

FLUID SAMPLE DATA				Date 6-13-76		Ticket Number 020214	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE TEST		Halliburton District GREAT BEND	
Recovery: Cu. Ft. Gas _____				Tester E. MONDERO		Witness J. SPILLMAN	
cc. Oil _____				Drilling Contractor RED TIGER DRILLING COMPANY RIG #1 TH			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested Lower Kansas City			
Tot. Liquid cc. _____				Elevation 1861' Ft.			
Gravity _____ ° API @ _____ °F.		Gas/Oil Ratio _____ cu. ft./bbl.		Net Productive Interval 38' Ft.			
		RESISTIVITY		CHLORIDE CONTENT			
Recovery Water	_____ @ _____ °F.	_____ ppm	All Depths Measured From Kelly Bushing				
Recovery Mud	_____ @ _____ °F.	_____ ppm	Total Depth 3201' Ft.				
Recovery Mud Filtrate	_____ @ _____ °F.	_____ ppm	Main Hole/Casing Size 7 7/8"				
Mud Pit Sample	_____ @ _____ °F.	_____ ppm	Drill Collar Length 930' I.D. 2.764" W.P.				
Mud Pit Sample Filtrate	_____ @ _____ °F.	_____ ppm	Drill Pipe Length 2250' I.D. 3.826"				
Mud Weight 10 vis 41 SEC. XXX			Packer Depth(s) 3163' Ft.				
			Depth Tester Valve 3154' Ft.				
Cushion		TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke	
				1 1/4"	3/4"		
Recovered 1 Feet of drilling mud.							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Remarks See Production Test Data Sheet . . .							
TEMPERATURE		Gauge No. 6041		Gauge No. 1838		Gauge No. _____	
		Depth: 3155 Ft.		Depth: 3197 Ft.		Depth: _____ Ft.	
		12 Hour Clock		12 Hour Clock		Hour Clock	
Est.	°F.	Blanked Off NO		Blanked Off YES		Blanked Off	
Actual	°F.	Pressures		Pressures		Pressures	
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic		1711	1747		1771		
First Period	Flow Initial	8	10		30		
	Flow Final	8	10		30		
	Closed in	66	74		95		
Second Period	Flow Initial	8	9		39		
	Flow Final	8	9		33		
	Closed in	25	24		42		
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic		1711	1709		1731		

Legal Location
Sec. - Twp. - Rng. **27 - 17S - 13E**

BOGER
Lease Name

2
Well No.

1
Test No.

3163' - 3201'
Tested Interval

Field Area
Meas. From Tester Valve

County

BARTON

State
KANSAS

L. G. STEPHENSON & COMPANY, INCORPORATED
Lease Owner/Company Name

Casing perfs. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 020214
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

