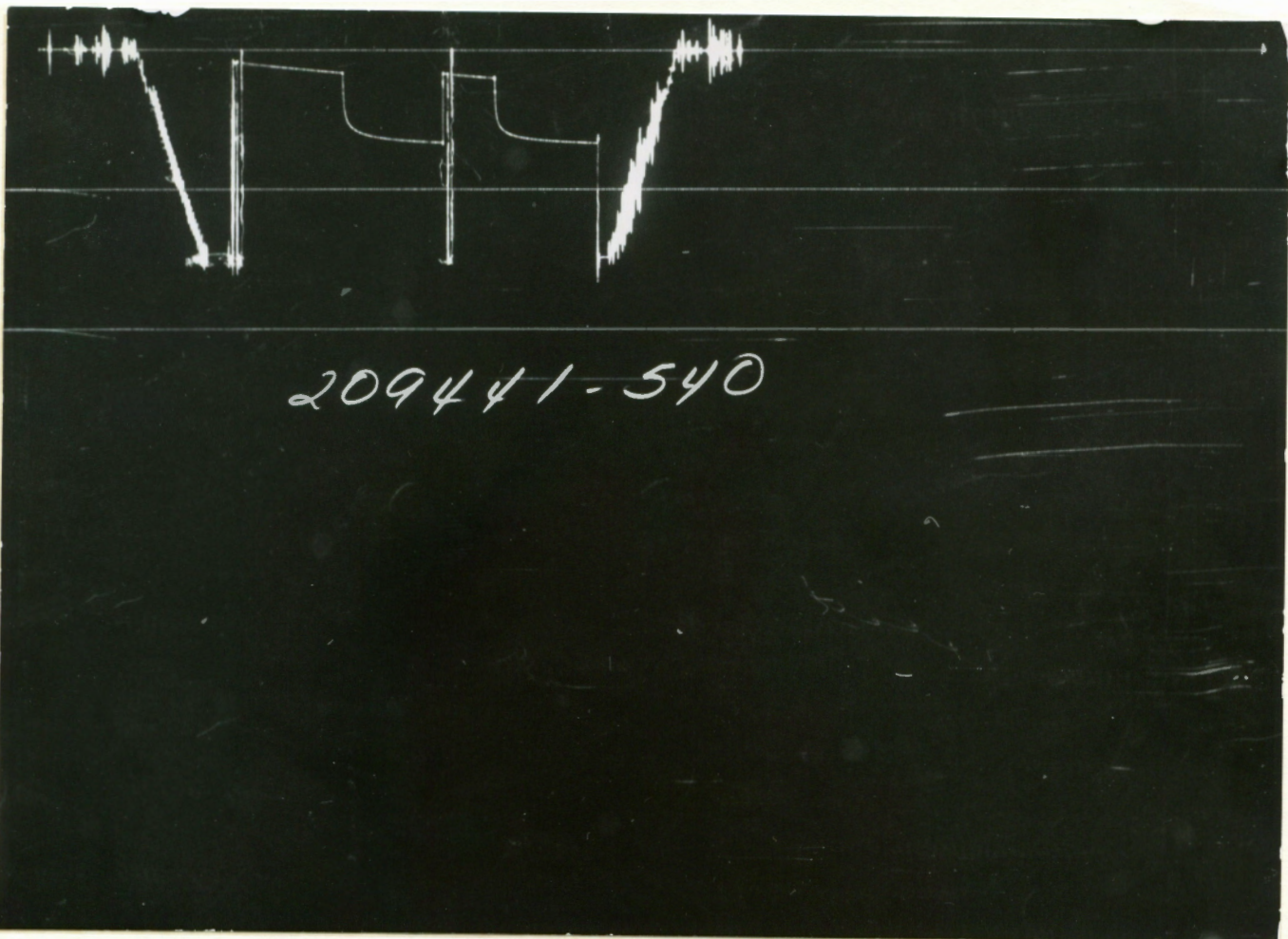


NOMENCLATURE

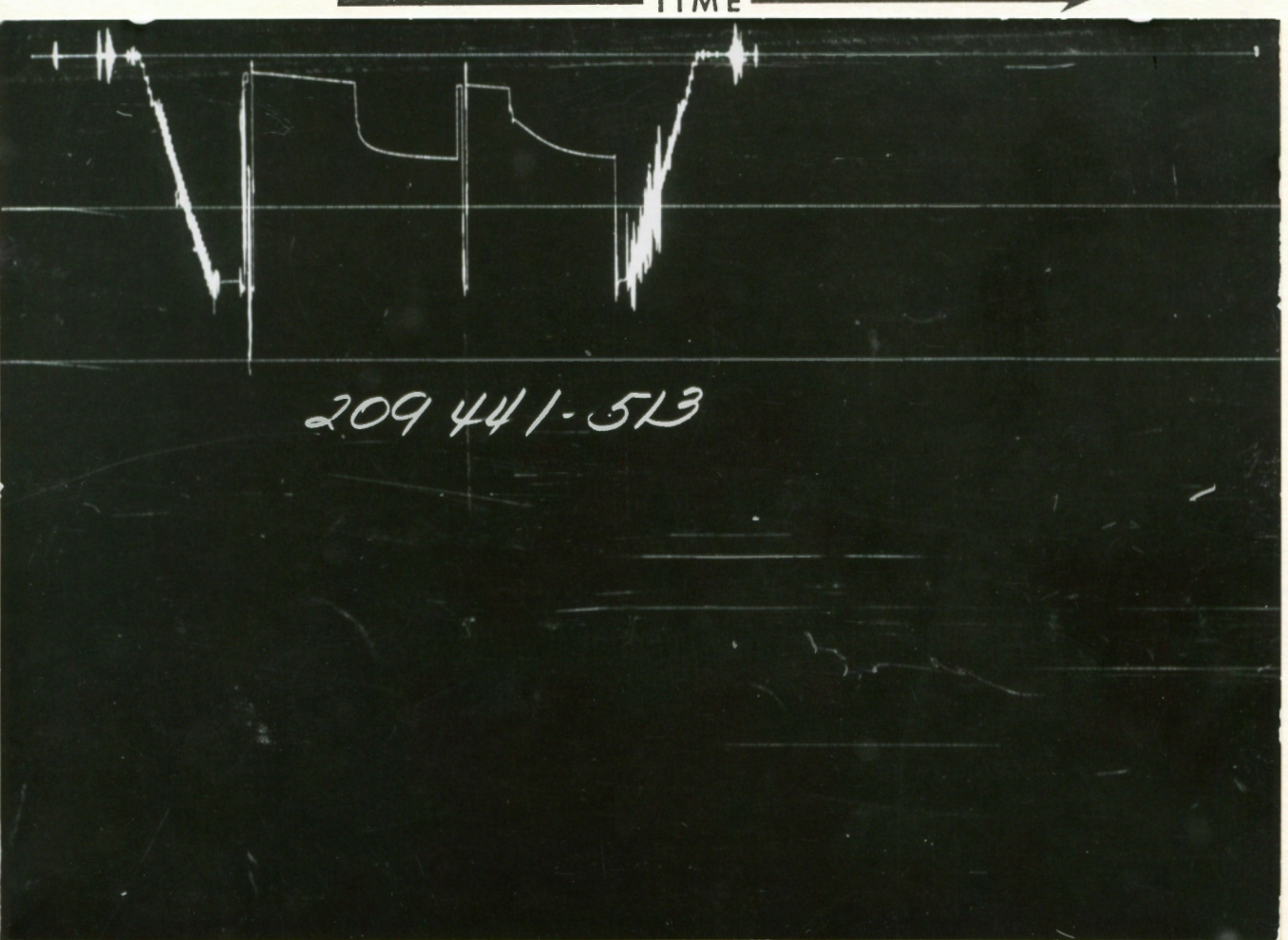
b	= Approximate Radius of Investigation	Feet
b₁	= Approximate Radius of Investigation (Net Pay Zone h ₁)	Feet
D.R.	= Damage Ratio	—
EI	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h₁	= Net Pay Thickness	Feet
K	= Permeability	md
K₁	= Permeability (From Net Pay Zone h ₁)	md
m	= Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	psi/cycle
OF₁	= Maximum Indicated Flow Rate	MCF/D
OF₂	= Minimum Indicated Flow Rate	MCF/D
OF₃	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF₄	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_f	= Final Flow Pressure	Psig.
P_{oi}	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q₁	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,
Fresh Water Corrected to 100° F.



