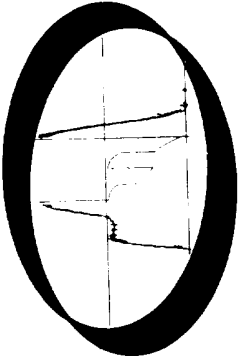
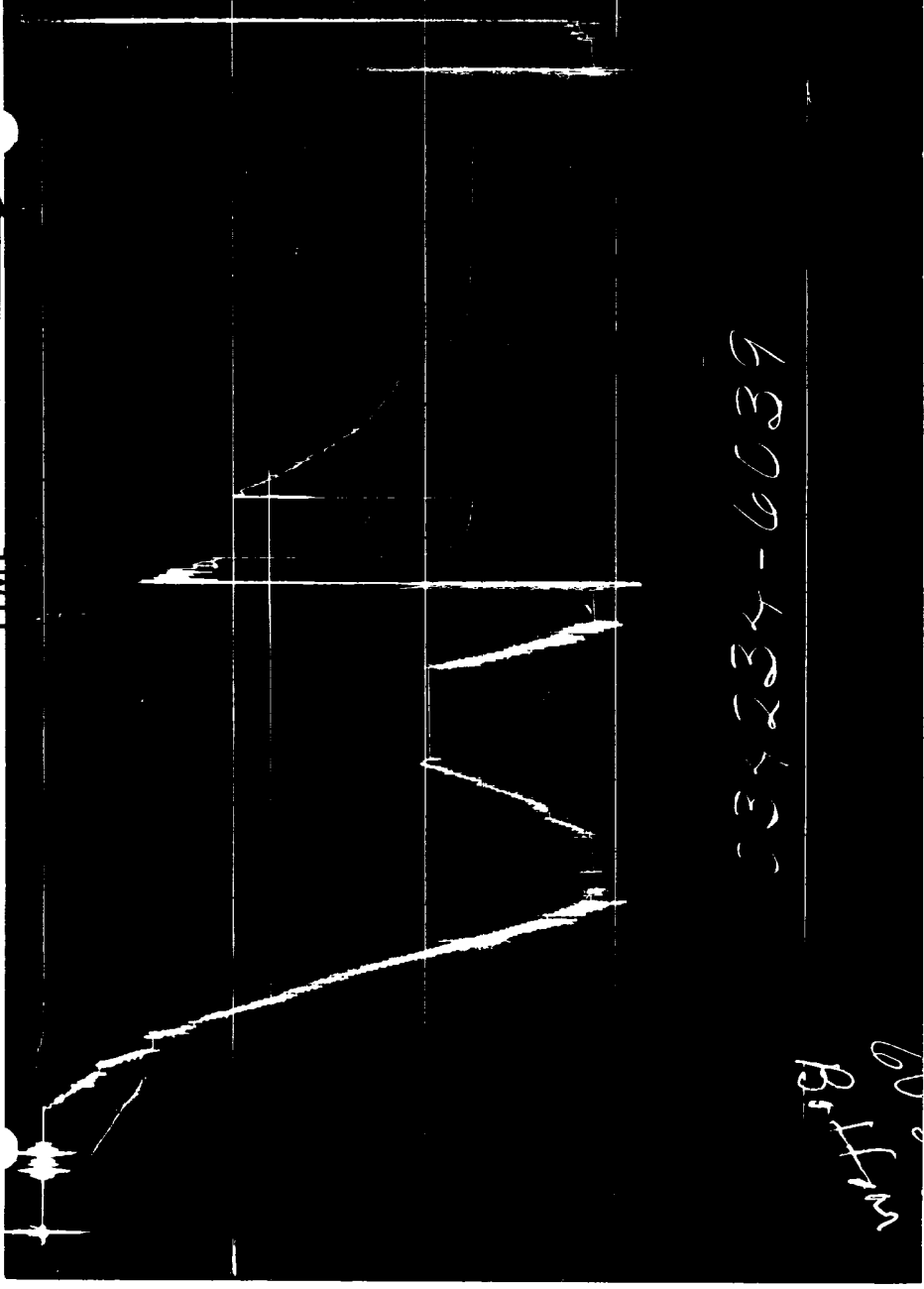
