FLUID SAMPLE 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	9.5 vis	49 cp

Date 7-25-71 Ticket Number 503343
Kind of Job OPEN HOLE Halliburton District PRATT
Tester MR. KUHN Witness MR. POSEY
Drilling Contractor GARVEY DRILLING COMPANY DR

EQUIPMENT & HOLE DATA

Formation Tested Mississippi
Elevation 1851' KB Ft.
Net Productive Interval 13' Ft.
All Depths Measured From Kelly Bushing
Total Depth 5226' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 840' FW-221' I.D. 2.764"
Drill Pipe Length 4060' I.D. 3.826"
Packer Depth(s) 5171'-5175' Ft.
Depth Tester Valve 5150' Ft.

Cushion TYPE AMOUNT Ft. Depth Back Pres. Valve Surface Choke 1" Bottom Choke 3/4"

Recovered 20 Feet of drilling mud
Recovered Feet of
Recovered Feet of
Recovered Feet of
Recovered Feet of

Meas. From Tester Valve

Remarks Opened tool for 30 minute first flow with a weak blow. Closed tool for 60 minute first closed in pressure. Reopened tool for 30 minute with a weak blow, decreasing throughout test. Closed tool for 60 minute second closed in pressure.

TEMPERATURE	Gauge No. 1831 Depth: 5155 Ft.	Gauge No. 1830 Depth: 5222 Ft.	Gauge No. Depth: Ft.	TIME
	12 Hour Clock	12 Hour Clock	Hour Clock	Tool A.M.
Est. °F.	Blanked Off No	Blanked Off Yes	Blanked Off	Opened 8:55 ~~P.M.~~
5220' Actual 130 °F.	Pressures	Pressures	Pressures	Tool ~~A.M.~~ Closed 12:00 P.M.

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic			2711	2756	2743				
First Period	Flow Initial		37	30	59			—	—
	Flow Final		37	40	59			30	
	Closed in		77	90	95			60	
Second Period	Flow Initial		36	30	54			—	—
	Flow Final		36	30	54			30	
	Closed in		62	60	80			60	
Third Period	Flow Initial							—	—
	Flow Final								
	Closed in								
Final Hydrostatic			2711	2756	2726			—	—

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FORMATION TEST DATA

LITTLE'S

Legal Location Sec. - Twp. - Rng. C-SE-NW-34-34S-16W
Lease Name LUCAS
Well No. 1-34
Test No. 1
Tested Interval 5175'-5226'
Field Area WILDCAT
County COMANCHE
State KANSAS
Lease Owner/Company Name ZENITH DRILLING CORPORATION, INCORPORATED

