15-095-20311 1-28s-5w

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	10.1 vis	35 cp

Date 6-19-73 Ticket Number 677149
Kind of Job OPEN HOLE Halliburton District EL DORADO
Tester BUTCHER Witness HARDY & DONNELLY
Drilling Contractor GABBERT AND JONES, INC. NM S

EQUIPMENT & HOLE DATA

Formation Tested Indian Cave Sand
Elevation 1418' K.B. Ft.
Net Productive Interval 5' Ft.
All Depths Measured From Kelly Bushing
Total Depth 1685' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 393' I.D. 2.375"
Drill Pipe Length 1216' I.D. 3.826"
Packer Depth(s) 1632' - 1636' Ft.
Depth Tester Valve 1620' Ft.

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

Recovered 265' * Feet of water cut drilling mud
Recovered Feet of
Recovered Feet of
Recovered Feet of
Recovered Feet of

Meas. From Tester Valve

Remarks SEE PRODUCTION TEST DATA SHEET...

* RECOVERY IS FALSE BECAUSE OF PACKERS SLIDING TO THE BOTTOM...

TEMPERATURE	Gauge No. 537 Depth: 1622' Ft.	Gauge No. 291 Depth: 1681' Ft.	Gauge No. Depth: Ft.	TIME
	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened 1029 A.M.
Est. 80 °F.	Blanked Off NO	Blanked Off YES	Blanked Off	Tool Closed 1206 P.M.
Actual °F.	Pressures	Pressures	Pressures	

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		847	865	-	941				
First Period	Flow Initial	149	145	-	186			———	———
	Flow Final	141	145	-	180			34	34
	Closed in	353	353	-	389			32	31
Second Period	Flow Initial	141	144	-	219			———	———
	Flow Final	141	146	-	211			31	33
	Closed in	329	325	-	375			32	31
Third Period	Flow Initial							———	———
	Flow Final								
	Closed in								
Final Hydrostatic		839	859	-	910			———	———

Legal Location Sec. - Twp. - Rng. 1 - 28 - 5W
Lease Name CASLEY
Well No. 1
Test No. 1
Field Area -
Tested Interval 1636' - 1685'
County KINGMAN
State KANSAS
Lease Owner/Company Name MAURICE L. BROWN TRUST

PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 90217 10M 2/72

Casing perfs. _____ Bottom choke 3/4" Surf. temp _____ °F Ticket No. 677149

Gas gravity _____ Oil gravity _____ GOR _____

Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

Date 6-18-73 Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
800					Truck called out...
1130					On location.
6-19-73 630					Making up the tools.
700					Going in the hole.
800					Change safety joint.
900					Going in the hole
1002					On false bottom -
					tool sliding.
1008					Opened tool - sliding to the
					bottom - 30'
1015					Picked up joint.
1025					On bottom.
1029					Tool opened with a very weak blow..
1032					No blow - well dead.
1103					Closed tool
1135					Opened tool - no blow
1150					flushed tool...
1155					Reopened tool with a few bubbles -
					dead in 1 second..
1206					Closed tool
1238					Off bottom...

Gauge No.	537	Depth	1622'	Clock No.	2803	12 hour	Ticket No.	677149

	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	145	.000		145	.000	144	.000		146					
1	.227	145	.0267		181*	.216	146	.0268		170*					
2			.0467		205			.0469		193					
3			.0667		229			.0670		214					
4			.0867		250			.0871		233					
5			.1067		271			.1072		252					
6			.1267		290			.1273		269					
7			.1467		306			.1474		285					
8			.1667		323			.1675		302					
9			.1867		339			.1876		313					
10			.2070		353			.2080		325					
11															
12															
13															
14															
15															

