FLUID SAMPLER DATA

Sampler Pressure _____ P.S.I.G. at Surface
Recovery: Cu. Ft. Gas _____
cc. Oil _____
cc. Water _____
cc. Mud _____
Tot. Liquid cc. _____
Gravity _____ ° API @ _____ °F.
Gas/Oil Ratio _____ cu. ft./bbl.

		RESISTIVITY		CHLORIDE CONTENT
Recovery Water	@ °F.			ppm
Recovery Mud	@ °F.			
Recovery Mud Filtrate	@ °F.			ppm
Mud Pit Sample	@ °F.			
Mud Pit Sample Filtrate	@ °F.			ppm
Mud Weight	9.3	vis 43		cp

Date 5-24-69 Ticket Number 067997-A
Kind of Job OPEN HOLE Halliburton District WINFIELD
Tester MR. DURHAM Witness MR. FENNELL
Drilling Contractor SAGE DRILLING COMPANY TC S

EQUIPMENT & HOLE DATA

Formation Tested Kansas City
Elevation 1380' K.B. Ft.
Net Productive Interval - Ft.
All Depths Measured From Kelly Bushings
Total Depth 3687' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length - I.D. -
Drill Pipe Length 3588' I.D. -
Packer Depth(s) 3660' Ft.
Depth Tester Valve 3644' Ft.

Cushion TYPE - AMOUNT - Ft. Depth Back Pres. Valve D.C.I.P. 3640' Surface Choke 1/4" Bottom Choke 3/4"

Recovered 85 Feet of Slightly oil cut mud
Recovered Feet of
Recovered Feet of
Recovered Feet of
Recovered Feet of

Mea. From Tester Valve

Remarks Opened tool for 15 minute first flow with a weak blow. Closed tool for 45 minute initial closed in pressure. Reopened tool for 91 minute second flow with a very weak blow throughout test. Closed tool for 79 minute second closed in pressure.

TEMPERATURE	Gauge No. 526	Gauge No. 231	Gauge No.	TIME
	Depth: 3648' Ft.	Depth: 3683' Ft.	Depth: Ft.	
	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened 11:05 P.M.
Est. 112 °F.	Blanked Off NO	Blanked Off YES	Blanked Off	Tool Closed 1:35 A.M.
Actual °F.	Pressures	Pressures	Pressures	

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		-	1835	CHART NOT SENT IN					
First Period	Flow Initial	18	14					—	—
	Flow Final	27	24					15	15
	Closed in	1489	1485					45	45
Second Period	Flow Initial	35	28					—	—
	Flow Final	53	50					90	91
	Closed in	1418	1421					80	79
Third Period	Flow Initial							—	—
	Flow Final								
	Closed in								
Final Hydrostatic		-	1831					—	—

Legal Location Sec. - Twp. - Rng. 18 - 31 - 5W
Lease Name SQUIKE "A" (Squires #) Well No. 1
Test No. 1
Field Area WILDCAT
Tested Interval 3660' - 3687'
County HARPER
State KANSAS
Lease Owner/Company Name DONALD C. SLAWSON

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FORMATION TEST DATA

LITTLE'S 83429 15M 4/69—33, 34-13

8

Gauge No.	526	Depth	3648'	Clock No.	????	12 hour	Ticket No.	067997-A

	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	.000	14	.000		24	.000	28	.000		50					
1	.0198	17	.0331		69	.1009	33	.0542		85					
2	.0396	19	.0662		327	.2018	36	.1084		164					
3	.0594	20	.0993		1027	.3026	41	.1624		422					
4	.0792	22	.1324		1279	.4035	44	.2167		953					
5	.0990	24	.1655		1371	.5044	47	.2709		1205					
6			.1986		1418	.6120	50*	.3251		1303					
7			.2317		1448			.3793		1354					
8			.2648		1469			.4334		1385					
9			.2980		1485			.4876		1406					
10								.5350		1421**					
11															
12															
13															
14															
15															

Gauge No.	231	Depth	3683'	Clock No.	????	12 hour

0			THIS B.T. NOT SENT IN												
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3															
4															
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10															
11															
12															
13															
14															
15															
Reading Interval	3		5			15		8							Minutes

REMARKS: *Last interval equal to16minutes. **Last interval equal to 7 minutes.