209441-540

This graph shows pressure (vertical axis) versus time (horizontal axis). The pressure starts at a high level, drops sharply to a low level, remains low for a short duration, then rises sharply back to the high level. The pressure remains high for a short duration before dropping again to a low level, remaining low for a short duration, and then rising sharply back to the high level. The pressure remains high for a short duration before dropping again to a low level, remaining low for a short duration, and then rising sharply back to the high level.



209441-513

This graph shows pressure (vertical axis) versus time (horizontal axis). The pressure starts at a high level, drops sharply to a low level, remains low for a short duration, then rises sharply back to the high level. The pressure remains high for a short duration before dropping again to a low level, remaining low for a short duration, and then rising sharply back to the high level. The pressure remains high for a short duration before dropping again to a low level, remaining low for a short duration, and then rising sharply back to the high level.

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

FLUID SAMPLER DATA				Date 8-14-70		Ticket Number 209441	
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 LIBERAL	
				Tester B. O'NEAL		Witness J. ARMSTRONG	
Gravity _____ ° API @ _____ °F.				Drilling Contractor STICKLE DRILLING COMPANY SM S			
Gas/Oil Ratio _____ cu. ft./bbl.				EQUIPMENT & HOLE DATA			
				Formation Tested Council Grove			
				Elevation EST. 2790' Ft.			
				Net Productive Interval 19' Ft.			
				All Depths Measured From Kelly Bushing			
				Total Depth 3070' Ft.			
				Main Hole/Casing Size 7 7/8"			
				Drill Collar Length 702' I.D. 2 1/4"			
				Drill Pipe Length 2303' I.D. 3.826"			
				Packer Depth(s) 3032'-3036' Ft.			
				Depth Tester Valve 3011' Ft.			
		RESISTIVITY	CHLORIDE CONTENT				
Recovery Water	_____ @ _____ °F.	180,000	ppm				
Recovery Mud	_____ @ _____ °F.						
Recovery Mud Filtrate	_____ @ _____ °F.		ppm				
Mud Pit Sample	_____ @ _____ °F.						
Mud Pit Sample Filtrate	_____ @ _____ °F.	53,000	ppm				
Mud Weight	9.2	vis	34	cp			
TYPE		AMOUNT		Depth Back	Surface	Bottom	
Cushion				Ft. Pres. Valve	Choke	Choke	
				3011'	1/4"	3/4"	
Recovered	390'	Feet of very slightly gas cut muddy saltwater					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks Tool opened for 60 minute first flow with no blow, flushed tool with a very weak blow. Closed for 60 minute first closed in pressure. Tool reopened with no blow, flushed tool with a very weak blow for 30 minutes. Closed tool after 30 minutes for 61 minute second closed in pressure.							
TEMPERATURE		Gauge No. 540	Gauge No. 513	Gauge No.	TIME		
		Depth: 3016' Ft.	Depth: 3066' Ft.	Depth:			
		12 Hour Clock	12 Hour Clock	Hour Clock			
Est.	°F.	Blanked Off NO	Blanked Off YES	Blanked Off			
Actual	102 °F.	Pressures		Pressures		Tool 4:30 A.M. Opened 6:30 P.M. Tool 5:30 A.M. Closed 7:00 P.M.	
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic		1451	1464	1488	1482		
First Period Flow	Initial	54	89	33	107		
	Final	164	168	66	183		
	Closed in	655	668	680	687	60	60
Second Period Flow	Initial	164	170	166	210		
	Final	182	201	200	223	30	30
	Closed in	655	670	680	681	60	61*
Third Period Flow	Initial						
	Final						
Final Hydrostatic		1451	1464	1488	1482		
*Time given and time recorded does not agree.							

 Legal Location
 Sec. - Twp. - Rng.

22-32S-31W

 ESPANA
 Lease Name

 1
 Well No.

 1
 Test No.

Field Area

MASSONI

 3036'-3070'
 Tested Interval

County

SEWARD

State KANSAS

 YUCCA PETROLEUM CORPORATION
 Lease Owner/Company Name

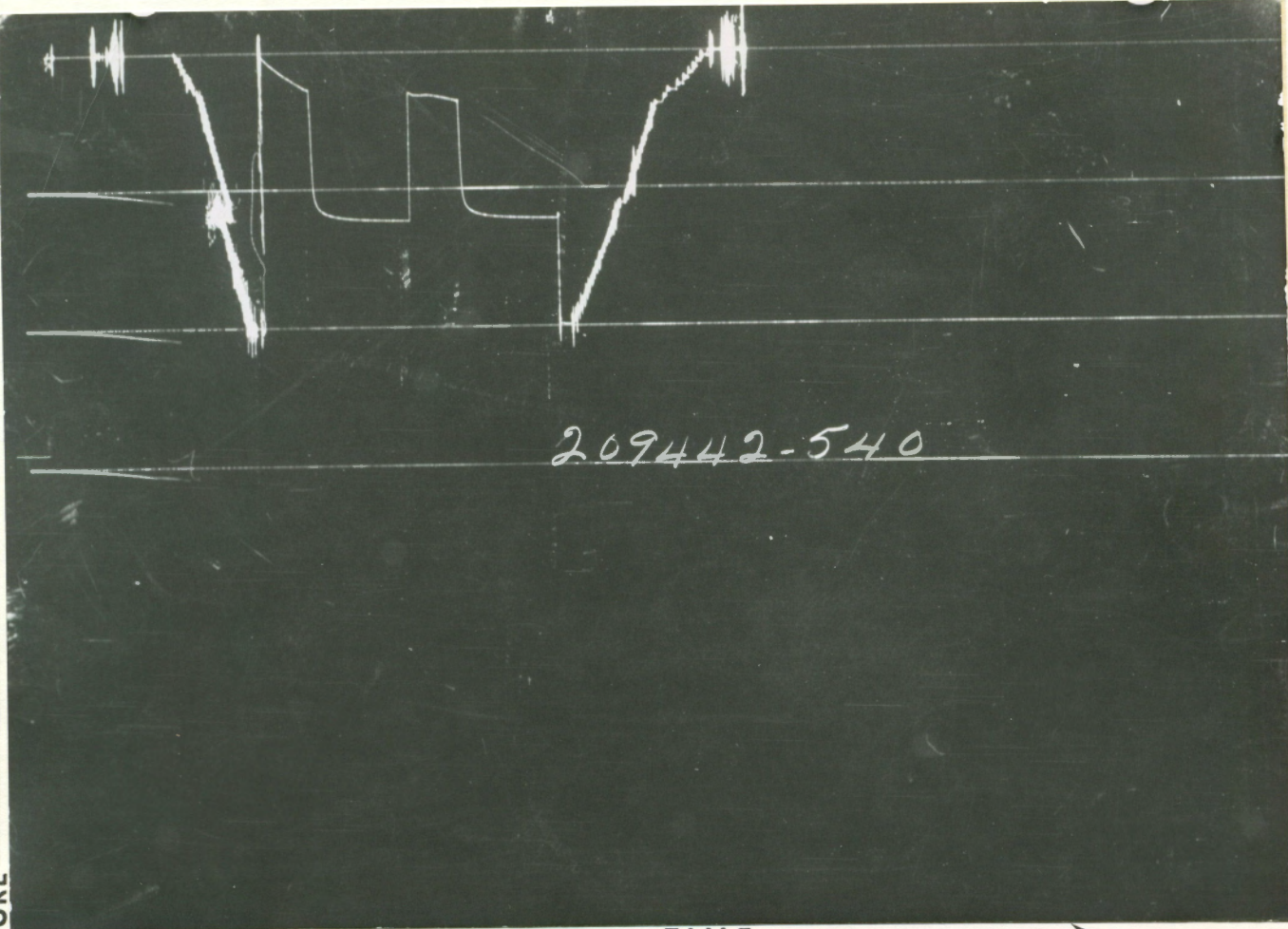
Gauge No. 540					Depth 3016'			Clock No. ?			12 hour	Ticket No. 209441			
First Flow Period			First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	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.
0	.000	89	.000		168	.000	170	.000		201					
1	.067	106	.040		561	.034	177	.0403		587					
2	.134	119	.080		603	.068	182	.0806		617					
3	.201	131	.120		623	.102	186	.1209		634					
4	.268	142	.160		634	.136	192	.1612		644					
5	.335	153	.200		644	.170	197	.2015		652					
6	.402	168	.240		652	.204	201	.2418		657					
7			.280		657			.2821		661					
8			.320		661			.3224		664					
9			.360		664			.3627		668					
10			.400		668			.410*		670					
11															
12															
13															
14															
15															

