

15/8  
 Lease Name  
 Well No. 1  
 Test No. 1C  
 40/9-408M 4090-4093M  
 Tested Interval  
 County NORTH SEA  
 State NORWAY  
 Lease Owner/Company Name ESSO EXPL. & PROD. NORKWAX INC.

<b>FLUID SAMPLE DATA</b>		Date DEC 1ST 1981	Ticket Number 046928
Sampler Pressure _____ P.S.I.G. at Surface		Kind of Job CASED HOLE APR	Halliburton District TANANGER
Recovery: Cu. Ft. Gas _____		Tester GREEN/WILLET	Witness ROGERS
cc. Oil _____		Drilling Contractor GLOBAL MARINE	
cc. Water _____		<b>EQUIPMENT &amp; HOLE DATA</b>	
cc. Mud _____		Formation Tested TRIASSIC	
Tot. Liquid cc. _____		Elevation 82' Ft.	
Gravity _____ ° API @ _____ °F.		Net Productive Interval 9 M	
Gas/Oil Ratio _____ cu. ft./bbl.		All Depths Measured From RKB	
	RESISTIVITY	Total Depth 14006' Ft.	
	CHLORIDE CONTENT	Main Hole/Casing Size 7"	
Recovery Water _____ @ _____ °F. _____ ppm		Drill Collar Length _____ I.D. 2.25"	
Recovery Mud _____ @ _____ °F. _____ ppm		Drill Pipe Length _____ I.D. 2.75"	
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm		Packer Depth(s) 3929.8 M	
Mud Pit Sample _____ @ _____ °F. _____ ppm		Depth Tester Valve 3923.99 M	
Mud Pit Sample Filtrate 11.9 @ _____ °F. _____ ppm			
Aud Weight _____ vis _____ cp			

Cushion	TYPE WATER	AMOUNT FULL	Ft.	Depth Back Pres. Valve	Surface Choke	Bottom Choke
Recovered		Feet of				
Recovered		Feet of				
Recovered		Feet of				
Recovered		Feet of				
Recovered		Feet of				
Remarks						
STYLUS JUMPED BACKWARDS IN TIME AXIS SHORTLY AFTER THE START OF THE						
2ND FLOW.						
BAKER - LONDON LAB.						

TEMPERATURE	Gauge No. 5634		Gauge No.		Gauge No.		TIME	
	Depth: 3940 M		Depth:		Depth:			
Est. 254 °F.	14228 - 120 Hour Clock		Blanked Off		Blanked Off		Tool A.M. Opened P.M.	
Actual 275°F.	Pressures		Pressures		Pressures		Tool A.M. Closed P.M.	
	Field	Office	Field	Office	Field	Office	Reported	Computed
							Minutes	Minutes
Initial Hydrostatic	8190.28	8040						
First Period	Flow Initial	5547.54	5584					
	Flow Final	6315.74	6339				10	10
	Closed in	7574.88	7604				78	78
Second Period	Flow Initial	4714.25	6762					
	Flow Final	4746.95	4779				759	759
	Closed in	7434.22	7453				1210	1210
Third Period	Flow Initial							
	Flow Final							
	Closed in							
Final Hydrostatic	8052.68	8554						

Casing perms. \_\_\_\_\_ Bottom choke \_\_\_\_\_ Surf. temp. \_\_\_\_\_ °F Ticket No. \_\_\_\_\_  
 Gas gravity \_\_\_\_\_ Oil gravity \_\_\_\_\_ GOR \_\_\_\_\_  
 Spec. gravity \_\_\_\_\_ Chlorides \_\_\_\_\_ ppm Res. \_\_\_\_\_ @ \_\_\_\_\_ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED

Date	a.m.	Choke	Surface	Gas	Liquid	Remarks
Time	p.m.	Size	Pressure	Rate	Rate	
			psi	MCF	BPD	
DEC 1						
1330						PICK UP TAIL PIPE.
1345						INSTALL CUSTOMERS GAUGES.
1350						RUN 3 STDS TUBING.
1351						START STYLUS IN GAUGE 5634.
1425						PICK UP PKR. ASSEMBLY.
1505						PKR. THRU TABLE.
1510						PICK UP APR-N & APR-M.
1530						PICK UP 1 STD D.C. & PUMP GEL PILL.
1615						PICK BOTTOM SLIP JOINTS.
1640						PICK UP RTTS CIRC. VALVE.
1650						RUN 6 STDS DRILL COLALRS.
1735						PICK UP TOP SLIP JOINTS.
1745						PICK UP 1 STD 3½ TDS TUBING.
1746						FILL W/WATER.
1805						PRESSURE TEST DST ASSEM. TO 4800 PSI.
1820						GOOD TEST - KNOCK LINE LOOSE.
1830						RUN IN HOLE W/TUBING.
2350						TEST TO TOP APR- N - 6000 PSI SURFACE
DEC 2						
0015						RIH.
0630						TEST TO TOP OF APR-N - 6,000 PSI SURFACE.
						PICK UP SUB SEA TEST TREE.
0730						PICK UP LUBRICATOR.
0945						PICK UP SURFACE TEST TREE - INSTALL
						TEST LINES AND TEST SAME.

Casing perms. \_\_\_\_\_ Bottom choke \_\_\_\_\_ Surf. temp \_\_\_\_\_ °F Ticket No. \_\_\_\_\_  
 Gas gravity \_\_\_\_\_ Oil gravity \_\_\_\_\_ GOR \_\_\_\_\_  
 Spec. gravity \_\_\_\_\_ Chlorides \_\_\_\_\_ ppm Res. \_\_\_\_\_ @ \_\_\_\_\_ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
1300						TEST SSTT TO 5000 PSI SURFACE - GOOD
						TEST LUB. TO 5000PSI SURFACE - GOOD.
1758						SET PACKER @ 3929 METERS.
1809						CLOSE LOWER RAMS.
1828						PRESSURE ANNULUS TO 1700PSI - 21 STROKES.
						APR-N OPENED @ 800 PSI - AGAINST CLOSED
						MANIFOLD ON SURFACE.
1831		12/64				OPENED SURFACE MANIFOLD ON 12/64 VARIABLE
1838						CLOSE APR-N FOR 1ST SHUT-IN PRESSURE.
1956						OPEN APR-N.
2001		20/64	1150			VARIABLE CHOKE.
2004		24/64				
2006		"	495			VARIABLE.
2012		20/64				CHANGE TO SMALLER CHOKE - VARI.
2028		20/64				MANIFOLD PLUGGED.
2029		"				UNPLUGGED MANIFOLD.
2039		30/64				CHANGE CHOKE SIZE.
2040						GAS TO SURFACE W/MUD.
2101		40/64				VARIABLE.
2103			2000			
2115		44/64				VARIABLE.
2117			1930			
2125		48/64				VARIABLE.
2126			1760			
2135						THRU HEATER.
2152			1720			

