

THOMPSON

E-2

(4100'-4121')

CITIES SERVICE PETROLEUM CO.

LIBERAL, KANSAS

LEASE NAME

WELL NO.

TEST NO.

LEASE OWNER

OWNERS DISTRICT

LOCATION 31-30-33

FIELD

COUNTY

HASKELL

STATE KANSAS



BOMIN TESTING CO. BOX 782 LIBERAL, KANSAS

Date 8/20/62
Ticket No. 1956
DISTRICT LIBERAL
Kind of Job OPEN HOLE TEST

CONTRACTOR PRIME DRILLING COMPANY

HOLE & TOOL DATA

Elevation 2961' KB Top Packer Depth
Total Depth 4121' Bottom Packer Depth 4100'
Casing or Hole Size 7 7/8" Size & Type Wall Packer 5 1/2" CON.
Liner or Rathole Size 6 1/8" Size Bottom Choke 1/2"
Size Surface Choke 1"

Interval Tested 4100'-4121' ID & Length Air Chamber
Formation Tested LANSING A ID & Length Drill Collars 2 1/2" x 120'

Est. Gauge Depth Temp. 109 Size Drill Pipe 4 1/2" FH

MUD DATA Weight 9.7 Viscosity 36
All depths measured from KB No. Folders Reproduced 5

REMARKS: GAS TO SURFACE IN 3 MIN. 5 MIN. 734MCF. 10 MIN 887MCF. 20 MIN. 887MCF. STABILIZED. OIL TO SURFACE IN 48 MIN.

Initial Closed in Time Minutes
Tool Open Flow Period 60 Minutes
Final Closed in Time 30 Minutes
Depth Top Gauge 4116 Ft. Blanked Off No

Recorder No. 2897 12 Hr. Clock

Pressure Readings Field Office Corrected

Initial Hydro Mud Pressure 2195 2195

Initial Closed in Pres.

Initial Flow Pres. 394 352

Final Flow Pres. 459 425

Final Closed in Pres. 1029 1012

Final Hydro Mud Pressure 2195 2195

Depth Bottom Gauge 4121 Ft. Blanked Off YES

Recorder No. 88 4 Hr. Clock

Pressure Readings Field Office Corrected

Initial Hydro Mud Pressure

Initial Closed in Pres.

Initial Flow Pres.

Final Flow Pres.

Final Closed in Pres.