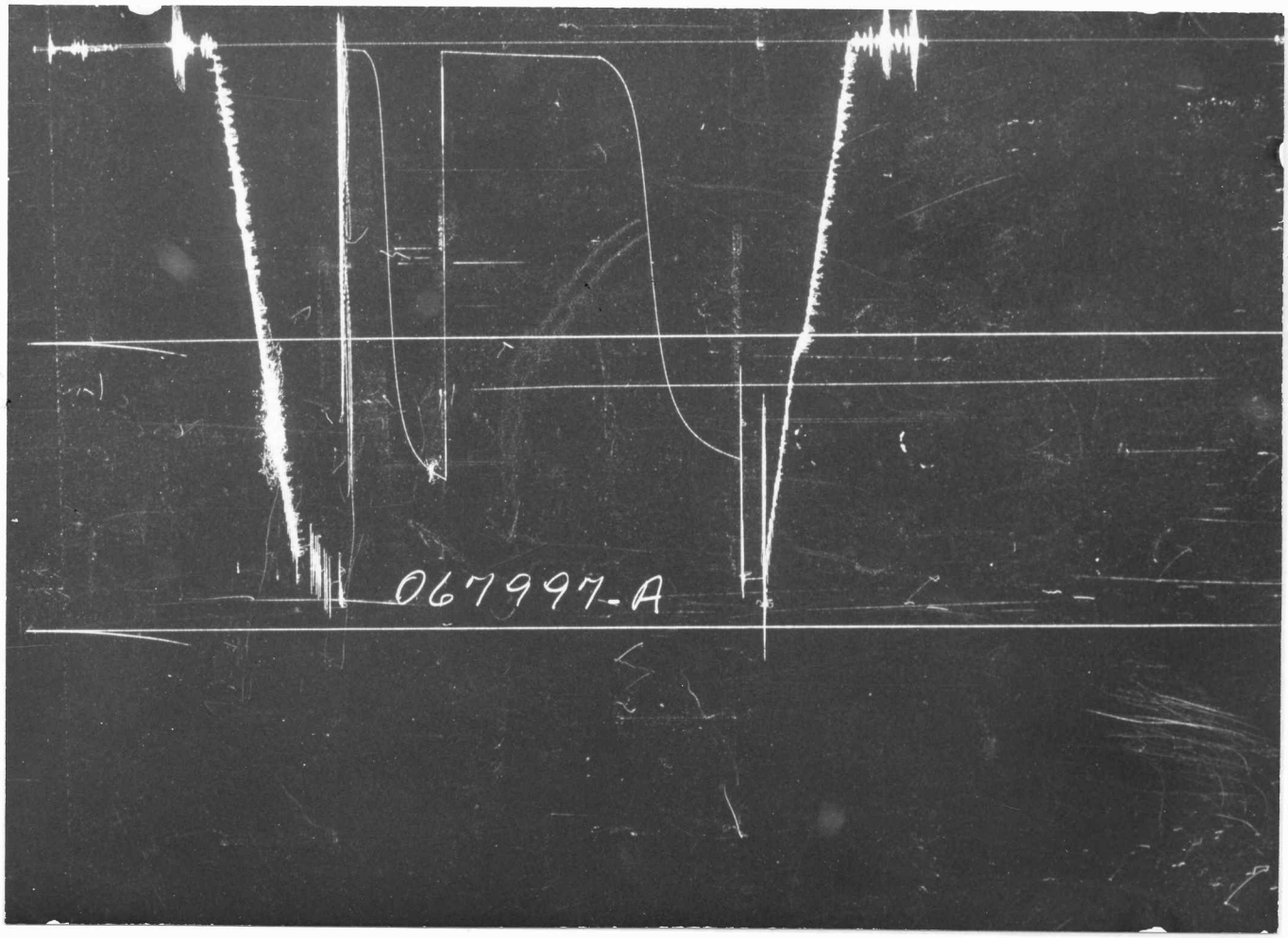
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SPECIAL PRESSURE DATA

LITTLE'S 83428 10M 4/69—13, 14-13



	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75"	2.75"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	-	3588'	
Drill Collars				
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	3/4"	4'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	4'	3644'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.25"	4'	3648'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	2.25"	4'	3660'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2.25"	23'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.25"	4'	3683'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				