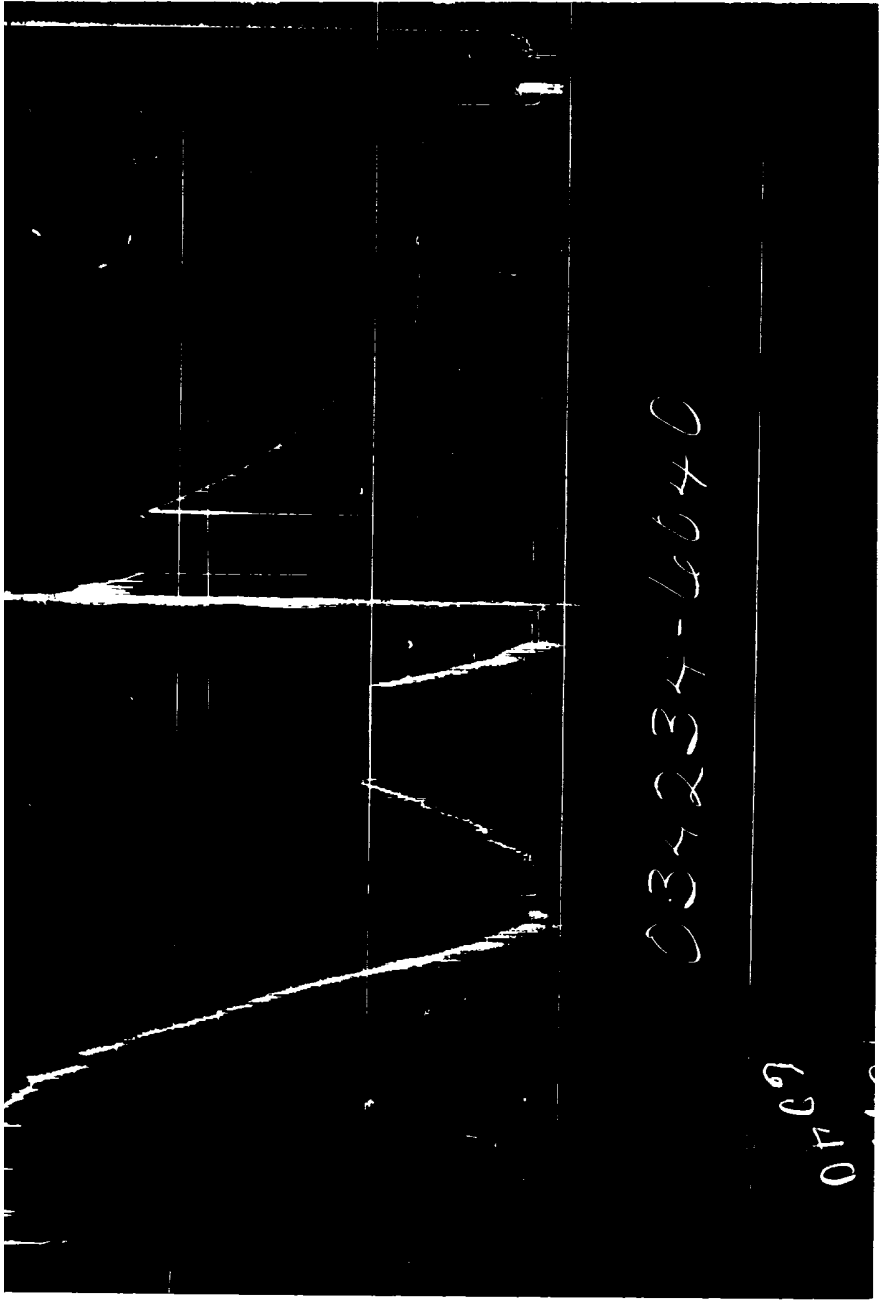