Final Hydro Mud Pressure

Recovered 950 Feet of GLEAN GASSY OIL

Recovered Feet of

Recovered Feet of

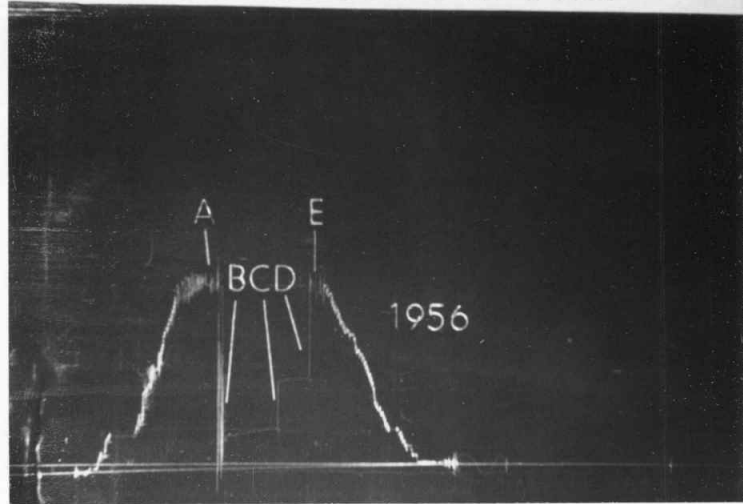
Recovered Feet of

Witnessed By W. E. MAKEMSON

Amount-Type of Cushion

Tester ROBERT IVES

A-IHMP B-IFP C-FFP D-CIP E-FHMP



Flow Time	1st 60	Min.	2nd	Min.	Date	8-21-62	Ticket Number	347650	S	Legal Location Sec. - Twp. - Range	31	30	33	Field Area	THOMPSON	Lease Name	E-2	Well No.	2	Test No.	County	HASKELL	State	KANSAS	Owner's District	LIBERAL
Closed In Press. Time	1st 30	Min.	2nd	Min.	Kind of Job	OPEN HOLE	Halliburton District	LIBERAL																		
Pressure Readings	Field		Office Corrected		Tester	JACK PITZER	Witness	K. W. BEDDINGFIELD																		
Depth Top Gauge	4117	Ft.	No	Blanked Off	Drilling Contractor	PRIME DRILLING CO.																				
BT. P.R.D. No.	196		12	Hour Clock	Elevation	2955 Est.	Top Packer																			
Initial Hydro Mud Pressure	GAUGE FAILURE				Total Depth	4169'	Bottom Packer	4129'																		
Initial Closed in Pres.					Interval Tested	4129-4161'	Formation Tested	Lansing																		
Initial Flow Pres.	1				Casing or Hole Size	7 7/8"	Casing Perfs.	Top																		
	2							Bot.																		
Final Flow Pres.	1				Surface Choke	1"	Bottom Choke	1/2"																		
Final Closed in Pres.					Size & Kind Drill Pipe	4 1/2" FH	Drill Collars Above Tester	I.D. - LENGTH 2 1/4" X 120'																		
Final Hydro Mud Pressure					Mud Weight	9.5	Mud Viscosity	37																		
Depth Cen. Gauge	4057	Ft.	Yes	Blanked Off	Temperature	110	°F Est.	Anchor Size	ID 3 3/4																	
							°F Actual	& Length	OD 5 X 32																	
BT. P.R.D. No.	699		12	Hour Clock	Depths Mea. From	2955 RKB	Depth of Tester Valve	4118 Ft.																		
Initial Hydro Mud Pres.	2050		2085		Cushion		Depth Back Pres. Valve	Ft.																		
Initial Closed in Pres.	-		-		Recovered	1320	Feet of	Oil																		
Initial Flow Pres.	345		2	369	Recovered	180	Feet of	Gas & oil cut water																		
Final Flow Pres.	370		2	361	Recovered		Feet of																			
Final Closed in Pres.	1030		1051		Recovered		Feet of																			
Final Hydro Mud Pres.	2070		2071		Oil A.P.I. Gravity	36	Water Spec. Gravity																			
Depth Bot. Gauge		Ft.		Blanked Off	Gas Gravity		Surface Pressure	psi																		
BT. P.R.D. No.				Hour Clock	Tool Opened	3:45 PM	A.M. P.M.	Tool Closed	5:15 PM																	
Initial Hydro Mud Pres.					Remarks	Gas to the surface in 7 minutes, measured																				
Initial Closed in Pres.						277 MCF in 10 mins, 277 MCF in 20 mins, 277 MCF																				
Initial Flow Pres.		1				in 30 mins, 196 MCF in 35 minutes too weak to measure.																				
Final Flow Pres.		2																								
Final Closed in Pres.		1																								
Final Flow Pres.		2																								
Final Closed in Pres.																										
Final Hydro Mud Pres.																										