PRESSURE

TIME

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

FLUID SAMPLER DATA

Sampler Pressure _____ P.S.I.G. at Surface
Recovery: Cu. Ft. Gas _____
cc. Oil _____
cc. Water _____
cc. Mud _____
Tot. Liquid cc. _____
Gravity _____ ° API @ _____ °F.
Gas/Oil Ratio _____ cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	_____ @ _____ °F.	_____ ppm
Recovery Mud	_____ @ _____ °F.	
Recovery Mud Filtrate	_____ @ _____ °F.	_____ ppm
Mud Pit Sample	_____ @ _____ °F.	
Mud Pit Sample Filtrate	_____ @ _____ °F.	_____ ppm
Mud Weight	9.4 vis 44 cp	

Date 5-26-69 Ticket Number 067997-B
Kind of Job OPEN HOLE Halliburton District WINFIELD
Tester MR. DURHAM Witness MR. FENNELL
Drilling Contractor SAGE DRILLING COMPANY IC S

EQUIPMENT & HOLE DATA

Formation Tested Kansas City
Elevation 1380' K.B. Ft.
Net Productive Interval 18' Ft.
All Depths Measured From Kelly Bushings
Total Depth 3714' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length - I.D. -
Drill Pipe Length 3618' I.D. 3.826"
Packer Depth(s) 3696' Ft.
Depth Tester Valve 3680' Ft.

Cushion TYPE - AMOUNT - Ft. Depth Back Pres. Valve D.C.I.P. 3676' Surface Choke 1/4" Bottom Choke 3/4"

Recovered 270 Feet of Gas in drill pipe
Recovered 90 Feet of Oil & gas cut mud
Recovered 60 Feet of Oil & gas cut muddy water
Recovered Feet of
Recovered Feet of

Meas. From Tester Valve

Remarks Opened tool for 14 minute first flow with blow building to good. Closed tool for 45 minute initial closed in pressure. Reopened tool for 61 minute second flow with blow building to strong in 50 minutes and stayed strong for last 10 minutes. Closed tool for 60 minute second closed in pressure.

TEMPERATURE	Gauge No. 526		Gauge No. 231		Gauge No.		TIME	
	Depth: 3684' Ft.		Depth: 3710' Ft.		Depth: Ft.			
	12 Hour Clock		12 Hour Clock		Hour Clock		Tool Opened	AXMX 1:25 P.M.
Est. 112 °F.	Blanked Off NO		Blanked Off YES		Blanked Off		Tool Closed	AXMX 3:25 P.M.
Actual °F.	Pressures		Pressures		Pressures		Reported Minutes	Computed Minutes
	Field	Office	Field	Office	Field	Office		
Initial Hydrostatic	-	1864						
First Period Flow Initial	18	17	THIS CHART				—	—
First Period Flow Final	27	31	NOT SENT IN				15	14
First Period Closed in	1507	1504					45	45
Second Period Flow Initial	35	41					—	—
Second Period Flow Final	71	77					60	61
Second Period Closed in	1471	1462					60	60
Third Period Flow Initial							—	—
Third Period Flow Final								
Third Period Closed in								
Final Hydrostatic	-	1859					—	—

Legal Location Sec. - Twp. - Rng. 18 - 31 - 5W
Lease Name SQUIKE "A" (Squires A)
Well No. 1
Test No. 2
Field Area SE/SW/NE WILDCAT
Tested Interval 3696'-3714'
County HARPER
State KANSAS
Lease Owner/Company Name DONALD C. SLAWSON

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FORMATION TEST DATA

LITTLE'S 83429 15M 4/69—33, 34-13

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Gauge No.	526	Depth	3684'	Clock No.	-	12 hour	Ticket No.	067997-B

	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	.000	17	.000		31	.000	41	.000		77					
1	.0204	20	.0336		107	.0679	46	.0409		262					
2	.0407	24	.0672		1022	.1357	53	.0818		1187					
3	.0611	27	.1008		1364	.2036	59	.1227		1333					
4	.0814	31	.1344		1423	.2715	65	.1636		1374					
5	.0950	31*	.1680		1452	.3393	71	.2045		1399					
6			.2016		1471	.4140	77 **	.2454		1418					
7			.2352		1485			.2863		1432					
8			.2688		1496			.3272		1445					
9			.3020		1504			.3681		1454					
10								.4090		1462					
11															
12															
13															
14															
15															

Gauge No.	231	Depth	3710'	Clock No.	-	12 hour

THIS CHART NOT SENT IN

0															
1															
2															
3															
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11															
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13															
14															
15															