Formation Testing Service Report



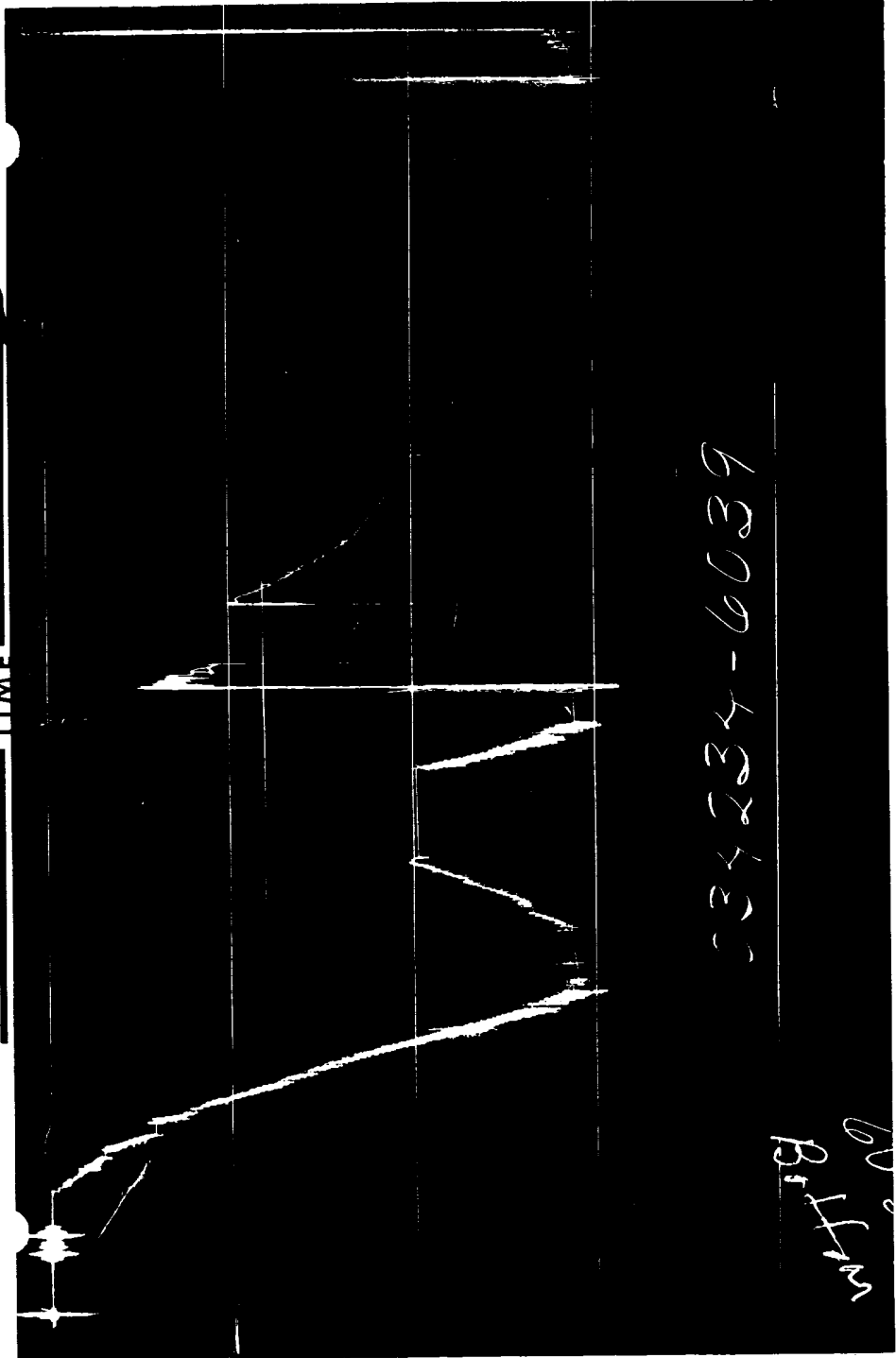
