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	10.3 vis 44 cp	

Date 6-4-71 Ticket Number 321288
Kind of Job OPEN HOLE Halliburton District HAYS
Tester MR. JOSLIN Witness MR. JOHNSON
Drilling Contractor GARVEY DRILLING COMPANY DR S

EQUIPMENT & HOLE DATA

Formation Tested Lower Kansas City
Elevation 2324' KB Ft.
Net Productive Interval - Ft.
All Depths Measured From Kelly Bushing
Total Depth 3630' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 1037' I.D. 2.76"
Drill Pipe Length 2515' I.D. 3.826"
Packer Depth(s) 3577'-3582' Ft.
Depth Tester Valve 3567' Ft.

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

Recovered 240 Feet of heavy oil and gas cut mud
Recovered 645 Feet of muddy gassy oil
Recovered 300 Feet of froggy oil with trace of water
Recovered 30 Feet of muddy salt water
Recovered Feet of

Mea. From Tester Valve

Remarks Opened tool for 28 minute first flow with a weak blow increasing to a strong blow in 5 minutes lasting throughout flow. Closed tool for 31 minute first closed in pressure. Reopened tool for 30 minute second flow with a strong blow throughout flow. Closed tool for 31 minute second closed in pressure.

TEMPERATURE	Gauge No. 1891 Depth: 3583 Ft.	Gauge No. 1890 Depth: 3626 Ft.	Gauge No. Depth: Ft.	TIME
	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened A.M. 1:15 P.M.
Est. °F.	Blanked Off No	Blanked Off Yes	Blanked Off	
Actual 3625' 104 °F.	Pressures	Pressures	Pressures	Tool Closed A.M. 3:15 P.M.

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic			1951	1989	1994				
First Period	Flow Initial		45	80	49			—	—
	Flow Final		360	375	379			30	28
	Closed in		830	857	853			30	31
Second Period	Flow Initial		389	393	408			—	—
	Flow Final		476	491	494			30	30
	Closed in		846	857	868			30	31
Third Period	Flow Initial							—	—
	Flow Final								
	Closed in								
Final Hydrostatic			1936	1989	1973			—	—

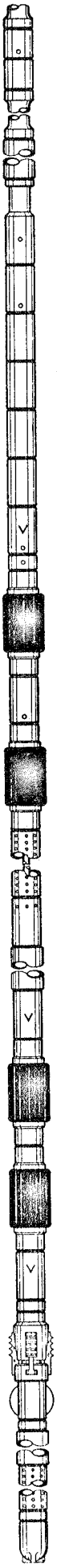
Legal Location Sec. - Twp. - Rng. 27-10-22
Lease Name FAULKNER
Well No. 1
Test No. 1
Tested Interval 3582'-3630'
Field Area FAULKNER
County GRAHAM
State KANSAS
Lease Owner/Company Name PETROLEUM, INCORPORATED

Gauge No. 1891			Depth 3583'			Clock No. 3227			12 hour		Ticket No. 321288		
	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	45	.000		360	.000	389	.000		476					
1	.0261	142	.0206		683	.0318	417	.0197		695					
2	.0522	195	.0412		723	.0636	430	.0394		719					
3	.0783	232	.0618		740	.0954	435	.0591		733					
4	.1044	268	.0824		751	.1272	448	.0788		749					
5	.1305	301	.1030		762	.1590	457	.0985		767					
6	.1566	330	.1236		771	.1910	476	.1182		784					
7	.1830	360	.1442		786			.1379		798					
8			.1648		800			.1576		813					
9			.1854		813			.1773		828					
10			.2130		830*			.2040		846**					
11															
12															
13															
14															
15															

Gauge No. 1890			Depth 3626'			Clock No. 2414			12 hour					
0	.000	49	.000		379	.000	408	.000		494					
1	.0279	146	.0209		702	.0332	436	.0208		715					
2	.0558	204	.0418		742	.0664	448	.0416		741					
3	.0837	243	.0627		761	.0996	454	.0624		755					
4	.1116	281	.0836		771	.1328	467	.0832		772					
5	.1395	316	.1045		781	.1660	476	.1040		790					
6	.1674	348	.1254		792	.1990	494	.1248		807					
7	.1950	379	.1463		806			.1456		823					
8			.1672		821			.1664		838					
9			.1881		834			.1872		851					
10			.2160		853*			.2150		868**					
11															
12															
13															
14															
15															
Reading Interval	4		3			5		3							Minutes