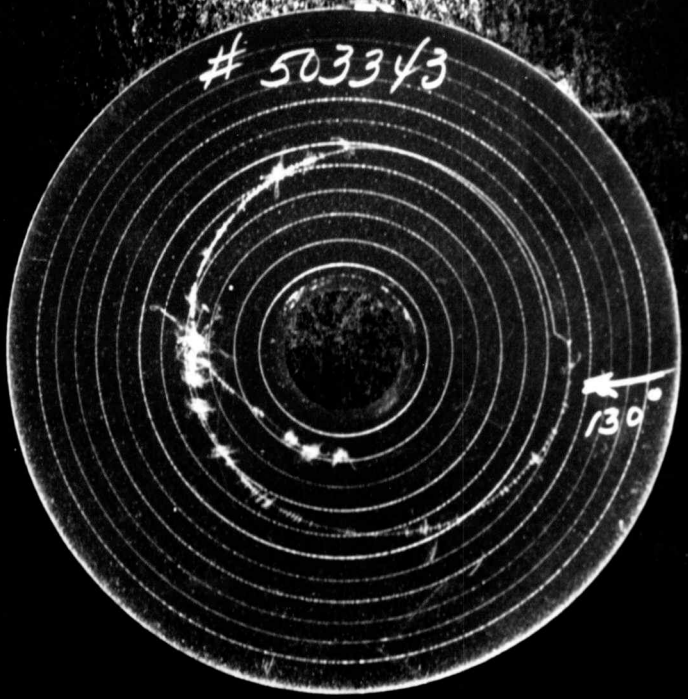
34-34S-16W

503343

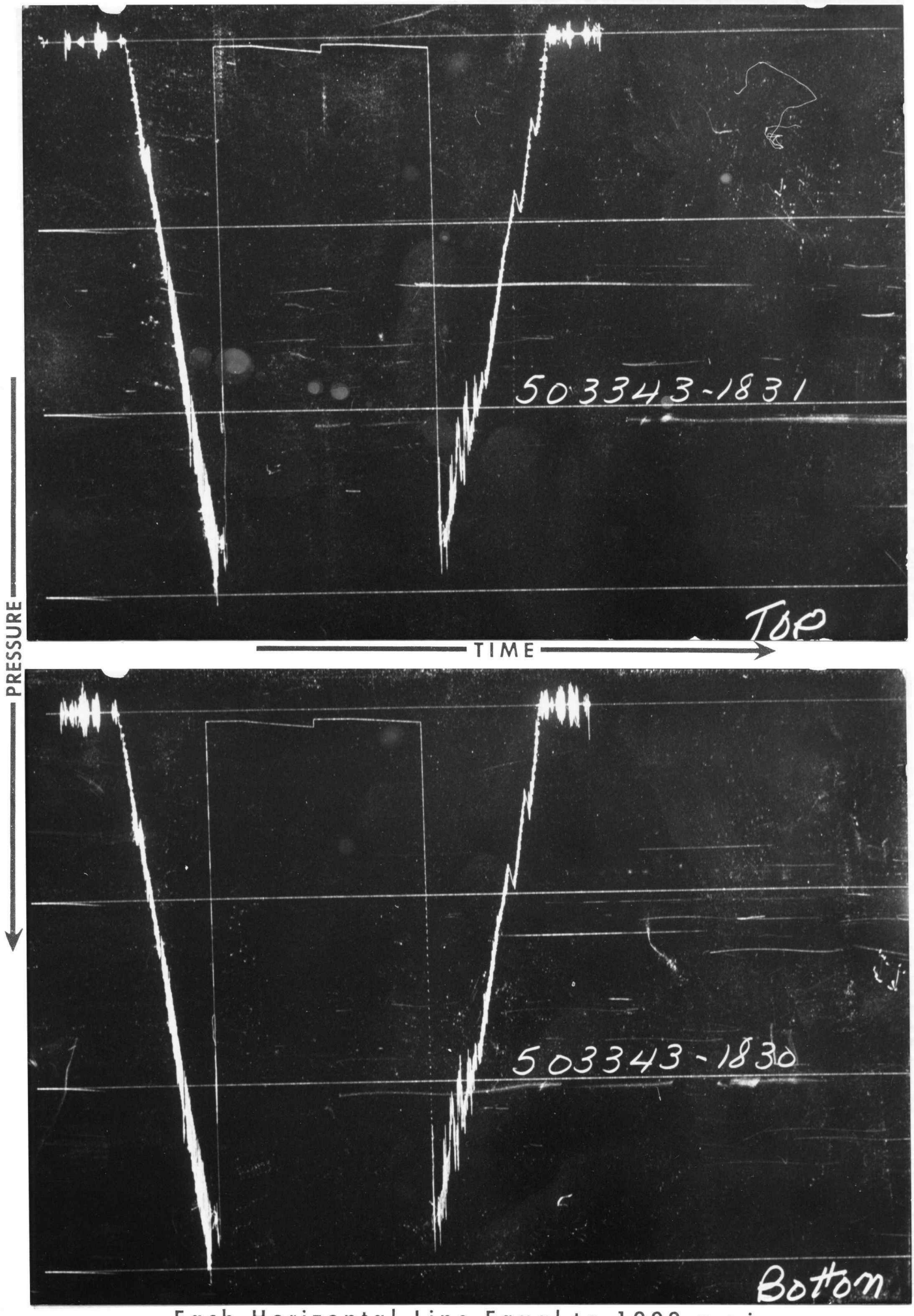


	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5 5/8"	2"	1½'	
Water Cushion Valve				4894'
Drill Pipe	4½"	3.826"	4060'	
Drill Collars		2¼"	221'	
	3½"	2.764"	840' FW	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	3/4"	6'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	5'	5150'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2¼"	4'	5155'
Hydraulic Jar	5"	2¼"	5'	
VR Safety Joint	5"	1½"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1½"	6'	5171'
Distributor				
Packer Assembly	6 3/4"	1½"	6'	5175'
Flush Joint Anchor	5"	2¼"		
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2½"	4'	5222'
				5226' TD
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				

TEMPERATURE
RECORDER
CHART



10° each circle



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

FLUID SAMPLE 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	9.8	vis 52		cp

Date 7-26-71 Ticket Number 503344
Kind of Job OPEN HOLE Halliburton District PRATT
Tester MR. THOMPSON Witness MR. POSEY
Drilling Contractor GARVEY DRILLING COMPANY IC S

EQUIPMENT & HOLE DATA

Formation Tested Mississippi
Elevation 1851' KB Ft.
Net Productive Interval 10' Ft.
All Depths Measured From Kelly Bushing
Total Depth 5258' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 840'WP-270' I.D. 2.764-2 1/4"
Drill Pipe Length 4098' I.D. 3.826"
Packer Depth(s) 5230' Ft.
Depth Tester Valve 5210' Ft.