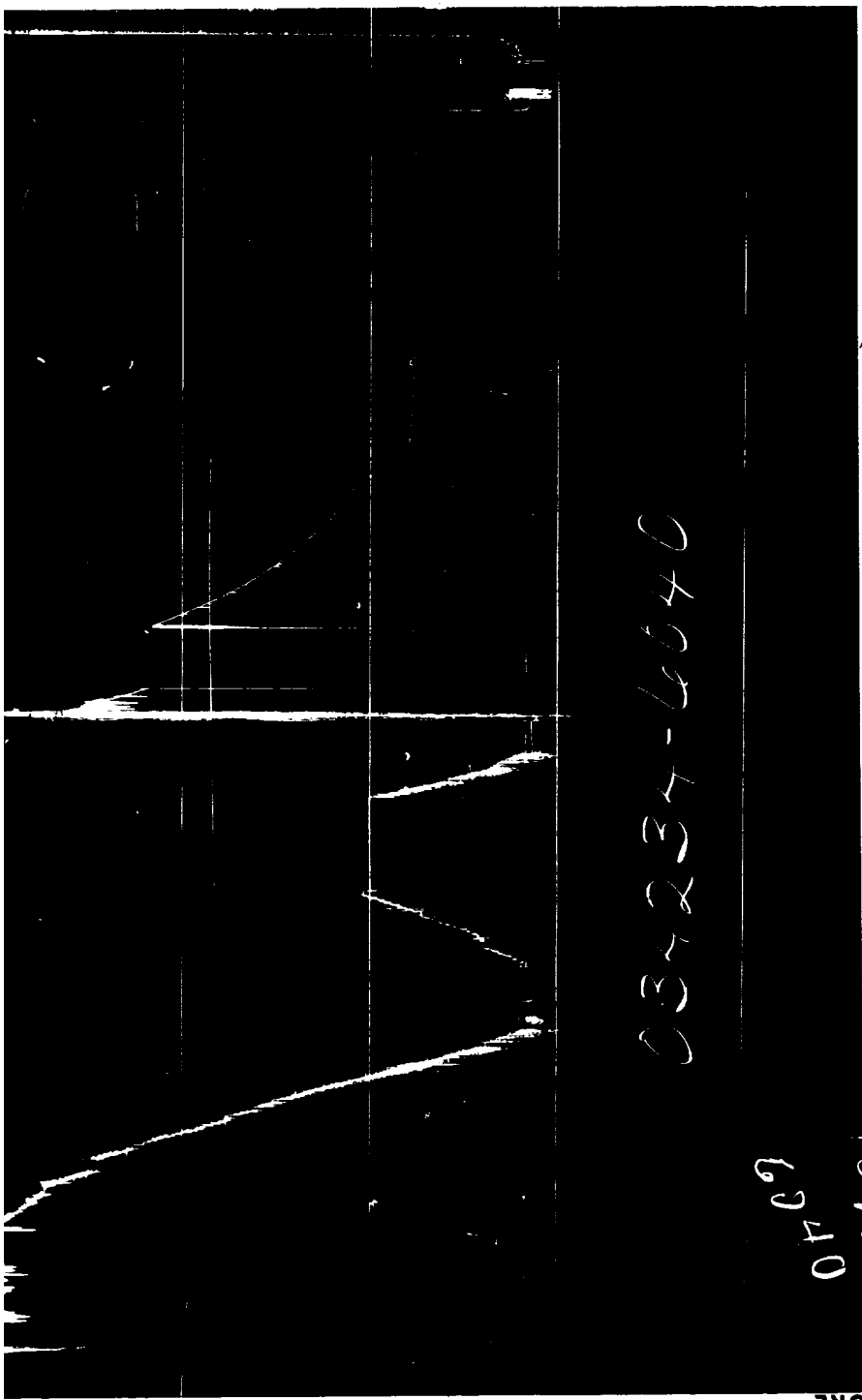


Each Horizontal Line Equal to 1000 p.s.i.