Gauge No. 513			Depth 3066'			Clock No. ?			12 hour			
0	.000	107	.000		183	.000	210		.000		223	
1	.068	125	.0408		582	.0345	197		.0412		457	
2	.136	137	.0816		623	.0690	204		.0824		513	
3	.204	148	.1224		645	.1035	210		.1236		559	
4	.272	162	.1632		656	.1380	215		.1648		597	
5	.340	173	.2040		666	.1725	220		.2060		625	
6	.408	183	.2448		673	.2070	223		.2472		645	
7			.2856		678				.2884		660	
8			.3264		681				.3296		669	
9			.3672		684				.3708		674	
10			.4080		687				.419*		681	
11												
12												
13												
14												
15												
Reading Interval 10			6			5			6			Minutes

REMARKS: *Last interval equal to 7 minutes.

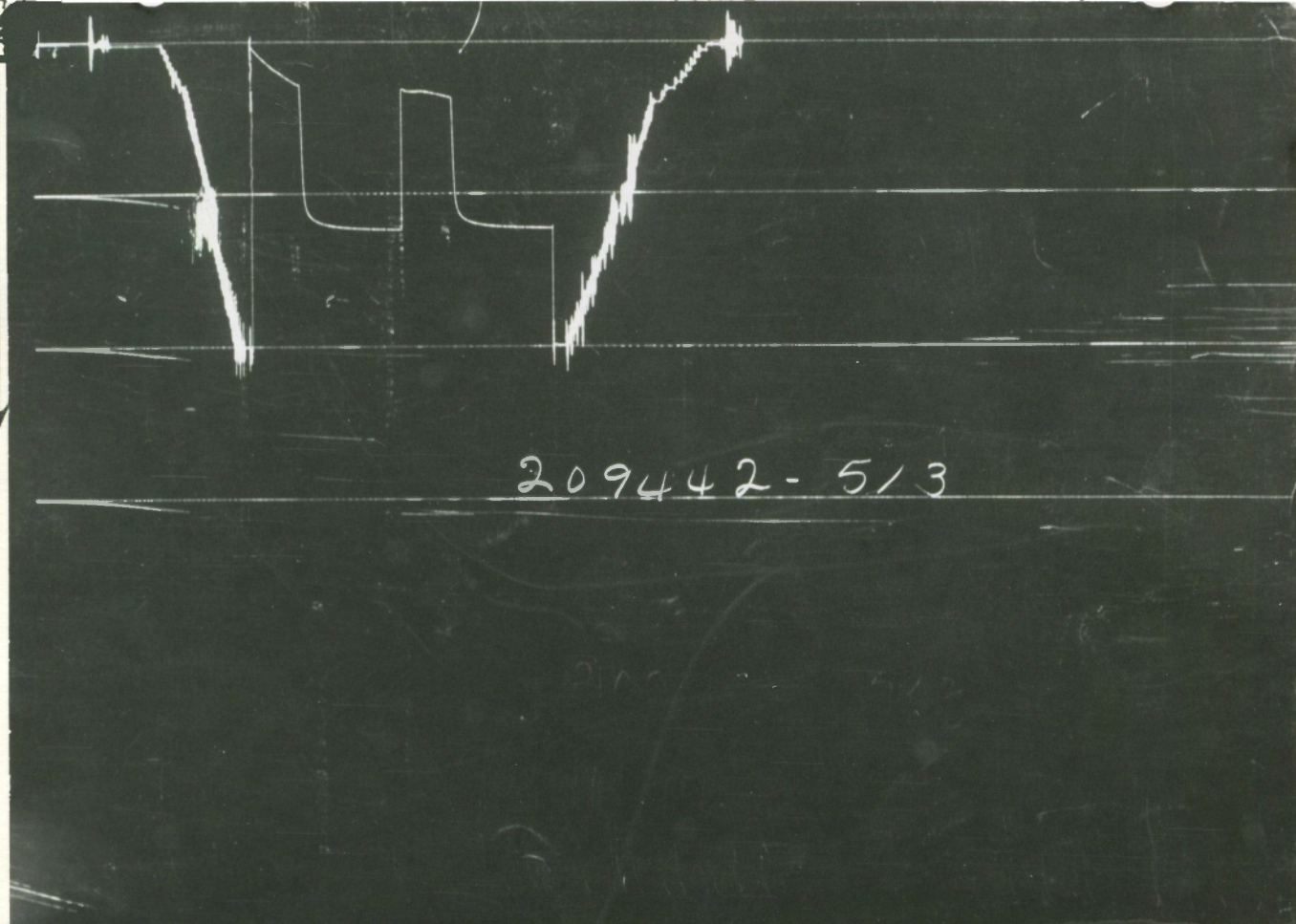


	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	2303'	
Drill Collars		2 1/4"	702'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	6'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	3011'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	3016'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	4'	3032'
Distributor				
Packer Assembly	6 3/4"	1.53"	4'	3036'
Flush Joint Anchor	5"	2.37"	30'	
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				
Blanked-Off B.T. Running Case	5"	2.44"	4'	3066'



209442-540

This graph shows pressure over time. The y-axis is labeled 'PRESSURE' with a downward arrow, and the x-axis is labeled 'TIME' with a rightward arrow. The plot features a series of horizontal lines representing pressure levels. A jagged line starts at the top left, drops sharply to a lower level, then rises to a higher level, and finally drops again. The graph is divided into three main sections by vertical lines.



209442-513

This graph shows pressure over time, similar to the one above. It features a series of horizontal lines representing pressure levels. A jagged line starts at the top left, drops sharply to a lower level, then rises to a higher level, and finally drops again. The graph is divided into three main sections by vertical lines.

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

FLUID SAMPLER DATA				Date 8-16-70		Ticket Number 209442	
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.				Kind of Job OPEN HOLE MR. O'NEAL Tester MR. SHAVERS		Halliburton District LIBERAL Witness MR. ARMSTRONG	
Drilling Contractor STICKLE DRILLING COMPANY DR S				EQUIPMENT & HOLE DATA			
				Formation Tested Topeka ✓			
				Elevation 2790' Est. _____ Ft.			
				Net Productive Interval 17' _____ Ft.			
				All Depths Measured From Kelly Bushing			
				Total Depth 4175' _____ Ft.			
				Main Hole/Casing Size 7 7/8"			
				Drill Collar Length 602' I.D. 2.25"			
				Drill Pipe Length 3515' I.D. 3.826"			
				Packer Depth(s) 4144'-4148' _____ Ft.			
				Depth Tester Valve 4123' _____ Ft.			
		RESISTIVITY		CHLORIDE CONTENT			
Recovery Water _____ @ _____ ° F. _____ ppm							
Recovery Mud _____ @ _____ ° F. _____ ppm							
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm							
Mud Pit Sample _____ @ _____ ° F. _____ ppm							
Mud Pit Sample Filtrate _____ @ _____ ° F. 6000 ppm							
Mud Weight 8.9 vis 39 cp							
TYPE		AMOUNT		Depth Back Pres. Valve		Surface Choke	
Cushion				4123'		1/4"	
Bottom Choke				3/4"			
Recovered		825 Feet of muddy salt water				Meo. From Tester Valve	
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks Opened tool for 29 minute first flow with a fair blow. Closed tool for 61 minute first closed in pressure. Reopened tool for 30 minute second flow with a fair blow. Closed tool for 60 minute second closed in pressure. Gas to surface in 20 minutes.							
TEMPERATURE		Gauge No. 540		Gauge No. 513		Gauge No.	
		Depth: 4128 Ft.		Depth: 4171 Ft.		Depth: _____ Ft.	
		12 Hour Clock		12 Hour Clock		Hour Clock	
Est. ° F.		Blanked Off No		Blanked Off Yes		Blanked Off	
Actual 107 ° F.		Pressures		Pressures		Pressures	
		Field Office		Field Office		Field Office	
Initial Hydrostatic		1995		2001		2000	
First Period	Flow Initial	22		33		38	
	Flow Final	274		283		285	
	Closed in	1223		1207		1233	
Second Period	Flow Initial	303		283		322	
	Flow Final	361		366		372	
	Closed in	1212		1207		1223	
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic		1980		1968		1988	