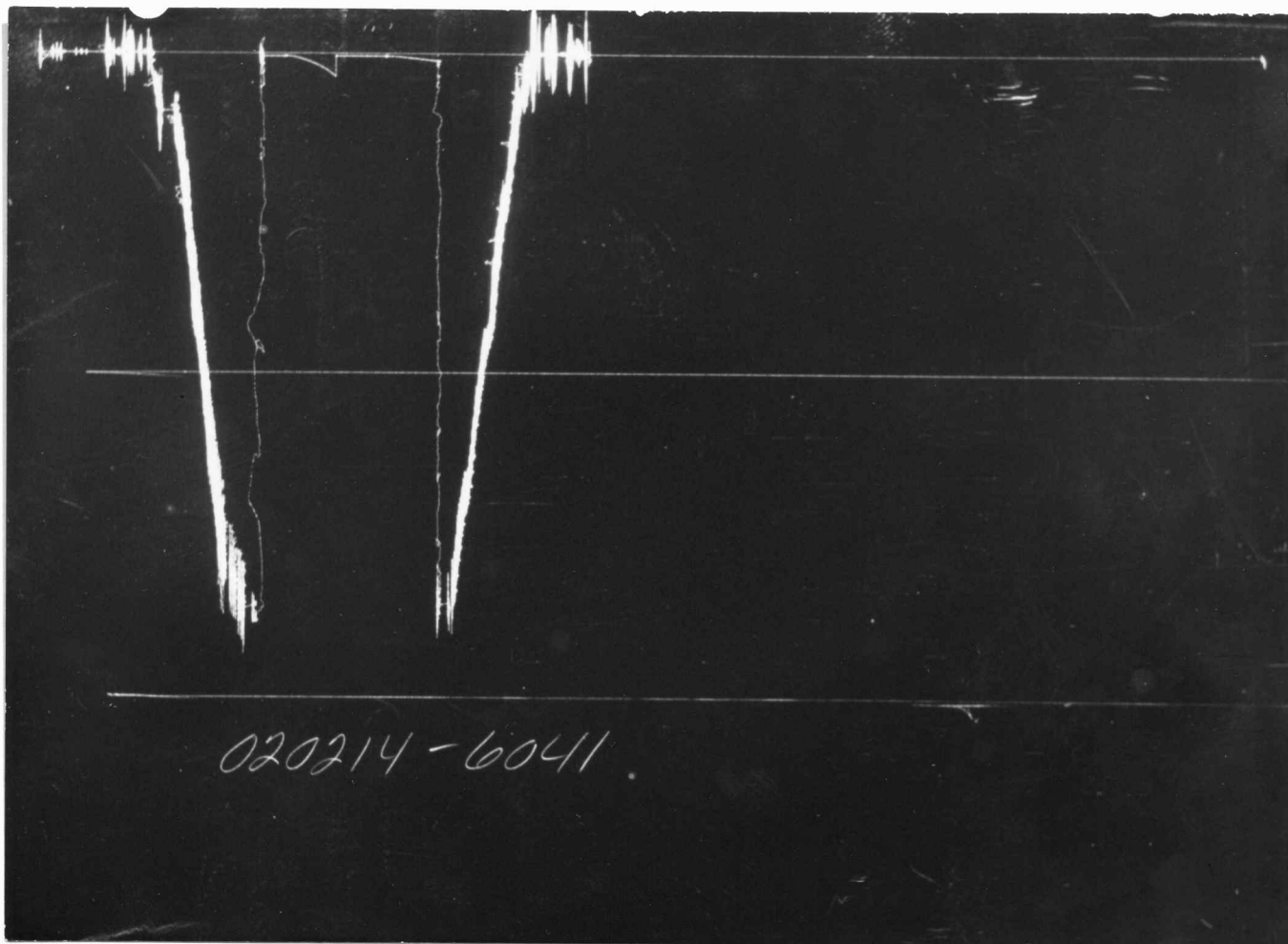
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

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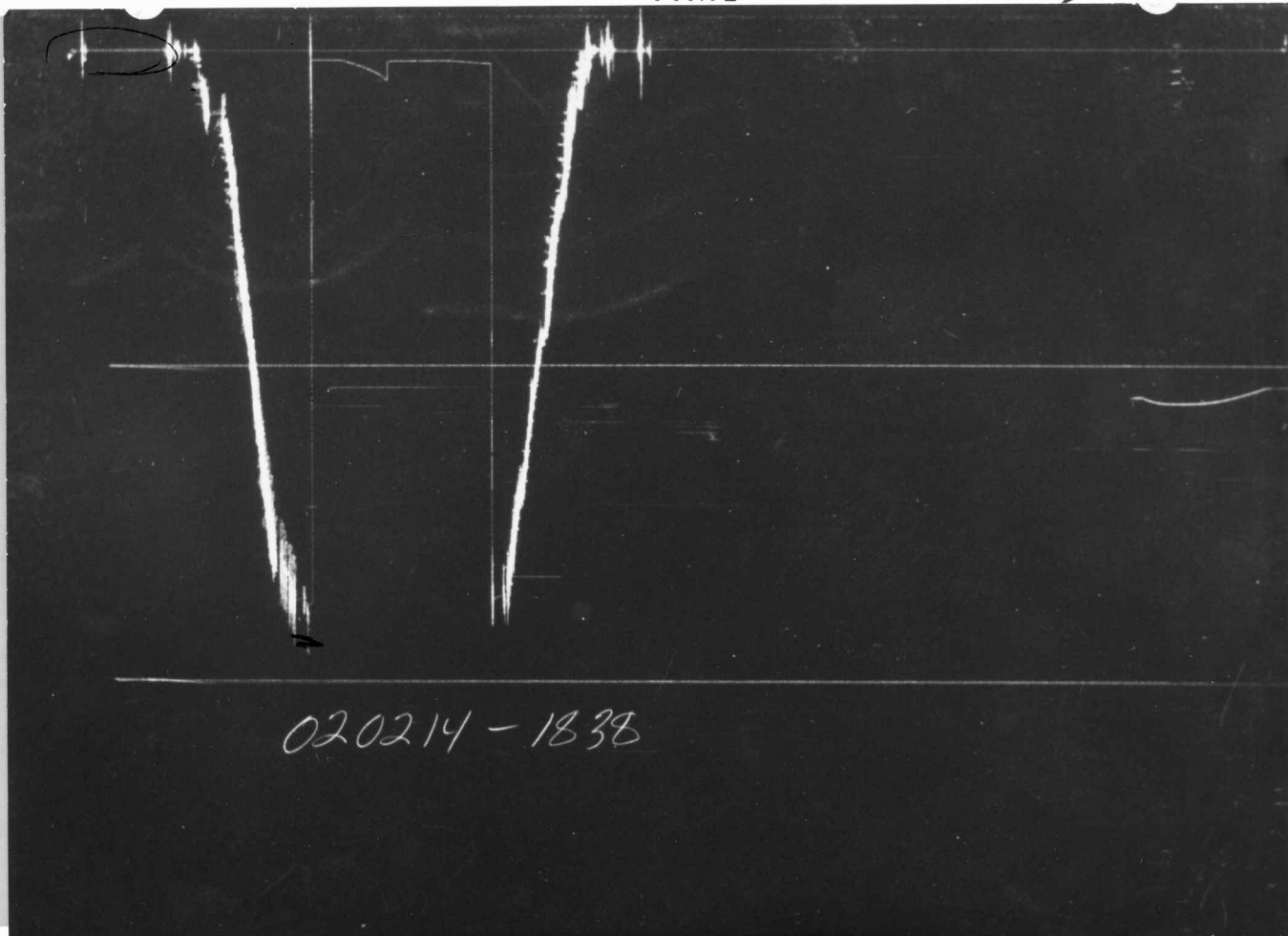
TICKET NO. 020214

