

DST NO. 3

Perforations: 10606 - 10618

No.	I.D.	O.D.	Description	Length	Depth
			Baker Test Head		
			Hydril Valve		
			Tubing Above RKB (Less)	6	-6
9	2.441	2 7/8	6.50 lb N-80 8R Tubing	278.92	272.99
			Otis SST Tree Slick Jt. & Hanger	27.00	299.92
325	2.441	2 7/8	6.50 lb N-80 8R Tubing	10127.15	10427.07
1	2 17/32	4 3/8	3 1/2 IF Pin by 2 7/8 Eue. 8R Box	1.00	10428.07
1	"	"	3 1/2 Box by Pin Knock out Sub	1.00	10429.07
1	2 1/2	"	2 7/8 Eue. 8R Pin by 3 1/2 IF		
			Box Sub	1.00	10430.07
3	2.441	2 7/8	6.50 lb N-80 Eue 8R Tubing	93.63	10523.70
1	2 1/8	3 3/4	2 7/8 by 3 1/2 Eue 8R Swage with		
			Collar	0.70	10524.40
1	2 5/8	4 3/4	3 1/2 Eue 8R box x 3 1/2 IF Pin Sub	1.00	10525.40
1	5/8	"	B.J. HMV Tool (Safety Valve)	7.15	10532.55
1	2 11/16	"	3 1/2 IF Box by 3 1/2 Eue w/3 1/2" Eue		
			Collar	1.00	10533.55
1	2.441	"	3 1/2 Eue by 2 7/8 Eue 8R Pin		
			Swedge	0.75	10534.30
1	"	"	B.J. FFC Packer	4.24	10538.54
1	"	"	6.50 lb N-80 Eue 8R Tubing	31.35	10569.89
1	"	"	6.50 lb N-80 Eue 8R Tubing Perf.		
			Jt.	31.52	10601.41
1	2.500	3.500	Recorder Hanger No. 2758	1.00	10602.41
1	"	"	Recorder Case	4.00	10606.41
1	"	"	Recorder Hanger No. 2759	1.00	10607.41
1	"	"	Recorder Case	4.00	10611.41
1	"	"	Recorder Hanger No. 2760	1.00	10612.41
1	"	"	Recorder Case	4.00	10616.41
			Overall Length of String		





DATE: July 16, 1970

## PHILLIPS PETROLEUM CO.

LEASE: Ekofisk

SURFACE PRESSURE

INTERVAL: 10606-10618

WELL NO.: 2/4-3X

TEST NO.: DST No. 3

TIME	WELLHEAD		REMARKS
	TEMP °F	PRESS PSIG	
2110			Set Packer
2122			Tool Opened
2122			Switched to B.J. Tank
2125		0	
2130		0	
2132		0	Shut Well in
2133		0	
3134		0	
2135		0	
2136		10	
2137		50	
2138		70	
2139		100	
2140		140	
2145		500	
2150		800	
2155		1100	
2200	46	1285	
2215	50	1745	
2230	52	2010	
2245	53	2190	
2300	53	2280	
2315	53	2305	
2330	53	2345	
2345	53	2370	
2400	52	2397	



TIME	WELLHEAD		REMARKS
	TEMP °F	PRESS PSIG	
0005	52	0	Opened the valve at 0002 hrs.
1520		0	Shut Well in at 1502 hrs.
1530	50	50	
1545		118	
1600	55	179	
1615		252	
1630	56	330	
1645	56	395	
1700	56	435	
1715	56	522	
1730	56	588	
1745	56	682	
1800	56	748	
1815	56	818	
1830	56	897	
1845	56	975	
1900	56	1027	
1915	56	1082	
1930	56	1122	
1945	56	1170	
2000	55	1209	
2015	55	1225	
2030	55	1230	
2045	55	1235	
2115	55	1240	
2130	55	1245	
2145	55	1243	
2200	55	1243	





# DRILL-STEM TEST DATA

Well Name <b>Phillips Ekofisk</b>	Test No <b>Three</b>
Well Number <b>2 - 4-3X</b>	Zone Tested <b>Perf 7" Casing w/4shots/ft. 10606 - 10618</b>
Company <b>Phillips Petroleum Company, Norway</b>	Interval
Comp Rep <b>E. Olsen</b>	Tester <b>D. Williams</b> Date <b>July 16, 1970</b>

Type of Test Casing RFS Tool No. \_\_\_\_\_

Preflow \_\_\_\_\_ mins. ISI \_\_\_\_\_ mins. Flow \_\_\_\_\_ mins. FSI \_\_\_\_\_ mins