Legal Location Sec. - Twp. - Rng. 15-15-2015
 Lease Name 22-32S-31W
 Well No. C 8E 8E
 Test No. 2
 Field Area MASSONI
 County SEWARD
 State KANSAS
 YITCA PETROLEUM COMPANY
 Lease Owner/Company Name
 4148'-4175'
 Tested Interval

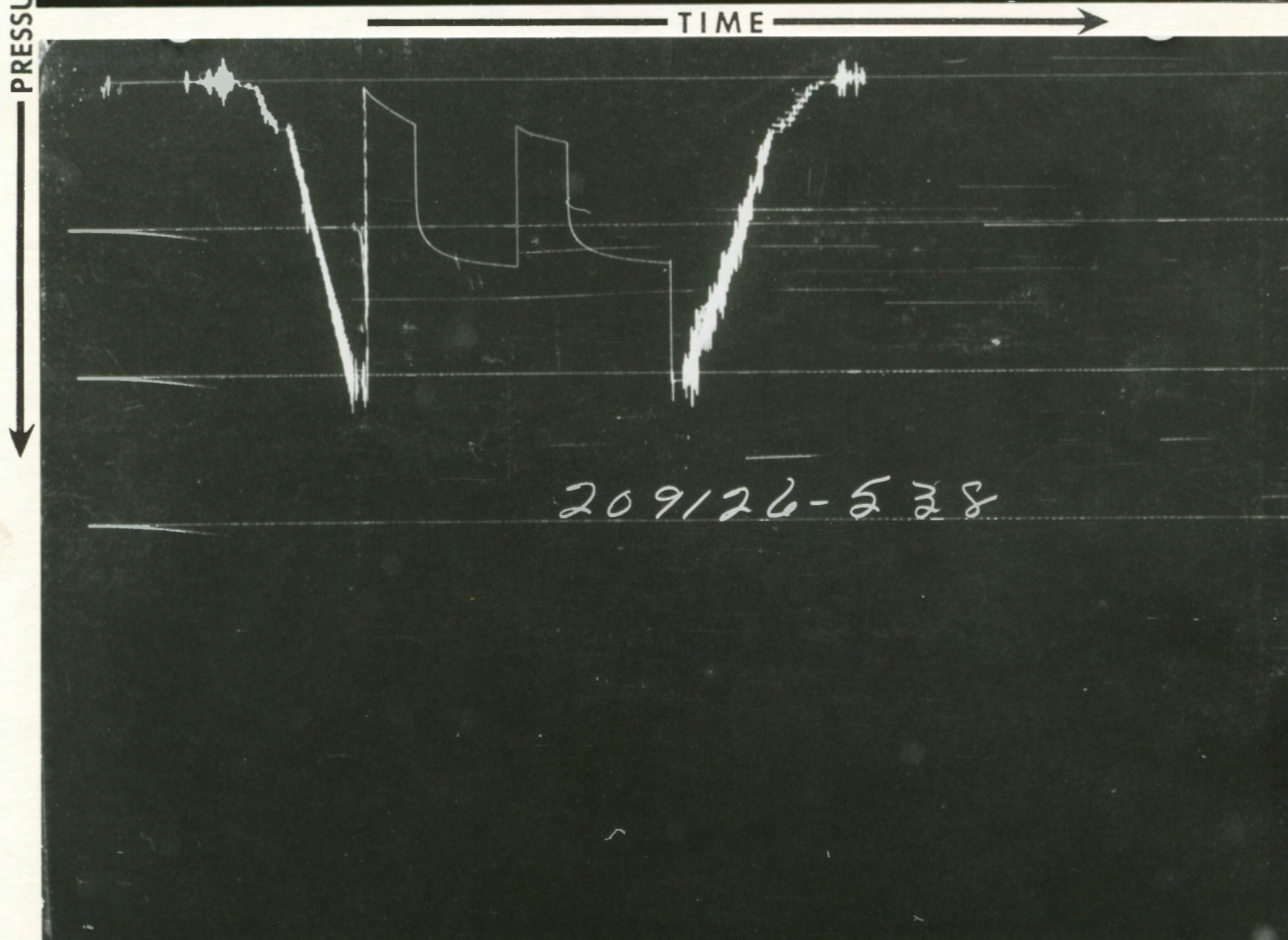
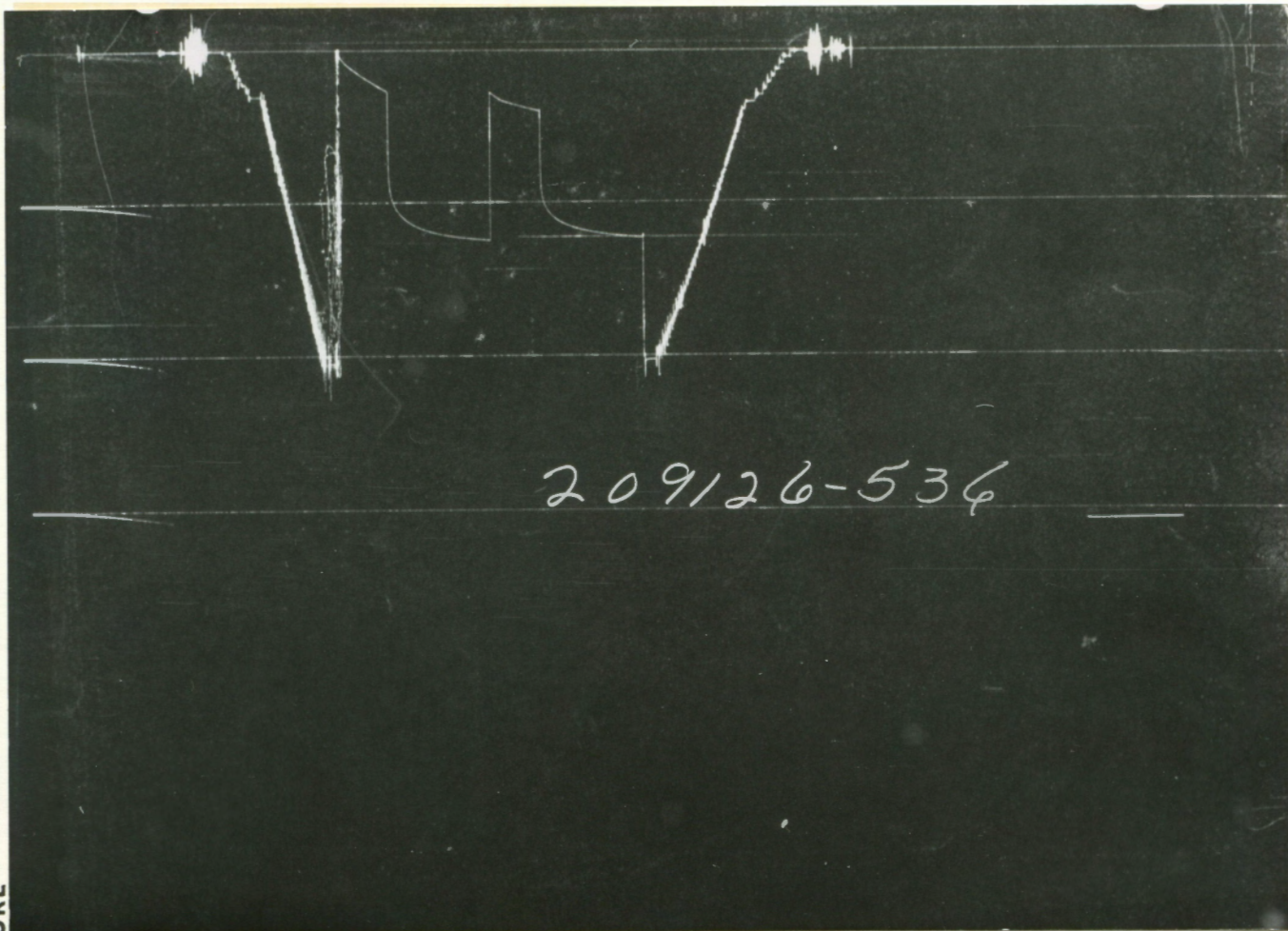
Gauge No. 540			Depth 4128'			Clock No. -			12 hour	Ticket No. 209442					
First Flow Period			First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	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.
0	.000	22	.000		274	.000	303	.000		361					
1	.0338	80	.0393		1138	.0328	318	.0395		1138					
2	.0676	133	.0786		1179	.0656	318	.0790		1176					
3	.1014	181	.1179		1196	.0984	321	.1185		1190					
4	.1352	219	.1572		1207	.1312	334	.1580		1199					
5	.1690	255	.1965		1212	.1640	347	.1975		1203					
6	.1960	274*	.2358		1219	.1970	361	.2370		1207					
7			.2751		1221			.2765		1208					
8			.3144		1223			.3160		1210					
9			.3537		1223			.3555		1211					
10			.4000		1223**			.3950		1212					
11															
12															
13															
14															
15															