Casing perms. \_\_\_\_\_ Bottom choke \_\_\_\_\_ Surf. temp. \_\_\_\_\_ °F Ticket No. \_\_\_\_\_  
 Gas gravity \_\_\_\_\_ Oil gravity \_\_\_\_\_ GOR \_\_\_\_\_  
 Spec. gravity \_\_\_\_\_ Chlorides \_\_\_\_\_ ppm Res. \_\_\_\_\_ @ \_\_\_\_\_ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
2222		48/64				FIXED CHOKE.
2310			1664			THRU SEP.
2315						MAKING 9% CO <sub>2</sub>
2330		"	1780			FIXED CHOKE.
2345		"	1782			FIXED CHOKE THRU SEPERATOR.
DEC 3						
0001		"	1785			FIXED CHOKE.
0030		"	1708			" "
0045		"	1711			" "
0100		"	1714			" "
0130		"	1714			" "
0200		"	1720			" "
0230		"	1722			" "
0300		"	1719			" "
0330		"	1719			" "
0400		"	1732			" "
0430		"	1732			" "
0500		"	1734			" "
0530		"	1836			" "
0600		"	1836			" "
0630		"	1790			" "
0700		"	1890			
0730		"	1860			
0800		"	1790			FIXED CHOKE.
0835						BLEED OFF ANNULUS. CLOSE APR-N.
						CLOSE IN CHOKE MANIFOLD ON TUBING.

Casing perms. \_\_\_\_\_ Bottom choke \_\_\_\_\_ Surf. temp \_\_\_\_\_ °F Ticket No. \_\_\_\_\_  
 Gas gravity \_\_\_\_\_ Oil gravity \_\_\_\_\_ GOR \_\_\_\_\_  
 Spec. gravity \_\_\_\_\_ Chlorides \_\_\_\_\_ ppm Res. \_\_\_\_\_ @ \_\_\_\_\_ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED \_\_\_\_\_

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
0840			1754			TUBING PRESSURE.
0900			1925			TUBING PRESSURE.
0930			1997			TUBING PRESSURE.
1000			2930			TUBING PRESSURE.
1030			3140			TUBING PRESSURE.
1100			3500			TUBING PRESSURE.
1130			3950			TUBING PRESSURE.
1345			4960			TUBING PRESSURE.
1357		34/64				OPEN ON VARI. CHOKE TO BLEED D.P. PRESSURE DOWN TO 1500 PSI.
1402		40/64				VARI. CHOKE.
1420		48/64				VARI. CHOKE.
1422		58/64				" "
1425						SHUT IN @ CHOKE MANIFOLD.
1426						CLOSE FLOW VALVE ON SURFACE TREE.
1437						OPEN KILL LINE VALVE.
1440						START PUMPING DOWN D.P. WITH 11.9 MUD TO APR-N TESTER VALVE.
1508						PUMPED 79 BBL MUD - 1500PSI BLED BACK 2 BBLs. PRESSURE 100 PSI.
1520						CLOSE KILL LINE.
1525			270			OPEN FLOW VALVE TO CLOSED IN CHOKE MANIFOLD
1558			700			STABILIZED ON SURFACE.
DEC 4						
0435			2000			PRESSURE UP ON ANNULUS. OPEN N-TOOL
0441						OPEN KILL VALVE ON FLOW TREE.



<u>DESCRIPTION</u>	<u>O.D.</u>	<u>I.D.</u>	<u>LENGTH</u>	<u>DEPTH</u>
BOTTOM OF SURFACE TREE				
X-OVER 4 $\frac{3}{8}$ 6SA B X 3 $\frac{1}{2}$ TDS P				
3 $\frac{1}{2}$ TDS TUBING				
X-OVER 3 $\frac{1}{2}$ TDS B X 4 $\frac{1}{2}$ SA P				
LUBRICATOR VALVE				
X-OVER 4 $\frac{1}{2}$ SA B X 3 $\frac{1}{2}$ TDS P				
3 $\frac{1}{2}$ TDS TUBING				
X-OVER 3 $\frac{1}{2}$ TDS B X 4 $\frac{1}{2}$ 4 SA P				
SUB SEA TEST TREE				
BOTTOM FLUTED HANGER				
X-OVER 4 $\frac{1}{2}$ SA B X 3 $\frac{1}{2}$ TDS P			.67	134.51
3 $\frac{1}{2}$ TDS TUBING	3.50	2.75	3536.20	3670.71
X-OVER 3 $\frac{1}{2}$ TDS B X 3 $\frac{1}{2}$ IF P			.40	3671.11
SLIP JOINT - OPEN	5.00	2.25	5.54	3676.65
SLIP JOINT - CLOSED	5.00	2.25	4.02	3680.67
4 $\frac{3}{4}$ DRILL COLLARS 6 STDS	4.75	2.25	171.10	3851.77
X-OVER 3 $\frac{1}{2}$ IF B X 2 $\frac{7}{8}$ EUE P	4.75	2.50	.23	3852.00
RTTS CIRC. VALVE	4.62	2.44	.99	3852.99
X-OVER 2 $\frac{7}{8}$ EUE B X 3 $\frac{1}{2}$ IF P	4.75	2.62	.20	3853.19
4 $\frac{3}{4}$ DRILL COLLARS 1 STDS	4.75	2.25	28.51	3881.70
SLIP JOINT -CLOSED	5.00	2.25	4.02	3885.72
SLIP JOINT - CLOSED	5.00	2.25	4.02	3889.64
4 $\frac{3}{4}$ DRILL COLLARS 1 STD	4.75	2.25	28.51	3918.25
APR-M SAFETY REV. VALVE	5.00	2.25	1.85	3920.10
APR-N TESTER VALVE	5.00	2.25	3.89	3923.99
FUL-FLO HYDRAULIC BY-PASS	4.62	2.25	2.08	3926.07
BIG JOHN JARS	4.62	2.37	1.58	3927.65
SAFETY JOINT	4.87	2.44	.82	3928.47
RTTS PACKER - ABOVE	5.75	.99	.51	3928.98
RTTS PACKER - BELOW	5.75	.99	.82	3929.80
X-OVER 2 $\frac{7}{8}$ EUE X p	3.00	2.40	.17	3929.97
PERF. TUBING		2.40	9.04	3939.01
X-OVER 2 $\frac{7}{8}$ EUE B X 2 $\frac{3}{8}$ EUE P	3.50	2.875	.30	3939.31
BLANKED OFF BT CARRIER	3.00		1.23	3940.54
2 $\frac{3}{8}$ EUE TUBING			84.07	4024.61
2 $\frac{3}{8}$ EUE TUBING			.12	4024.73

CONT ...