Gauge No.	291	Depth	1681'	Clock No.	2271	hour	12

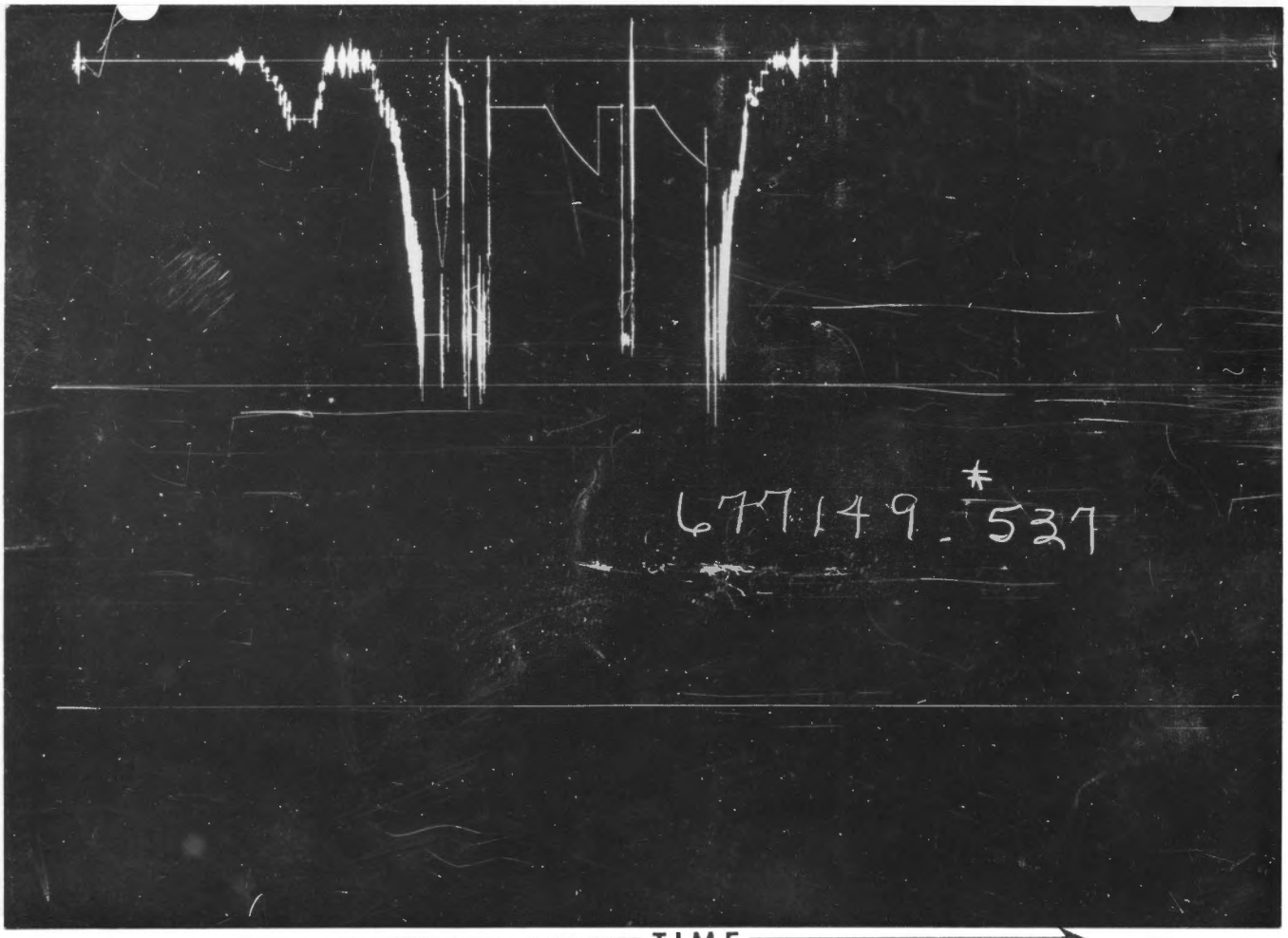
0	.000	186	.000		180	.000	219	.000		211					
1	.231	180	.0267		212*	.215	211	.213		375					
2			.0467		240										
3			.0667		264										
4			.0867		287										
5			.1067		308										
6			.1267		327										
7			.1467		345										
8			.1667		361										
9			.1867		375										
10			.2070		389										
11															
12															
13															
14															
15															
Reading Interval			3					3							Minutes

REMARKS: * INTERVAL = 4 MINUTES.

