

FLUID SAMPLE DATA				Date 2-25-72		Ticket Number 424277	
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 HAYS	
				Tester WEATHERBEE		Witness DIRKS	
Gravity _____ ° API @ _____ °F.				Drilling Contractor GARVEY DRILLING COMPANY # 12 NM S			
Gas/Oil Ratio _____ cu. ft./bbl.				EQUIPMENT & HOLE DATA			
				Formation Tested Lower Kansas City			
				Elevation 1995' K.B. _____ Ft.			
				Net Productive Interval 4' _____ Ft.			
				All Depths Measured From Kelly Bushing			
				Total Depth 3333' _____ Ft.			
				Main Hole/Casing Size 7 7/8"			
				Drill Collar Length 57.75' I.D. 2.25"			
				Drill Pipe Length 3243' I.D. 2.764" - 3.826"			
				Packer Depth(s) 3314' _____ Ft.			
				Depth Tester Valve 3311' _____ Ft.			
		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 vis 45 cp						
Cushion		TYRE NONE	AMOUNT	Depth Back Pres. Valve	NONE	Surface Choke 1/4"	Bottom Choke 3/4"
Recovered	40'	Feet of	oil cut mud				
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks Tool opened for a 31 minute first flow with a very weak blow with a gradual increase. Rotated tool for a 31 minute first closed in pressure. Tool reopened for a 29 minute second flow with a very weak blow with a gradual increase. Took a 59 minute second closed in pressure.							
TEMPERATURE		Gauge No. 514	Gauge No. 376	Gauge No.	TIME		
		Depth: 3316' Ft.	Depth: 3329' Ft.	Depth: _____ Ft.			
		12 Hour Clock	12 Hour Clock	Hour Clock			
Est. _____ °F.	Blanked Off NO	Blanked Off YES	Blanked Off				
3328' @					Tool A.M.		
Actual 97 °F.					Opened 14:30 P.M.		
	Pressures		Pressures		Tool A.M.		
					Closed 17:00 P.M.		
	Field	Office	Field	Office	Field	Office	Reported
							Computed
Initial Hydrostatic	-	1856	1869	1863			Minutes
First Period Flow	Initial	-	18	27	22		
	Final	-	24	32	28		
	Closed in	-	592	603	597	30	31
Second Period Flow	Initial	-	34	32	38		
	Final	-	33	36	37	30	29
	Closed in	-	620	622	625	60	59
Third Period Flow	Initial						
	Final						
Closed in							
Final Hydrostatic	-	1828	1851	1833			

PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S

Legal Location
Sec. - Twp. - Rng.

NW SW NE

18 - 13S - 16W

WILDCAT

County

ELLIS

State

KANSAS

VONVINTEL

B-1

1

3314' - 3333'

PETROLEUM, INCORPORATED

Lease Owner/Company Name

Lease Name

Well No.

Test No.

Tested Interval

Gauge No.		514	Depth	3316'	Clock No.	10288	12 hour	Ticket No.	424277				
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"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0	.000 18	.000	24	.000	34	.000	33						
1	.0340 18	.0204	33	.0352	28	.0279	48						
2	.0680 19	.0408	46	.0704	30	.0558	69						
3	.1020 20	.0612	62	.1056	31	.0837	108						
4	.1360 22	.0816	89	.1408	32	.1116	185						
5	.1700 23	.1020	135	.1760	32	.1395	346						
6	.211 24*	.1224	242	.204	33***	.1674	508						
7		.1428	425			.1953	572						
8		.1632	526			.2232	592						
9		.1836	568			.2511	601						
10		.211	592**			.2790	608						
11						.3069	611						
12						.3348	614						
13						.3627	617						
14						.3906	620						
15						.412	620****						

Gauge No.		376	Depth	3329'	Clock No.	7105	hour	12					
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"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0	.000 22	.000	28	.000	38	.000	37						
1	.0334 22	.0200	37	.0345	33	.0272	51						
2	.0668 23	.0400	49	.0690	34	.0544	75						
3	.1002 25	.0600	67	.1035	35	.0816	114						
4	.1336 26	.0800	91	.1380	36	.1088	194						
5	.1670 27	.1000	136	.1725	36	.1360	361						
6	.207 28*	.1200	242	.200	37***	.1632	522						
7		.1400	421			.1909	579						
8		.1600	533			.2176	597						
9		.1800	574			.2448	607						
10		.207	597**			.2720	612						
11						.2992	617						
12						.3264	619						
13						.3536	621						
14						.3808	624						
15						.401	625****						
Reading Interval 5		3			5		4		Minutes				

REMARKS: * INTERVAL = 6 MINUTES. ** INTERVAL = 4 MINUTES. *** INTERVAL = 4 MINUTES. **** INTERVAL = 3 MINUTES.