Reading Interval	3	5	10	6		Minutes

REMARKS: *Last interval equal to 2 minutes **Last interval equal to 11 minutes

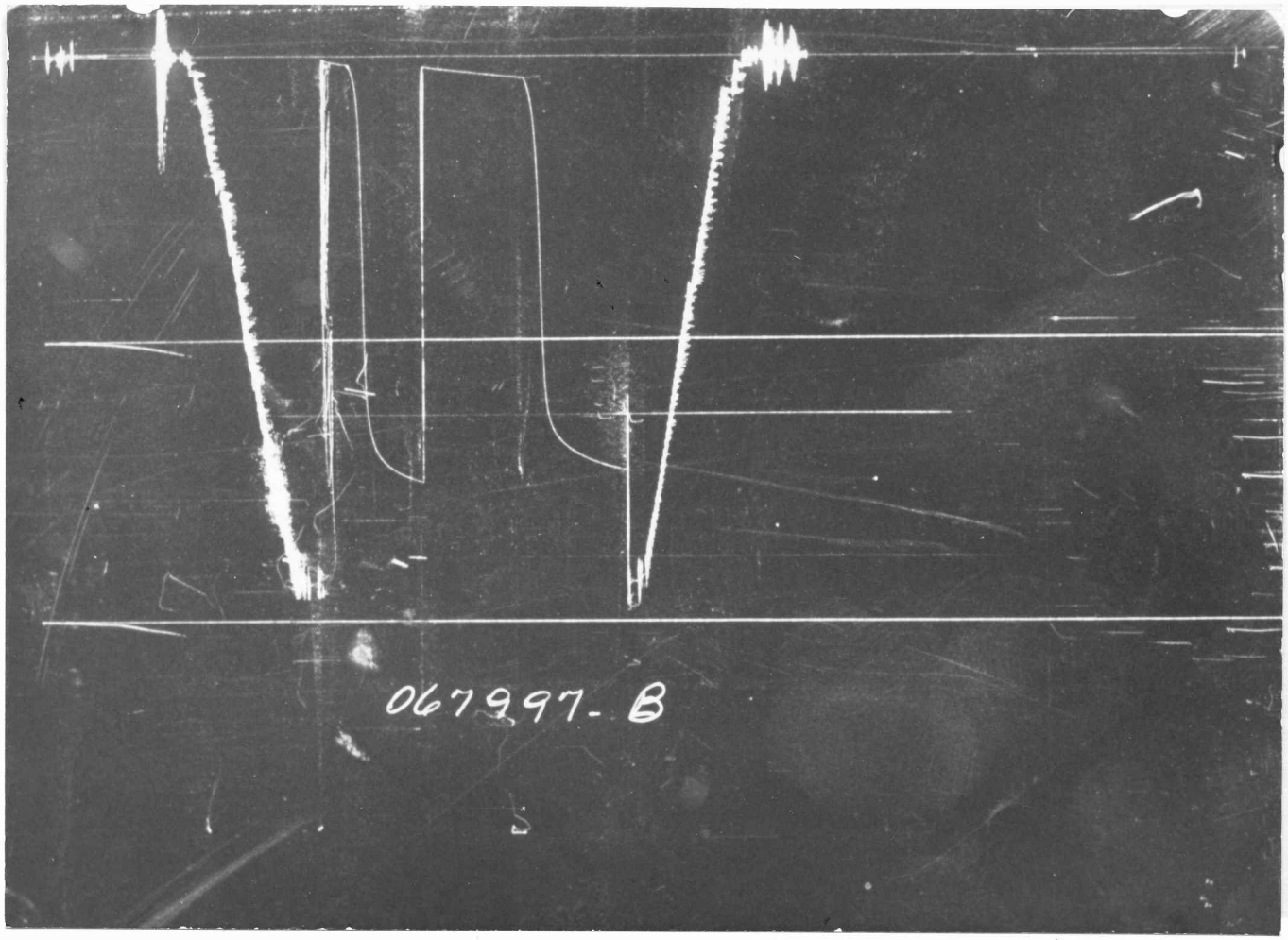
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SPECIAL PRESSURE DATA

LITTLE'S 83428 10M 4/69—13, 14-13



	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75"	2.75"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"		3618'	
Drill Collars				
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	3/4"	4'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	4'	3680'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.25"	4'	3684'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	2.25"	4'	3696'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2.25"	14'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.25"	4'	3710'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				