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_{ot}	=	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.

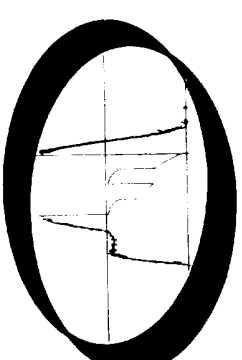


NOMENCLATURE

b	=	Approximate Radius of Investigation	Feet
b₁	=	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
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.

Formation Testing Service Report



11111

TIGHT HOLE.....

FLUID SAMPLE DATA				Date 7-18-75		Ticket Number 034234	
Sampler Pressure 25 P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District FARMINGTON	
Recovery: Cu. Ft. Gas None				Tester MR. SMITH		Witness MR. MOORE	
cc. Oil None				Drilling Contractor SIGNAL DRILLING COMPANY BC S			
cc. Water 2150				EQUIPMENT & HOLE DATA			
cc. Mud				Formation Tested Entrado			
Tot. Liquid cc. 2150				Elevation 6912' Ft.			
Gravity ° API @ °F.				Net Productive Interval 16' Ft.			
Gas/Oil Ratio cu. ft./bbl.				All Depths Measured From Rotary Kelly Bushing			
RESISTIVITY CHLORIDE CONTENT				Total Depth 5920' Ft.			
Recovery Water .630 @ 86 °F. 9,000 ppm				Main Hole/Casing Size 8 3/4"			
Recovery Mud @ °F. ppm				Drill Collar Length 555' I.D. 2 1/4"			
Recovery Mud Filtrate @ °F. ppm				Drill Pipe Length 5310' I.D. 3.826"			
Mud Pit Sample @ °F. ppm				Packer Depth(s) 5899' - 5904' Ft.			
Mud Pit Sample Filtrate @ °F. ppm				Depth Tester Valve 5885' Ft.			
Mud Weight 9.2 vis 63 cp							
TYPE		AMOUNT		Depth Back Pres. Valve		Surface Choke 3/4" ADJ. Bottom Choke 3/4"	
Cushion							
Recovered 200		Feet of Drilling mud					
Recovered 4200		Feet of Salt water					
Recovered		Feet of		CHARTS INDICATE PARTIAL PLUGGING OF ANCHOR			
Recovered		Feet of		PERFORATIONS DURING FLOW PERIODS.....			
Recovered		Feet of		Slid 12' to bottom.....			
Remarks		Tool opened for a 15 minute first flow with a fair blow, increasing to a good blow in 4 minutes. Closed tool for 36 minute first closed in pressure.					
		Reopened tool for 91 minute second flow with a weak blow, increasing to a good blow in 5 minutes and remained the same throughout test. Closed tool for 150 minute second closed in pressure.					
TEMPERATURE		Gauge No. 6040		Gauge No. 6039		Gauge No.	
Depth:		5889' Ft.		5916' Ft.		Ft.	
Est. °F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Blanked Off NO		Blanked Off YES		Blanked Off		Tool A.M.	
Actual 164 °F.		Pressures		Pressures		Opened 0325 P.M.	
		Pressures		Pressures		Opened A.M.	
		Pressures		Pressures		Bypass 0817 P.M.	
		Field Office		Field Office		Reported Computed	
Initial Hydrostatic		2843 2865		2845 2880		Minutes Minutes	
First Period Flow Initial		318 208		500 497			
Final		765 793		921 911			
Closed in		2157 2234		2237 2252		15 15	
Second Period Flow Initial		844 843		974 993		37 36	
Final		1946 1958		2000 1997		90 91	
Closed in		2233 2243		2237 2255		150 150	
Third Period Flow Initial							
Final							
Closed in							
Final Hydrostatic		2843 2854		2845 2865			