REMARKS: * Last interval equal to 4 minutes **-4 minutes

321288

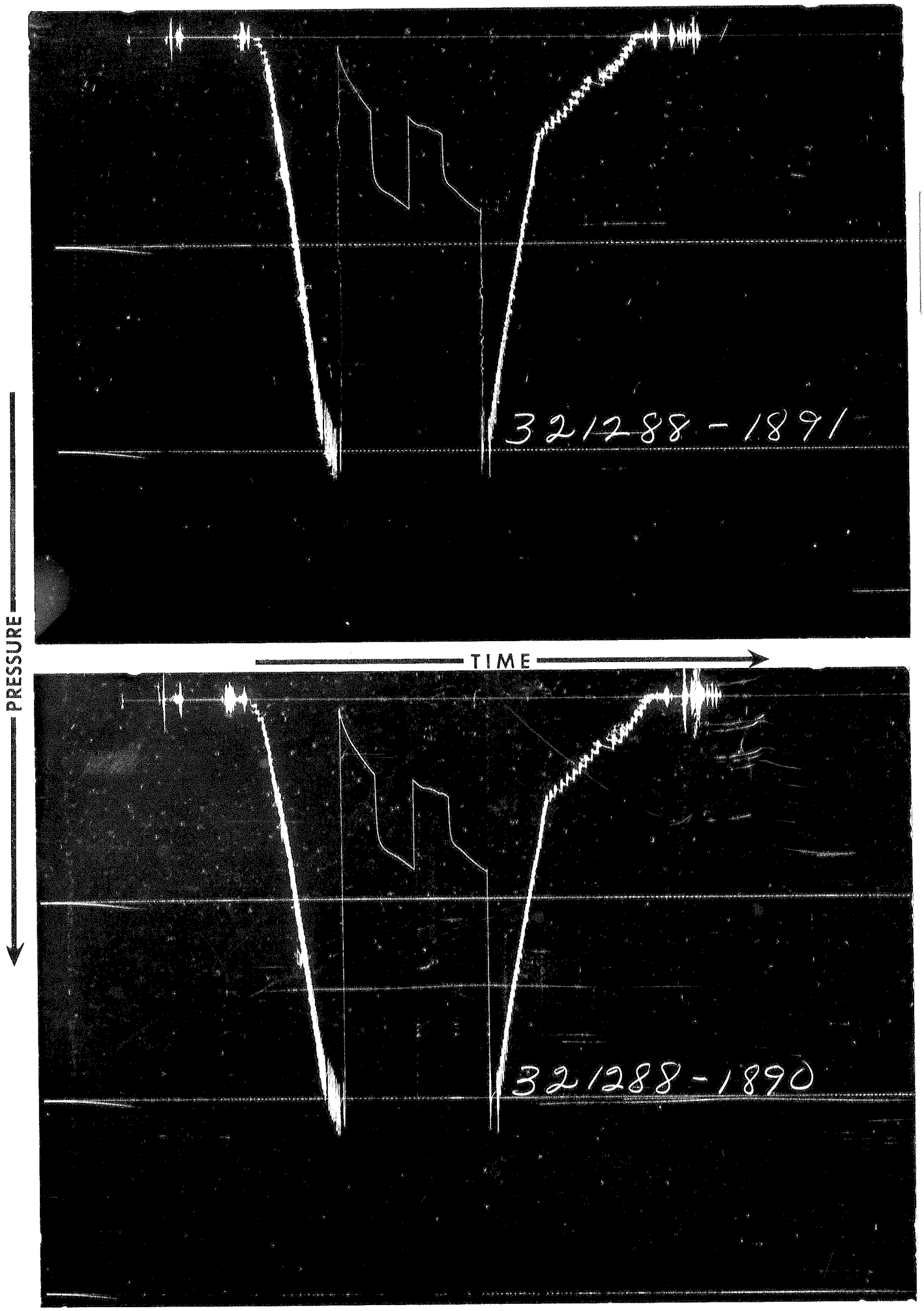


	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5 3/4"	2.50"	1'	
Water Cushion Valve				
Drill Pipe	4½"	3.826"	2515'	
Drill Collars		2.76"	1037'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.75"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.87"	5'	3567'
Multiple CIP Sampler				
Extension Joint				
AP Running Case				
Hydraulic Jar				
VR Safety Joint	5"	1.0"	2½'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	4'	3577'
Distributor				
Packer Assembly	6 3/4"	1.53"	4'	3582'
Flush Joint Anchor				
Pressure Equalizing Tube				
~~Blanked-Off B.T.~~ Running Case AP	5"	3.06"	4'	3583'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	2.76"	39'	
Blanked-Off B.T. Running Case w/temp.	5"		5'	3626'

EQUIPMENT DET

TEMPERATURE
RECORDER
CHART

10° each circle



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	10.2 vis 43	cp

Date 6-5-71 Ticket Number 321289
Kind of Job OPEN HOLE Halliburton District HAYS
Tester JOSLIN Witness JOHNSON
Drilling Contractor GARVEY DRILLING COMPANY NM S

EQUIPMENT & HOLE DATA

Formation Tested Lower Kansas City
Elevation 2324' K.B. Ft.
Net Productive Interval - Ft.
All Depths Measured From Kelly Bushing
Total Depth 3648' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 4½" XHWP 1037' I.D. 2.76"
Drill Pipe Length 2578' I.D. 3.826"
Packer Depth(s) 3632' - 3637' Ft.
Depth Tester Valve 3618' Ft.

Cushion TYPE NONE AMOUNT _____ Ft. Depth Back Pres. Valve NONE Surface Choke ¼" Bottom Choke 3/4"

Recovered 110' Feet of muddy salt water
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____

Mea. From Tester Valve

Remarks Tool opened for a 31 minute first flow with a weak steady blow- which continued throughout the period. Rotated tool for a 28 minute first closed in pressure. Tool reopened with a weak steady blow, which continued throughout the period. Took a 61 minute second closed in pressure. Off bottom @ 11:55.

TEMPERATURE	Gauge No. 1891 Depth: 3623' Ft.	Gauge No. 1890 Depth: 3644' Ft.	Gauge No. Depth: Ft.	TIME
	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened 9:25 A.M.
Est. °F.	Blanked Off NO	Blanked Off YES	Blanked Off	
3643' @ Actual 102 °F.	Pressures	Pressures	Pressures	Tool Closed 11:55 A.M.

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		-	1965	2007	2008				
First Period	Flow Initial	-	21	36	32			____	____
	Flow Final	-	44	54	51			30	31
	Closed in	-	804	812	813			30	28
Second Period	Flow Initial	-	48	54	58			____	____
	Flow Final	-	62	71	70			30	30
	Closed in	-	824	830	837			60	61
Third Period	Flow Initial							____	____
	Flow Final								
	Closed in								
Final Hydrostatic		-	1965	1989	2008			____	____

Legal Location Sec. - Twp. - Rng. 27 - 10 - 22
Lease Name FAULKNER
Well No. 2
Test No. 2
Tested Interval 3637' - 3648'
Field Area FAULKNER
County GRAHAM
State KANSAS
Lease Owner/Company Name PETROLEUM, INCORPORATED

PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 83429 15M 4/69—33, 34-13

Gauge No.	1891		Depth	3623'	Clock No.	3227	12 hour	Ticket No.	321289	

	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	21	.000		44	.000	48	.000		62					
1	.0335	23	.0211		639	.0338	49	.0410		673					
2	.0670	28	.0422		699	.0676	50	.0820		726					
3	.1005	31	.0633		726	.1014	54	.1230		753					
4	.1340	35	.0844		746	.1352	56	.1640		773					
5	.1675	38	.1055		762	.1690	59	.2050		787					
6	.208	44*	.1266		774	.203	62	.2460		797					
7			.1477		783			.2870		806					
8			.1688		791			.3280		813					
9			.1899		799			.3690		818					
10			.197		804**			.417		824***					
11															
12															
13															
14															
15															

Gauge No.	1890		Depth	3644'	Clock No.	2414	hour	12		
0	.000	32	.000	51	.000	58	.000	70		
1	.035	33	.0214	618	.035	57	.0424	675		
2	.070	37	.0428	706	.070	60	.0848	736		
3	.105	40	.0642	735	.105	63	.1272	764		
4	.140	44	.0856	754	.140	65	.1696	784		
5	.175	47	.1070	771	.175	67	.2120	798		
6	.217	51*	.1284	784	.210	70	.2544	810		
7			.1498	795			.2968	818		
8			.1712	803			.3392	825		
9			.1926	810			.3816	830		
10			.200	813**			.431	837***		
11										
12										
13										
14										
15										
Reading Interval	5		3		5		6			Minutes