REMARKS: * INTERVAL = 6 MINUTES. ** INTERVAL = 4 MINUTES. *** INTERVAL = 4 MINUTES. **** INTERVAL = 3 MINUTES.

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	6.00"	3.00"	12.00"	
Water Cushion Valve				
Drill Pipe	3½"-4½"	2.764"-3.826"	3243'	
Drill Collars	6.0"	2.25"	57.75'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5.00"	.87"	65.00"	
Dual CIP Sampler				
Hydro-Spring Tester	5.00"	.75"	60.00"	3311'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5.00"	3.14"	48.00"	3316'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly				
Distributor				
Packer Assembly	6.75"	1.53"	54.00"	3314'
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	5.00"	3.24"	14.94'	
Blanked-Off B.T. Running Case	5.00"	2.75"	48.06"	3329'

TEMPERATURE
RECORDER
CHART



10° each circle

↑ PRESSURE ↓

424277-514

424277
514-7

TIME →

424277-376

424277
376-1

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

FLUID SAMPLE DATA				Date 2-26-72		Ticket Number 424278	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District HAYS	
Recovery: Cu. Ft. Gas _____				Tester MR. WEATHERBEE		Witness MR. DIRKS	
cc. Oil _____				Drilling Contractor GARVEY DRILLING COMPANY IC			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested Lower Kansas City			
Tot. Liquid cc. _____				Elevation 1995' KB			
Gravity _____ ° API @ _____ °F.				Net Productive Interval -			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing			
RESISTIVITY				Total Depth 3470'			
CHLORIDE CONTENT				Main Hole/Casing Size 7 7/8"			
Recovery Water @ _____ °F. _____ ppm				Drill Collar Length 1048' WP I.D. 2.764" WP			
Recovery Mud @ _____ °F. _____ ppm				Drill Pipe Length 2370' I.D. 3.826"			
Recovery Mud Filtrate @ _____ °F. _____ ppm				Packer Depth(s) 3431'			
Mud Pit Sample @ _____ °F. _____ ppm				Depth Tester Valve 3428'			
Mud Pit Sample Filtrate @ 10.1 vis 43 cp							
Mud Weight							
TYPE		AMOUNT		Depth Back		Surface	
Cushion -				Ft. Pres. Valve		Choke -	
Recovered 30		Feet of Mud					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks		Opened tool for 30 minute first flow with a very weak blow. Closed tool for 30 minute initial closed in pressure. Reopened tool for 30 minute second flow with a very weak blow - dead in 25 minutes. Closed tool for 60 minute second closed in pressure.					
TEMPERATURE		Gauge No. 514		Gauge No. 376		Gauge No.	
Depth:		3433' Ft.		3466' Ft.		Depth: Ft.	
Est. °F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Blanked Off NO		Blanked Off YES		Blanked Off		Tool A.M.	
3465'@						Opened 16:00 P.M.	
Actual 96 °F.		Pressures		Pressures		Tool A.M.	
						Closed 18:30 P.M.	
		Field Office		Field Office		Reported Computed	
Initial Hydrostatic		- 1901		1962 1918		Minutes Minutes	
First Flow Initial		- 19		27 35		- -	
First Flow Final		- 19		32 35		30 -	
First Flow Closed in		- 35		54 50		30 -	
Second Flow Initial		- 24		32 40		- -	
Second Flow Final		- 23		36 39		30 -	
Second Flow Closed in		- 42		59 56		60 -	
Third Flow Initial						- -	
Third Flow Final						- -	
Third Flow Closed in						- -	
Final Hydrostatic		- 1887		1952 1904		- -	