Gauge No. 513			Depth 4171'			Clock No. -			hour 12				
0	.000	38	.000		285	.000	322	.000		372			
1	.0336	95	.0398		1140	.033	337	.0401		1149			
2	.0672	147	.0796		1188	.066	337	.0802		1186			
3	.1008	192	.1194		1208	.099	340	.1203		1199			
4	.1344	232	.1592		1216	.132	352	.1604		1208			
5	.1680	267	.1990		1223	.165	365	.2005		1215			
6	.1950	285*	.2388		1226	.198	372	.2406		1216			
7			.2786		1228			.2807		1218			
8			.3184		1229			.3208		1219			
9			.3582		1231			.3609		1221			
10			.4050		1233**			.4010		1223			
11													
12													
13													
14													
15													
Reading Interval 5		6		5		6						Minutes	

REMARKS: * Last interval equal to 4 minutes **=7 minutes.

209442

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	6"	3.8"	1'	
Water Cushion Valve				
Drill Pipe	4½"	3.826"	3515'	
Drill Collars		2.25"	602'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	6'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4123'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4128'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	4'	4144'
Distributor				
Packer Assembly	6 3/4"	1.53"	4'	4148'
Flush Joint Anchor	5"	2.37"	23'	
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				
Blanked-Off B.T. Running Case	5"	2.44"	4'	4171'



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

ESPAÑA

Lease Name

1
Well No.3
Test No.4284'-4330'
Tested IntervalYUCCA PETROLEUM COMPANY
Lease Owner/Company NameLegal Location
Sec. - Twp. - Rng.

22-T32 S-31W

Field Area
MASSONI

County

SEWARD

State

KANSAS

FLUID SAMPLER DATA				Date 8-17-70		Ticket Number 209126	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District LIBERAL	
Recovery: Cu. Ft. Gas _____				Tester MR. SHAUERS		Witness MR. MC CONNELL	
cc. Oil _____				Drilling Contractor STICKLE DRILLING COMPANY DR S			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested Toronto			
Tot. Liquid cc. _____				Elevation 2790' Est. KB			
Gravity _____ ° API @ _____ °F.				Net Productive Interval 24'			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing			
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth 4330'			
Recovery Water _____ @ _____ °F. _____ ppm				Main Hole/Casing Size 12 1/2"-8 5/8"			
Recovery Mud _____ @ _____ °F. _____ ppm				Drill Collar Length 665' I.D. 2 1/4"			
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm				Drill Pipe Length 3584' I.D. 3,826"			
Mud Pit Sample _____ @ _____ °F. _____ ppm				Packer Depth(s) 4278'-4284'			
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm				Depth Tester Valve 4259'			
Mud Weight _____ vis _____ cp							
TYPE		AMOUNT		Depth Back		Surface	
Cushion				Ft. Pres. Valve		Choke 1" Bottom Choke 75"	
Recovered	818	Feet of salt water		Mea. From Tester Valve			
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks Opened tool for 30 minute first flow. Closed tool for 60 minute first closed in pressure. Reopened tool for 30 minute second flow. Closed tool for 60 minute second closed in pressure.							
TEMPERATURE		Gauge No. 536		Gauge No. 538		Gauge No.	
Depth:		4260 Ft.		4327 Ft.		Ft.	
Est. 112 °F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Blanked Off No		Blanked Off Yes		Blanked Off			
Actual °F.		Pressures		Pressures		Pressures	
		Field Office		Field Office		Field Office	
Initial Hydrostatic		2021 2059		2050 2069			
First Period	Flow Initial	33 25		50 63			
	Flow Final	265 273		283 305			
	Closed in	1250 1239		1281 1270			
Second Period	Flow Initial	281 278		283 323			
	Flow Final	364 397		450 432			
	Closed in	1250 1225		1281 1253			
Third Period	Flow Initial						
	Flow Final						
Final Hydrostatic		2005 2018		2033 2045			

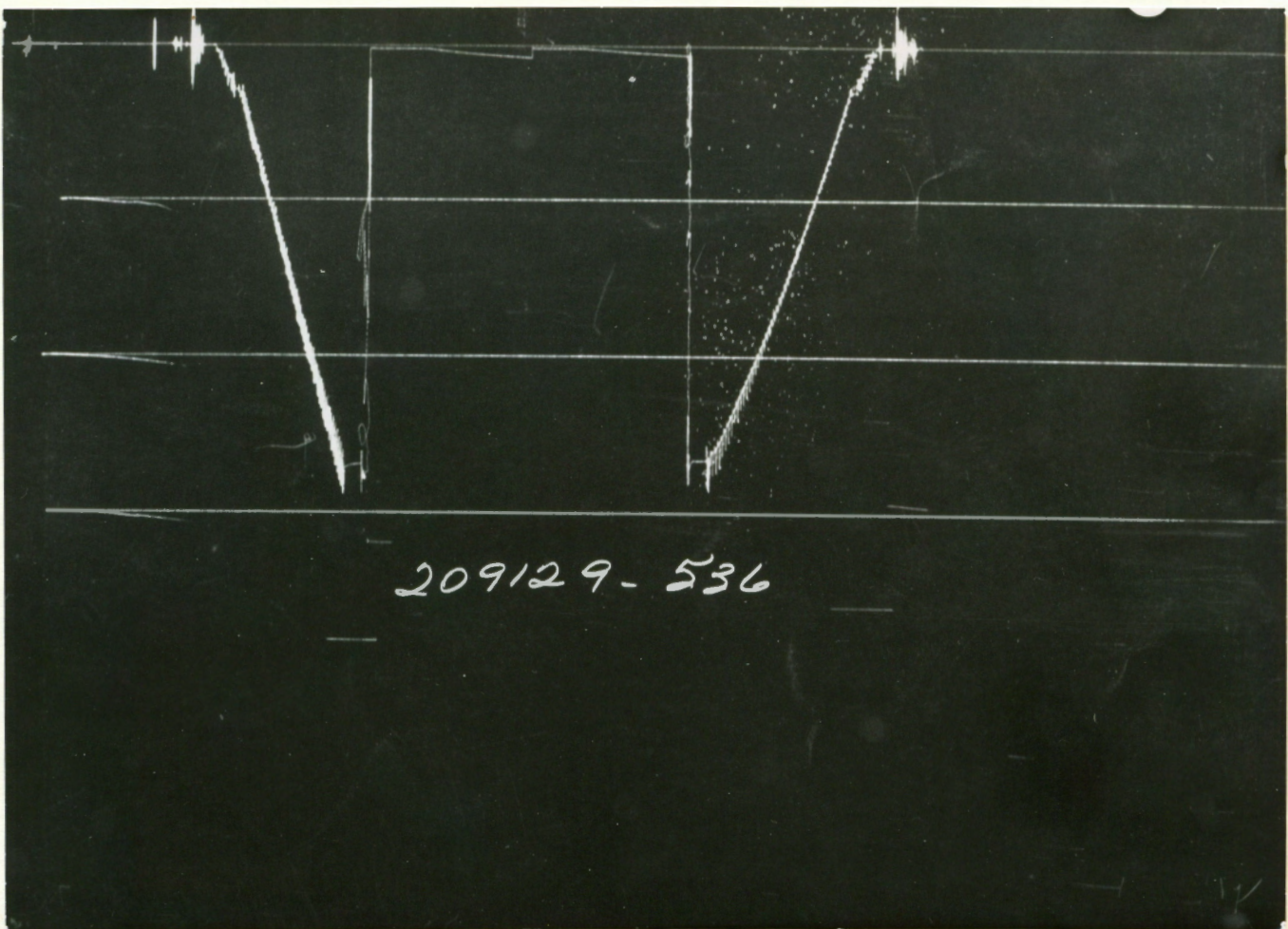
Gauge No. 536			Depth 4260'			Clock No. 3461			12 hour		Ticket No. 209126				
First Flow Period			First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	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	25	.000		273	.000	278	.000		397					
1	.0335	86	.0408		1054	.0332	316	.0410		1069					
2	.0670	131	.0816		1121	.0664	339	.0820		1123					
3	.1005	172	.1224		1159	.0996	356	.1230		1152					
4	.1340	207	.1632		1184	.1328	371	.1640		1172					
5	.1675	242	.2040		1199	.1660	384	.2050		1187					
6	.2010	273	.2448		1211	.1990	397	.2460		1198					
7			.2856		1221			.2870		1208					
8			.3264		1228			.3280		1215					
9			.3672		1236			.3690		1221					
10			.4080		1239			.4100		1225					
11															
12															
13															
14															
15															