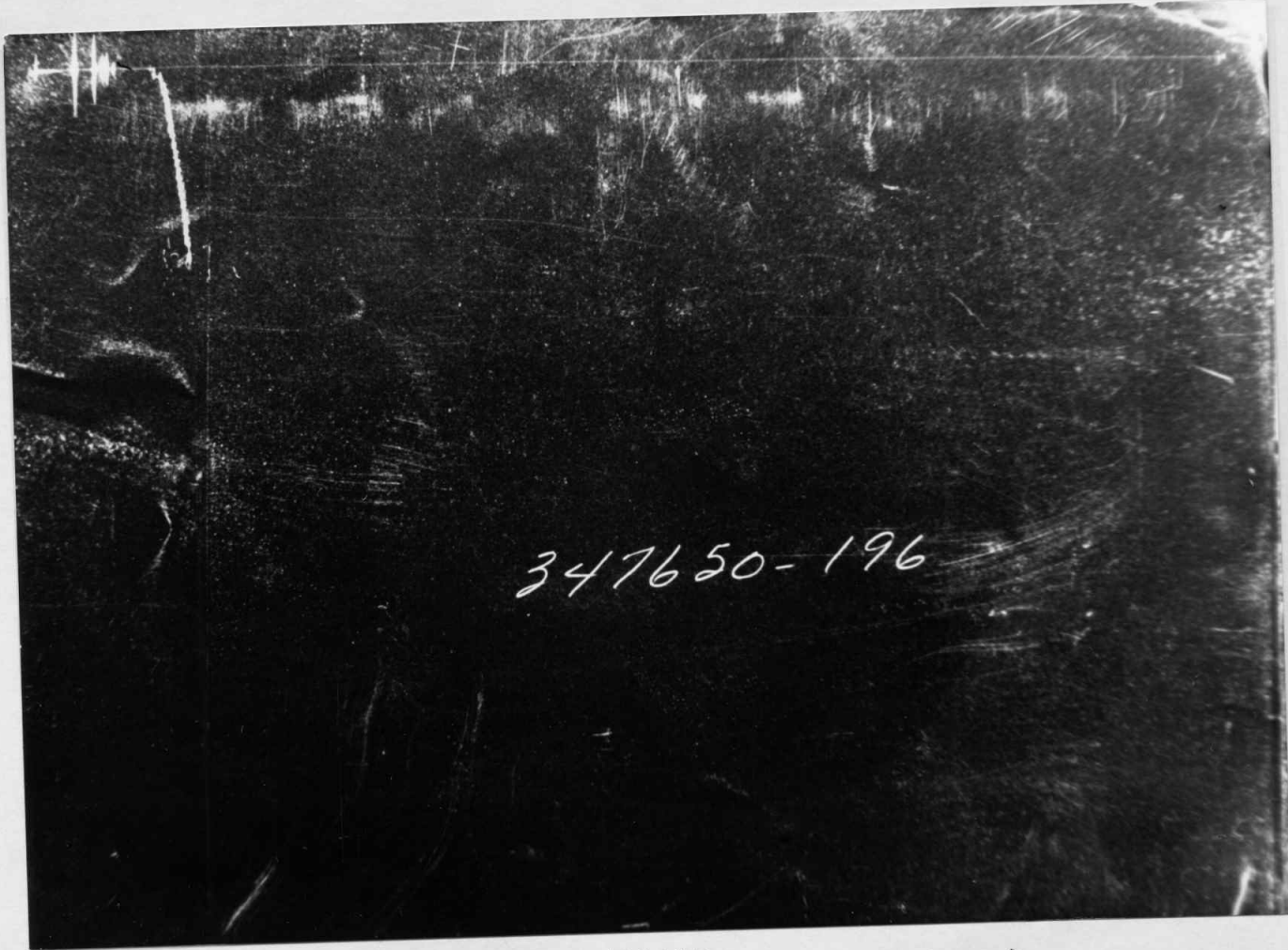
FORMATION TEST DATA

56

Gauge No. 196		Depth 4117			Clock 12 hour		Ticket No. 347650		
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P ₀ GAUGE FAILURE									