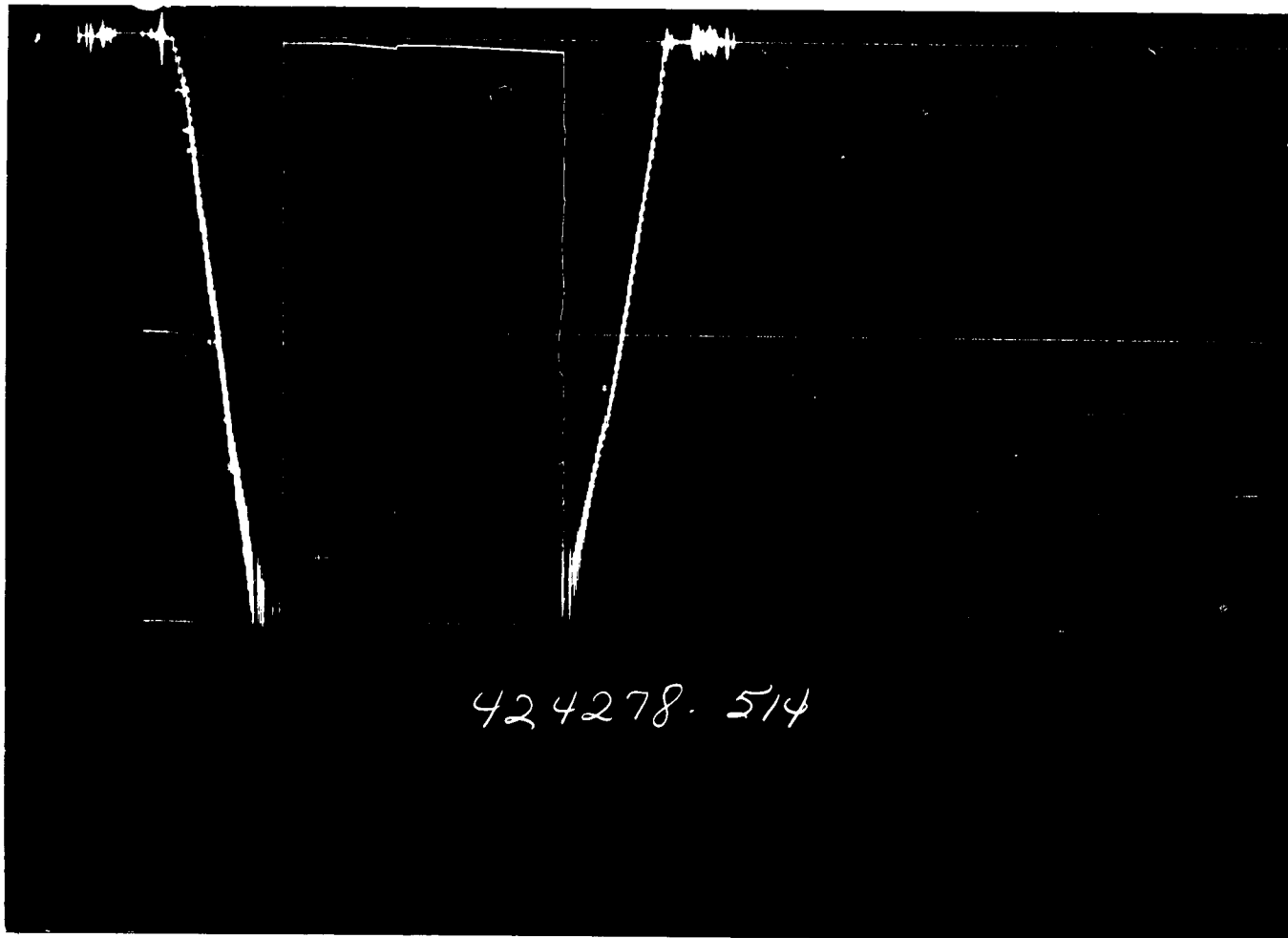
	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	6.0"	3.0"	12"	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	2370'	
Drill Collars	4.50"	2.764"	1048'	WEIGHT PIPE
Handling Sub & Choke Assembly				
Dual CIP Valve	5.0"	.87"	65"	
Dual CIP Sampler				
Hydro-Spring Tester	5.0"	.75"	60"	3428'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5.0"	3.14"	48"	3433'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly				
Distributor				
Packer Assembly	6.75"	1.53"	54"	3431'
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	5.0"	3.24"	34.94'	
Blanked-Off B.T. Running Case	5.0"	2.75"	48.06"	3466'