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	2250'	
Drill Collars Weight Pipe	4 1/2"	2.764"	930'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	3154'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	3155'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly				
Distributor				
Packer Assembly				
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly	6 3/4"	1.53"	6'	3163'
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	3"	32'	
Blanked-Off B.T. Running Case	5"	3"	4'	3197'
Total Depth				3201'

— PRESSURE —
↓



— TIME —→



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

FLUID SAMPLE DATA				Date 6-13-76		Ticket Number 020215	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District GREAT BEND	
Recovery: Cu. Ft. Gas _____				Tester MONDERO		Witness SPELLMAN	
cc. Oil _____				Drilling Contractor RED TIGER DRILLING COMPANY NM S			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested Kansas City			
Tot. Liquid cc. _____				Elevation 1861' K.B. Ft.			
Gravity _____ ° API @ _____ °F.				Net Productive Interval 126' TEST Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing			
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth 3240' Ft.			
Recovery Water @ _____ °F. _____ ppm				Main Hole/Casing Size 7 7/8"			
Recovery Mud @ _____ °F. _____ ppm				Drill Pipe Length WP 930' I.D. 2.764" WP			
Recovery Mud Filtrate @ _____ °F. _____ ppm				Drill Pipe Length 2180' I.D. 3.826"			
Mud Pit Sample @ _____ °F. _____ ppm				Packer Depth(s) 3114' Ft.			
Mud Pit Sample Filtrate @ _____ °F. _____ ppm				Depth Tester Valve 3105' Ft.			
Mud Weight 9.8 vis 42 SEC. cp							
Cushion		TYPE AMOUNT	Depth Back	Surface	Bottom		
		NONE	Ft. Pres. Valve NONE	Choke 1/4"	Choke 3/4"		
Recovered 450' Feet of thin drilling mud							
Recovered Feet of							
Recovered Feet of							
Recovered Feet of							
Recovered Feet of							
Remarks							
SEE PRODUCTION TEST DATA SHEET...							
TEMPERATURE		Gauge No. 6041	Gauge No. 1838	Gauge No.	TIME		
Depth: 3106' Ft.		Depth: 3236' Ft.	Depth: _____ Ft.				
Est. C-100 °F.		12 Hour Clock	12 Hour Clock	Hour Clock		Tool _____ A.M.	
Blanked Off NO		Blanked Off YES	Blanked Off			Opened 2245 P.M.	
Actual °F.		Pressures	Pressures	Pressures		Opened _____ A.M.	
		Field Office	Field Office	Field Office		Bypass 0345 P.M.	
Initial Hydrostatic		1687 1693	- 1762			Reported	Computed
						Minutes	Minutes
First Period	Flow Initial	25 11	- 81				
	Flow Final	66 64	- 131			30	32
	Closed in	507 511	- 579			45	43
Second Period	Flow Initial	49 70	- 141				
	Flow Final	246 244	- 310			180	178
	Closed in	491 502	- 569			45	47
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic		1671 1667	- 1736				

Legal Location
Sec. - Twp. - Rng.

27 - 17S - 13W

Lease Name

Well No.

Test No.

