19	1	17		Casing or Hole Size	7 7/8"	Casing Perfs.	Top - Bot. -
Final Flow Pres.	28	1	19		Surface Choke	1 1/4"	Bottom Choke	5/8"
Final Closed in Pres.	691		699		Size & Kind Drill Pipe	4 1/2" FH	Drill Collars Above Tester	-
Final Hydro Mud Pressure	1365		1419		Mud Weight	9.7	Mud Viscosity	37
Depth Cen. Gauge	2849	Ft.	Yes	Blanked Off	Temperature	98	Anchor Size & Length	ID 4" OD 5" X 13'
BT. P.R.D. No.	738		12	Hour Clock	Depths Mea. From	Kelly Bushing	Depth of Tester Valve	2830' Ft.
Initial Hydro Mud Pres.	1420		1427		Cushion	None	Depth Back Pres. Valve	- Ft.
Initial Closed in Pres.	701		703		Recovered	80 Feet of	Gas cut drilling mud	Med. From Tester Valve
Initial Flow Pres.	18	1	42		Recovered	Feet of		
Final Flow Pres.	24	2	27		Recovered	Feet of		
Final Closed in Pres.	693		697		Recovered	Feet of		
Final Hydro Mud Pres.	1379		1427		Oil A.P.I. Gravity	-	Water Spec. Gravity	-
Depth Bot. Gauge		Ft.		Blanked Off	Gas Gravity	-	Surface Pressure	- psi
BT. P.R.D. No.				Hour Clock	Tool Opened	8:00 A.M.	Tool Closed	9:48 A.M.
Initial Hydro Mud Pres.					Remarks	Opened tool with a fair blow increasing.		
Initial Closed in Pres.						Closed in for a 20 minute Initial Closed in Pres.		
Initial Flow Pres.		1				Reopened tool with a strong blow. Gas to surface		
Final Flow Pres.		2				in 42 minutes. Took a 20 minute Final Closed in Pres.		
Final Closed in Pres.								
Final Hydro Mud Pres.								

FORMATION TEST DATA

Legal Location NE NE NW 31-18-15 E

Lease Name

Well No.

Test No.

Field Area

County

MAHON

State

KANSAS

CAL JONES

Lease Owner/Company Name

Owner's District

- 31-18-15

Gauge No. 272			Depth 2831			Clock 12 hour		Ticket No. 343011		
First Flow Period			Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\phi}{\phi}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\phi}{\phi}$	PSIG Temp. Corr.
P ₀	.000	17	.000		19	.000	22	.000		42
P ₁	.053	19	.0133		148	.101	30	.0134		249
P ₂			.0266		285	.202	36	.0268		404
P ₃			.0399		409	.303	40	.0402		514
P ₄			.0532		511	.404	42	.0536		580
P ₅			.0665		580			.0670		620
P ₆			.0798		625			.0804		647
P ₇			.0931		655			.0938		666
P ₈			.1064		674			.1072		680
P ₉			.1197		688			.1206		691
P ₁₀			.1330		699			.1340		699

Gauge No. 738			Depth 2849			Clock 12 hour				
P ₀	.000	42	.000		32	.000	27	.000		45
P ₁	.056	32	.0143		145	.103	34	.0139		207
P ₂			.0286		285	.206	40	.0278		383
P ₃			.0429		415	.309	45	.0417		497
P ₄			.0572		518	.412	45	.0556		566
P ₅			.0715		584			.0695		609
P ₆			.0858		629			.0834		640
P ₇			.1001		661			.0973		662
P ₈			.1144		679			.1112		677
P ₉			.1287		693			.1251		689
P ₁₀			.1430		703			.1390		697

Reading Interval			2			15		2		Minutes	
REMARKS:											

SPECIAL PRESSURE DATA

343011-BT-272

1.12

TIME

343011-BT-738

0.44

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b₁	= Approximate Radius of Investigation (Net Pay Zone h ₁)	Feet
D.R.	= Damage Ratio	—
EI	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h₁	= Net Pay Thickness	Feet
K	= Permeability	md
K₁	= Permeability (From Net Pay Zone h ₁)	md
m	= Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	psi/cycle
OF₁	= Maximum Indicated Flow Rate	MCF/D
OF₂	= Minimum Indicated Flow Rate	MCF/D
OF₃	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF₄	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_f	= Final Flow Pressure	Psig.
P_{ot}	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q₁	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,
Fresh Water Corrected to 100° F.