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

FLUID SAMPLER DATA

Sampler Pressure _____ P.S.I.G. at Surface
Recovery: Cu. Ft. Gas _____
cc. Oil _____
cc. Water _____
cc. Mud _____
Tot. Liquid cc. _____
Gravity _____ ° API @ _____ °F.
Gas/Oil Ratio _____ cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	____ @ ____ °F.	____ ppm
Recovery Mud	____ @ ____ °F.	
Recovery Mud Filtrate	____ @ ____ °F.	____ ppm
Mud Pit Sample	____ @ ____ °F.	
Mud Pit Sample Filtrate	____ @ ____ °F.	____ ppm
Mud Weight	9.4 vis 44	cp

Date 5-26-69 Ticket Number 067997 - C
Kind of Job OPEN HOLE Halliburton District WINFIELD
Tester DURHAM Witness FENNELL
Drilling Contractor SAGE DRILLING COMPANY NM S

EQUIPMENT & HOLE DATA

Formation Tested Kansas City
Elevation 1380' K.B. Ft.
Net Productive Interval 21' Ft.
All Depths Measured From Kelly Bushing
Total Depth 3750' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length NONE I.D. -
Drill Pipe Length 3685' I.D. -
Packer Depth(s) 3729' Ft.
Depth Tester Valve 3713' Ft.

Cushion TYPE NONE AMOUNT ____ Ft. Depth Back Pres. Valve DCIP VALVE 3709' Surface Choke 1/4" Bottom Choke 3/4"

Recovered 3100' Feet of gas in drill pipe
Recovered 117' Feet of very heavy oil and gas cut mud
Recovered 60' Feet of very heavy oil and gas cut thin mud
Recovered 60' Feet of heavy oil and gas cut watery mud
Recovered 60' Feet of slightly oil and gas cut muddy water
Recovered 120' Feet of gas cut muddy water

Mea. From Tester Valve

Remarks Tool opened for a 15 minute first flow period with a strong blow, which was strong throughout the period. Rotated tool for a 43 minute first closed in pressure. Tool reopened with a strong blow, which continued throughout the period. Took a 63 minute final closed in pressure.

TEMPERATURE	Gauge No. 526 Depth: 3717' Ft.	Gauge No. 231 Depth: 3746' Ft.	Gauge No. Depth: Ft.	TIME
	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened 3:50 A.M.
Est. C-100 °F.	Blanked Off NO	Blanked Off YES	Blanked Off	Tool Closed 4:05 A.M.
Actual °F.	Pressures	Pressures	Pressures	

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		-	1897	NO READINGS ARE					
First Period	Flow Initial	-	19	AVAILABLE.				____	____
	Flow Final	-	64	NO CHART REPRO-				15	15
	Closed in	-	1574	DUCTION. NO				45	43
Second Period	Flow Initial	-	81	B.T. WAS SENT IN.				____	____
	Flow Final	-	208					60	59
	Closed in	-	1568					60	63
Third Period	Flow Initial							____	____
	Flow Final								
	Closed in								
Final Hydrostatic		-	1874					____	____

Legal Location Sec. - Twp. - Rng. SE SW NE 18 - 31 - 5W
Lease Name SQUIRE "A" Well No. 1 Test No. 3
Field Area WILDCAT Tested Interval 3729' - 3750'
County HARPER State KANSAS
Lease Owner/Company Name DONALD C. SLAWSON

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FORMATION TEST DATA

LITTLE'S 63429 15M 4/69—33, 34-13

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Gauge No.	526	Depth	3717'	Clock No.	????	12 hour	Ticket No.	067997 - "C"

	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	.000	19	.000		64	.000	81	.000		208					
1	.0204	27	.0334		1390	.0680	97	.0404		1466					
2	.0408	37	.0668		1539	.1360	119	.0808		1534					
3	.0612	46	.1002		1556	.2040	143	.1212		1547					
4	.0816	56	.1336		1564	.2720	166	.1616		1554					
5	.102	64	.1670		1567	.3400	188	.2020		1557					
6			.2004		1570	.401	208 **	.2424		1560					
7			.2338		1572			.2828		1562					
8			.2672		1572			.3232		1563					
9			.287		1574*			.3636		1566					
10								.424		1568***					
11															
12															
13															
14															
15															

Gauge No.	231	Depth	3746'	Clock No.	????	hour	12

0	
1	
2	
3	NO CHART REPORDUCTION... NO B.T. WAS SENT IN.
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

Reading Interval	3	5	10	6		Minutes

REMARKS: * INTERVAL = 3 MINUTES. ** INTERVAL = 9 MINUTES. *** INTERVAL = 9 MINUTES.

