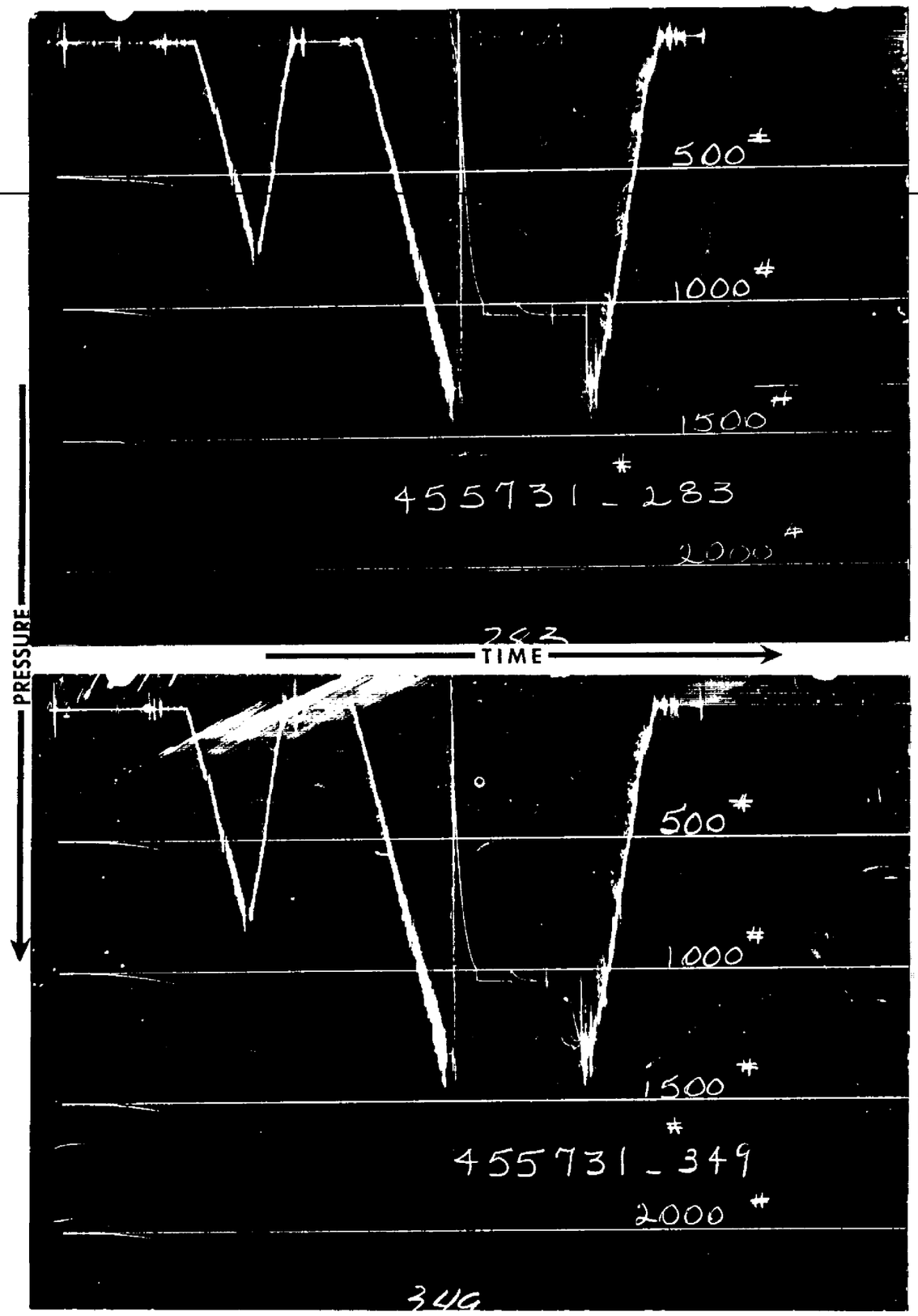
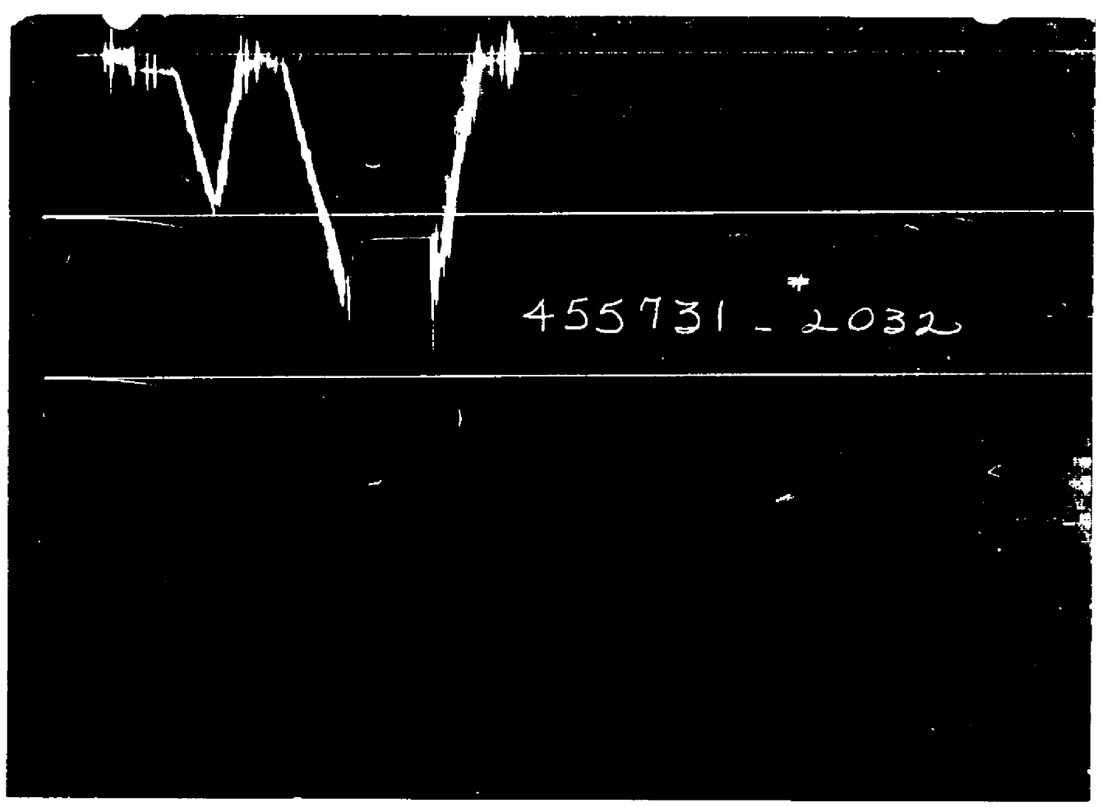