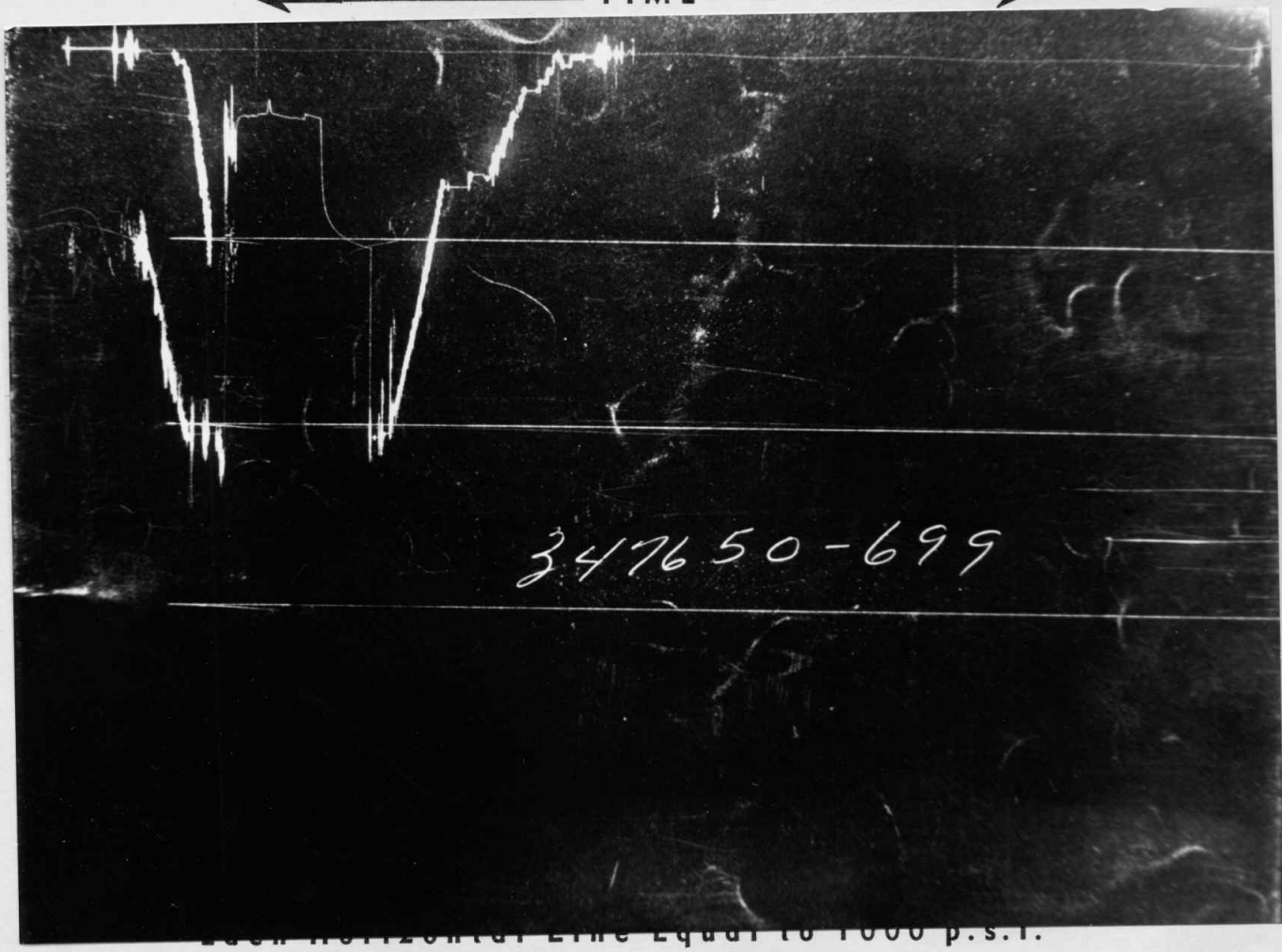
Gauge No. 699		Depth 4057			Clock 12 hour				
P ₀					.000	269	.000		361
P ₁					.0975	356	.021		838
P ₂					.1950	338	.042		915
P ₃					.2925	360	.063		955
P ₄					.3900	361	.084		980
P ₅							.105		1000
P ₆							.126		1013
P ₇							.147		1027
P ₈							.168		1036
P ₉							.189		1044
P ₁₀							.210		1051
Reading Interval					15		3		Minutes
REMARKS:									