<u>DESCRIPTION</u>	<u>O.D.</u>	<u>I.D.</u>	<u>LENGTH</u>	<u>DEPTH</u>
X-N NIPPLE OTIS			.22	4024.95
2 $\frac{3}{8}$ EUE TUBING			9.67	4034.62
2 $\frac{3}{8}$ EUE TUBING			.22	4034.84
X-OVER 2 $\frac{3}{8}$ EUE P X PH6 P			.08	4034.92
2 $\frac{3}{8}$ PH6 TUBING GAUGES			7.59	4042.51
X-OVER PH6 B X 2 $\frac{3}{8}$ P			.39	4042.90
BULL NOSE			.22	4043.12



COMPANY: ESSO EXPL.  
TICKET NO: HD46928  
GAUGE NO: 5634

1ST FLOW

1, 5 MINUTE INTERVALS. LAST INTERVAL= 5 MINS.  
TOTAL 10 MINUTES

	TIME		PRESSURE		
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG	DELTA P
P0	0	.000	1.347	5584	0
P1	5	.003	1.645	6794	1210
P2	10	.006	1.532	6339	455

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1ST CLOSURE ----- 15, 5 MINUTE INTERVALS. LAST INTERVAL= 3 MINS.  
 ----- TOTAL 78 MINUTES

	TIME		PRESSURE		DELTA P	LOG T+0/0
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG		
P0	0	.000	1.532	6339	0	
P1	5	.003	1.842	7596	1257	.4771
P2	10	.006	1.844	7604	8	.3010
P3	15	.009	1.844	7604	0	.2218
P4	20	.012	1.844	7604	0	.1761
P5	25	.015	1.844	7604	0	.1461
P6	30	.018	1.844	7604	0	.1249
P7	35	.020	1.844	7604	0	.1139
P8	40	.023	1.844	7604	0	.1007
P9	45	.026	1.844	7604	0	.0902
P10	50	.029	1.844	7604	0	.0817
P11	55	.032	1.844	7604	0	.0746
P12	60	.035	1.844	7604	0	.0687
P13	65	.038	1.844	7604	0	.0637
P14	70	.041	1.844	7604	0	.0593
P15	75	.044	1.844	7604	0	.0555
P16	78	.046	1.844	7604	0	.0532

COMPANY: ESSO EXPL.  
 TICKET NO: HD46928  
 GAUGE NO: 5634

2ND FLOW 151, 5 MINUTE INTERVALS. LAST INTERVAL= 4 MINS.  
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 TOTAL 759 MINUTES

	TIME		PRESSURE		
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG	DELTA P
P0	0	.000	1.637	6762	0
P1	5	.003	1.839	7584	822
P2	10	.006	1.545	6391	1193
P3	15	.009	1.481	6133	258
P4	20	.012			
P5	25	.015	STYLUS JUMPED AT THIS POINT		
P6	30	.018			
P7	35	.020			
P8	40	.023	1.356	5621	0
P9	45	.026	1.288	5342	279
P10	50	.029	1.272	5276	66
P11	55	.032	1.176	4881	395
P12	60	.035	1.156	4799	82
P13	65	.038	1.137	4721	78
P14	70	.041	1.199	4975	254
P15	75	.044	1.210	5021	46
P16	80	.047	1.171	4861	160
P17	85	.050	1.166	4840	21
P18	90	.053	1.153	4787	53
P19	95	.056	1.152	4783	4
P20	100	.058	1.155	4795	12
P21	105	.061	1.159	4811	16
P22	110	.064	1.157	4803	8
P23	115	.067	1.155	4795	8
P24	120	.070	1.157	4803	8
P25	125	.073	1.154	4791	12
P26	130	.076	1.150	4775	16
P27	135	.079	1.149	4770	5
P28	140	.082	1.149	4770	0
P29	145	.085	1.149	4770	0
P30	150	.088	1.143	4746	24
P31	155	.091	1.143	4746	0
P32	160	.093	1.143	4746	0
P33	165	.096	1.143	4746	0
P34	170	.099	1.144	4750	4
P35	175	.102	1.144	4750	0
P36	180	.105	1.145	4754	4
P37	185	.108	1.146	4758	4
P38	190	.111	1.147	4762	4
P39	195	.114	1.148	4766	4
P40	200	.117	1.149	4770	4
P41	205	.120	1.150	4775	5
P42	210	.123	1.150	4775	0

COMPANY: ESSO EXPL.  
 TICKET NO: HD46928  
 GAUGE NO: 5634

2ND FLOW CONTINUED

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	TIME		PRESSURE		DELTA P
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG	
P43	215	.126	1.151	4779	4
P44	220	.129	1.151	4779	0
P45	225	.131	1.152	4783	4
P46	230	.134	1.152	4783	0
P47	235	.137	1.152	4783	0
P48	240	.140	1.152	4783	0
P49	245	.143	1.152	4783	0
P50	250	.146	1.153	4787	4
P51	255	.149	1.157	4803	16
P52	260	.152	1.160	4816	13
P53	265	.155	1.162	4824	8
P54	270	.158	1.162	4824	0
P55	275	.161	1.162	4824	0
P56	280	.164	1.162	4824	0
P57	285	.167	1.162	4824	0
P58	290	.169	1.162	4824	0
P59	295	.172	1.162	4824	0
P60	300	.175	1.162	4824	0
P61	305	.178	1.162	4824	0
P62	310	.181	1.162	4824	0
P63	315	.184	1.162	4824	0
P64	320	.187	1.163	4828	4
P65	325	.190	1.163	4828	0
P66	330	.193	1.163	4828	0
P67	335	.196	1.164	4832	4
P68	340	.199	1.164	4832	0
P69	345	.202	1.163	4828	4
P70	350	.205	1.163	4828	0
P71	355	.207	1.163	4828	0
P72	360	.210	1.163	4828	0
P73	365	.213	1.162	4824	4
P74	370	.216	1.162	4824	0
P75	375	.219	1.162	4824	0
P76	380	.222	1.162	4824	0
P77	385	.225	1.162	4824	0
P78	390	.228	1.162	4824	0
P79	395	.231	1.162	4824	0
P80	400	.234	1.162	4824	0
P81	405	.237	1.162	4824	0
P82	410	.240	1.162	4824	0
P83	415	.242	1.162	4824	0
P84	420	.245	1.162	4824	0
P85	425	.248	1.162	4824	0