4

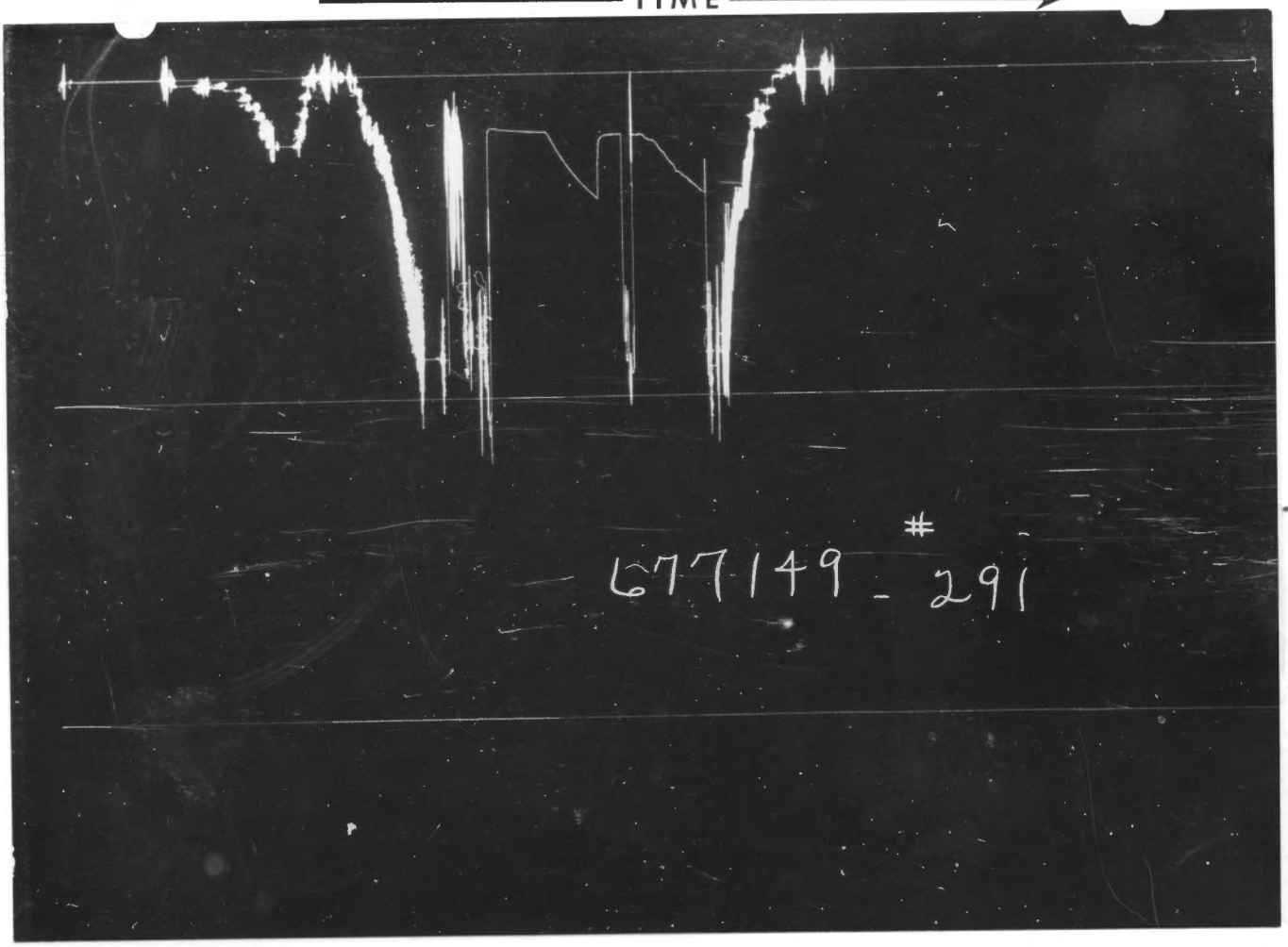
677149

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4½"	3.826"	1216'	
Drill Collars	6"	2.375"	393'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	1620'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.75"	4'	1622'
Hydraulic Jar				
VR Safety Joint	5"	1.75"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.00"	4'	1632'
Distributor				
Packer Assembly	6 3/4"	1.00"	4'	1636'
Flush Joint Anchor	5"	3.84"	44'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.75"	4'	1681'
			TOTAL DEPTH	1685'
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 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 45		cp

Date 6-24-73 Ticket Number 677227
Kind of Job OPEN HOLE Halliburton District EL DORADO
Tester BUTCHER Witness FRANK NOVLY / CLARK ROACH
Drilling Contractor GABBERT AND JONES RIG # 3 NM S

EQUIPMENT & HOLE DATA

Formation Tested Mississippi Chert
Elevation 1418' Ft.
Net Productive Interval 23' Ft.
All Depths Measured From Kelly Bushing
Total Depth 3780' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 393' I.D. 2.375"
Drill Pipe Length 3334' I.D. 3.826"
Packer Depth(s) 3755' Ft.
Depth Tester Valve 3738' Ft.

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

Recovered 180' Feet of gas cut drilling mud
Recovered 240' Feet of slightly salty gas cut water
Recovered Feet of
Recovered Feet of
Recovered Feet of

Meas. From Tester Valve

Remarks SEE PRODUCTION TEST DATA SHEET...

TEMPERATURE	Gauge No. 537 Depth: 3740' Ft.	Gauge No. 291 Depth: 3776' Ft.	Gauge No. Depth: Ft.	TIME
	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened 1025 A.M.
Est. 106 °F.	Blanked Off NO	Blanked Off YES	Blanked Off	Tool Closed 102 P.M.
Actual °F.	Pressures	Pressures	Pressures	

	Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic	1945	1951	-	1967				
First Period Flow Initial	47	53	-	74			____	____
First Period Flow Final	117	127	-	147			45	46
First Period Closed in	1051	1044	-	1061			52	50
Second Period Flow Initial	117	143	-	159			____	____
Second Period Flow Final	180	183	-	203			60	62
Second Period Closed in	1020	1021	-	1041			60	59
Third Period Flow Initial							____	____
Third Period Flow Final								
Third Period Closed in								
Final Hydrostatic	1937	1948	-	1965			____	____

Legal Location Sec. - Twp. - Rng. 1 - 28 - 5W
Lease Name CASLEY
Well No. 1
Test No. 2
Field Area CASLEY EXST.
Tested Interval 3755' - 3780'
County KINGMAN
State KANSAS
Lease Owner/Company Name MAURICE L. BROWN, TRUST

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FORMATION TEST DATA

LITTLE'S 90217 10M 2/72

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Casing perfs. _____ Bottom choke 3/4" Surf. temp. _____ °F Ticket No. 677227

Gas gravity _____ Oil gravity _____ GOR _____

Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

Date 6-24-73 Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
445					Truck called out...
700					On location
730					Making up the tools.
830					Going in the hole
1021					On bottom
1025					Opened tool with a fair to a strong
					blow.
1035					Strong blow - no gas
1045					No gas
1055					"
1105					"
1110					Closed tool - no gas
1140					Still good blow - no gas
1150					Opened 2" flow line - bled off
1202					Opened tool with a fair blow..
1217					Good to a strong blow.
					No gas to the surface.
1230					No gas
1245					No gas - strong blow
100					No gas
102					Closed tool
130					Opened to 2" flow line - bled off - no
					gas to the surface.
202					Off bottom...