SPECIAL PRESSURE DATA




↑
PRESSURE
↓

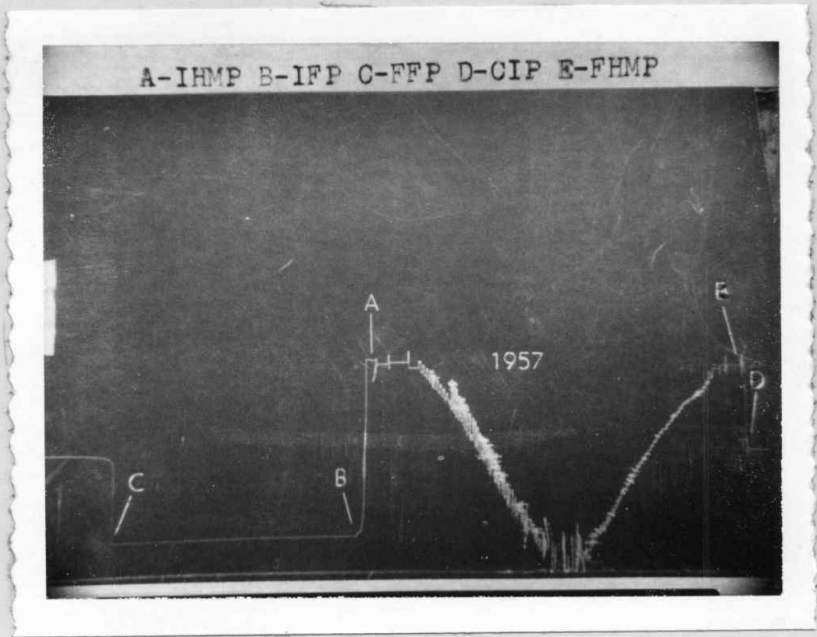
← TIME →

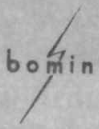


Each horizontal line equal to 1000 p.s.i.

Initial Closed in Time		Minutes	 BOMIN TESTING CO. BOX 782 LIBERAL, KANSAS	Date	8/25/62	LOCATION 31-30-33			
Tool Open Flow Period		80 Minutes		Ticket No.	1957				
Final Closed in Time		30 Minutes		DISTRICT	LIBERAL				
Depth Top Gauge	4538 Ft.	Blanked Off No	Kind of Job OPEN HOLE TEST						
Recorder No.	2896	12 Hr. Clock	CONTRACTOR PRIME DRILLING Co.		FIELD				
Pressure Readings	Field	Office Corrected	HOLE & TOOL DATA						
Initial Hydro Mud Pressure		2260	Elevation	2959' KB		Top Packer Depth			
Initial Closed in Pres.			Total Depth	4555'		Bottom Packer Depth	4543'		
Initial Flow Pres.		370	Casing or Hole Size	7 7/8"		Size & Type Wall Packer	6 1/2" BT		
Final Flow Pres.		370	Liner or Rathole Size			Size Bottom Choke	1/2"		
Final Closed in Pres.		1345				Size Surface Choke	1"		
Final Hydro Mud Pressure		2260	Interval Tested	4543'-4555'		ID & Length Air Chamber			
Depth Bottom Gauge	4555 Ft.	Blanked Off YES	Formation Tested			ID & Length Drill Collars	2 1/2" x 120'		
Recorder No.	88	4 Hr. Clock	Est. Gauge Depth Temp.	115		Size Drill Pipe	4 1/2" FH		
Pressure Readings	Field	Office Corrected	MUD DATA			Weight	9.4	Viscosity	52
Initial Hydro Mud Pressure			All depths measured from			KB	No. Folders Reproduced	5	
Initial Closed in Pres.			REMARKS: GAS TO SURFACE IN 2 MIN.						
Initial Flow Pres.			3 MIN. 1122MCF, 5 MIN 1788MCF, 10 MIN.						
Final Flow Pres.			2196MCF, 15 MIN. 2278MCF, 20 MIN. 2290						
Final Closed in Pres.			MCF, 30 MIN. 2318MCF, STABALIZED THE						
Final Hydro Mud Pressure			REMAINDER OF TEST.						
Recovered	25	Feet of SLIGHTLY OIL CUT & HEAVY GAS CUT							
Recovered		Feet of MUD							
Recovered		Feet of							
Recovered		Feet of							
Witnessed By ED MAKEMSON									
Amount-Type of Cushion			Tester ROBERT IVES						
COUNTY HASKELL STATE KANSAS									