Gauge No. 538			Depth 4327'		Clock No. 2595		hour 12						
0	.000	63	.000	305	.000	323	.000	432					
1	.0345	117	.0413	1088	.0343	352	.0416	1097					
2	.0690	160	.0826	1153	.0686	375	.0832	1152					
3	.1035	202	.1239	1187	.1029	390	.1248	1182					
4	.1380	238	.1652	1212	.1372	407	.1664	1202					
5	.1725	273	.2065	1228	.1715	420	.2080	1215					
6	.2070	305	.2478	1238	.2060	432	.2496	1227					
7			.2891	1250			.2912	1235					
8			.3304	1258			.3328	1242					
9			.3717	1263			.3744	1248					
10			.4130	1270			.4160	1253					
11													
12													
13													
14													
15													
Reading Interval 5			6		5		6		Minutes				

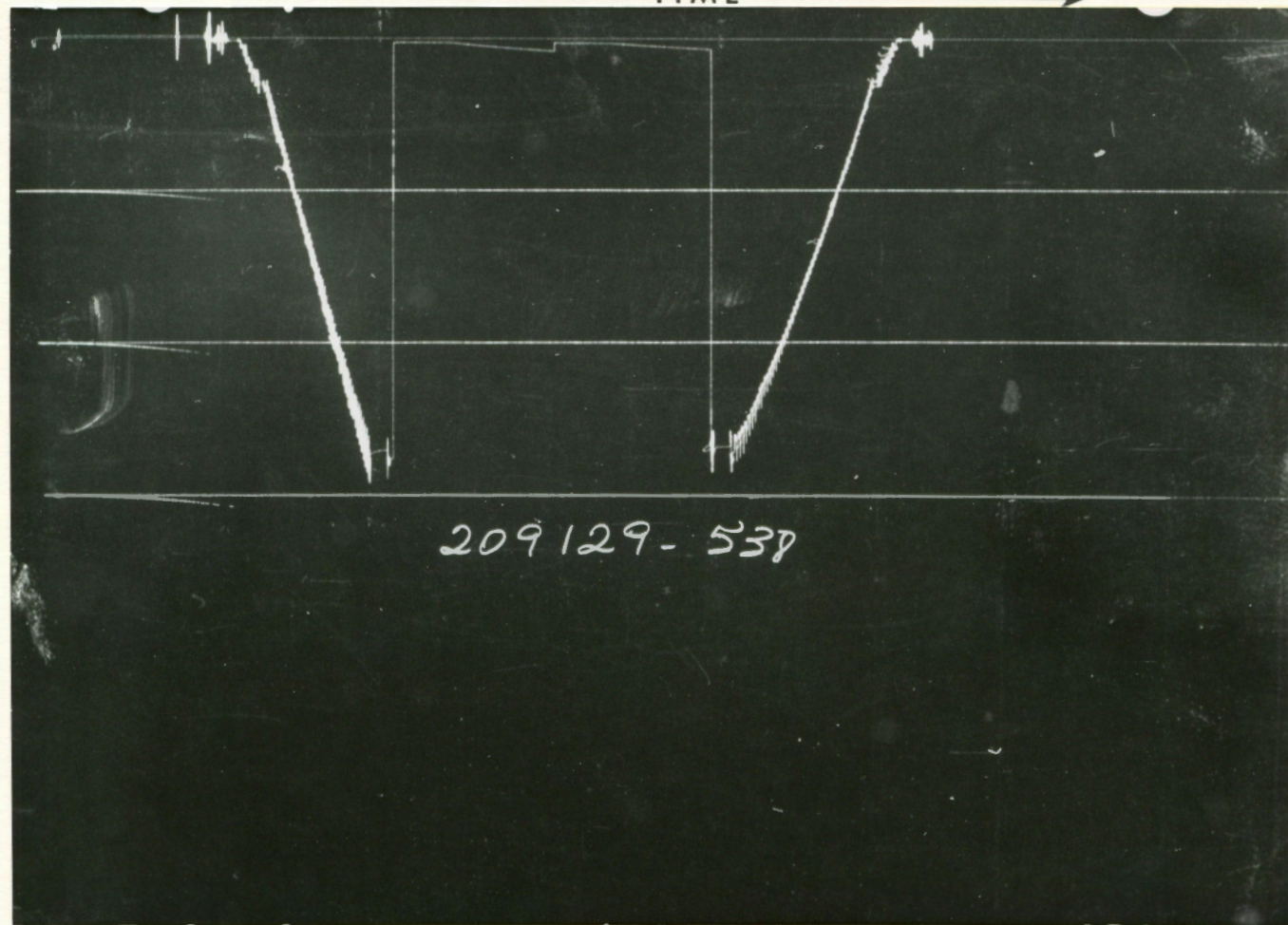
REMARKS:

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	6"	3.8"	1'	
Water Cushion Valve				
Drill Pipe	4½"	3.826"	3584'	
Drill Collars	6"	2½"	665'	
Handling Sub & Choke Assembly	5"	.87"	6'	
Dual CIP Valve				
Dual CIP Sampler	5"	.75"	5'	4259'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4260'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	5'10"	4278'
Distributor				
Packer Assembly	6 3/4"	1.53"	5'10"	4284'
Flush Joint Anchor	5"	2.37"	42'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	3.25"	4'	4327'
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
↓



209129-536



209129-538

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

FLUID SAMPLER DATA				Date 8-23-70		Ticket Number 209129	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District LIBERAL	
Recovery: Cu. Ft. Gas _____				Tester MR. SHAUERS		Witness MR. MC CONNELL	
cc. Oil _____				Drilling Contractor STICKLE DRILLING COMPANY IC			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested Chester Sand			
Tot. Liquid cc. _____				Elevation 2790' KB estimated Ft.			
Gravity _____ ° API @ _____ °F.				Net Productive Interval 8' Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing			
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth 5726' Ft.			
Recovery Water _____ @ _____ °F. _____ ppm				Main Hole/Casing Size 12 1/4" x 8 5/8" 1640'			
Recovery Mud _____ @ _____ °F. _____ ppm				Drill Collar Length 665' I.D. 2.25"			
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm				Drill Pipe Length 5016' I.D. 3.826"			
Mud Pit Sample _____ @ _____ °F. _____ ppm				Packer Depth(s) 5708' - 5714' Ft.			
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm				Depth Tester Valve 5692' Ft.			
Mud Weight 8.9 vis 45 cp							
TYPE		AMOUNT		Depth Back		Surface	
Cushion		-		Ft. Pres. Valve -		Choke 1" Bottom Choke .75"	
Recovered		25 Feet of		Drilling mud			
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks Opened tool for 34 minute first flow. Closed tool for 60 minute initial closed in pressure. Reopened tool for 30 minute second flow. Closed tool for 60 minute second closed in pressure.							
TEMPERATURE		Gauge No. 536		Gauge No. 538		Gauge No.	
Depth:		5693' Ft.		5723' Ft.		Ft.	
Est. 119 °F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Blanked Off NO		Blanked Off YES		Blanked Off		Tool A.M. 5:21 P.M.	
Actual °F.		Pressures		Pressures		Tool A.M. 8:25 P.M.	
		Field Office		Field Office		Reported Computed	
Initial Hydrostatic		2659 2690		2719 2702		Minutes Minutes	
First Period	Flow Initial	3 20		3 32			
	Flow Final	3 20		3 28		34	
	Closed in	83 78		83 82		60	
Second Period	Flow Initial	3 13		3 28			
	Flow Final	9 17		10 32		30	
	Closed in	66 60		67 70		60	
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic		2643 2657		2685 2671			