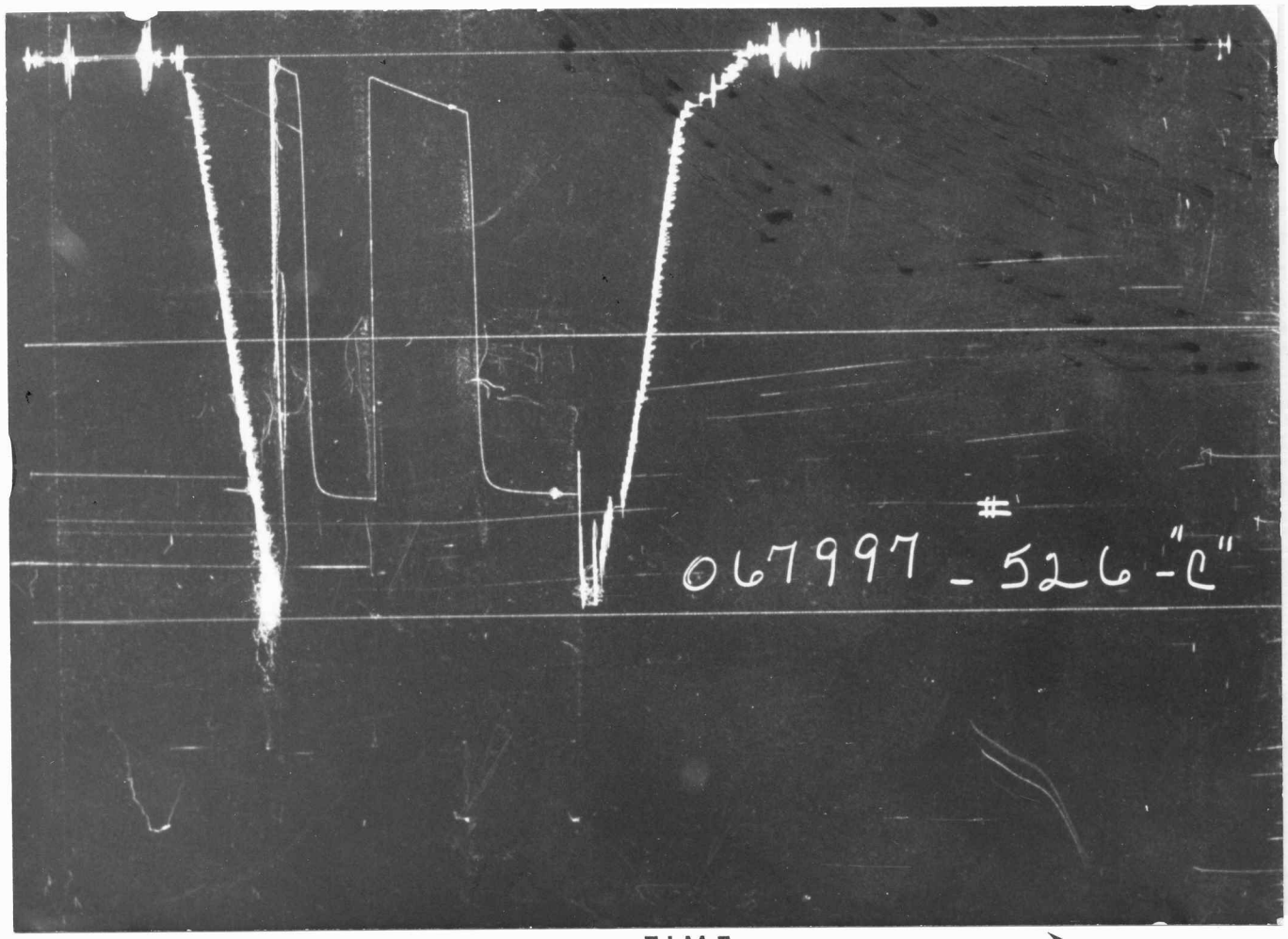
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SPECIAL PRESSURE DATA

LITTLE'S 83428 10M 4/69—13, 14-13



	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75	2.75	1'	
Water Cushion Valve				
Drill Pipe	4½"		3685	
Drill Collars				
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	3/4"	4'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	4'	3713'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.25	4'	3717
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	2.25	4'	3729'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2.25	17'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.25	4'	3746
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				



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