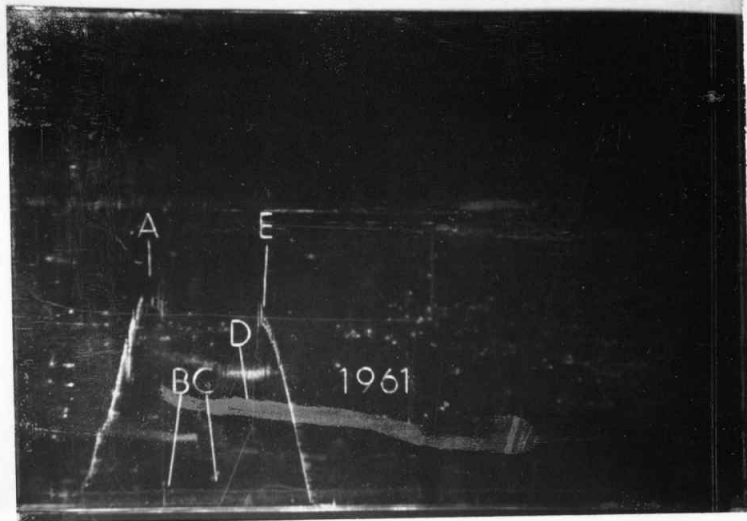
THOMPSON
 LEASE NAME
 E-2
 WELL NO.
 (4543'-4555')
 TEST NO.
 CITIES SERVICE PETROLEUM CO.
 LEASE OWNER
 LIBERAL, KS.
 OWNERS DISTRICT




Initial Closed in Time		Minutes	 BOMIN TESTING CO. BOX 782 LIBERAL, KANSAS		Date	8/26/62	LOCATION 31-30-33	
Tool Open Flow Period		60 Minutes			Ticket No.	1961		
Final Closed In Time		30 Minutes			DISTRICT	LIBERAL		
Depth Top Gauge	4571 Ft.	Blanked Off	No	Kind of Job	OPEN HOLE TEST			
Recorder No.	2897	12 Hr. Clock	CONTRACTOR		PRIME DRILLING Co.	FIELD		
Pressure Readings	Field	Office Corrected	HOLE & TOOL DATA					
Initial Hydro Mud Pressure		2508	Elevation	2959' KB	Top Packer Depth			
Initial Closed in Pres.			Total Depth	4577'	Bottom Packer Depth		4556'	
Initial Flow Pres.		30	Casing or Hole Size	7 7/8"	Size & Type Wall Packer		6 1/2" BT	
Final Flow Pres.		30	Liner or Rathole Size		Size Bottom Choke		1/2"	
Final Closed in Pres.		918			Size Surface Choke		1"	
Final Hydro Mud Pressure		2463	Interval Tested	4556'-4577'	ID & Length Air Chamber			
Depth Bottom Gauge	4577 Ft.	Blanked Off	YES	Formation Tested	D-ZONE		ID & Length Drill Collars	2 1/2" x 210'
Recorder No.	86	4 Hr. Clock		Est. Gauge Depth Temp.	115		Size Drill Pipe	4 1/2" FH
Pressure Readings	Field	Office Corrected		MUD DATA Weight	9.5		Viscosity	46
Initial Hydro Mud Pressure				All depths measured from	KB		No. Folders Reproduced	5
Initial Closed in Pres.				REMARKS: WEAK BLOW, INCREASING TO				
Initial Flow Pres.				STRONG BLOW AFTER 23 MIN.				
Final Flow Pres.								
Final Closed in Pres.								
Final Hydro Mud Pressure								
Recovered		10	Feet of	GAS CUT MUD				
Recovered			Feet of					
Recovered			Feet of					
Recovered			Feet of					
Witnessed By		K. W. BEDINGFIELD						
Amount-Type of Cushion		Tester TOM BROWN						
				COUNTY HASKELL		STATE KANSAS		