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2ND FLOW CONTINUED

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	TIME		PRESSURE		DELTA P
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG	
P86	430	.251	1.162	4824	0
P87	435	.254	1.162	4824	0
P88	440	.257	1.162	4824	0
P89	445	.260	1.162	4824	0
P90	450	.263	1.162	4824	0
P91	455	.266	1.162	4824	0
P92	460	.269	1.162	4824	0
P93	465	.272	1.162	4824	0
P94	470	.275	1.161	4820	4
P95	475	.278	1.161	4820	0
P96	480	.280	1.161	4820	0
P97	485	.283	1.161	4820	0
P98	490	.286	1.161	4820	0
P99	495	.289	1.160	4816	4
P100	500	.292	1.160	4816	0
P101	505	.295	1.160	4816	0
P102	510	.298	1.160	4816	0
P103	515	.301	1.160	4816	0
P104	520	.304	1.160	4816	0
P105	525	.307	1.160	4816	0
P106	530	.310	1.160	4816	0
P107	535	.313	1.160	4816	0
P108	540	.316	1.159	4811	5
P109	545	.318	1.159	4811	0
P110	550	.321	1.159	4811	0
P111	555	.324	1.159	4811	0
P112	560	.327	1.159	4811	0
P113	565	.330	1.159	4811	0
P114	570	.333	1.159	4811	0
P115	575	.336	1.159	4811	0
P116	580	.339	1.158	4807	4
P117	585	.342	1.158	4807	0
P118	590	.345	1.158	4807	0
P119	595	.348	1.158	4807	0
P120	600	.351	1.157	4803	4
P121	605	.354	1.157	4803	0
P122	610	.356	1.157	4803	0
P123	615	.359	1.157	4803	0
P124	620	.362	1.157	4803	0
P125	625	.365	1.157	4803	0
P126	630	.368	1.157	4803	0
P127	635	.371	1.157	4803	0
P128	640	.374	1.157	4803	0

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ZND FLOW CONTINUED

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	TIME		PRESSURE		
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG	DELTA P
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P129	645	.377	1.156	4799	4
P130	650	.380	1.156	4799	0
P131	655	.383	1.156	4799	0
P132	660	.386	1.155	4795	4
P133	665	.389	1.155	4795	0
P134	670	.391	1.155	4795	0
P135	675	.394	1.155	4795	0
P136	680	.397	1.155	4795	0
P137	685	.400	1.154	4791	4
P138	690	.403	1.154	4791	0
P139	695	.406	1.154	4791	0
P140	700	.409	1.153	4787	4
P141	705	.412	1.153	4787	0
P142	710	.415	1.153	4787	0
P143	715	.418	1.153	4787	0
P144	720	.421	1.153	4787	0
P145	725	.424	1.153	4787	0
P146	730	.427	1.152	4783	4
P147	735	.429	1.152	4783	0
P148	740	.432	1.152	4783	0
P149	745	.435	1.151	4779	4
P150	750	.438	1.151	4779	0
P151	755	.441	1.151	4779	0
P152	759	.444	1.151	4779	0

COMPANY: ESSO EXPL.  
 TICKET NO: HD46928  
 GAUGE NO: 5634

2ND CLOSURE 120, 10 MINUTE INTERVALS. LAST INTERVAL= 10 MINS.  
 ----- TOTAL 1210 MINUTES

	TIME		PRESSURE			DELTA P	LOG T+0/0
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG			
P0	0	.000	1.151	4779	0		
P1	10	.006	1.710	7057	2278	1.8808	
P2	20	.012	1.724	7114	57	1.5855	
P3	30	.018	1.735	7159	45	1.4150	
P4	40	.023	1.743	7192	33	1.3131	
P5	50	.029	1.750	7220	28	1.2179	
P6	60	.035	1.755	7241	21	1.1417	
P7	70	.041	1.759	7257	16	1.0783	
P8	80	.047	1.762	7269	12	1.0243	
P9	90	.053	1.765	7282	13	.9773	
P10	100	.058	1.767	7290	8	.9424	
P11	110	.064	1.770	7302	12	.9048	
P12	120	.070	1.772	7310	8	.8709	
P13	130	.076	1.774	7318	8	.8402	
P14	140	.082	1.775	7322	4	.8121	
P15	150	.088	1.777	7331	9	.7863	
P16	160	.093	1.778	7335	4	.7663	
P17	170	.099	1.779	7339	4	.7439	
P18	180	.105	1.780	7343	4	.7231	
P19	190	.111	1.781	7347	4	.7036	
P20	200	.117	1.782	7351	4	.6854	
P21	210	.123	1.783	7355	4	.6682	
P22	220	.129	1.784	7359	4	.6521	
P23	230	.134	1.785	7363	4	.6393	
P24	240	.140	1.786	7367	4	.6247	
P25	250	.146	1.787	7371	4	.6109	
P26	260	.152	1.787	7371	0	.5978	
P27	270	.158	1.788	7376	5	.5852	
P28	280	.164	1.789	7380	4	.5733	
P29	290	.169	1.790	7384	4	.5638	
P30	300	.175	1.791	7388	4	.5528	
P31	310	.181	1.791	7388	0	.5424	
P32	320	.187	1.792	7392	4	.5323	
P33	330	.193	1.792	7392	0	.5227	
P34	340	.199	1.792	7392	0	.5134	
P35	350	.205	1.792	7392	0	.5045	
P36	360	.210	1.792	7392	0	.4973	
P37	370	.216	1.792	7392	0	.4890	
P38	380	.222	1.792	7392	0	.4810	
P39	390	.228	1.793	7396	4	.4733	
P40	400	.234	1.793	7396	0	.4658	
P41	410	.240	1.794	7400	4	.4586	
P42	420	.245	1.794	7400	0	.4528	