Legal Location
Sec. - Twp. - Rng. 19 - 20N - 2WFEDERAL 19
Lease NameWell No. 1
Test No. 15904' - 5920'
Tested IntervalField Area
Meo. From Tester Valve

WILDCAT

County SANDOVAL

FILON EXPLORATION CORPORATION
Lease Owner/Company Name

State NEW MEXICO

Gauge No.		6040		Depth		5889'		Clock No.		14121		12 hour		Ticket No.		034234	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Third Flow Period		Closed In Pressure		Third Flow Period		Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0	.0000 208	.0000		.0000	793	.0000	843	.0000		.0000		.0000	1958				
1	.0206 405	.0203		.1062	2017	.1062	1144*	.0670		.0670		.0670	2189				
2	.0412 510	.0407		.2058	2111	.2058	1394	.1340		.1340		.1340	2208				
3	.0618 568	.0610		.3053	2152	.3053	1591	.2010		.2010		.2010	2218				
4	.0824 728	.0813		.4049	2177	.4049	1739	.2680		.2680		.2680	2224				
5	.1030 793	.1017		.5044	2193	.5044	1864	.3350		.3350		.3350	2228				
6		.1220		.6040	2204	.6040	1958	.4020		.4020		.4020	2231				
7		.1423			2214			.4690		.4690		.4690	2234				
8		.1627			2219			.5360		.5360		.5360	2235				
9		.1830			2224			.6030		.6030		.6030	2237				
10		.2033			2228			.6700		.6700		.6700	2239				
11		.2237			2232			.7370		.7370		.7370	2239				
12		.2440			2234			.8040		.8040		.8040	2240				
13								.8710		.8710		.8710	2241				
14								.9380		.9380		.9380	2243				
15								1.0050		1.0050		1.0050	2243				

Gauge No.		6039		Depth		5916'		Clock No.		10444		12 hour	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Third Flow Period		Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0	.0000 497	.0000		.0000	911	.0000	993	.0000		.0000		.0000	1997
1	.0204 614	.0201		.1062	2053	.1062	1279*	.0669		.0669		.0669	2206
2	.0408 701	.0402		.2058	2135	.2058	1522	.1338		.1338		.1338	2226
3	.0612 791	.0602		.3053	2174	.3053	1714	.2007		.2007		.2007	2234
4	.0816 846	.0803		.4049	2197	.4049	1822	.2676		.2676		.2676	2237
5	.1020 911	.1004		.5044	2211	.5044	1914	.3345		.3345		.3345	2243
6		.1205		.6040	2223	.6040	1997	.4014		.4014		.4014	2245
7		.1406			2231			.4683		.4683		.4683	2248
8		.1606			2237			.5352		.5352		.5352	2251
9		.1807			2241			.6021		.6021		.6021	2251
10		.2008			2247			.6690		.6690		.6690	2252
11		.2209			2249			.7359		.7359		.7359	2253
12		.2410			2252			.8028		.8028		.8028	2255
13								.8697		.8697		.8697	2255
14								.9366		.9366		.9366	2255
15								1.0040		1.0040		1.0040	2255

Reading Interval	3	3	15	10	Minutes
REMARKS:	*Interval = 16 minutes				

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6"	3"	1'	
Water Cushion Valve				
Drill Pipe	4½"	3.826"	5310'	
Drill Collars	6"	2¼"	555'	
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler	5"	-	7'	5880'
Hydro-Spring Tester	5"	¾"	5'	5885'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	-	4'	5889'
Hydraulic Jar	5"	1"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7½"	1½"	5'	5899'
Distributor				
Packer Assembly	7½"	1½"	5'	5904'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5 3/4"	2½"	10'	
Blanked-Off B.T. Running Case	5 3/4"	-	5'	5916'
Total Depth				5920'