Gauge No.	537	Depth	3740'	Clock No.	2803	12 hour	Ticket No.	677227

	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	53	.000		127	.000	143	.000		183					
1	.0661	82*	.0339		491	.0786	147**	.0333		583***					
2	.1256	96	.0678		732	.1441	153	.0733		771					
3	.1851	109	.1017		849	.2096	160	.1133		857					
4	.2446	119	.1356		913	.2751	168	.1533		907					
5	.3040	127	.1695		954	.3406	176	.1933		940					
6			.2034		980	.4060	183	.2333		965					
7			.2373		1002			.2733		984					
8			.2712		1018			.3133		999					
9			.3051		1032			.3533		1012					
10			.3390		1044			.3930		1021					
11															
12															
13															
14															
15															

Gauge No.	291	Depth	3776'	Clock No.	2271	hour	12

0	.000	74	.000		147	.000	159	.000		203					
1	.0667	103*	.034		556	.0805	165**	.0334		633***					
2	.1268	113	.068		775	.1476	170	.0735		810					
3	.1869	126	.102		876	.2147	177	.1136		885					
4	.2470	137	.136		940	.2818	187	.1537		930					
5	.3070	147	.170		979	.3489	194	.1938		963					
6			.204		1005	.4160	203	.2339		985					
7			.238		1025			.2740		1004					
8			.272		1039			.3141		1019					
9			.306		1052			.3542		1031					
10			.340		1061			.3940		1041					
11															
12															
13															
14															
15															
Reading Interval	9		5			10		6							Minutes

REMARKS: * INTERVAL = 10 MINUTES. ** INTERVAL = 12 MINUTES. *** INTERVAL = 5 MINUTES.

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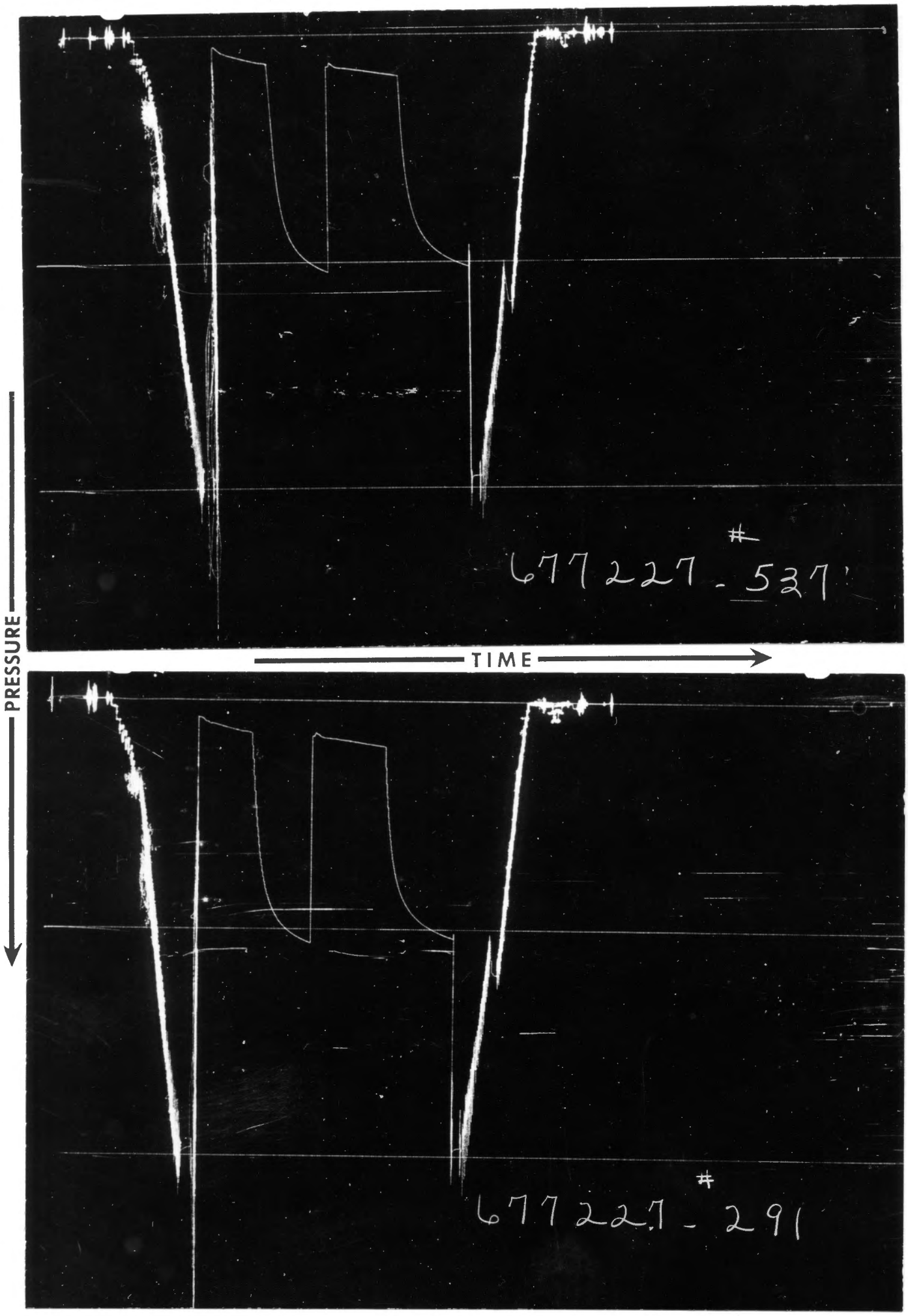
SPECIAL PRESSURE DATA