Tested Interval

Field Area

Meo. From Tester Valve

County

BARTON

State

KANSAS

L.G. STEPHENSON AND COMPANY, INCORPORATED

Lease Owner/Company Name

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 020215
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

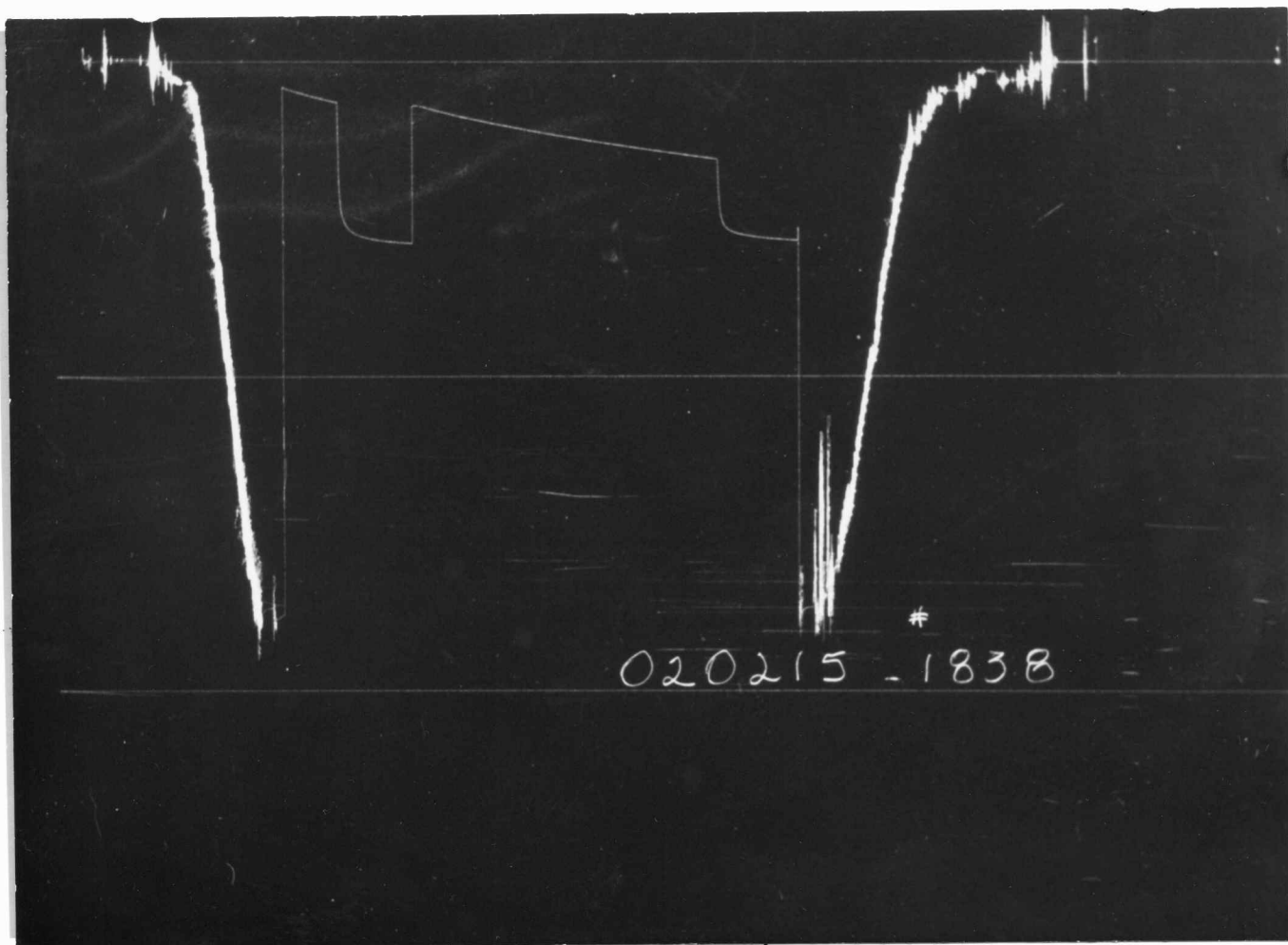
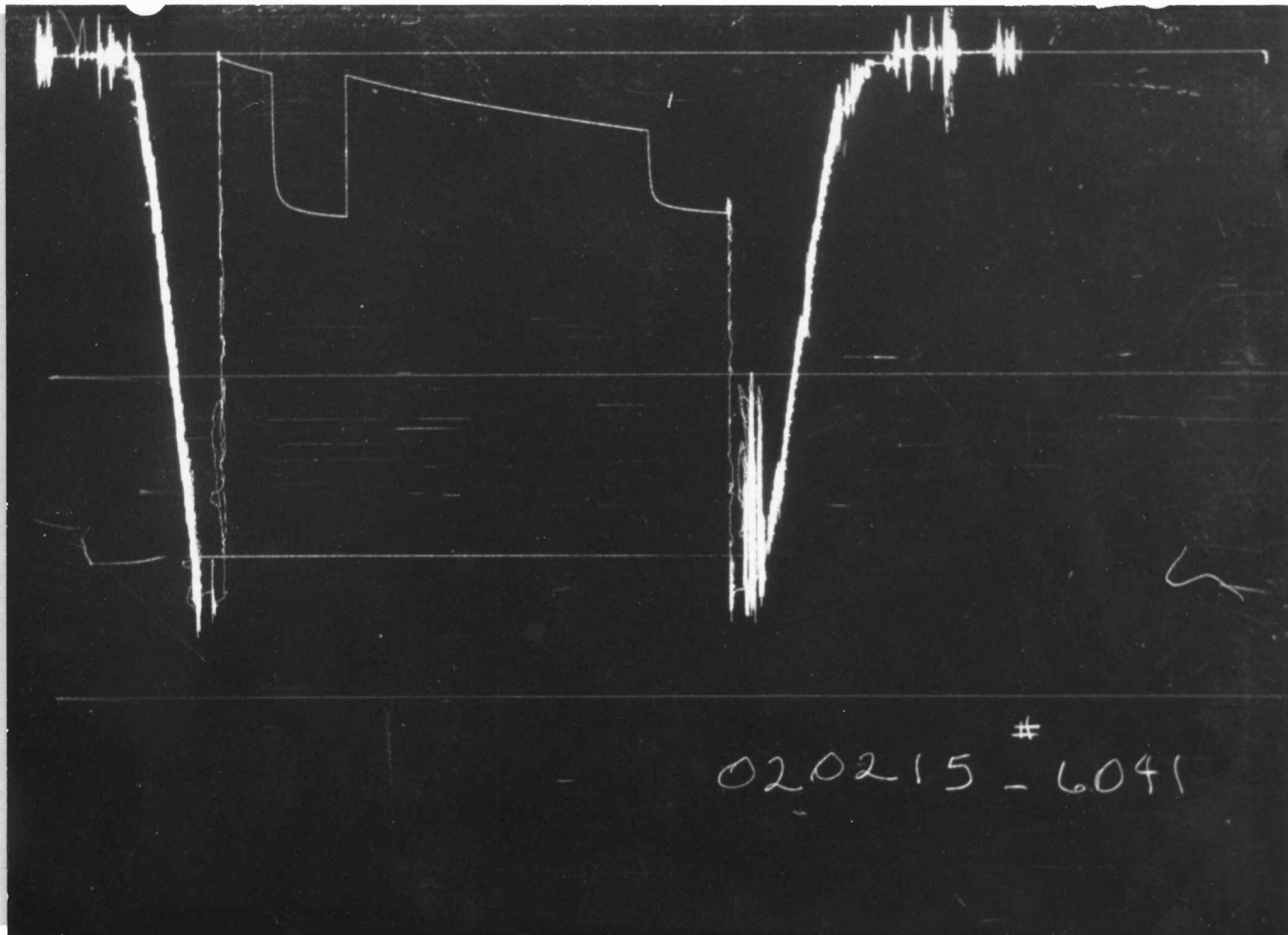
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Gauge No.			6041			Depth			3106'			Clock No.			12619			12 hour			Ticket No.			020215		
First Flow Period			First Closed In Pressure			Second Flow Period			Second Closed In Pressure			Third Flow Period			Third Closed In Pressure											
Time Defl. .000"	PSIG Temp. Corr.		Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"		PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"		PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"		PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.			
0	.000	11	.000		64	.000		70	.000		244	.000		244												
1	.0129	16*	.0067		350**	.1058		90***	.0132		435*	.0132		435*												
2	.0322	21	.0268		446	.2248		113	.0331		464	.0331		464												
3	.0515	27	.0469		468	.3438		133	.0529		475	.0529		475												
4	.0708	32	.0670		480	.4629		153	.0728		480	.0728		480												
5	.0901	37	.0871		487	.5819		170	.0926		484	.0926		484												
6	.1094	41	.1072		492	.7009		187	.1125		487	.1125		487												
7	.1287	46	.1273		495	.8199		202	.1323		489	.1323		489												
8	.1481	50	.1473		499	.9390		217	.1522		492	.1522		492												
9	.1674	54	.1674		502	1.0580		231	.1720		493	.1720		493												