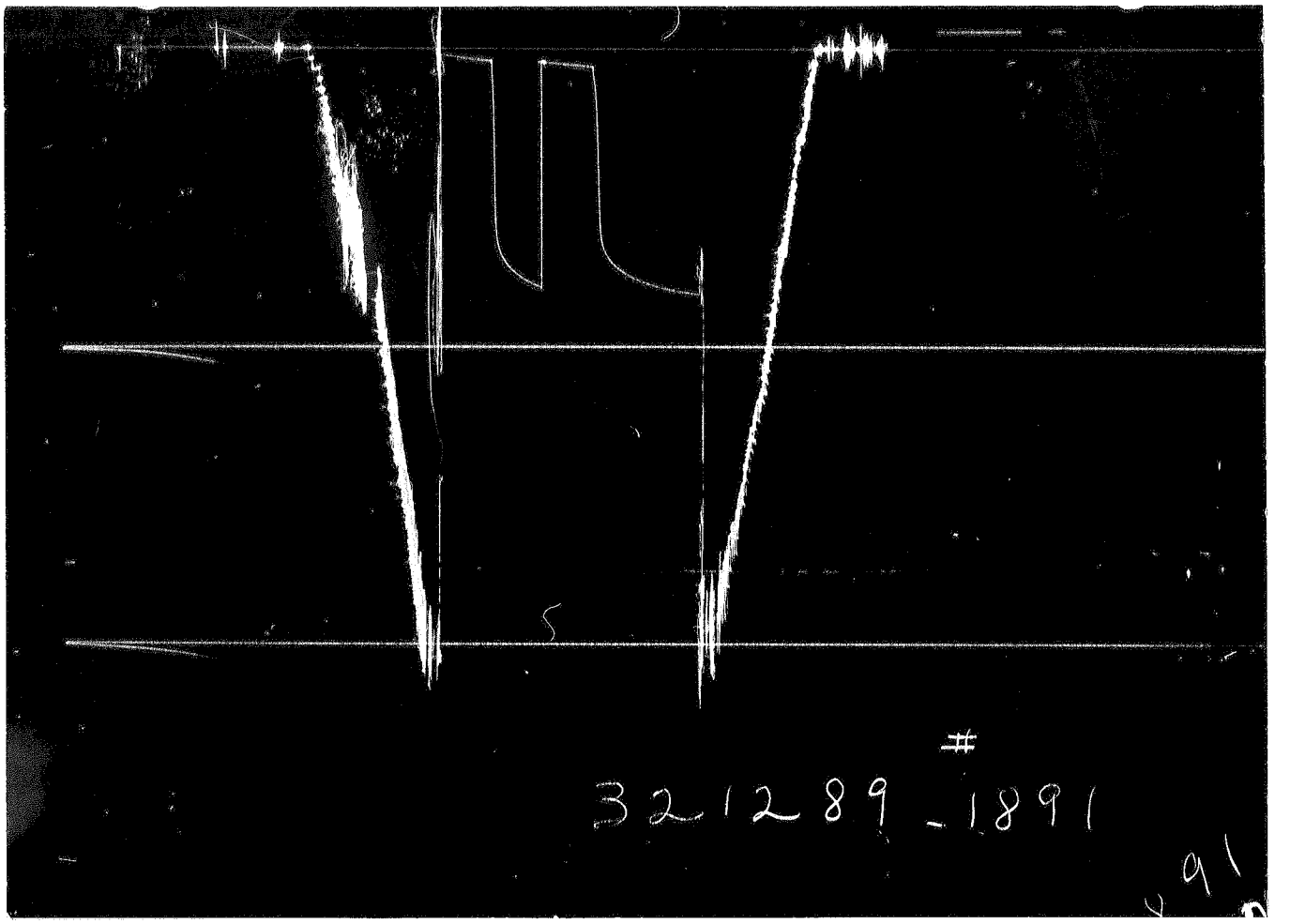
REMARKS: * INTERVAL= 6 MINUTES. ** INTERVAL = 1 MINUTE. *** INTERVAL = 7 MINUTES.

321289

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5 3/4"	2.50"	1'	
Water Cushion Valve				
Drill Pipe	4½"	3.826"	2578'	
~~Drill Collars~~ 4½" XHWP	-	2.76"	1037'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.75"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.87"	5'	3618'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	3623'
Hydraulic Jar				
VR Safety Joint	5"	1.0"	2½'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	4'	3632'
Distributor				
Packer Assembly	6 3/4"	1.53"	4'	3637'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	2.76"	6'	
Blanked-Off B.T. Running Case w/ temp.	5"	-	5'	3644'

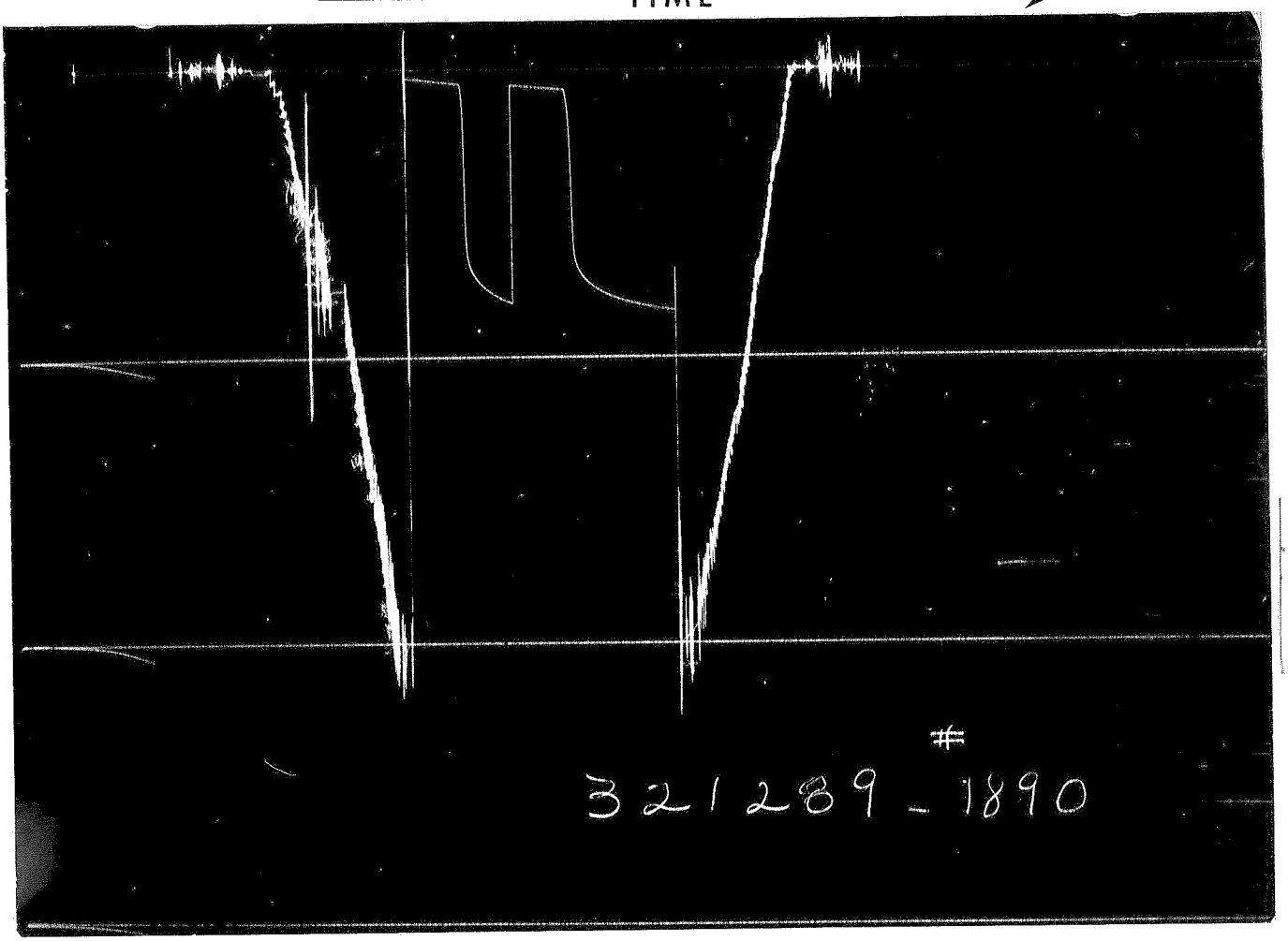
TEMPERATURE
RECORDER
CHART

10° each circle



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	9.9	vis 41	cp

Date 6-6-71 Ticket Number 321290
Kind of Job OPEN HOLE Halliburton District HAYS
Tester H. JOSLIN Witness K. JOHNSON
Drilling Contractor GARVEY DRILLING COMPANY SM S