LITTLE'S

677227

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4½"	3.826"	3334'	
Drill Collars	6"	2.375"	393'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	3738'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.75"	4'	3740'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.00"	4'	3755'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	3.84"	20'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.75"	4'	3776'
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 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 40	cp

Date 6-25-73 Ticket Number 677228
Kind of Job OPEN HOLE Halliburton District EL DORADO
Tester MR. BUTCHER Witness MR. ROACH
Drilling Contractor GABBERT AND JONES RIG #3 DR S

EQUIPMENT & HOLE DATA

Formation Tested Mississippi Dolomite
Elevation 1418' Ft.
Net Productive Interval 9' Ft.
All Depths Measured From Kelly Bushing
Total Depth 3802' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 393' I.D. 2.375"
Drill Pipe Length 3363' I.D. 3.826"
Packer Depth(s) 3784' Ft.
Depth Tester Valve 3767' Ft.

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

Recovered 260 Feet of slightly oil and gas cut drilling mud
Recovered 60 Feet of slightly oil and gas cut mud with water
Recovered 110 Feet of salt water
Recovered Feet of
Recovered Feet of

Meas. From Tester Valve

Remarks SEE PRODUCTION TESTS DATA SHEET

TEMPERATURE	Gauge No. 537	Gauge No. 291	Gauge No.	TIME
	Depth: 3769 Ft.	Depth: 3798 Ft.	Depth: Ft.	
Est. 106 °F.	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened A.M. 3:07 ~~P.M.~~
	Blanked Off No	Blanked Off Yes	Blanked Off	Tool Closed A.M. 5:45 ~~P.M.~~
Actual °F.	Pressures	Pressures	Pressures	

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		1961	1953		1968				
First Period	Flow Initial	39	86		70			———	———
	Flow Final	86	100		110			47	46
	Closed in	1067	1071		1084			47	48
Second Period	Flow Initial	109	114		126			———	———
	Flow Final	149	150		161			64	65
	Closed in	1059	1059		1074			65	64
Third Period	Flow Initial							———	———
	Flow Final								
	Closed in								
Final Hydrostatic		1937	1945		1961			———	———

Legal Location Sec. - Twp. - Rng. 1-28-5W
Lease Name CASLEY
Well No. 1
Test No. 3
Tested Interval 3784'-3802'
Field Area CASLEY EXST.
County KINGMAN
State KANSAS
Lease Owner/Company Name MAURICE L. BROWN TRUST

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FORMATION TEST DATA

LITTLE 5 90217 10M 2/72

5

Casing perfs. _____ Bottom choke 3/4" Surf. temp _____ °F Ticket No. 677228

Gas gravity _____ Oil gravity _____ GOR _____

Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

Date Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
12:00					Making up tools
1:00					Going in hole
3:03					Sliding tool to bottom 10'
3:07					On bottom, opened tool
					Opened with a fair to a good strong
3:17					blow
3:22					Blow building very good
3:30					Very strong blow
3:40					No gas to surface
3:50					No gas
3:54					Closed tool-no gas,
4:30					Still good blow, no gas
					Released to flow line
4:41					Open tool with a fair blow.
4:45					Very good strong blow
5:00					No gas to surface
5:15					No gas
5:30					No gas
5:45					Closed tool, no gas
6:10					Gas to surface
6:50					Off bottom

Gauge No.	537	Depth	3769'	Clock No.	2803	12 hour	Ticket No.	677228

	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	86	.000		100	.000	114	.000		150					
1	.0407	42*	.0530		672 **	.0848	125	.0266		491***					
2	.0949	60	.0795		827	.1696	132	.0665		774					
3	.1491	70	.1060		910	.2544	135	.1064		886					
4	.2033	80	.1325		962	.3392	142	.1463		947					
5	.2575	91	.1590		994	.4240	150	.1862		983					
6	.3120	100	.1855		1017			.2261		1006					
7			.2120		1034			.2660		1023					
8			.2385		1047			.3059		1035					
9			.2650		1057			.3458		1045					
10			.2915		1065			.3857		1053					
11			.3180		1071			.4260		1059					
12															
13															
14															
15															

Gauge No.	291		Depth	3798'		Clock No.	2271		hour	12				
0	.000	70	.000		110	.000	126	.000		161					
1	.0407	52*	.0530		684**	.0868	135	.0266		524***					
2	.0949	68	.0795		839	.1736	142	.0664		803					
3	.1491	80	.1060		928	.2604	146	.1062		911					
4	.2033	91	.1325		977	.3472	152	.1460		965					
5	.2575	100	.1590		1009	.4340	161	.1858		998					
6	.3120	110	.1855		1031			.2256		1021					
7			.2120		1047			.2654		1037					
8			.2385		1059			.3052		1049					
9			.2650		1069			.3450		1059					
10			.2915		1077			.3848		1068					
11			.3180		1 084			.4250		1074					
12															
13															
14															
15															
Reading Interval	8		4			13		6							Minutes

REMARKS: * First interval equal to 6 minutes **-8 minutes ***-4 minutes.