COMPANY: ESSO EXPL.  
 TICKET NO: HD46928  
 GAUGE NO: 5634

2ND CLOSURE CONTINUED

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	TIME		PRESSURE		DELTA P	LOG T+0/0
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG		
P43	430	.251	1.795	7404	4	.4460
P44	440	.257	1.796	7408	4	.4395
P45	450	.263	1.796	7408	0	.4331
P46	460	.269	1.797	7412	4	.4270
P47	470	.275	1.797	7412	0	.4210
P48	480	.280	1.797	7412	0	.4162
P49	490	.286	1.798	7416	4	.4105
P50	500	.292	1.798	7416	0	.4050
P51	510	.298	1.798	7416	0	.3997
P52	520	.304	1.798	7416	0	.3945
P53	530	.310	1.798	7416	0	.3895
P54	540	.316	1.798	7416	0	.3845
P55	550	.321	1.799	7420	4	.3805
P56	560	.327	1.799	7420	0	.3759
P57	570	.333	1.799	7420	0	.3713
P58	580	.339	1.799	7420	0	.3669
P59	590	.345	1.799	7420	0	.3625
P60	600	.351	1.799	7420	0	.3583
P61	610	.356	1.800	7424	4	.3549
P62	620	.362	1.800	7424	0	.3508
P63	630	.368	1.800	7424	0	.3469
P64	640	.374	1.800	7424	0	.3431
P65	650	.380	1.801	7429	5	.3393
P66	660	.386	1.801	7429	0	.3356
P67	670	.391	1.801	7429	0	.3326
P68	680	.397	1.801	7429	0	.3291
P69	690	.403	1.801	7429	0	.3256
P70	700	.409	1.801	7429	0	.3223
P71	710	.415	1.801	7429	0	.3190
P72	720	.421	1.801	7429	0	.3157
P73	730	.427	1.801	7429	0	.3126
P74	740	.432	1.801	7429	0	.3100
P75	750	.438	1.802	7433	4	.3069
P76	760	.444	1.802	7433	0	.3040
P77	770	.450	1.802	7433	0	.3010
P78	780	.456	1.802	7433	0	.2982
P79	790	.462	1.803	7437	4	.2954
P80	800	.467	1.803	7437	0	.2931
P81	810	.473	1.803	7437	0	.2903
P82	820	.479	1.803	7437	0	.2877
P83	830	.485	1.803	7437	0	.2851
P84	840	.491	1.803	7437	0	.2825
P85	850	.497	1.803	7437	0	.2800



COMPANY: ESSO EXPL.  
 TICKET NO: HD46928  
 GAUGE NO: 5634

## 2ND CLOSURE CONTINUED

	TIME		PRESSURE		DELTA P	LOG T+0/0
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG		
P86	860	.502	1.803	7437	0	.2779
P87	870	.508	1.803	7437	0	.2755
P88	880	.514	1.804	7441	4	.2731
P89	890	.520	1.804	7441	0	.2708
P90	900	.526	1.804	7441	0	.2685
P91	910	.532	1.804	7441	0	.2662
P92	920	.538	1.804	7441	0	.2640
P93	930	.543	1.804	7441	0	.2621
P94	940	.549	1.804	7441	0	.2600
P95	950	.555	1.804	7441	0	.2579
P96	960	.561	1.805	7445	4	.2558
P97	970	.567	1.805	7445	0	.2537
P98	980	.573	1.805	7445	0	.2517
P99	990	.578	1.805	7445	0	.2501
P100	1000	.584	1.805	7445	0	.2481
P101	1010	.590	1.805	7445	0	.2462
P102	1020	.596	1.805	7445	0	.2443
P103	1030	.602	1.805	7445	0	.2424
P104	1040	.608	1.805	7445	0	.2406
P105	1050	.614	1.806	7449	4	.2388
P106	1060	.619	1.806	7449	0	.2373
P107	1070	.625	1.806	7449	0	.2355
P108	1080	.631	1.806	7449	0	.2338
P109	1090	.637	1.806	7449	0	.2321
P110	1100	.643	1.806	7449	0	.2304
P111	1110	.649	1.806	7449	0	.2288
P112	1120	.654	1.806	7449	0	.2274
P113	1130	.660	1.806	7449	0	.2258
P114	1140	.666	1.806	7449	0	.2242
P115	1150	.672	1.806	7449	0	.2226
P116	1160	.678	1.806	7449	0	.2211
P117	1170	.684	1.806	7449	0	.2196
P118	1180	.689	1.806	7449	0	.2183
P119	1190	.695	1.807	7453	4	.2168
P120	1200	.701	1.807	7453	0	.2154
P121	1210	.707	1.807	7453	0	.2139

03/27/19

COMPANY: ESSO EXPL.  
 TICKET NO: HD46928  
 GAUGE NO: 5634

ATT. BULLHEAD 22, 5 MINUTE INTERVALS. LAST INTERVAL= 7 MINS.  
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 TOTAL 117 MINUTES

	TIME		PRESSURE		
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG	DELTA P
P0	0	.000	1.787	7371	0
P1	5	.003	1.805	7445	74
P2	10	.006	2.010	8279	834
P3	15	.009	2.213	9101	822
P4	20	.012	2.427	9968	867
P5	25	.015	2.644	10833	865
P6	30	.018	2.950	12056	1223
P7	35	.020	2.923	11948	108
P8	40	.023	1.878	7743	4205
P9	45	.026	1.896	7816	73
P10	50	.029	2.606	10681	2865
P11	55	.032	2.954	12071	1390
P12	60	.035	2.935	11996	75
P13	65	.038	2.918	11928	68
P14	70	.041	2.910	11896	32
P15	75	.044	2.902	11864	32
P16	80	.047	2.894	11832	32
P17	85	.050	2.888	11808	24
P18	90	.053	2.883	11788	20
P19	95	.056	1.724	7114	4674
P20	100	.058	1.821	7510	396
P21	105	.061	1.824	7522	12
P22	110	.064	1.826	7531	9
P23	117	.068	1.828	7539	8

COMPANY: ESSO EXPL.  
 TICKET NO: HD46928  
 GAUGE NO: 5634

REV. CIRC. 379, 10 MINUTE INTERVALS. LAST INTERVAL= 6 MINS.  
 ----- TOTAL 3796 MINUTES

	TIME		PRESSURE		
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG	DELTA P
P0	0	.000	1.828	7539	0
P1	10	.006	1.838	7580	41
P2	20	.012	1.840	7588	8
P3	30	.018	1.841	7592	4
P4	40	.023	1.841	7592	0
P5	50	.029	1.841	7592	0
P6	60	.035	1.841	7592	0
P7	70	.041	1.841	7592	0
P8	80	.047	1.841	7592	0
P9	90	.053	1.841	7592	0
P10	100	.058	1.841	7592	0
P11	110	.064	1.841	7592	0
P12	120	.070	1.841	7592	0
P13	130	.076	1.841	7592	0
P14	140	.082	1.841	7592	0
P15	150	.088	1.841	7592	0
P16	160	.093	1.841	7592	0
P17	170	.099	1.841	7592	0
P18	180	.105	1.841	7592	0
P19	190	.111	1.841	7592	0
P20	200	.117	1.841	7592	0
P21	210	.123	1.841	7592	0
P22	220	.129	1.841	7592	0
P23	230	.134	1.841	7592	0
P24	240	.140	1.841	7592	0
P25	250	.146	1.842	7596	4
P26	260	.152	1.842	7596	0
P27	270	.158	1.842	7596	0
P28	280	.164	1.842	7596	0
P29	290	.169	1.842	7596	0
P30	300	.175	1.842	7596	0
P31	310	.181	1.842	7596	0
P32	320	.187	1.842	7596	0
P33	330	.193	1.842	7596	0
P34	340	.199	1.842	7596	0
P35	350	.205	1.842	7596	0
P36	360	.210	1.842	7596	0
P37	370	.216	1.842	7596	0
P38	380	.222	1.842	7596	0
P39	390	.228	1.842	7596	0
P40	400	.234	1.842	7596	0
P41	410	.240	1.842	7596	0
P42	420	.245	1.842	7596	0