EQUIPMENT & HOLE DATA

Formation Tested Lower Kansas City
Elevation 2324' KB Ft.
Net Productive Interval - Ft.
All Depths Measured From Kelly bushing
Total Depth 3696' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 1037' WP I.D. 2.76"
Drill Pipe Length 2594' I.D. 3.826"
Packer Depth(s) 3649-3653' Ft.
Depth Tester Valve 3639' Ft.

Cushion TYPE None AMOUNT Ft. Depth Back Pres. Valve Surface Choke 1/4" Bottom Choke 3/4"

Recovered 740 Feet of muddy salt water with spots of oil
Recovered Feet of
Recovered Feet of
Recovered Feet of
Recovered Feet of

Mea. From Tester Valve

Remarks Tool opened for 29 minute first flow with weak blow to strong in 7 minutes, lasting throughout. Closed for 31 minute first closed in pressure. Tool reopened for 31 minute second flow with strong blow throughout. Closed tool for 29 minute second closed in pressure.

TEMPERATURE	Gauge No. 1891 Depth: 3654 Ft.	Gauge No. 1890 Depth: 3692 Ft.	Gauge No. Depth: Ft.	TIME
	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened 12:30 A.M. P.M.
Est. °F.	Blanked Off no	Blanked Off -	Blanked Off	Tool Closed 2:30 A.M. P.M.
3691' Actual 107°F.	Pressures	Pressures	Pressures	

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		-	1972	2025	2013				
First Period	Flow Initial	-	41	45	57			———	———
	Flow Final	-	217	223	235			30	29
	Closed in	-	711	732	733			30	31
Second Period	Flow Initial	-	230	232	249			———	———
	Flow Final	-	353	375	374			30	31
	Closed in	-	702	714	725			30	29
Third Period	Flow Initial							———	———
	Flow Final								
	Closed in								
Final Hydrostatic		-	1957	2007	1995			———	———

Legal Location Sec. - Twp. - Rng. 27 10 24
Lease Name FAULKNER
Well No. 2
Test No. 3
Field Area FAULKNER
Tested Interval 3653-3696'
County GRAHAM
State KANSAS
Lease Owner/Company Name PETROLEUM, INCORPORATED

PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 83429 15M 4/69—33, 34-13

Gauge No.	1891		Depth	3654'		Clock No.	3227		12 hour	Ticket No.	321290			
	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	41	.000		217	.000	230	.000		353					
1	.0314	82	.0204		615	.0331	251	.0199		631					
2	.0628	115	.0408		651	.0662	275	.0398		657					
3	.0942	142	.0612		670	.0993	295	.0597		670					
4	.1256	172	.0816		682	.1324	316	.0796		680					
5	.1570	198	.1020		689	.1655	336	.0995		687					
6	.1820*	217	.1224		695	.2050**	353	.1194		691					
7			.1428		701			.1393		695					
8			.1632		704			.1592		698					
9			.1836		707			.1791		701					
10			.2110*		711			.1920***		702					
11															
12															
13															
14															
15															

Gauge No.	1890		Depth	3692'		Clock No.	2414	12 hour						
0	.000	57	.000		235	.000	249	.000		374					
1	.0334	96	.0206		637	.0345	271	.0204		654					
2	.0668	130	.0412		672	.0690	293	.0408		679					
3	.1002	161	.0618		691	.1035	314	.0612		693					
4	.1336	188	.0824		704	.1380	335	.0816		702					
5	.1670	215	.1030		712	.1725	353	.1020		707					
6	.1940*	235	.1236		718	.2140**	374	.1224		713					
7			.1442		723			.1428		717					
8			.1648		727			.1632		721					
9			.1854		730			.1836		723					
10			.2130*		733			.1970***		725					
11															
12															
13															
14															
15															
Reading Interval	5		3			5		3							Minutes

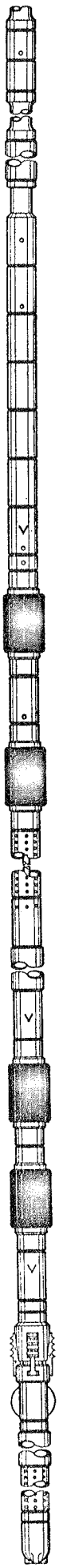
REMARKS: *Last interval is equal to 4 minutes. **Last = 6 minutes. ***Last = 2 minutes.

PRINTED IN U.S.A.