TEMPERATURE
RECORDER
CHART

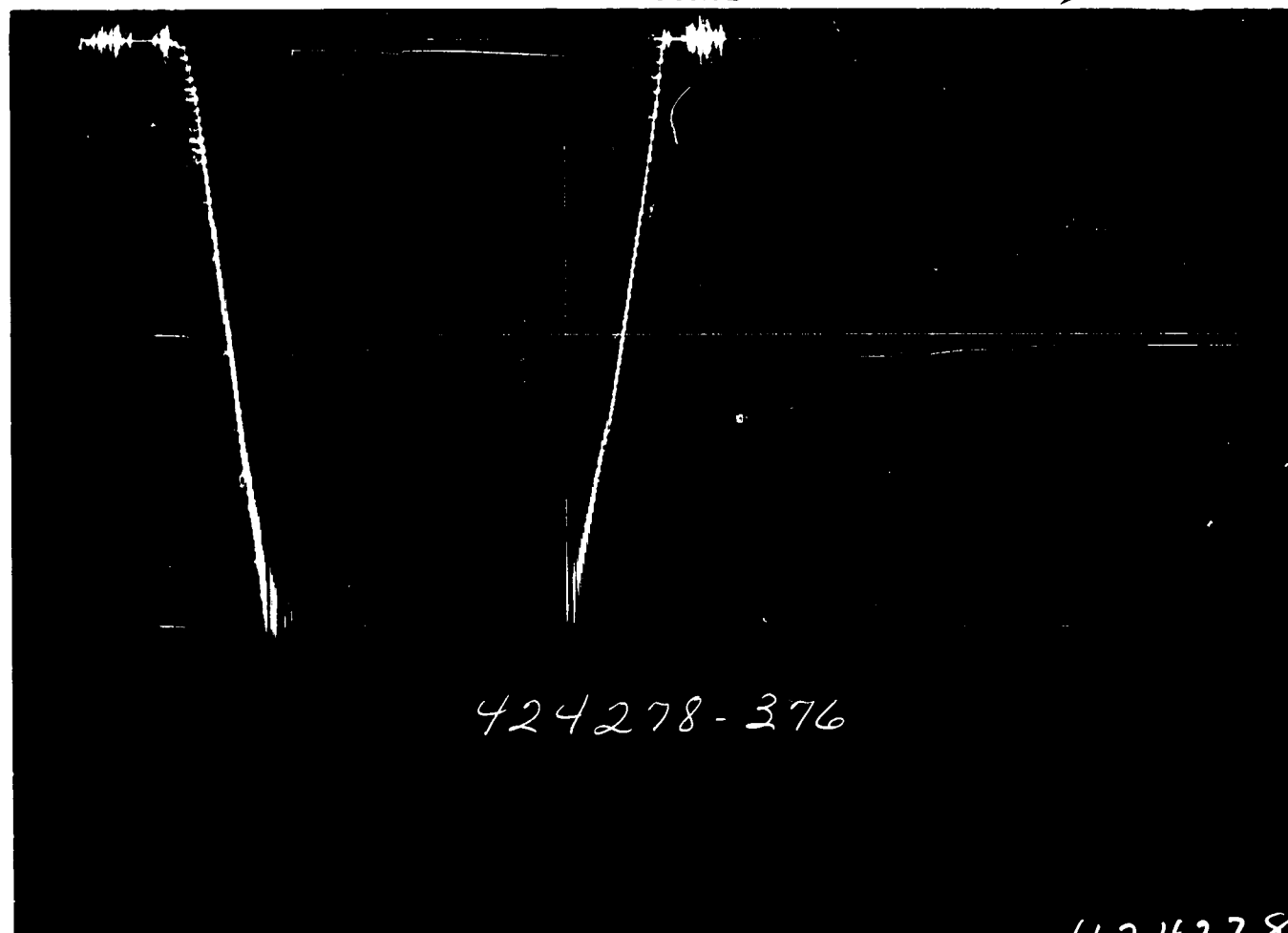


10° each circle

↓ PRESSURE



→ TIME



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

FLUID SAMPLE DATA				Date 2-28-72		Ticket Number 424279	
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 HAYS	
				Tester WEATHERBEE		Witness DIRKS	
				Drilling Contractor GARVEY DRILLING COMPANY # 12 NM S			
				EQUIPMENT & HOLE DATA			
				Formation Tested Conglomerate			
				Elevation 1995' K.B. Ft.			
				Net Productive Interval _____ Ft.			
				All Depths Measured From Kelly Bushing			
				Total Depth 3565' Ft.			
				Main Hole/Casing Size 7 7/8"			
				Drill Collar Length 1048'		I.D. 2.76"	
				Drill Pipe Length 2484'		I.D. ????	
				Packer Depth(s) 3462'		Ft.	
				Depth Tester Valve 3459'		Ft.	
		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 45 cp						
Cushion		TYPE NONE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke	
				NONE	1/4"	3/4"	
Recovered	2150'	Feet of	muddy salt water with trace of oil				
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks Tool opened with a strong blow for a 31 minute first flow. Rotated tool for a 31 minute first closed in pressure. Tool reopened with a strong blow for a 28 minute second flow. Took a 30 minute second closed in pressure.							
TEMPERATURE		Gauge No. 514	Gauge No. 376	Gauge No.	TIME		
		Depth: 3464' Ft.	Depth: 3561' Ft.	Depth:			
		12 Hour Clock	12 Hour Clock	Hour Clock			
Est. _____ °F.	Blanked Off NO	Blanked Off YES	Blanked Off		Tool Opened 0030 A.M. P.M.		
3560' @					Tool Closed 0230 A.M. P.M.		
Actual 102°F.	Pressures		Pressures		Pressures		
	Field	Office	Field	Office	Field	Office	
Initial Hydrostatic	-	1979	2017	2023			Reported Minutes
First Period Flow	Initial	-	502	612			Minutes
	Final	-	793	832			
	Closed in	-	898	938			30 31
Second Period Flow	Initial	-	819	859			
	Final	-	882	921			30 28
	Closed in	-	910	949			30 30
Third Period Flow	Initial						
	Final						
	Closed in						
Final Hydrostatic	-	1896	2008	1934			