THOMPSON
 LEASE NAME
 E-2
 WELL NO.
 (4556' (4577'))
 TEST NO.
 CITIES SERVICE PETROLEUM CO.
 LEASE OWNER
 LIBERAL, KS.
 OWNERS DISTRICT

A-IMP B-IP C-FIP D-GIP E-FHMP



Initial Closed in Time	Minutes	 BOMIN TESTING CO. BOX 782 LIBERAL, KANSAS	Date	8/28/62	LOCATION 31-30-33		
Tool Open Flow Period	65 Minutes		Ticket No.	1959			
Final Closed in Time	30 Minutes		DISTRICT	LIBERAL			
Depth Top Gauge	4736 Ft.	Blanked Off	No	Kind of Job		OPEN HOLE TEST	
Recorder No.	2896	12 Hr. Clock	CONTRACTOR PRIME DRILLING COMPANY		FIELD		
Pressure Readings	Field	Office Corrected	HOLE & TOOL DATA				
Initial Hydro Mud Pressure		2089	Elevation	Top Packer Depth			
Initial Closed in Pres.			Total Depth	4746'		Bottom Packer Depth	4722'
Initial Flow Pres.		428	Casing or Hole Size	7 7/8"		Size & Type Wall Packer	6 1/2" BT
Final Flow Pres.		469	Liner or Rathole Size			Size Bottom Choke	1/2"
Final Closed in Pres.		1318				Size Surface Choke	1"
Final Hydro Mud Pressure		2089	Interval Tested	4722'-4746'		ID & Length Air Chamber	
Depth Bottom Gauge	4746 Ft.	Blanked Off	YES	Formation Tested		ID & Length Drill Collars	2 1/2" x 210'
Recorder No.	88	4 Hr. Clock	Est. Gauge Depth Temp.	117		Size Drill Pipe	4 1/2" FH
Pressure Readings	Field	Office Corrected	MUD DATA Weight	9.5		Viscosity	48
Initial Hydro Mud Pressure			All depths measured from	KB		No. Folders Reproduced	5
Initial Closed in Pres.			REMARKS: GAS TO SURFACE IN 1 MIN. 2				
Initial Flow Pres.			MIN. 1929MCF, 5 MIN. 2374MCF, 10 MIN.				
Final Flow Pres.			2586MCF, 20 MIN. 2636MCF, 30 MIN 2828				
Final Closed in Pres.			MCF, STABLE REMAINDER OF TEST.				
Final Hydro Mud Pressure							
Recovered			1	Feet of	LIGHT COLORED CONDENSATE		
Recovered				Feet of			
Recovered				Feet of			
Recovered				Feet of			
Witnessed By			K. W. BEDINGFIELD				
Amount-Type of Cushion			Tester ROBERT IVES				

THOMPSON
 E-2 (4722'-4746')
 CITIES SERVICE PETROLEUM CO.
 LIBERAL, KS.
 LEASE NAME
 WELL NO.
 TEST NO.
 LEASE OWNER
 OWNERS DISTRICT

LOCATION 31-30-33
 FIELD
 COUNTY HASKELL
 STATE KANSAS

A-1001 B-1011 C-111 D-111 E-111 F-111