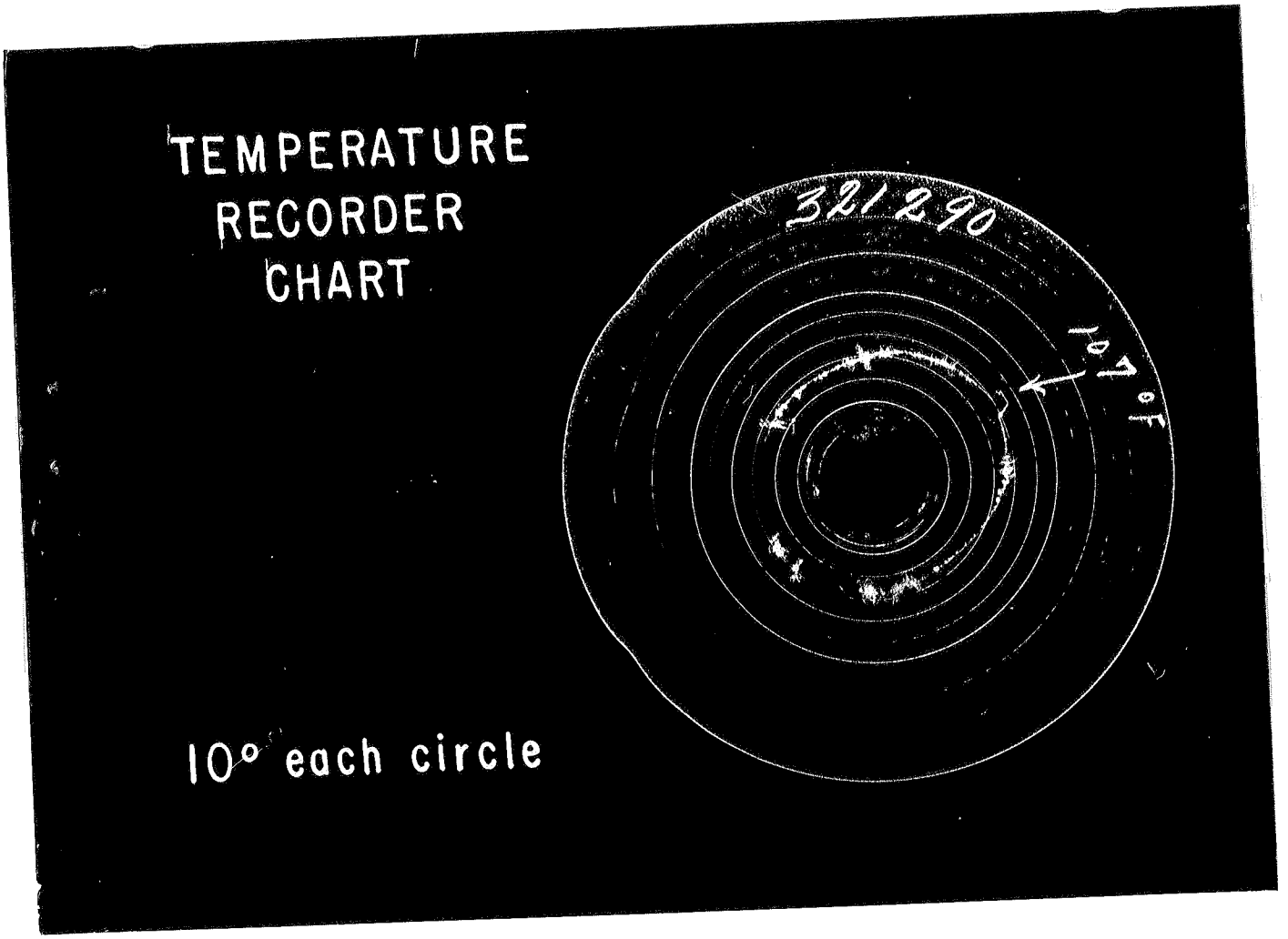
SPECIAL PRESSURE DATA

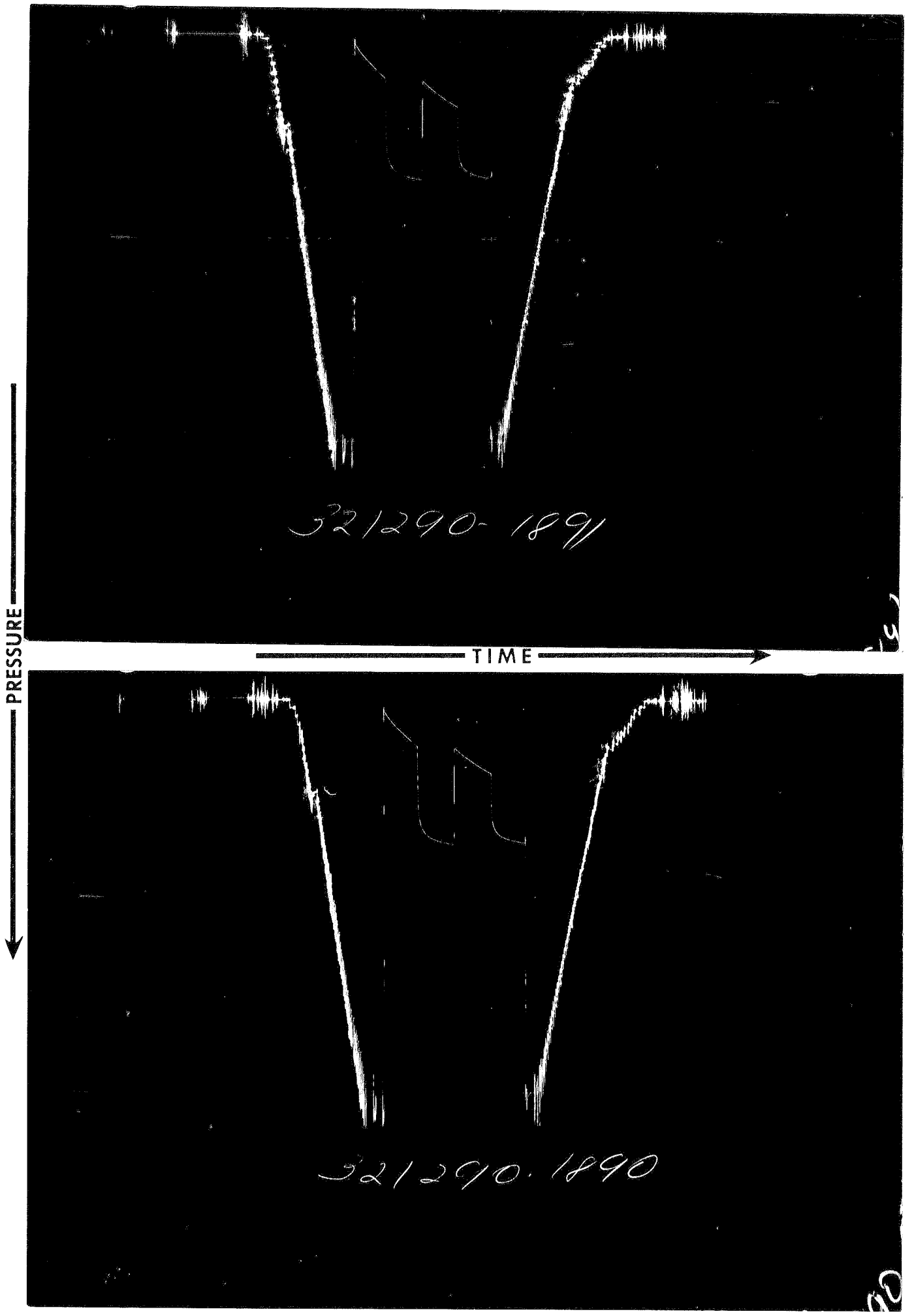
LITTLE'S

321290



	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5 3/4"	2.50"	1'	
Water Cushion Valve				
Drill Pipe	4½" XH WP	2.76"	1037'	
Drill Collars Pipe	4½"	3.826"	2594'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	3639'
Multiple CIP Sampler				
Extension Joint				
AP Running Case				
Hydraulic Jar				
VR Safety Joint	5"	1.0"	2½'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	4'	3649'
Distributor				
Packer Assembly	6 3/4"	1.53"	4'	3653'
Flush Joint Anchor				
Pressure Equalizing Tube				
AP Blanked-Off B.T. Running Case	5"	3.06"	4'	3654'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	2.76"	34'	
Blanked-Off B.T. Running Case W/temp	5"	-	5'	3692'


TEMPERATURE
RECORDER
CHART
321290
10° each circle



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	9.9	vis 53 cp

Date 6-6-71 Ticket Number 321291
Kind of Job OPEN HOLE Halliburton District HAYS
Tester H. JOSLIN Witness K. JOHNSON
Drilling Contractor GARVEY DRILLING COMPANY SM S

EQUIPMENT & HOLE DATA

Formation Tested Lower Kansas City
Elevation 2324' Kelly bushing Ft.
Net Productive Interval - Ft.
All Depths Measured From Kelly bushing
Total Depth 3748' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 1037' I.D. 2.764" 4½" WP
Drill Pipe Length 2635' I.D. 3.826"
Packer Depth(s) 3690-3695' Ft.
Depth Tester Valve 3680' Ft.