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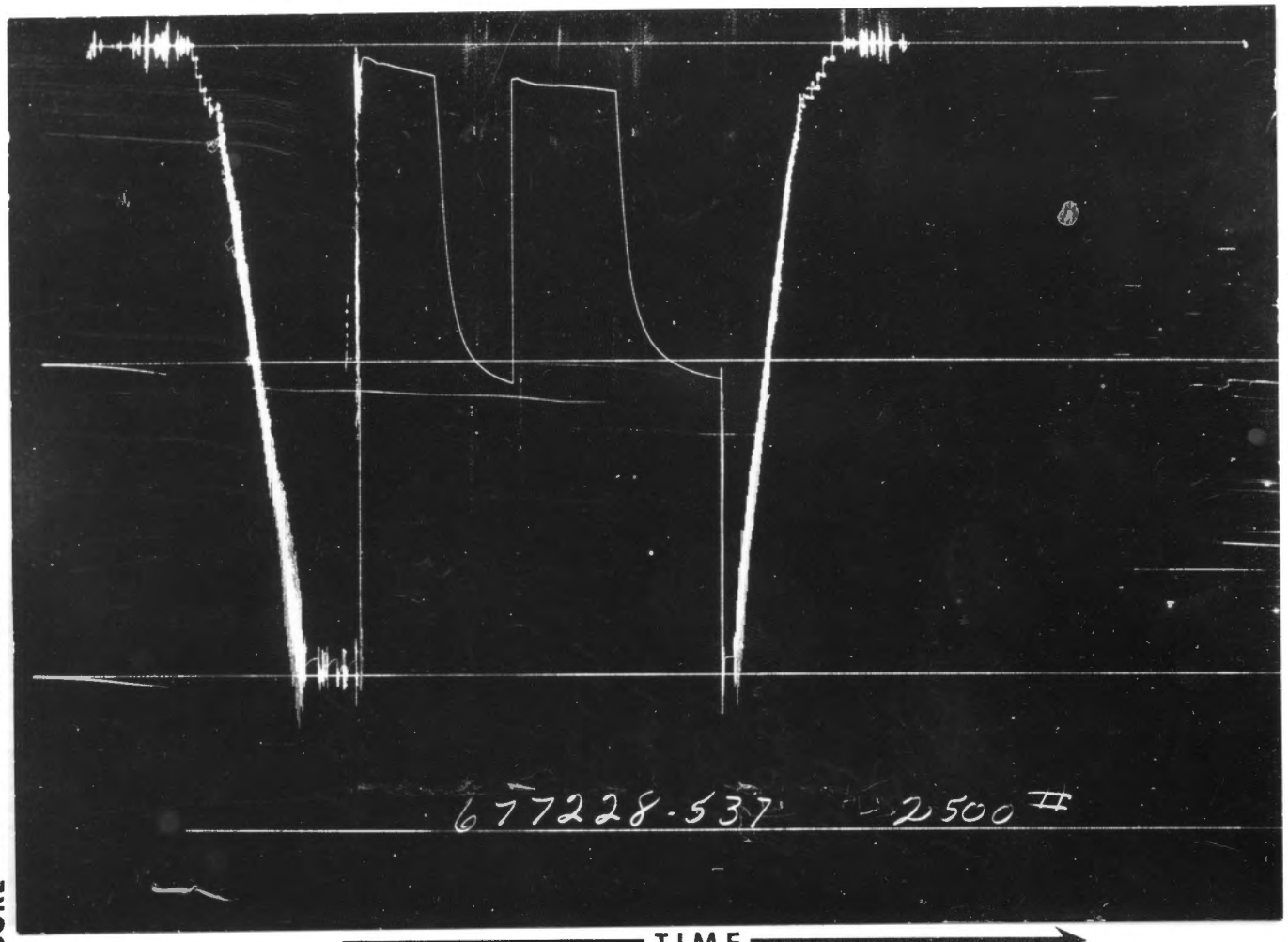
SPECIAL PRESSURE DATA