 Legal Location
 Sec. - Twp. - Rng.

 Lease Name
18 - 13S - 16W NW-SW-NE

 Well No.
3

 Test No.
3482' - 3565'

Tested Interval

 County
ELLIS

 State
KANSAS

 Lease Owner/Company Name
PETROLEUM, INCORPORATED

VONLINTEL

B-1

3

3482' - 3565'

PETROLEUM, INCORPORATED

Gauge No.		514		Depth		3464'		Clock No.		10288		12hour		Ticket No.		424279	
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	.000 502Q	.000		.000	819	.000		.000		.000							
1	.0331 592	.0070		.029	828	.0070		.0070		.0070							
2	.0662 635	.0140		.058	845	.0140		.0140		.0140							
3	.0993 683	.0210		.087	858	.0210		.0210		.0210							
4	.1324 728	.0280		.116	867	.0280		.0280		.0280							
5	.1655 761	.0350		.145	873	.0350		.0350		.0350							
6	.205 793*	.0420		.174	879	.0420		.0420		.0420							
7		.0490		.203	882	.0490		.0490		.0490							
8		.0560				.0560		.0560		.0560							
9		.0630				.0630		.0630		.0630							
10		.0700				.0700		.0700		.0700							
11		.0979				.0979		.0980		.0980							
12		.1258				.1258		.1260		.1260							
13		.1537				.1537		.1540		.1540							
14		.1816				.1816		.1820		.1820							
15		.216				.216		.210		.210							

Gauge No.		376		Depth		3561'		Clock No.		7105		hour		12		Minutes	
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	.000 612Q	.000		.000	859	.000		.000		.000							
1	.0339 651	.0068		.0283	868	.0068		.0068		.0068							
2	.0678 683	.0136		.0566	885	.0136		.0136		.0136							
3	.1017 726	.0204		.0849	897	.0204		.0204		.0204							
4	.1356 767	.0272		.1132	906	.0272		.0272		.0272							
5	.1695 803	.0340		.1415	912	.0340		.0340		.0340							
6	.210 832*	.0408		.1698	917	.0408		.0408		.0408							
7		.0476		.198	921	.0476		.0476		.0476							
8		.0544				.0544		.0544		.0544							
9		.0612				.0612		.0612		.0612							
10		.0680				.0680		.0680		.0680							
11		.0951				.0951		.0951		.0951							
12		.1222				.1222		.1222		.1222							
13		.1493				.1493		.1493		.1493							
14		.1764				.1764		.1764		.1764							
15		.210				.210		.203		.203							
Reading Interval 5		**		4		***											

REMARKS: * INTERVAL = 6 MINUTES. ** FIRST 10 READINGS = 1 MINUTE EACH - NEXT 4 READINGS = 4 MINUTES EACH AND THE LAST
READING = 5 MINUTES. *** FIRST 10 READINGS = 1 MINUTE EACH AND THE LAST 5 READINGS = 4 MINUTES EACH. Q = QUESTIONABLE.

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	6.0"	3.00"	12.00"	
Water Cushion Valve				
Drill Pipe	-	-	2484'	
Drill Collars	4.50"	2.76"	1048'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5.00"	.87"	65.00"	
Dual CIP Sampler				
Hydro-Spring Tester	5.00"	.75"	60.00"	3459'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5.00"	3.14"	48.00"	3464'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly				
Distributor				
Packer Assembly	6.75"	1.53"	54.00"	3462'
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 * WEIGHT PIPE	4.50"	2.76"	63.44'	
Flush Joint Anchor	5"	3.24"	15.00'	
Blanked-Off B.T. Running Case	5"	2.75"	48.06"	3561'

TEMPERATURE
RECORDER
CHART



10° each circle

↑ PRESSURE ↓

424 279 - 517

424 279
511-3

TIME →

424 279 - 376

424 279
376-3

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