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

Recovered 280 Feet of oil and gas cut mud
Recovered _____ Feet of
Recovered _____ Feet of
Recovered _____ Feet of
Recovered _____ Feet of

Meas. From Tester Valve

Remarks Tool opened for 30 minute first flow with a weak blow to fair in 15 minutes and lasting throughout. Closed tool for 30 minute first closed in pressure. Tool reopened with fair blow throughout 30 minute second flow. Closed tool for 60 minute second closed in pressure.

TEMPERATURE	Gauge No. 1890 Depth: 3696 Ft.	Gauge No. 1891 Depth: 3744 Ft.	Gauge No. Depth: Ft.	TIME
	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened A.M. 4:20 P.M.
Est. 107 °F.	Blanked Off yes	Blanked Off yes	Blanked Off	
Actual 105 °F.	Pressures	Pressures	Pressures	Tool Closed A.M. 6:50 P.M.

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		2043	2048	-	2055				
First Period	Flow Initial	36	29	-	60			———	———
	Flow Final	98	99	-	123			30	30
	Closed in	1125	1117	-	1135			30	30
Second Period	Flow Initial	107	116	-	141			———	———
	Flow Final	161	155	-	176			30	30
	Closed in	1152	1153	-	1168			60	60
Third Period	Flow Initial							———	———
	Flow Final								
	Closed in								
Final Hydrostatic		2025	2016	-	2019			———	———

Legal Location Sec. - Twp. - Rng. 27 10 22
Lease Name FAULKNER
Well No. 2
Test No. 4
Tested Interval 3695 - 3748'
Field Area FAULKNER
County GRAHAM
State KANSAS
Lease Owner/Company Name PETROLEUM INCORPORATED

PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 83429 15M 4/69—33, 34-13

5

Gauge No.	1890	Depth	3696	Clock No.	2414 12	12 hour	Ticket No.	321291

	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	29	.000		99	.000	116	.000		155					
1	.0347	47	.0212		172	.0353	121	.0409		386					
2	.0694	61	.0424		332	.0706	130	.0818		789					
3	.1041	71	.0636		649	.1059	138	.1227		951					
4	.1388	81	.0848		883	.1412	145	.1636		1016					
5	.1735	90	.1060		972	.1765	151	.2045		1056					
6	.2080	99	.1272		1022	.2120	155	.2454		1087					
7			.1484		1053			.2863		1108					
8			.1696		1079			.3272		1127					
9			.1908		1099			.3681		1141					
10			.2120		1117			.4090		1153					
11															
12															
13															
14															
15															

Gauge No.	1891	Depth	3744'	Clock No.	3227	12 hour

0	.000	60	.000		123	.000	141	.000		176					
1	.033	76	.0206		192	.0352	144	.0398		399					
2	.066	88	.0412		339	.0704	153	.0796		812					
3	.099	98	.0618		653	.1056	160	.1194		974					
4	.132	108	.0824		890	.1408	168	.1592		1037					
5	.165	115	.1030		986	.1760	174	.1990		1074					
6	.198	123	.1236		1037	.2110	176	.2388		1104					
7			.1442		1071			.2786		1125					
8			.1648		1096			.3184		1143					
9			.1854		1117			.3582		1157					
10			.2060		1135			.3980		1168					
11															
12															
13															
14															
15															

Reading Interval	5	3	5	6		Minutes

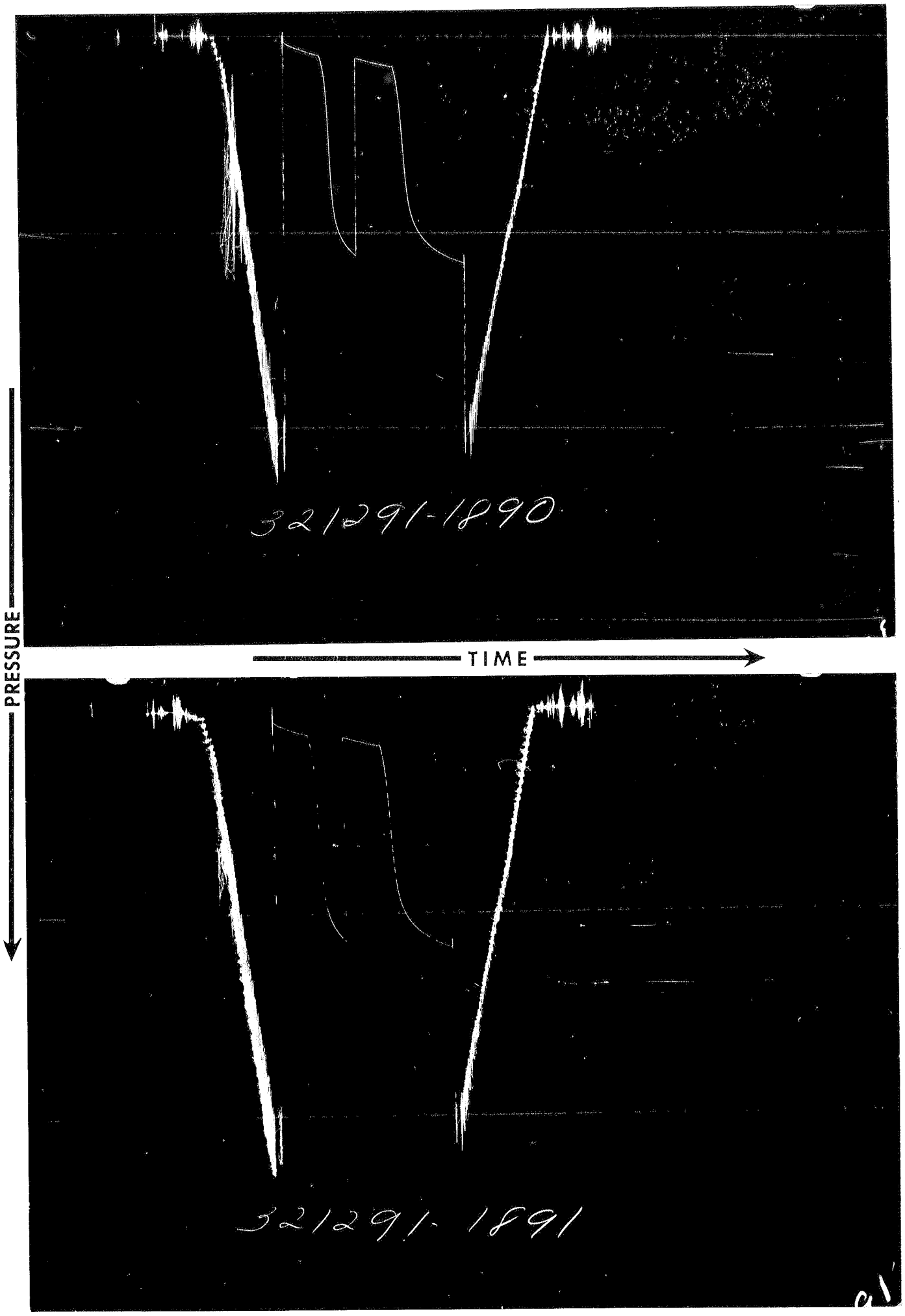
REMARKS:

SPECIAL PRESSURE DATA

LITTLE'S 93429 10M 4/69—13, 14-13

321291

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5 3/4"	2.50"	1'	
Water Cushion Valve				
Drill Pipe	4½"	3.826"	2635'	
Drill Collars	4½" XH WP	2.764"	1037'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	3680'
Multiple CIP Sampler				
Extension Joint				
AP Running Case				
Hydraulic Jar				
VR Safety Joint	5"	1.0"	2½'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	4'	3690'
Distributor				
Packer Assembly	6 3/4"	1.53"	4'	3695'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	3.06"	4'	3696'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	2.76"	44'	
Blanked-Off B.T. Running Case W/temp.	5"		5'	3744'



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	9.9	vis 45		cp

Date 6-7-71 Ticket Number 321292
Kind of Job OPEN HOLE Halliburton District HAYS
Tester MR. JOSLIN Witness MR. JOHNSON
Drilling Contractor GARVEY DRILLING COMPANY BC S

EQUIPMENT & HOLE DATA

Formation Tested Lower Kansas City
Elevation 2324' KB Ft.
Net Productive Interval - Ft.
All Depths Measured From Kelly Bushing
Total Depth 3810' Ft.
Main Hole/Casing Size 7 7/8"
~~Drill Collar~~ Length 4½" XHWP 1037' I.D. 2.76"
Drill Pipe Length 2688' I.D. 3.826"
Packer Depth(s) 3742' - 3747' Ft.
Depth Tester Valve 3732' Ft.

Cushion TYPE AMOUNT Ft. Depth Back Pres. Valve Surface Choke ¼" Bottom Choke 3/4"

Recovered 90 Feet of Mud
Recovered 300 Feet of Muddy Salt Water
Recovered Feet of
Recovered Feet of
Recovered Feet of

Meas. From Tester Valve

Remarks Tool opened for a 30 minute first flow with a weak blow to strong blow in 20 minutes, lasting throughout flow. Closed tool for 30 minute first closed in pressure. Reopened tool for 30 minute second flow with strong blow throughout. Closed tool for 32* minute second closed in pressure. CHART INDICATES PARTIAL PLUGGING DURING INITIAL FLOW PERIOD. *Time given and recorded does not agree.

TEMPERATURE	Gauge No. 1891 Depth: 3748 Ft.	Gauge No. 1890 Depth: 3806 Ft.	Gauge No. Depth: Ft.	TIME
	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened 9:00 A.M. ~~P.M.~~
Est. 108 °F.	Blanked Off No	Blanked Off Yes	Blanked Off	
3805 @ Actual 120 °F.	Pressures	Pressures	Pressures	Tool Closed 11:00 A.M. ~~P.M.~~

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		-	2064	2098	2114				
First Period	Flow Initial	-	39	71	71			____	____
	Flow Final	-	157	178	200			30	30
	Closed in	-	1101	1143	1137			30	30
Second Period	Flow Initial	-	164	196	195			____	____
	Flow Final	-	244	268	275			30	30
	Closed in	-	1057	1090	1092			30	32*
Third Period	Flow Initial							____	____
	Flow Final								
	Closed in								
Final Hydrostatic		-	2021	2079	2083			____	____

Legal Location Sec. - Twp. - Rng. 27 - 10 - 22
Lease Name FAULKNER
Well No. 2
Test No. 5
Tested Interval 3747' - 3810'
Field Area FAULKNER
County GRAHAM
State KANSAS
Lease Owner/Company Name PETROLEUM, INCORPORATED

Gauge No. 1891			Depth 3748'			Clock No. 3227			12 hour		Ticket No. 321292		
	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	39	.0000		157	.0000	164	.0000		244					
1	.1950	157	.0205		769	.0337	178	.0208		768					
2			.0410		880	.0673	192	.0416		863					
3	PLUGGING.....		.0615		948	.1010	206	.0624		921					
4			.0820		991	.1347	218	.0832		957					
5			.1025		1022	.1684	232	.1041		985					
6			.1230		1043	.2020	244	.1249		1006					
7			.1435		1062			.1457		1022					
8			.1640		1078			.1665		1035					
9			.1845		1091			.1873		1044					
10			.2050		1101			.2220		1057*					
11															
12															
13															
14															
15															

Gauge No. 1890			Depth 3806'			Clock No. 2414			12 hour				
0	.0000	71	.0000		200	.0000	195	.0000		275			
1	.0340	105	.0210		817	.0347	208	.0210		806			
2	.0680	144	.0420		921	.0693	223	.0420		896			
3	.1020	148	.0630		983	.1040	237	.0630		954			
4	.1360	192	.0840		1027	.1387	249	.0840		989			
5	.1700	179	.1050		1056	.1734	262	.1050		1018			
6	.2040	200	.1260		1080	.2080	275	.1260		1039			
7			.1470		1099			.1470		1055			
8			.1680		1115			.1680		1067			
9			.1890		1127			.1890		1078			
10			.2100		1137			.2240		1092*			
11													
12													
13													
14													
15													
Reading Interval	5				3		5			3			Minutes

REMARKS: *Interval = 5 minutes

PRINTED IN U.S.A.