LITTLE'S

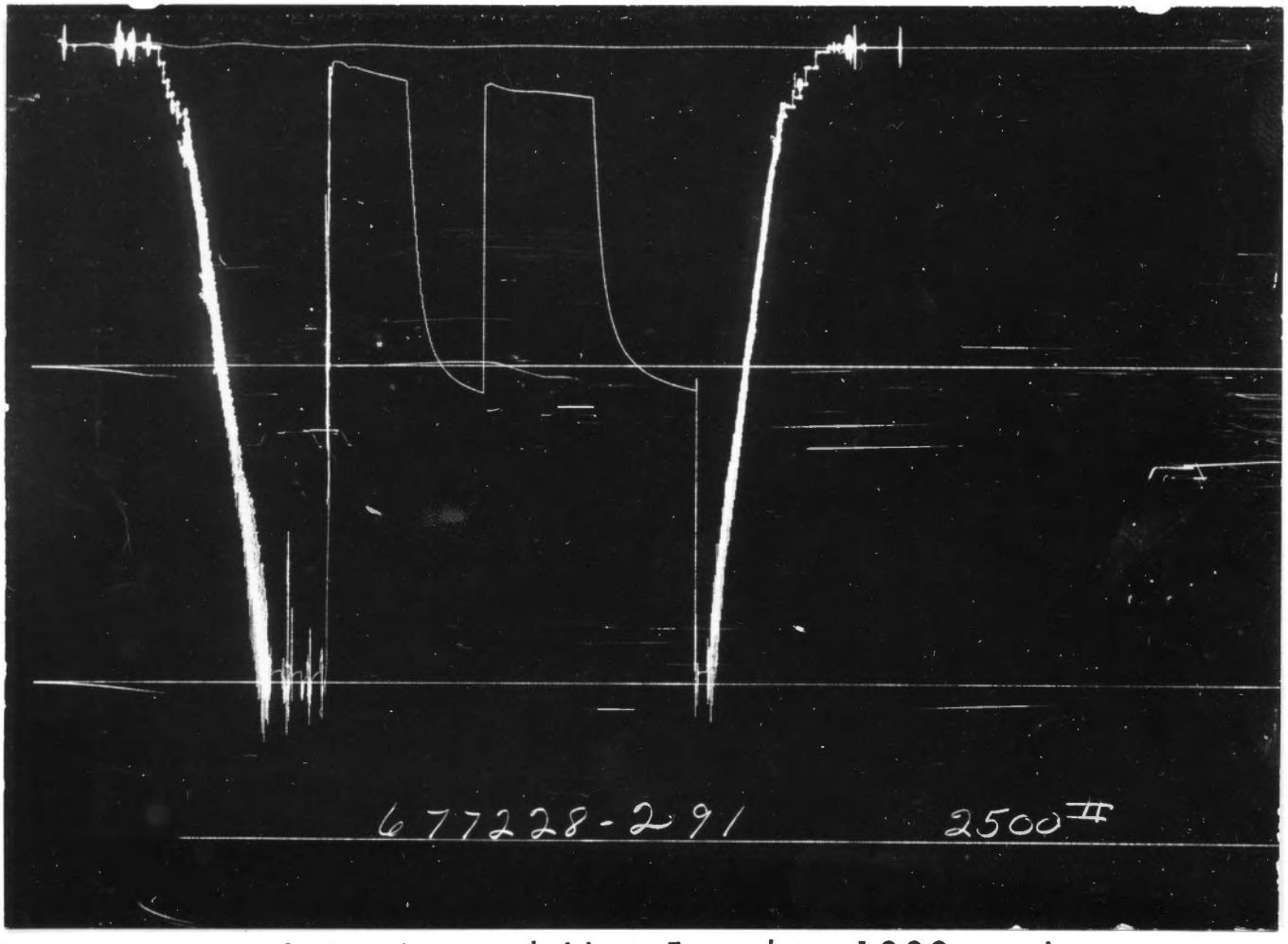
677228

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4½"	3.826"	3363'	
Drill Collars	6"	2.375"	393'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	3767'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.75"	4'	3769'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.00"	4'	3784'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	3.84"	13'	
Pressure Equolizing Tube				
Blanked-Off B.T. Running Case	5"	2.75"	4'	3798'
Drill Collars				3802'
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 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 45 cp	

Date 6-26-73 Ticket Number 676651
Kind of Job OPEN HOLE Halliburton District WINFIELD
Tester MR. BOYER / MR. KUHN Witness MR. ROACH
Drilling Contractor GABBERT & JONES IC

EQUIPMENT & HOLE DATA

Formation Tested Mississippi Lime
Elevation 1413' GL Ft.
Net Productive Interval 16' Ft.
All Depths Measured From Kelly Bushing
Total Depth 3850' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 392.56' I.D. 2 1/4"
Drill Pipe Length 3360.60' I.D. 3.826"
Packer Depth(s) 3773' - 3789' Ft.
Depth Tester Valve 3746' Ft.

Cushion TYPE - AMOUNT - Ft. Depth Back Pres. Valve - Surface Choke - Bottom Choke -

Recovered 180 Feet of Drilling mud & water
Recovered Feet of
Recovered Feet of
Recovered Feet of
Recovered Feet of

Meas. From Tester Valve ---

Remarks Opened tool for 60 minute first flow with blow building to string in 6 minutes. Closed tool for 60 minute initial closed in pressure with blow staying strong. Reopened tool for 120 minute second flow with no blow. Closed tool for 90 minute second closed in pressure with no blow. *Unable to read due to plugging. CHARTS INDICATE PLUGGING THROUGHOUT TEST....

TEMPERATURE	Gauge No. 537 Depth: 3754' Ft.	Gauge No. 291 Depth: 3746' Ft.	Gauge No. Depth: Ft.	TIME
	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened 7:40 A.M. XXX
Est. °F.	Blanked Off NO	Blanked Off YES	Blanked Off	
Actual 103 °F.	Pressures	Pressures	Pressures	Tool Closed 8:40 A.M. XXX

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		-	1926	-	1979				
First Period	Flow Initial	8	18	-	*			____	____
	Flow Final	86	104	-	*			60	
	Closed in	1046	1079	-	*			60	
Second Period	Flow Initial	-	*	-	*			____	____
	Flow Final	-	*	-	*			120	
	Closed in	-	*	-	*			90	
Third Period	Flow Initial							____	____
	Flow Final								
	Closed in								
Final Hydrostatic		-	1926	-	1979			____	____

Legal Location Sec. - Twp. - Rng. 1 - 28S - 5W
Lease Name CASLEY
Well No. 1
Test No. 4
Tested Interval 3789' - 3850'
Field Area ---
County KINGMAN
State KANSAS
Lease Owner/Company Name THE MAURICE L. BROWN TRUST

PRINTED IN U.S.A.

