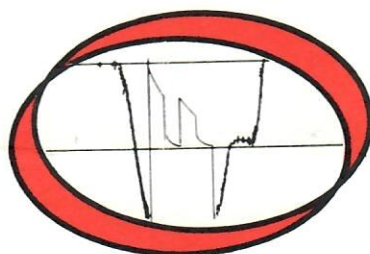
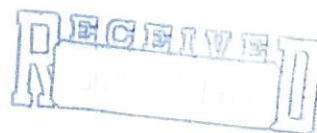


Formation Testing Service Report



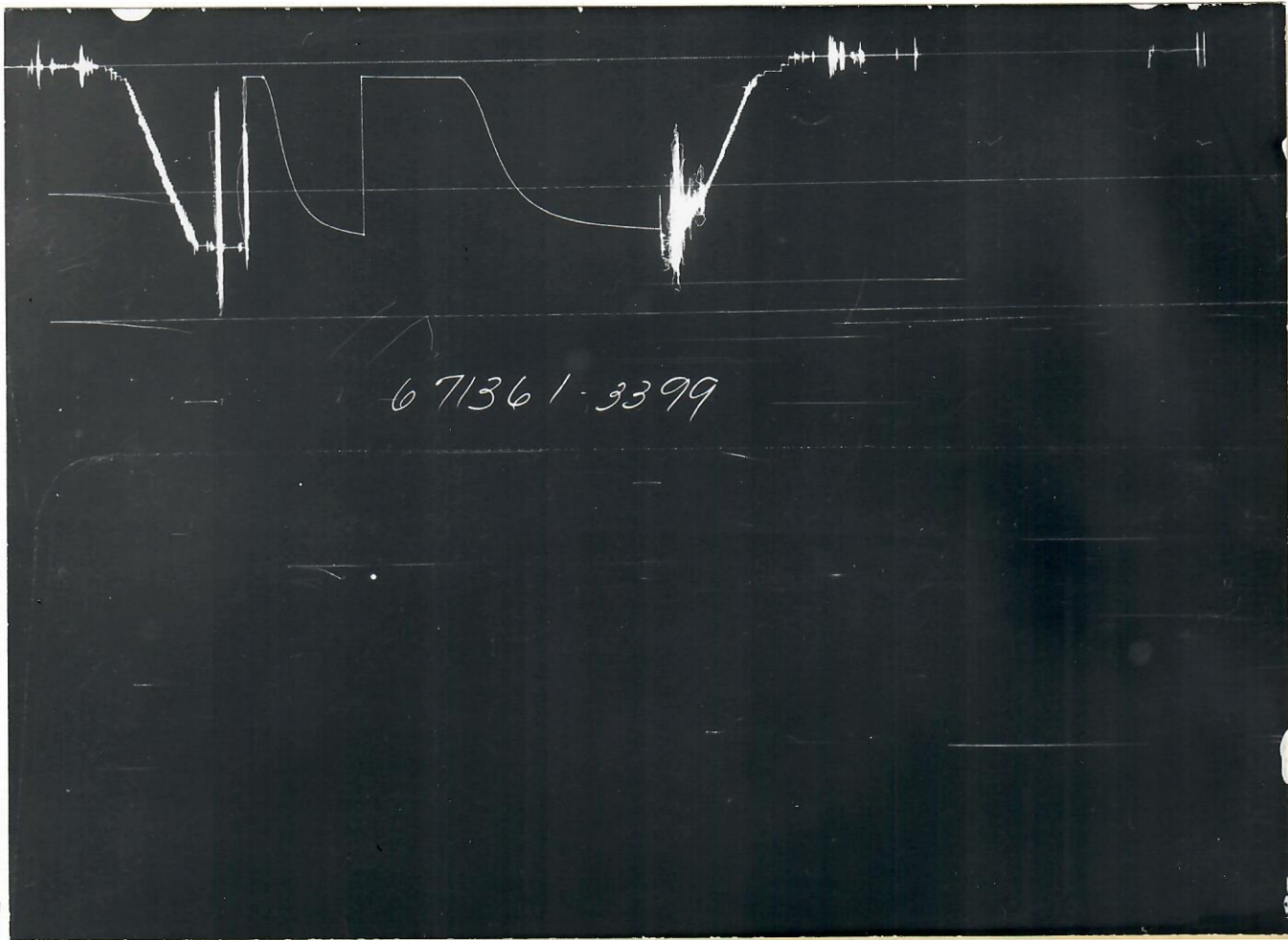
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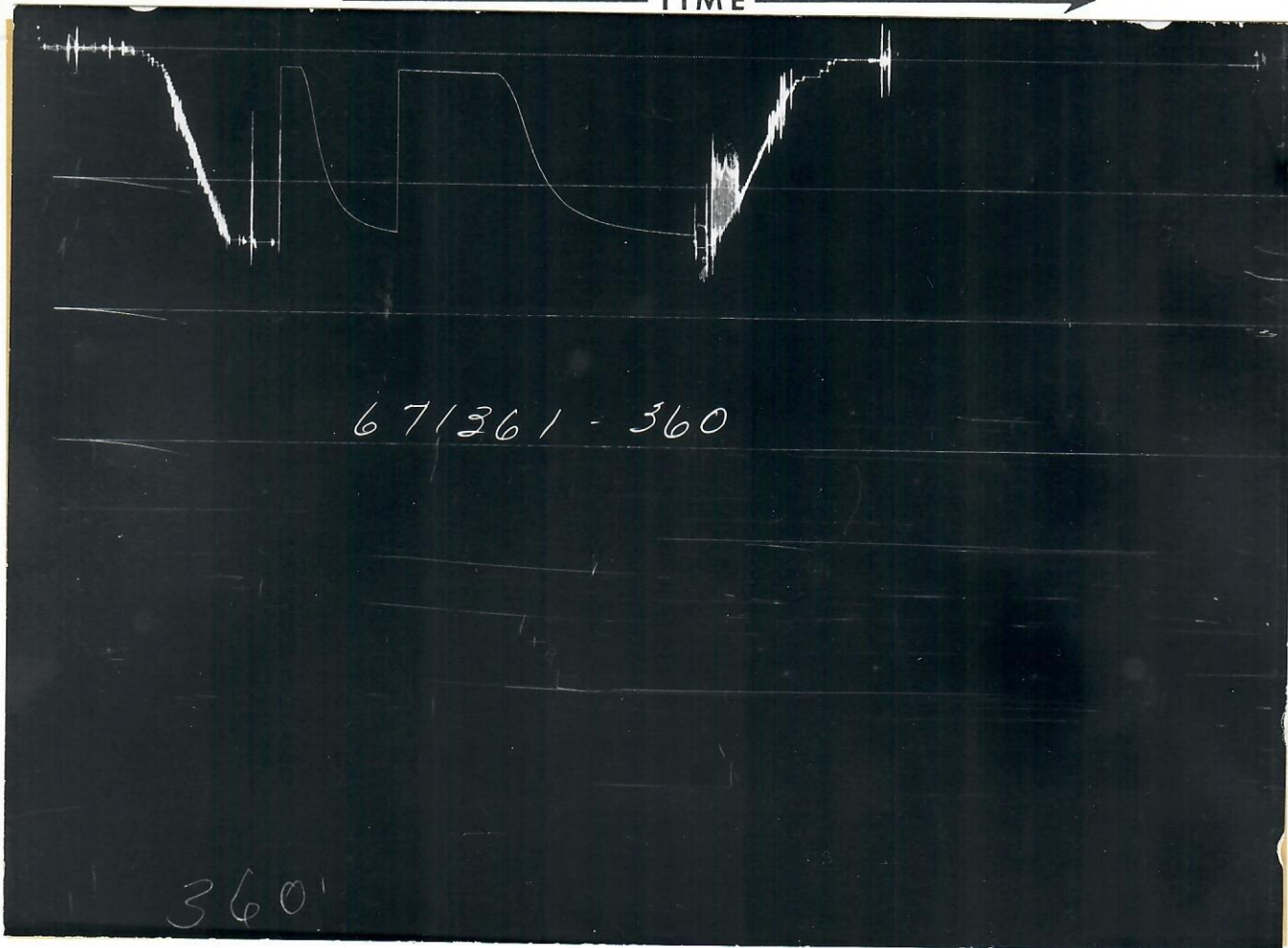
HALLIBURTON SERVICES