10	.1867	57	.1875		505	1.1770		244	.1919		496	.1919		496												
11	.2060	64	.2076		506				.2117		497	.2117		497												
12			.2277		508				.2316		498	.2316		498												
13			.2478		509				.2514		500	.2514		500												
14			.2679		511				.2713		501	.2713		501												
15			.2880		511				.2911		502	.2911		502												
Gauge No.			1838			3236'			Clock No.			502			502			502			502			502		
			Depth						hour			12														
0	.000	81	.000		131	.000		141	.000		310	.000		310												
1	.0136	86*	.0068		403**	.1071		158***	.0133		496*	.0133		496*												
2	.0339	91	.0272		513	.2277		181	.0333		529	.0333		529												
3	.0542	96	.0475		536	.3482		202	.0533		540	.0533		540												
4	.0746	101	.0679		548	.4688		220	.0733		546	.0733		546												
5	.0949	106	.0883		555	.5893		238	.0932		550	.0932		550												
6	.1153	110	.1087		560	.7098		253	.1132		553	.1132		553												
7	.1356	115	.1290		564	.8304		269	.1332		556	.1332		556												
8	.1560	119	.1494		567	.9509		283	.1532		558	.1532		558												
9	.1763	123	.1698		569	1.0714		298	.1731		560	.1731		560												
10	.1966	127	.1901		572	1.1920		310	.1931		562	.1931		562												
11	.2170	131	.2105		574				.2131		564	.2131		564												
12			.2309		575				.2331		564	.2331		564												
13			.2513		576				.2531		566	.2531		566												
14			.2716		578				.2730		567	.2730		567												
15			.2920		579				.2930		568	.2930		568												
Reading Interval			3			18			3			3			3			3			3			Minutes		
REMARKS:			* INTERVAL = 2 MINUTES.			** INTERVAL = 1 MINUTE.			*** INTERVAL = 16 MINUTES.																	