COMPANY: ESSO EXPL.  
 TICKET NO: HQ46928  
 GAUGE NO: 5634

REV. CIRC. CONTINUED

	TIME		PRESSURE		DELTA P
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG	
P43	430	.251	1.842	7596	0
P44	440	.257	1.842	7596	0
P45	450	.263	1.842	7596	0
P46	460	.269	1.843	7600	4
P47	470	.275	1.843	7600	0
P48	480	.280	1.843	7600	0
P49	490	.286	1.843	7600	0
P50	500	.292	1.843	7600	0
P51	510	.298	1.843	7600	0
P52	520	.304	1.843	7600	0
P53	530	.310	1.843	7600	0
P54	540	.316	1.843	7600	0
P55	550	.321	1.843	7600	0
P56	560	.327	1.844	7604	4
P57	570	.333	1.844	7604	0
P58	580	.339	1.844	7604	0
P59	590	.345	1.844	7604	0
P60	600	.351	1.844	7604	0
P61	610	.356	1.844	7604	0
P62	620	.362	1.844	7604	0
P63	630	.368	1.844	7604	0
P64	640	.374	1.844	7604	0
P65	650	.380	1.844	7604	0
P66	660	.386	1.844	7604	0
P67	670	.391	1.844	7604	0
P68	680	.397	1.844	7604	0
P69	690	.403	1.844	7604	0
P70	700	.409	1.844	7604	0
P71	710	.415	1.844	7604	0
P72	720	.421	1.844	7604	0
P73	730	.427	1.844	7604	0
P74	740	.432	1.844	7604	0
P75	750	.438	1.844	7604	0
P76	760	.444	1.844	7604	0
P77	770	.450	1.844	7604	0
P78	780	.456	1.844	7604	0
P79	790	.462	1.844	7604	0
P80	800	.467	1.844	7604	0
P81	810	.473	1.844	7604	0
P82	820	.479	1.844	7604	0
P83	830	.485	1.844	7604	0
P84	840	.491	1.844	7604	0
P85	850	.497	1.844	7604	0

COMPANY: ESSO EXPL.  
 TICKET NO: H046928  
 GAUGE NO: 5634

REV. CIRC. CONTINUED

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	TIME		PRESSURE		
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG	DELTA P
P86	860	.502	1.844	7604	0
P87	870	.508	1.844	7604	0
P88	880	.514	1.844	7604	0
P89	890	.520	1.844	7604	0
P90	900	.526	1.844	7604	0
P91	910	.532	1.844	7604	0
P92	920	.538	1.844	7604	0
P93	930	.543	1.844	7604	0
P94	940	.549	1.844	7604	0
P95	950	.555	1.844	7604	0
P96	960	.561	1.844	7604	0
P97	970	.567	1.844	7604	0
P98	980	.573	1.844	7604	0
P99	990	.578	1.844	7604	0
P100	1000	.584	1.844	7604	0
P101	1010	.590	1.844	7604	0
P102	1020	.596	1.844	7604	0
P103	1030	.602	1.844	7604	0
P104	1040	.608	1.844	7604	0
P105	1050	.614	1.844	7604	0
P106	1060	.619	1.844	7604	0
P107	1070	.625	1.844	7604	0
P108	1080	.631	1.844	7604	0
P109	1090	.637	1.844	7604	0
P110	1100	.643	1.844	7604	0
P111	1110	.649	1.844	7604	0
P112	1120	.654	1.844	7604	0
P113	1130	.660	1.844	7604	0
P114	1140	.666	1.844	7604	0
P115	1150	.672	1.844	7604	0
P116	1160	.678	1.844	7604	0
P117	1170	.684	1.844	7604	0
P118	1180	.689	1.844	7604	0
P119	1190	.695	1.844	7604	0
P120	1200	.701	1.844	7604	0
P121	1210	.707	1.844	7604	0
P122	1220	.713	1.844	7604	0
P123	1230	.719	1.844	7604	0
P124	1240	.725	1.844	7604	0
P125	1250	.730	1.844	7604	0
P126	1260	.736	1.844	7604	0
P127	1270	.742	1.844	7604	0
P128	1280	.748	1.844	7604	0

COMPANY: ESSO EXPL.  
 TICKET NO: HD46928  
 GAUGE NO: 5634

## REV. CIRC. CONTINUED

REV. CIRC.	TIME		INCHES DEFL.	PRESSURE		DELTA P
	MINUTES	INCHES DEFL.		INCHES DEFL.	PSIG	
P129	1290	.754	1.844	7604	0	
P130	1300	.760	1.844	7604	0	
P131	1310	.765	1.844	7604	0	
P132	1320	.771	1.844	7604	0	
P133	1330	.777	1.844	7604	0	
P134	1340	.783	1.844	7604	0	
P135	1350	.789	1.845	7608	4	
P136	1360	.795	1.845	7608	0	
P137	1370	.800	1.845	7608	0	
P138	1380	.806	1.845	7608	0	
P139	1390	.812	1.845	7608	0	
P140	1400	.818	1.845	7608	0	
P141	1410	.824	1.845	7608	0	
P142	1420	.830	1.845	7608	0	
P143	1430	.836	1.845	7608	0	
P144	1440	.841	1.845	7608	0	
P145	1450	.847	1.845	7608	0	
P146	1460	.853	1.845	7608	0	
P147	1470	.859	1.845	7608	0	
P148	1480	.865	1.845	7608	0	
P149	1490	.871	1.845	7608	0	
P150	1500	.876	1.845	7608	0	
P151	1510	.882	1.845	7608	0	
P152	1520	.888	1.845	7608	0	
P153	1530	.894	1.845	7608	0	
P154	1540	.900	1.845	7608	0	
P155	1550	.906	1.845	7608	0	
P156	1560	.912	1.845	7608	0	
P157	1570	.917	1.845	7608	0	
P158	1580	.923	1.845	7608	0	
P159	1590	.929	1.845	7608	0	
P160	1600	.935	1.845	7608	0	
P161	1610	.941	1.845	7608	0	
P162	1620	.947	1.845	7608	0	
P163	1630	.952	1.845	7608	0	
P164	1640	.958	1.845	7608	0	
P165	1650	.964	1.845	7608	0	
P166	1660	.970	1.845	7608	0	
P167	1670	.976	1.845	7608	0	
P168	1680	.982	1.845	7608	0	
P169	1690	.987	1.845	7608	0	
P170	1700	.993	1.845	7608	0	
P171	1710	.999	1.845	7608	0	