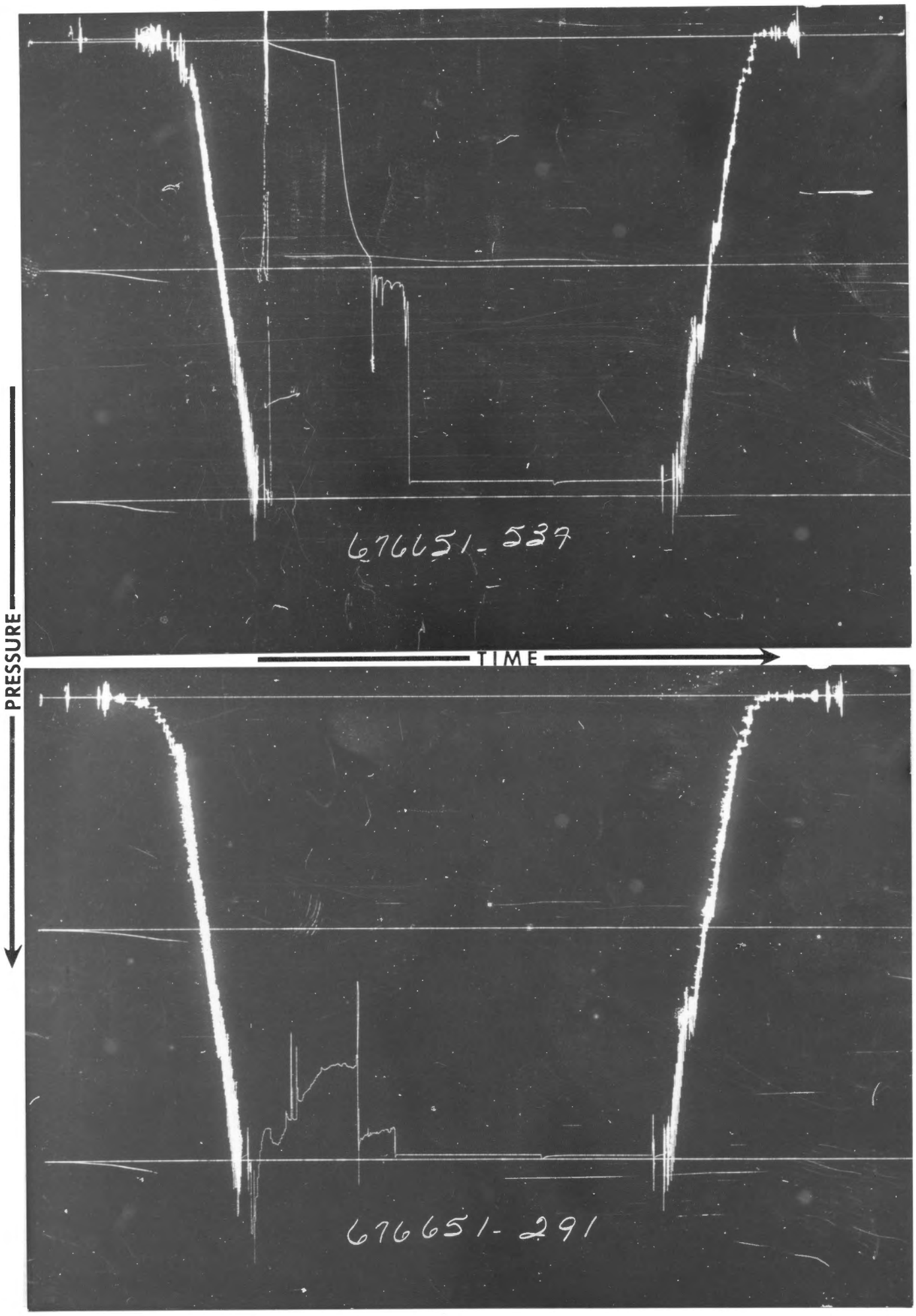
FORMATION TEST DATA

LITTLE'S 90217 10M 2/72

5

676651

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5 3/4"	2"	1'	
Water Cushion Valve				3622'
Drill Pipe	4 1/2"	3.826"	3360.60'	
Drill Collars	5 3/4"	2 1/4"	392.56'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	3/4"	4'	
Duol CIP Sampler				
Hydro-Spring Tester	5"	3/4"	4'	3746'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2 1/4"	4'	3754'
Hydraulic Jar	5"	1"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equolizing Crossover				
Packer Assembly	6 3/4"	1"	4'	3773'
Distributor	5"	2 1/4"	16'	
Packer Assembly	6 3/4"	1"	4'	3789'
Flush Joint Anchor	5"	2 1/4"	61.41'	
Pressure Equolizing Tube				
Blanked-Off B.T. Running Case	5"	2 1/4"	4'	3846'
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.