Each Horizontal Line Equal to 1000 p.s.i.



NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= Approximate Radius of Investigation (Net Pay Zone h_1)	Feet
D.R.	= Damage Ratio	——
El	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h_1	= Net Pay Thickness	Feet
K	= Permeability	md
K_1	= Permeability (From Net Pay Zone h_1)	md
m	= Slope Extrapolated Pressure Plot (Psi^2/cycle Gas)	psi/cycle
OF_1	= Maximum Indicated Flow Rate	MCF/D
OF_2	= Minimum Indicated Flow Rate	MCF/D
OF_3	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF_4	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_F	= Final Flow Pressure	Psig.
P_{of}	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q_1	= 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.

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 vis	42 cp	

Date 10-6-71 Ticket Number 455731
Kind of Job STRADDLE TEST OPEN HOLE Halliburton District FARMINGTON
Tester DAVIS Witness -
Drilling Contractor STEWART BROTHERS DRILLING COMPANY

EQUIPMENT & HOLE DATA

Formation Tested Dakota DE Zone
Elevation G.L. 6550' Ft.
Net Productive Interval 12' Ft.
All Depths Measured From Rotary Kelly Bushing
Total Depth 2710' Ft.
Main Hole/Casing Size 6¼"
Drill Collar Length 60' I.D. 1.25"
Drill Pipe Length 2479' I.D. 2.151"
Packer Depth(s) 2559' - 2564' - 2576' Ft.
Depth Tester Valve 2525' Ft.