Legal Location Sec. - Twp. - Rng. 22 - 32S - 31W

Lease Name ESPANNA

Well No. 1

Test No. 6

Field Area MASSONT

County SEWARD

State KANSAS

Tested Interval 5714' - 5726'

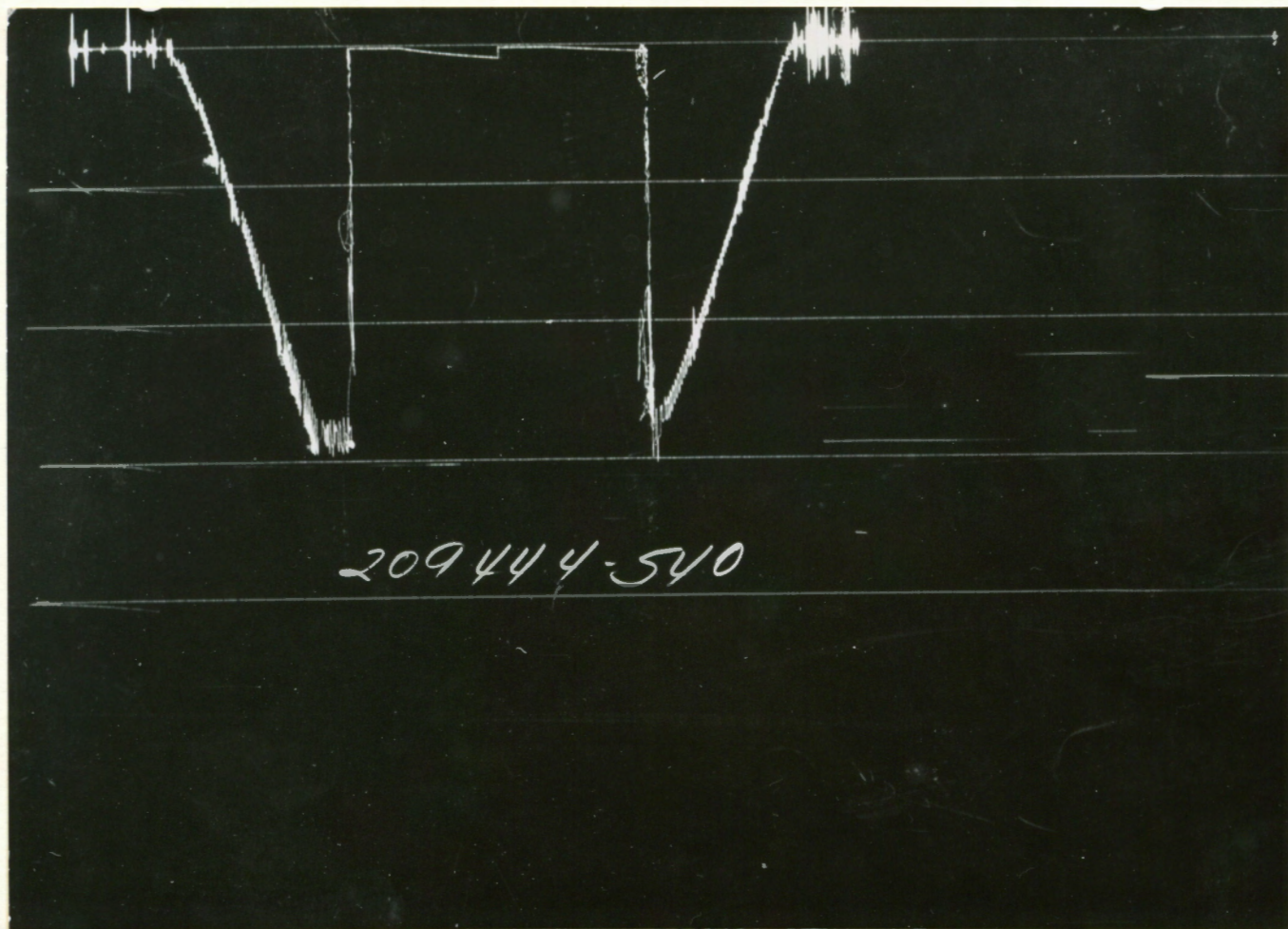
YUCCA PETROLEUM COMPANY

Lease Owner/Company Name



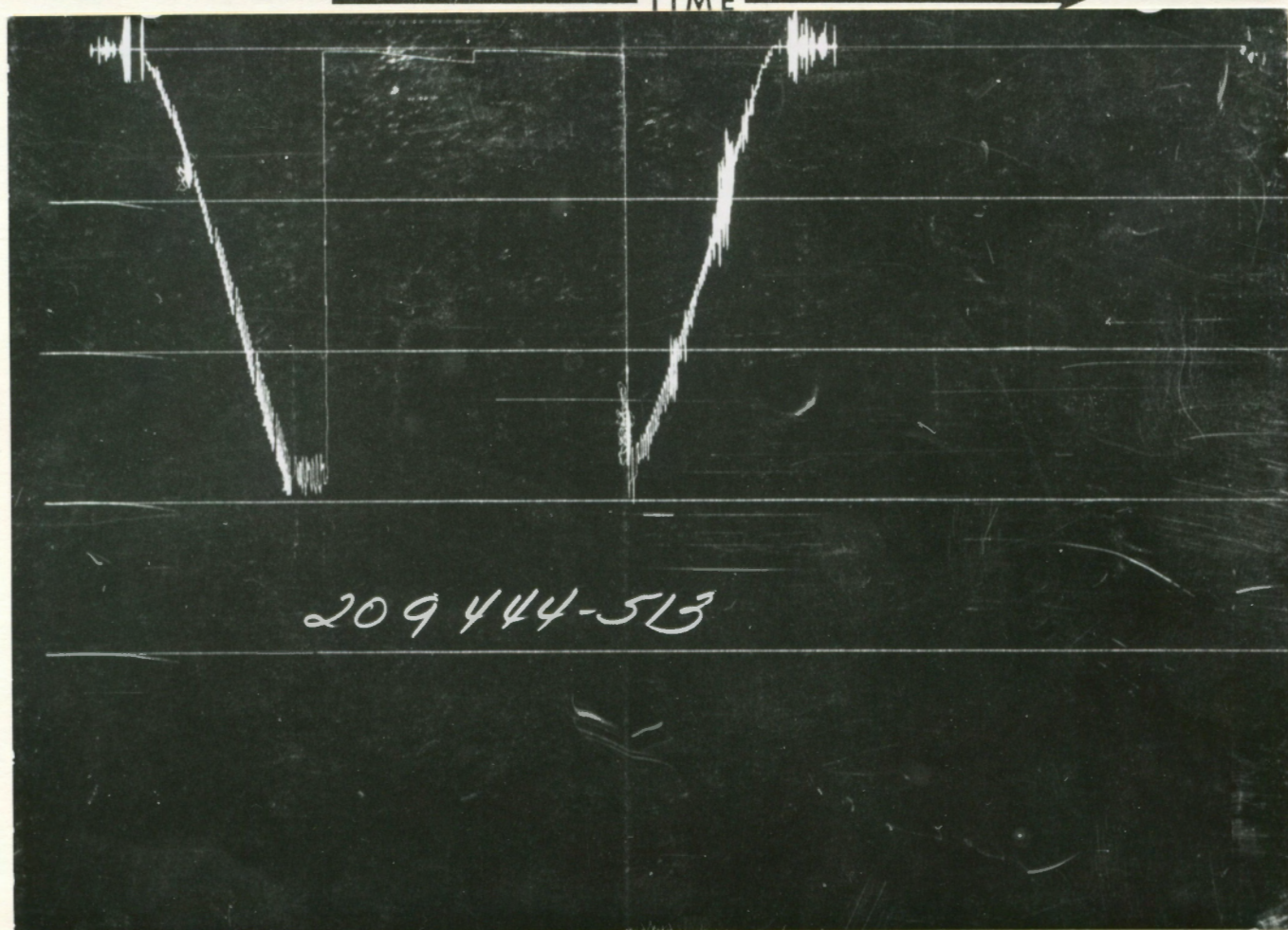
	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	6"	3.8"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	5016'	
Drill Collars	6"	2.25"	665'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	6'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	5692'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	5693'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	5'10"	5708'
Distributor				
Packer Assembly	6.75"	1.53"	5'10"	5714'
Flush Joint Anchor	5"	2.37"	8'	
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				
Blanked-Off B.T. Running Case	5"	2.44"	4'	5723'