Cushion TYPE - AMOUNT - Ft. Depth Back Pres. Valve - Surface Choke 1" Bottom Choke 3/4"

Recovered 120 Feet of Oil & gas cut mud
Recovered 1050 Feet of Water
Recovered Feet of
Recovered Feet of
Recovered Feet of

Mea. From Tester Valve

Remarks Opened tool for 30 minute first flow. Had a strong blow. Gas to surface in 8 minutes...too weak to measure. Closed tool for 60 minute initial closed in pressure. Reopened tool for 30 minute second flow with gas too weak to measure. Closed tool for 60 minute second closed in pressure.

TEMPERATURE	Gauge No. 1831 Depth: 5220' Ft.	Gauge No. 1830 Depth: 5254' Ft.	Gauge No. Depth: Ft.	TIME
	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened 6:40 A.M. P.M.
Est. °F.	Blanked Off NO	Blanked Off YES	Blanked Off	Tool Closed 9:40 A.M. P.M.
5252' @ Actual 133 °F.	Pressures	Pressures	Pressures	

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		2737	2770	2737	2783				
First Period	Flow Initial	120	118	120	128			____	____
	Flow Final	343	342	343	354			30	30
	Closed in	1763	1739	1763	1746			60	60
Second Period	Flow Initial	417	419	417	429			____	____
	Flow Final	528	526	528	535			30	30
	Closed in	1680	1667	1680	1674			60	60
Third Period	Flow Initial							____	____
	Flow Final								
	Closed in								
Final Hydrostatic		2718	2714	2718	2724			____	____

Legal Location Sec. - Twp. - Rng. 34 - 34 - 16
Lease Name LUCAS
Well No. 1-34
Test No. 2
Tested Interval 5230' - 5258'
Field Area WILDCAT
County COMANCHE
State KANSAS
Lease Owner/Company Name ZENITH DRILLING CORPORATION, INCORPORATED

34-34S-16W

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FORMATION TEST DATA

LITTLE'S

Gauge No.	1831	Depth	5220'	Clock No.	2476	12 hour	Ticket No.	503344

	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	118	.000		342	.000	419	.000		526					
1	.0406	172	.0406		1390	.0398	432	.0406		1354					
2	.0812	230	.0812		1540	.0796	464	.0812		1483					
3	.1218	288	.1218		1609	.1194	481	.1218		1543					
4	.1624	318	.1624		1651	.1592	504	.1624		1582					
5	.2030	342	.2030		1679	.1990	526	.2030		1607					
6			.2436		1697			.2436		1626					
7			.2842		1710			.2842		1640					
8			.3248		1721			.3248		1651					
9			.3654		1732			.3654		1659					
10			.4060		1739			.4060		1667					
11															
12															
13															
14															
15															

Gauge No.	1830	Depth	5254'	Clock No.	2486	12 hour						
0	.000	128	.000		354	.000	429	.000		535					
1	.0406	183	.0407		1397	.0394	444	.0406		1356					
2	.0812	241	.0812		1545	.0788	474	.0812		1489					
3	.1218	298	.1221		1617	.1182	492	.1218		1549					
4	.1624	328	.1628		1658	.1576	514	.1624		1589					
5	.2030	354	.2035		1687	.1970	535	.2030		1614					
6			.2442		1706			.2436		1632					
7			.2849		1719			.2842		1646					
8			.3256		1730			.3248		1657					
9			.3663		1739			.3654		1665					
10			.4070		1746			.4060		1674					
11															
12															
13															
14															
15															

Reading Interval	6	6	6	6			Minutes

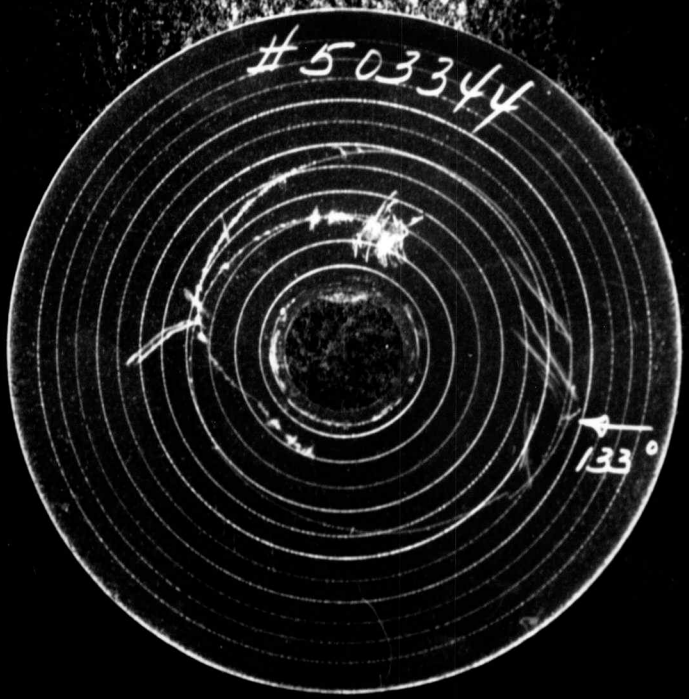
REMARKS:

503344

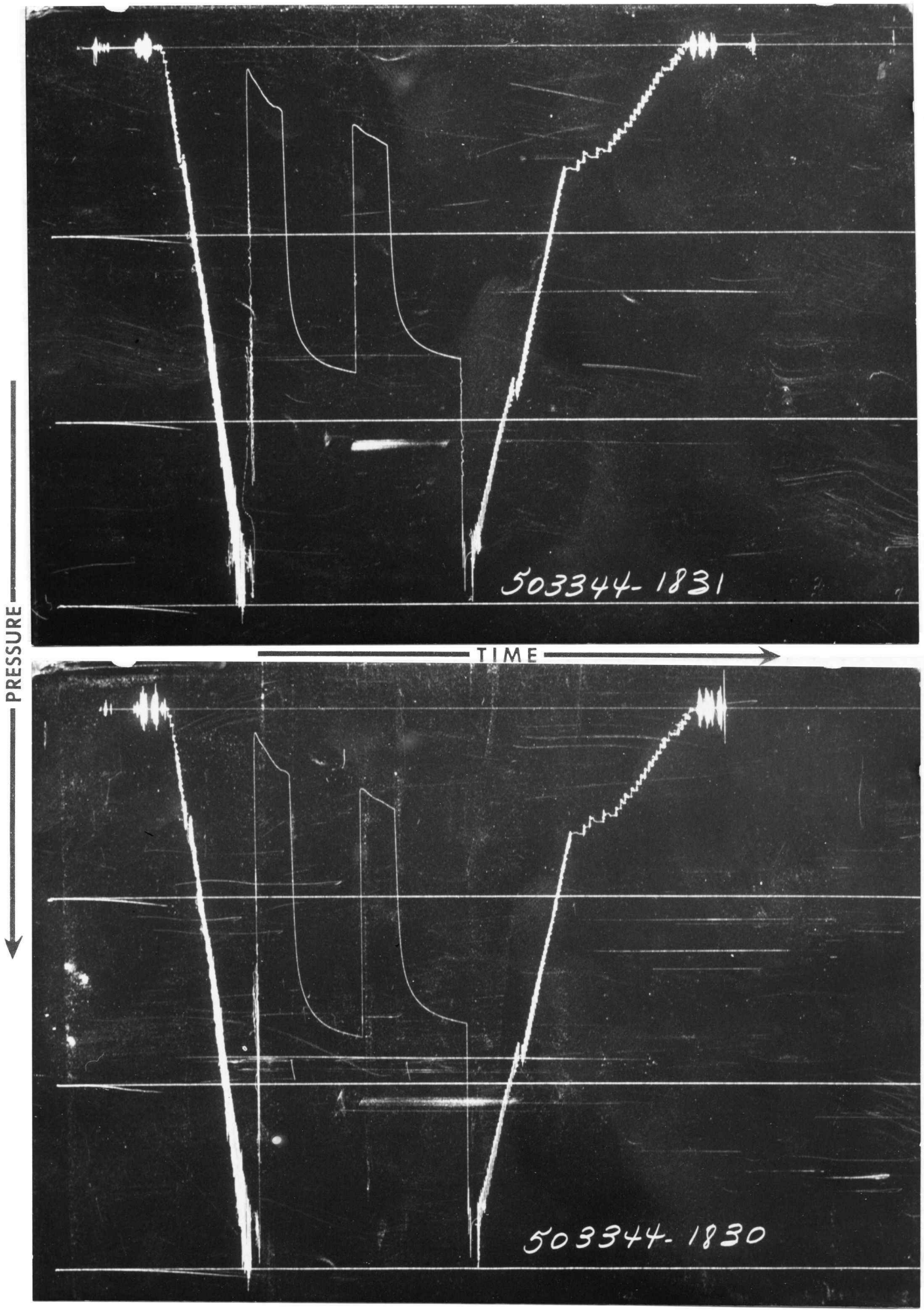


	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5 5/8"	2"	1 1/2'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	4098'	
Drill Collars	-	2 1/4"	270'	
	4 1/2"	2.764"	840' WEIGHT PIPE	
Handling Sub & Choke Assembly	5 3/4"	2 1/4"	2 1/2'	
Dual CIP Valve	5"	3/4"	6'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	5'	5210'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2 1/4"	4'	5220'
Hydraulic Jar	5"	2 1/2"	5'	
VR Safety Joint	5"	1 1/2"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1 1/2"	6'	5230'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2 1/4"	28'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2 1/2"	4'	5254'
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				

TEMPERATURE RECORDER CHART



10° each circle



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