TICKET NO.

020215

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	2180'	
Drill Collars	4 1/2"	2.764"	930'	
WEIGHT PIPE				
Handling Sub & Choke Assembly	5"	.87"	5'	
Dual CIP Valve				
Dual CIP Sampler	5"	.75"	5'	3105'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	3106'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly				
Distributor				
Packer Assembly				
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly	6 3/4"	1.53"	6'	3114'
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	4 1/2"	3.826"	93'	
DRILL PIPE				
Flush Joint Anchor	5"	3"	26'	
Blanked-Off B.T. Running Case	5"	3"	4'	3236'
Total Depth				3240'



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

FLUID SAMPLE DATA				Date 6-15-76		Ticket Number 020216	
Sampler Pressure _____ P.S.I.G. at Surface Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____				Kind of Job OPEN HOLE		Halliburton District GREAT BEND	
				Tester MR. MONDERO		Witness MR. SPELLMAN	
Gravity _____ ° API @ _____ °F.				Drilling Contractor RED TIGER DRILLING COMPANY RIG #1 BC			
Gas/Oil Ratio _____ cu. ft./bbl.				EQUIPMENT & HOLE DATA			
RESISTIVITY _____ CHLORIDE CONTENT _____				Formation Tested Arbuckle			
				Elevation 1861' KB Ft.			
				Net Productive Interval 18' Tested Ft.			
Recovery Water @ _____ °F. _____ ppm				All Depths Measured From Kelly Bushing			
Recovery Mud @ _____ °F. _____ ppm				Total Depth 3379' Ft.			
Recovery Mud Filtrate @ _____ °F. _____ ppm				Main Hole/Casing Size 7 7/8"			
Mud Pit Sample @ _____ °F. _____ ppm				Drill Collar Length 930' WP I.D. 2.764"			
Mud Pit Sample Filtrate @ _____ °F. _____ ppm				Drill Pipe Length 2450' I.D. 3.826"			
Mud Weight 9.7 vis 48 Sec.				Packer Depth(s) 3356' - 3361' Ft.			
				Depth Tester Valve 3346' Ft.			
TYPE		AMOUNT		Depth Back Pres. Valve		Surface Choke	
Cushion				Ft.		1/4"	
						Bottom Choke 3/4"	
Recovered	2	Feet of Drilling mud		Med. From Tester Valve			
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks SEE PRODUCTION TEST DATA SHEET.							
TEMPERATURE		Gauge No. 6041		Gauge No. 1838		Gauge No.	
		Depth: 3347' Ft.		Depth: 3375' Ft.		Depth: _____ Ft.	
Calc. 100 °F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Est.		Blanked Off NO		Blanked Off Yes		Blanked Off	
Actual °F.		Pressures		Pressures		Pressures	
		Field	Office	Field	Office	Field	Office
First Period	Initial Hydrostatic	1776	1781		1794		
	Flow Initial	8	13		29		
	Flow Final	8	13		25		
Second Period	Closed in	33	34		47		
	Flow Initial	8	13		26		
	Flow Final	8	13		26		
Third Period	Closed in	25	25		37		
	Flow Initial						
	Flow Final						
Final Hydrostatic		1767	1779		1792		

 Legal Location
 Sec. - Twp. - Rng.