COMPANY: ESSO EXPL.  
 TICKET NO: H046928  
 GAUGE NO: 5634

REV. CIRC. CONTINUED

TIME		PRESSURE			DELTA P
MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG		
P172	1720	1.005	1.845	7608	0
P173	1730	1.011	1.845	7608	0
P174	1740	1.017	1.845	7608	0
P175	1750	1.023	1.845	7608	0
P176	1760	1.028	1.845	7608	0
P177	1770	1.034	1.845	7608	0
P178	1780	1.040	1.845	7608	0
P179	1790	1.046	1.845	7608	0
P180	1800	1.052	1.845	7608	0
P181	1810	1.058	1.845	7608	0
P182	1820	1.063	1.845	7608	0
P183	1830	1.069	1.845	7608	0
P184	1840	1.075	1.845	7608	0
P185	1850	1.081	1.845	7608	0
P186	1860	1.087	1.845	7608	0
P187	1870	1.093	1.845	7608	0
P188	1880	1.098	1.845	7608	0
P189	1890	1.104	1.845	7608	0
P190	1900	1.110	1.845	7608	0
P191	1910	1.116	1.845	7608	0
P192	1920	1.122	1.845	7608	0
P193	1930	1.128	1.845	7608	0
P194	1940	1.134	1.845	7608	0
P195	1950	1.139	1.845	7608	0
P196	1960	1.145	1.845	7608	0
P197	1970	1.151	1.845	7608	0
P198	1980	1.157	1.845	7608	0
P199	1990	1.163	1.845	7608	0
P200	2000	1.169	1.845	7608	0
P201	2010	1.174	1.845	7608	0
P202	2020	1.180	1.845	7608	0
P203	2030	1.186	1.845	7608	0
P204	2040	1.192	1.845	7608	0
P205	2050	1.198	1.845	7608	0
P206	2060	1.204	1.845	7608	0
P207	2070	1.209	1.845	7608	0
P208	2080	1.215	1.845	7608	0
P209	2090	1.221	1.845	7608	0
P210	2100	1.227	1.845	7608	0
P211	2110	1.233	1.845	7608	0
P212	2120	1.239	1.845	7608	0
P213	2130	1.245	1.845	7608	0
P214	2140	1.250	1.845	7608	0

COMPANY: ESSO EXPL.  
 TICKET NO: HD46928  
 GAUGE NO: 5634

REV. CIRC. CONTINUED

	TIME		PRESSURE		DELTA P
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG	
P215	2150	1.256	1.845	7608	0
P216	2160	1.262	1.845	7608	0
P217	2170	1.268	1.845	7608	0
P218	2180	1.274	1.845	7608	0
P219	2190	1.280	1.845	7608	0
P220	2200	1.285	1.845	7608	0
P221	2210	1.291	1.845	7608	0
P222	2220	1.297	1.845	7608	0
P223	2230	1.303	1.845	7608	0
P224	2240	1.309	1.845	7608	0
P225	2250	1.315	1.845	7608	0
P226	2260	1.321	1.845	7608	0
P227	2270	1.326	1.845	7608	0
P228	2280	1.332	1.845	7608	0
P229	2290	1.338	1.845	7608	0
P230	2300	1.344	1.845	7608	0
P231	2310	1.350	1.845	7608	0
P232	2320	1.356	1.845	7608	0
P233	2330	1.361	1.845	7608	0
P234	2340	1.367	1.845	7608	0
P235	2350	1.373	1.845	7608	0
P236	2360	1.379	1.845	7608	0
P237	2370	1.385	1.845	7608	0
P238	2380	1.391	1.845	7608	0
P239	2390	1.396	1.845	7608	0
P240	2400	1.402	1.845	7608	0
P241	2410	1.408	1.845	7608	0
P242	2420	1.414	1.845	7608	0
P243	2430	1.420	1.845	7608	0
P244	2440	1.426	1.845	7608	0
P245	2450	1.432	1.845	7608	0
P246	2460	1.437	1.845	7608	0
P247	2470	1.443	1.845	7608	0
P248	2480	1.449	1.845	7608	0
P249	2490	1.455	1.845	7608	0
P250	2500	1.461	1.845	7608	0
P251	2510	1.467	1.845	7608	0
P252	2520	1.472	1.845	7608	0
P253	2530	1.478	1.845	7608	0
P254	2540	1.484	1.845	7608	0
P255	2550	1.490	1.845	7608	0
P256	2560	1.496	1.845	7608	0
P257	2570	1.502	1.845	7608	0



COMPANY: ESSO EXPL.  
 TICKET NO: HD46928  
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REV. CIRC. CONTINUED

	TIME		PRESSURE		DELTA P
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG	
P258	2580	1.507	1.845	7608	0
P259	2590	1.513	1.845	7608	0
P260	2600	1.519	1.845	7608	0
P261	2610	1.525	1.845	7608	0
P262	2620	1.531	1.845	7608	0
P263	2630	1.537	1.845	7608	0
P264	2640	1.543	1.845	7608	0
P265	2650	1.548	1.845	7608	0
P266	2660	1.554	1.845	7608	0
P267	2670	1.560	1.845	7608	0
P268	2680	1.566	1.845	7608	0
P269	2690	1.572	1.845	7608	0
P270	2700	1.578	1.845	7608	0
P271	2710	1.583	1.845	7608	0
P272	2720	1.589	1.845	7608	0
P273	2730	1.595	1.845	7608	0
P274	2740	1.601	1.845	7608	0
P275	2750	1.607	1.845	7608	0
P276	2760	1.613	1.845	7608	0
P277	2770	1.619	1.845	7608	0
P278	2780	1.624	1.845	7608	0
P279	2790	1.630	1.845	7608	0
P280	2800	1.636	1.845	7608	0
P281	2810	1.642	1.845	7608	0
P282	2820	1.648	1.845	7608	0
P283	2830	1.654	1.845	7608	0
P284	2840	1.659	1.845	7608	0
P285	2850	1.665	1.845	7608	0
P286	2860	1.671	1.845	7608	0
P287	2870	1.677	1.845	7608	0
P288	2880	1.683	1.845	7608	0
P289	2890	1.689	1.845	7608	0
P290	2900	1.694	1.845	7608	0
P291	2910	1.700	1.845	7608	0
P292	2920	1.706	1.845	7608	0
P293	2930	1.712	1.845	7608	0
P294	2940	1.718	1.845	7608	0
P295	2950	1.724	1.845	7608	0
P296	2960	1.730	1.845	7608	0
P297	2970	1.735	1.845	7608	0
P298	2980	1.741	1.845	7608	0
P299	2990	1.747	1.845	7608	0
P300	3000	1.753	1.845	7608	0