↓ PRESSURE



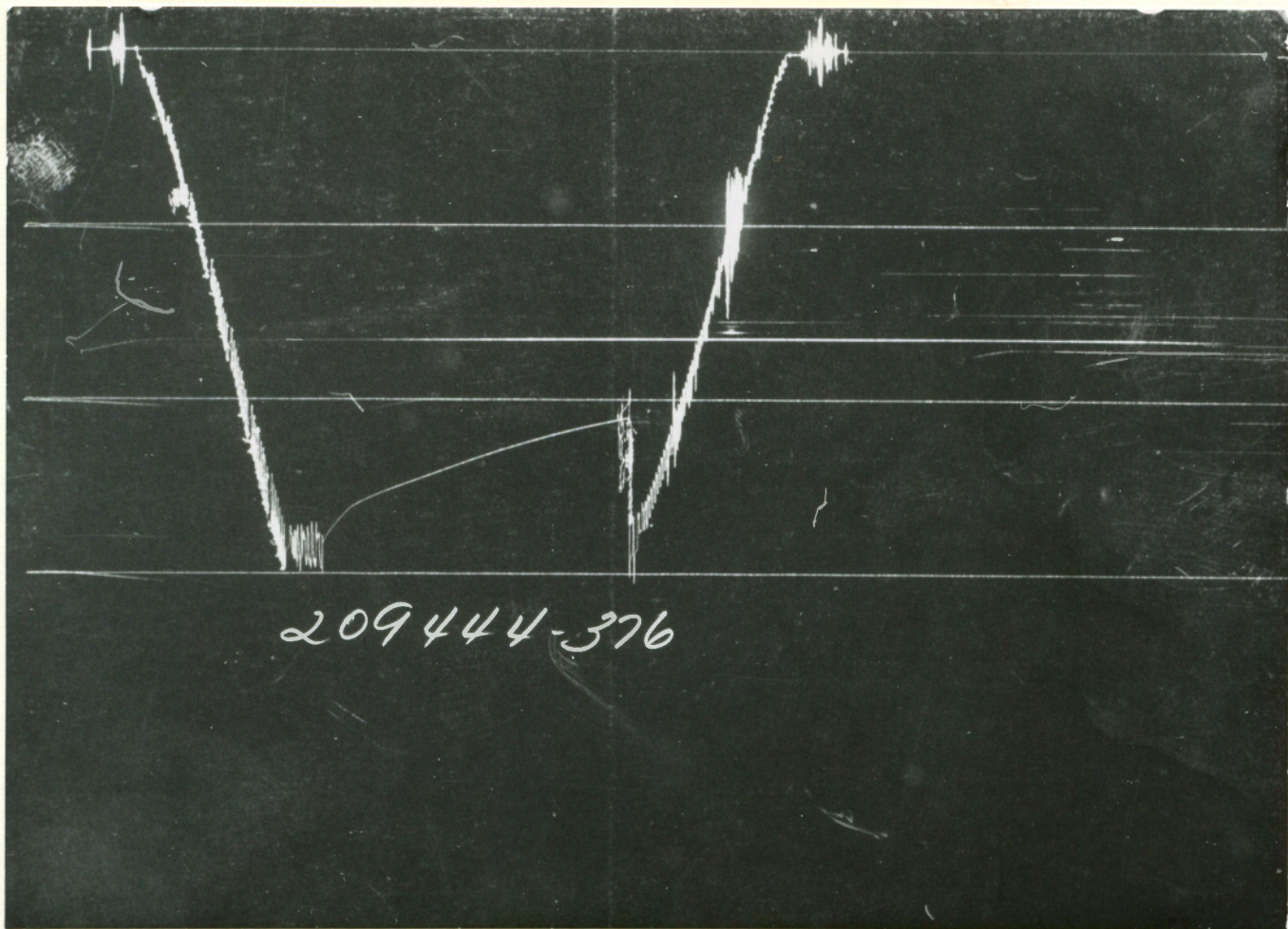
209444-540

TIME →



209444-513

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



209444-376

FLUID SAMPLER DATA				Date 8-26-70		Ticket Number 209444	
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.				Kind of Job STRADDLE OPEN HOLE		Halliburton District LIBERAL	
				Tester B.O' NEAL		Witness DEL ROBERTS	
				Drilling Contractor STICKLE DRILLING COMPANY SM			
EQUIPMENT & HOLE DATA							
				Formation Tested St. Genevieve			
				Elevation 2790' Est. _____ Ft.			
				Net Productive Interval _____ Ft.			
				All Depths Measured From Kelly bushing			
				Total Depth 6090' _____ Ft.			
				Main Hole/Casing Size 7 7/8"			
				Drill Collar Length 316' I.D. 2.25"			
				Drill Pipe Length 5435' I.D. 3.826"			
				Packer Depth(s) 5778-5820' _____ Ft.			
				Depth Tester Valve 5757' _____ Ft.			
TYPE		AMOUNT		Depth Back Pres. Valve		Surface Choke	
Cushion				5757'		1/4"	
						Bottom Choke 3/4"	
Recovered 15		Feet of drilling mud		Meo. From Tester Valve			
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks Tool opened with a very weak blow for 30 minute first flow. Closed for 60 minute first closed in pressure. Tool reopened with a weak blow for 30 minute second flow. Took 60 minute second closed in pressure.							
TEMPERATURE		Gauge No. 540 Depth: 5762 Ft.		Gauge No. 513 Depth: 5788 Ft.		Gauge No. 376 Depth: 5830 Ft.	
		12 Hour Clock		12 Hour Clock		12 Hour Clock	
Est. °F.		Blanked Off no		Blanked Off yes		Blanked Off yes	
Actual 126°F.		Pressures		Pressures		Pressures	
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic		2756	2864	2764	2859	-	2782
First Period	Flow Initial	3	29	3	32		
	Flow Final	3	20	3	20		
	Closed in	91	97	83	93		
Second Period	Flow Initial	3	18	3	22	Hydrostatic	
	Flow Final	4	29	3	18	Release	
	Closed in	55	53	50	50	2101	
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic		2738	2855	2747	2852	-	2745

 Legal Location
 Sec. - Twp. - Rng.

22 32S 31W

 Lease Name
 ESPANA

 Well No.
 1

 Test No.
 8

 Tested Interval
 5778-5820'

 Field Area
 MASSONI

 County
 SEWARD

 State
 KANSAS

 Lease Owner/Company Name
 YUCCA PETROLEUM COMPANY

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4½"	3.826"	5435'	
Drill Collars	-	2.25"	316'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	6'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	5757'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	5762'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	4'	5778'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2.37"	38'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	3.06"	4'	5788'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly	6 3/4"	1.53"	4'	5820'
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor	6 3/4"	1.62"	5' 2"	5824'
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case	5"	2.44"	4'	5830'