Cushion TYPE NONE AMOUNT Ft. Depth Back Pres. Valve NONE Surface Choke ¼" Bottom Choke .62"

Recoverec 500' Feet of mud
Recoverec 1910' Feet of fresh water
Recovered Feet of
Recovered Feet of
Recovered Feet of

Meas. From Tester Valve

Remarks Tool opened with a strong blow for a 20 minute first flow. Rotated tool for a 30 minute first closed in pressure. Tool reopened with a good blow - decreasing until dead in 30 minutes. Took a 30 minute second closed in pressure.

TEMPERATURE	Gauge No. 283 Depth: 2539' Ft.	Gauge No. 349 Depth: 2570' Ft.	Gauge No. 2032 Depth: 2706' Ft.	TIME
	12 Hour Clock	12 Hour Clock	24 Hour Clock	Tool Opened 1800 A.M. P.M.
Est. °F.	Blanked Off ??	Blanked Off YES	Blanked Off YES	Tool Closed 1950 A.M. P.M.
Actual 90 °F.	Pressures	Pressures	Pressures	

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		1317.4	1310	1319.9	1314	-	1402		
First Period	Flow - Initial	?	222	?	307	-	-	——	——
	Flow - Final	990.8	993	1001.3	994	-	-	20	20
	Closed in	1043.8	1039	1025.9	1041	-	-	30	30
Second Period	Flow - Initial	1003.9	1001	1001.3	1001	-	-	——	——
	Flow - Final	1043.9	1039	1041.2	1042	-	-	30	30
	Closed in	1043.0	1042	1041.2	1043	HYDROSTATIC RELEASE:		30	30
Third Period	Flow - Initial						1139	——	——
	Flow - Final								
	Closed in								
Final Hydrostatic		1304.3	1298	1306.7	1298	-	1380	——	——

Legal Location Sec. - Twp. - Rng. 11 - 16N - 7W
Lease Name FERNANDEZ
Well No. 1
Test No. 1
Tested Interval 2564' - 2576'
Field Area WILDCAT
County MC KINLEY
State NEW MEXICO
Lease Owner/Company Name SHAR - ALAN OIL COMPANY

Gauge No.	283	Depth	2559'	Clock No.	1778	12 hour	Ticket No.	455731

	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	222	.000		993	.000	1001	.000		1039					
1	.025	548	.020		1035	.0337	1021	.198		1042					
2	.050	760	.040		1037	.0674	1032								
3	.075	888	.060		1037	.1011	1036								
4	.100	957	.080		1037	.1348	1038								
5	.125	993	.100		1038	.1685	1039								
6			.120		1039	.202	1039								
7			.140		1039										
8			.160		1039										
9			.180		1039										
10			.200		1039										
11															
12															
13															
14															
15															

Gauge No.	349		Depth	2564'	Clock No.	2313	hour	12					
0	.000	307	.000		994	.000	1001	.000		1042					
1	.0264	543	.020		1037	.034	1023	.200		1043					
2	.0528	759	.040		1039	.068	1034								
3	.0792	883	.060		1040	.102	1039								
4	.1056	956	.080		1041	.136	1040								
5	.132	994	.100		1041	.170	1042								
6			.120		1041	.204	1042								
7			.140		1041										
8			.160		1041										
9			.180		1041										
10			.200		1041										
11															
12															
13															
14															
15															

Reading Interval	4	3	5					Minutes

REMARKS:

SPECIAL PRESSURE DATA

455731

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub				
Water Cushion Valve				
Drill Pipe	2 7/8"	2.151"	2479'	
Drill Collars	6"	1.25"	60'	
Handling Sub & Choke Assembly				
Dual CIP Valve	3.90"	.87"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	3.90"	.62"	4'	2525'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	3.75"		4'	2539'
Hydraulic Jar	3.8"	.75"	5'	
VR Safety Joint	3.88"	.75"	2'	
Pressure Equalizing Crossover				
Packer Assembly	5½"	.50"	5'	2559'
Distributor				
Packer Assembly	5½"	.50"	5'	2564'
Flush Joint Anchor	3 3/4"	2.00"	12'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case			4'	2570'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly	5½"	.50"	5'	2576'
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	4"	1.50"	127	
Flush Joint Anchor	3 3/4"	2.00"	2'	
Blanked-Off B.T. Running Case	3 3/4"	-	5'	2706'