COMPANY: ESSO EXPL.  
 TICKET NO: HD46928  
 GAUGE NO: 5634

REV. CIRC. CONTINUED

TIME		PRESSURE			DELTA P
MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG		
P301	3010	1.759	1.845	7608	0
P302	3020	1.765	1.845	7608	0
P303	3030	1.770	1.845	7608	0
P304	3040	1.776	1.845	7608	0
P305	3050	1.782	1.845	7608	0
P306	3060	1.788	1.845	7608	0
P307	3070	1.794	1.845	7608	0
P308	3080	1.800	1.845	7608	0
P309	3090	1.805	1.845	7608	0
P310	3100	1.811	1.845	7608	0
P311	3110	1.817	1.845	7608	0
P312	3120	1.823	1.845	7608	0
P313	3130	1.829	1.845	7608	0
P314	3140	1.835	1.845	7608	0
P315	3150	1.841	1.845	7608	0
P316	3160	1.846	1.845	7608	0
P317	3170	1.852	1.845	7608	0
P318	3180	1.858	1.845	7608	0
P319	3190	1.864	1.845	7608	0
P320	3200	1.870	1.845	7608	0
P321	3210	1.876	1.845	7608	0
P322	3220	1.881	1.845	7608	0
P323	3230	1.887	1.845	7608	0
P324	3240	1.893	1.845	7608	0
P325	3250	1.899	1.845	7608	0
P326	3260	1.905	1.845	7608	0
P327	3270	1.911	1.845	7608	0
P328	3280	1.916	1.845	7608	0
P329	3290	1.922	1.845	7608	0
P330	3300	1.928	1.845	7608	0
P331	3310	1.934	1.845	7608	0
P332	3320	1.940	1.845	7608	0
P333	3330	1.946	1.845	7608	0
P334	3340	1.952	1.845	7608	0
P335	3350	1.957	1.845	7608	0
P336	3360	1.963	1.845	7608	0
P337	3370	1.969	1.845	7608	0
P338	3380	1.975	1.845	7608	0
P339	3390	1.981	1.845	7608	0
P340	3400	1.987	1.845	7608	0
P341	3410	1.992	1.845	7608	0
P342	3420	1.998	1.845	7608	0
P343	3430	2.004	1.845	7608	0

COMPANY: ESSO EXPL.,  
 TICKET NO: HD46928  
 GAUGE NO: 5634

REV. CIRC. CONTINUED

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	TIME		PRESSURE		
	MINUTES	INCHES DEFL.	INCHES DEFL.	PSIG	DELTA P
P344	3440	2.010	1.845	7608	0
P345	3450	2.016	1.845	7608	0
P346	3460	2.022	1.845	7608	0
P347	3470	2.028	1.845	7608	0
P348	3480	2.033	1.845	7608	0
P349	3490	2.039	1.845	7608	0
P350	3500	2.045	1.845	7608	0
P351	3510	2.051	1.845	7608	0
P352	3520	2.057	1.845	7608	0
P353	3530	2.063	1.845	7608	0
P354	3540	2.068	1.845	7608	0
P355	3550	2.074	1.845	7608	0
P356	3560	2.080	1.845	7608	0
P357	3570	2.086	1.845	7608	0
P358	3580	2.092	1.845	7608	0
P359	3590	2.098	1.845	7608	0
P360	3600	2.103	1.845	7608	0
P361	3610	2.109	1.845	7608	0
P362	3620	2.115	1.845	7608	0
P363	3630	2.121	1.845	7608	0
P364	3640	2.127	1.845	7608	0
P365	3650	2.133	1.845	7608	0
P366	3660	2.139	1.845	7608	0
P367	3670	2.144	1.845	7608	0
P368	3680	2.150	1.845	7608	0
P369	3690	2.156	1.845	7608	0
P370	3700	2.162	1.845	7608	0
P371	3710	2.168	1.845	7608	0
P372	3720	2.174	1.845	7608	0
P373	3730	2.179	1.845	7608	0
P374	3740	2.185	1.845	7608	0
P375	3750	2.191	1.845	7608	0
P376	3760	2.197	1.845	7608	0
P377	3770	2.203	1.845	7608	0
P378	3780	2.209	1.845	7608	0
P379	3790	2.214	1.845	7608	0
P380	3796	2.218	1.845	7608	0

# Nomenclature

<b>b</b>	= Approximate Radius of Investigation	Feet
<b>b<sub>1</sub></b>	= Approximate Radius of Investigation (Net Pay Zone h <sub>1</sub> )	Feet
<b>D.R.</b>	= Damage Ratio	—
<b>EI</b>	= Elevation	Feet
<b>GD</b>	= B.T. Gauge Depth (From Surface Reference)	Feet
<b>h</b>	= Interval Tested	Feet
<b>h<sub>1</sub></b>	= Net Pay Thickness	Feet
<b>K</b>	= Permeability	md
<b>K<sub>1</sub></b>	= Permeability (From Net Pay Zone h <sub>1</sub> )	md
<b>m</b>	= Slope Extrapolated Pressure Plot (Psi <sup>2</sup> /cycle Gas)	psi/cycle
<b>OF<sub>1</sub></b>	= Maximum Indicated Flow Rate	MCF/D
<b>OF<sub>2</sub></b>	= Minimum Indicated Flow Rate	MCF/D
<b>OF<sub>3</sub></b>	= Theoretical Open Flow Potential with /Damage Removed Max.	MCF/D
<b>OF<sub>4</sub></b>	= Thoeretical Open Flow Potential with/Damage Removed Min.	MCF/D
<b>P<sub>s</sub></b>	= Extrapolated Static Pressure	Psig.
<b>P<sub>F</sub></b>	= Final Flow Pressure	Psig.
<b>P<sub>ot</sub></b>	= Potentiometric Surface (Fresh Water*)	Feet
<b>Q</b>	= Average Adjusted Production Rate During Test	bbls/day
<b>Q<sub>1</sub></b>	= Theoretical Production w/Damage Removed	bbls/day
<b>Q<sub>g</sub></b>	= Measured Gas Production Rate	MCF/D
<b>R</b>	= Corrected Recovery	bbls
<b>r<sub>w</sub></b>	= Radius of Well Bore	Feet
<b>t</b>	= Flow Time	Minutes
<b>t<sub>o</sub></b>	= Total Flow Time	Minutes
<b>T</b>	= Temperature Rankine	°R
<b>Z</b>	= Compressibility Factor	—
<b>μ</b>	= Viscosity Gas or Liquid	CP
<b>Log</b>	= Common Log	

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