DUNCAN, OKLAHOMA



PRESSURE

TIME



360'

Each Horizontal Line Equal to 1000 p.s.i.

Gauge No. 3399			Depth 3015'			Clock No. 10568			12hour	Ticket No. 671361					
First Flow Period			First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.0000	104	.0000		108	.0000	114	.0000		130					
1	.0133	104	.0333*		286	.0662	116	.0531		246					
2	.0266	104	.0733		684	.1324	120	.1062		510					
3	.0399	104	.1133		966	.1986	122	.1593		788					
4	.0532	106	.1533		1127	.2648	124	.2124		980					
5	.0665	106	.1933		1218	.3310	126	.2655		1099					
6	.0800	108	.2333		1274	.3970	130	.3186		1175					
7			.2733		1310			.3717		1224					
8			.3133		1333			.4248		1258					
9			.3533		1349			.4779		1284					
10			.3930		1361			.5310		1302					
11								.5841		1315					
12								.6372		1327					
13								.6903		1335					
14								.7434		1343					
15								.7960		1351					

Gauge No. 360			Depth 3051'			Clock No. 10566			12 hour				
0	.0000	131	.0000		129	.0000	140	.0000		152			
1	.0133	125	.0333*		306	.0665	138	.0532		279			
2	.0266	125	.0733		702	.1330	142	.1064		544			
3	.0399	125	.1133		980	.1995	144	.1596		823			
4	.0532	125	.1533		1143	.2660	148	.2128		1008			
5	.0665	127	.1933		1236	.3325	150	.2660		1126			
6	.0800	129	.2333		1292	.3990	152	.3192		1199			
7			.2733		1329			.3724		1250			
8			.3133		1352			.4256		1282			
9			.3533		1369			.4788		1308			
10			.3930		1381			.5320		1325			
11								.5852		1338			
12								.6384		1350			
13								.6916		1360			
14								.7448		1366			
15								.7980		1373			
Reading Interval 2			6			10			8				
REMARKS:			*First interval is equal to 5 minutes.										Minutes

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub				
Water Cushion Valve	5 3/4"	2"	1'	
Drill Pipe				
Drill Collars	4 1/2"	3.826"	2805'	
Handling Sub & Choke Assembly	6"	2 1/4"	225'	
Dual CIP Valve				
Dual CIP Sampler	5"	.87"	7'	
Hydro-Spring Tester	5"	.75"	5'	3012'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3"	4'	3015'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7"	1.50"	5.80'	3030'
Distributor				
Packer Assembly	7"	1.50"	4.60'	3036'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"		4'	3051'
Anchor pipe safety jt.	5"	1.50"	4'	
Drill Collars	4 1/2"	3"	31.60'	
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				
Total Depth				3090'

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_{or}	= 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.