SPECIAL PRESSURE DATA

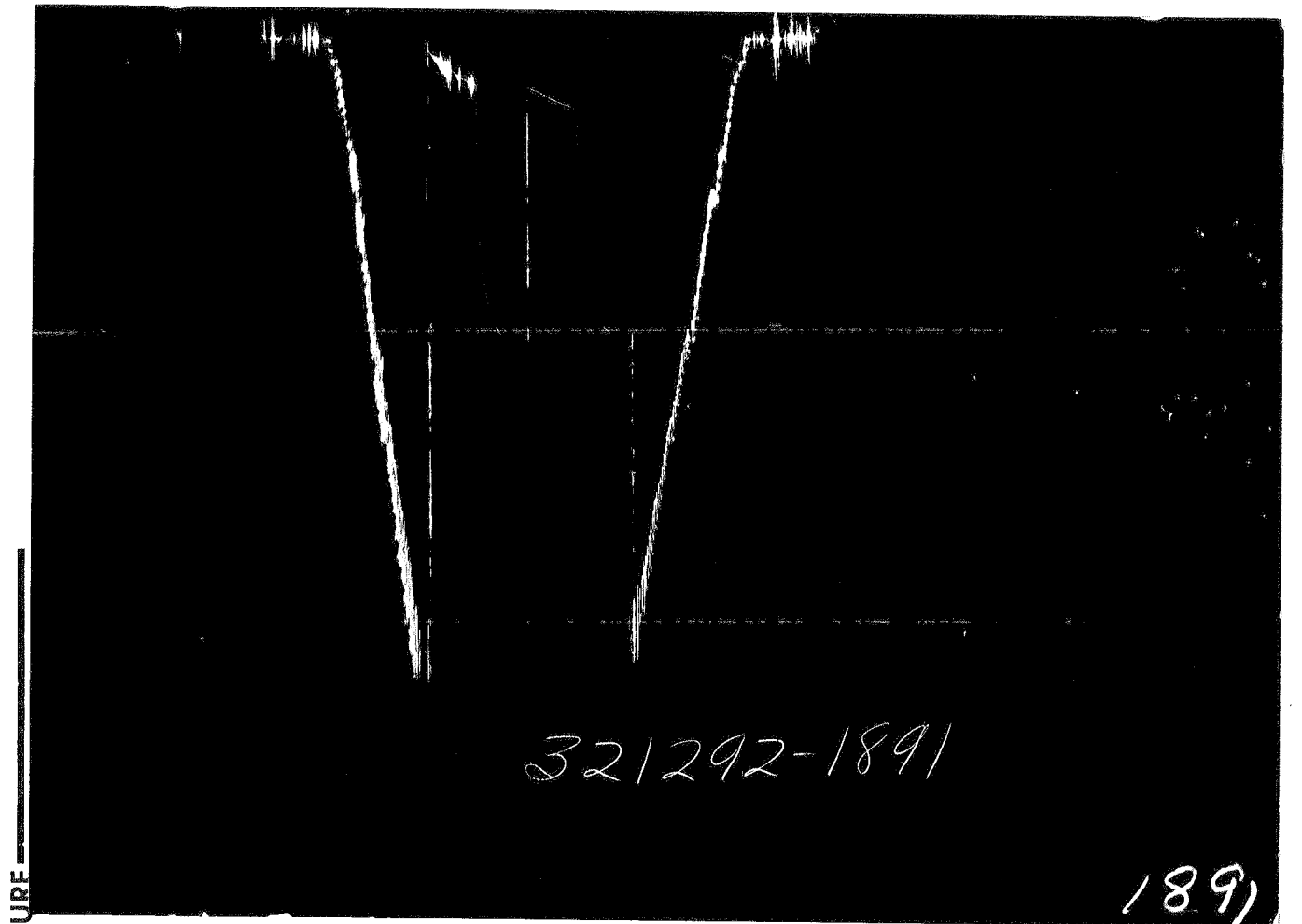
LITTLE'S

321292

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5 3/4"	2.50"	1'	
Water Cushion Valve				
Drill Pipe	4½"	3.826"	2688'	
Drill ~~Collars~~ Pipe	4½" WP	2.76"	1037'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	3732'
Multiple CIP Sampler				
Extension Joint				
AP Running Case				
Hydraulic Jar				
VR Safety Joint	5"	1"	2½'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	4'	3742'
Distributor				
Packer Assembly	6 3/4"	1.53"	4'	3747'
Flush Joint Anchor				
Pressure Equalizing Tube				
A.P. ~~Blanked-Off B.T.~~ Running Case	5"	3.06"	4'	3748'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	1' X 4½" FH	3.826"	31'	
Flush Joint Anchor	5"	2.76"	23'	
Blanked-Off B.T. Running Case W/ Temp.	5"	-	5'	3806'

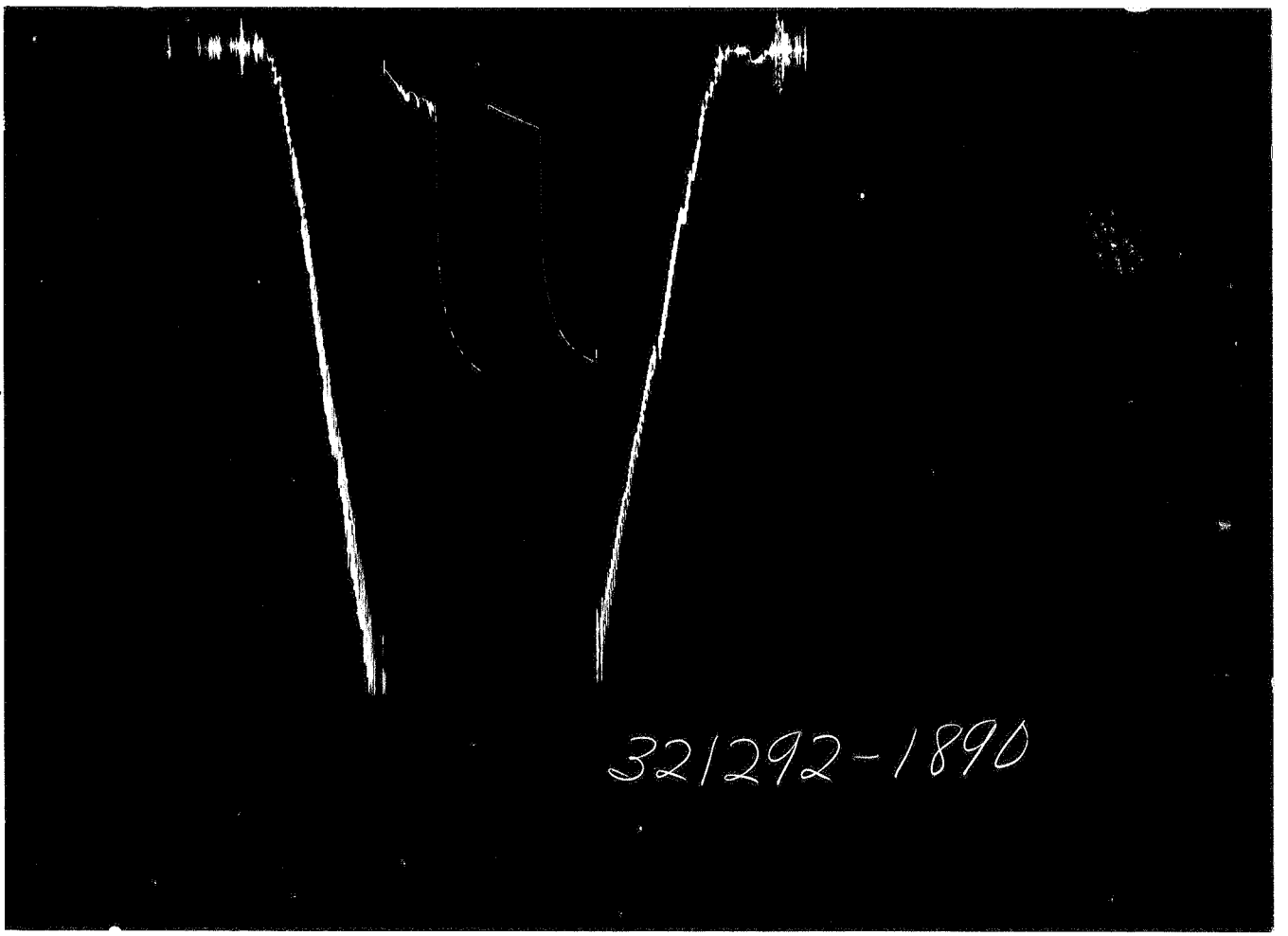
TEMPERATURE
RECORDER
CHART

10° each circle



PRESSURE

TIME



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