27 - 17S - 13W

Field Area

 County **BARTON**

 State **KANSAS**

BOGER

 Well No. **2**

 Test No. **3**

3361' - 3379'

L. G. STEPHENSON

Lease Owner/Company Name

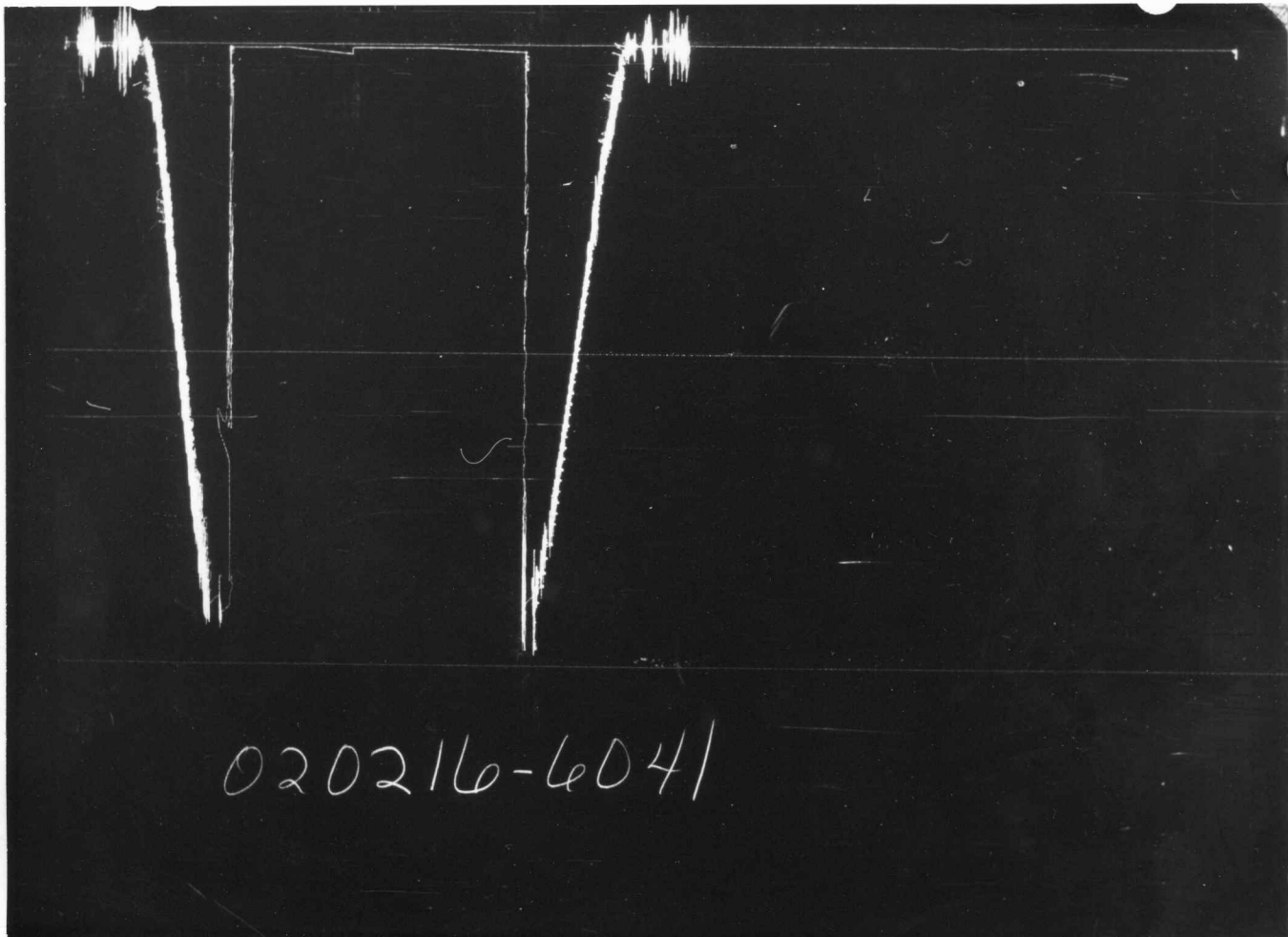
020216

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

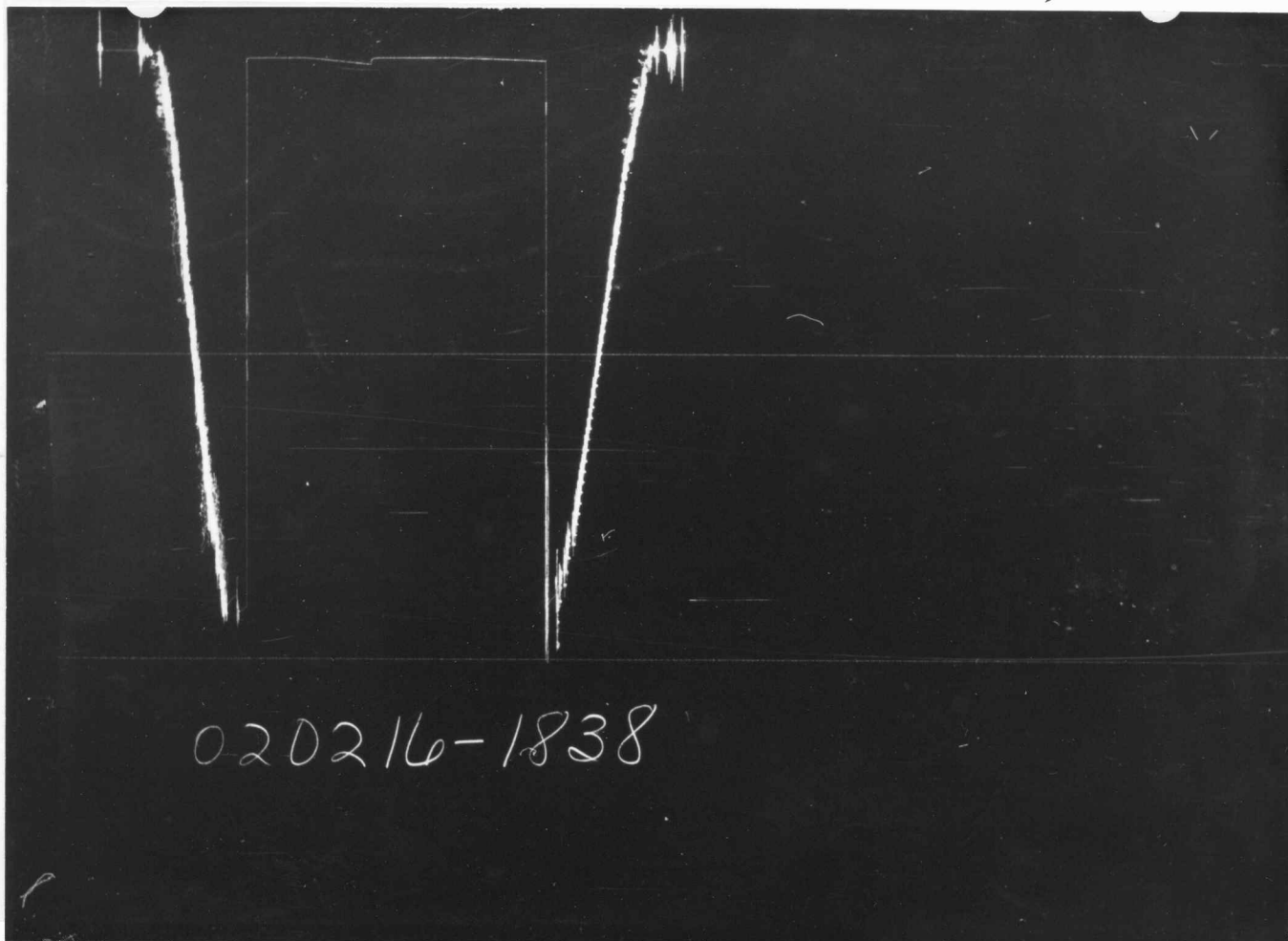
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	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4½"	3.826"	2450'	
Drill Collars	4½"	2.764"	930' Weight pipe	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	3346'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	3347'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly				
Distributor				
Packer Assembly				
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly	6 3/4"	1.53"	6'	3356'
Distributor				
Packer Assembly	6 3/4"	1.53"	6'	3361'
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	3"	12'	
Blanked-Off B.T. Running Case	5"	3"	4'	3375'
Total Depth				3379'

— PRESSURE —
↓



— TIME —→



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