Specify Inside or Outside	INS REC No. 2758	INS REC No. 2759	OUT REC No. 2760
	10600 RANGE 72 HR. CLOCK	10650 RANGE 72 HR. CLOCK	10650 RANGE 72 HR. CLOCK
DEPTH	10602	10607	10612
Initial Hydro Mud Press	8000	7989	8040
Initial Shut-In Press	7090	7078	7111
Initial Flow Press	4795	4768	4815
Final Flow Press	4427	4392	4440
Final Shut-In Press	7011	6972	7038
Final Hydro Mud Press	7962	7941	7989

Mud Drop Nil Fluid Loss 3.8 Mud Weight 14.4  
 Viscosity 43 Temperature °F 269 Net Pay Tested 10606 to 10618  
 Top Packer Depth 10538.54 Bottom Packer Depth \_\_\_\_\_ Total Depth 10635 Retainer  
 Drill Pipe Size 2 7/8" Tubing Wt. 6.50 Drill Collar I.D. \_\_\_\_\_ Ft. Run \_\_\_\_\_  
 Surface Choke Size 2" Bottom Choke Size 5/8" Main Hole Size 9 5/8" CSG 47  
 Anchor Size 2 7/8" Tubing Rat Hole Size 7" 29 # Casing Feet of Rat Hole \_\_\_\_\_  
 Cushion Amount Full Type Fresh Water Rubber Size 5.812"

Fluid Recovery Total Feet Pumped out 42 bbls, water cushion & 20 bbls Salt water with traces  
 Recovered \_\_\_\_\_ Feet of \_\_\_\_\_ of oil & gas & rathole mud,  
 Recovered \_\_\_\_\_ Feet of \_\_\_\_\_  
 Recovered \_\_\_\_\_ Feet of \_\_\_\_\_  
 Recovered \_\_\_\_\_ Feet of \_\_\_\_\_  
 Recovered \_\_\_\_\_ Feet of \_\_\_\_\_

Gas Recovery How Measured \_\_\_\_\_ Riser size: \_\_\_\_\_

_____ mins.	Temp. °F	Press Rdg. _____ psi	Orifice Size _____	=	_____ MCF/Day
_____ mins.	Temp. °F	Press Rdg. _____ psi	Orifice Size _____	=	_____ MCF/Day
_____ mins.	Temp. °F	Press Rdg. _____ psi	Orifice Size _____	=	_____ MCF/Day
_____ mins.	Temp. °F	Press Rdg. _____ psi	Orifice Size _____	=	_____ MCF/Day
_____ mins.	Temp. °F	Press Rdg. _____ psi	Orifice Size _____	=	_____ MCF/Day
_____ mins.	Temp. °F	Press Rdg. _____ psi	Orifice Size _____	=	_____ MCF/Day

Bleed Off Time for Drill Pipe \_\_\_\_\_

REMARKS: Poor initial flow staying throughout test. Flowed 20 1/2 Bbls water cushion during flow.

DRILL STEM TEST NUMBER THREE

TOOL DRAWING D.S.T. # 3

No.	I.D.	O.D.	Description	Length	Depth
			Baker Test Head		
			Hydril Valve		
9	2.441	2 7/8"	Tubing Above RKB (less)	6	6
			6.50 lb. N-80 8R Tubing	278.92	272.9
			Otis SST Tree Slick Jt. & Hanger	27.00	299.9
325	2.441	2 7/8"	6.50 lb. N-80 8R Tubing	10127.15	10427.0
1	2 17/32	4 3/8"	3 1/2 IF Pin by 2 7/8 Eue. 8R Box	1.00	10428.0
1	2 17/32	4 3/8"	3 1/2 Box by Pin Knock out Sub	1.00	10429.0
1	2 1/2"	4 3/8"	2 7/8 Eue. 8R Pin by 3 1/2 IF Box Sub	1.00	10430.0
3	2.441	2 7/8"	6.50 lb. N-80 Eue. 8R Tubing	93.63	10523.4
1	2 1/8	3 1/2"	2 7/8 by 3 1/2 Eue. 8R Swage with collar	.70	10524.4
1	2 5/8	4 1/2"	3 1/2 Eue. 8R Box X 3 1/2 IF Pin Sub	1.00	10525.4
1	5/8	4 1/2"	BJ HMV Tool (Safety Valve)	7.15	10532.5
1	2 11/16	4 1/2"	3 1/2 IF Box by 3 1/2 Eue. W/3 1/2" Eue. collar	1.00	10533.3
1	2.441	4 1/2"	3 1/2 Eue. by 2 7/8 Eue. Swedge	.75	10534.3
1	2.441	5.884	BJ FFC Packer	4.24	10538.5
1	2.441	2 7/8"	6.50 lb. N-80 Eue. 8R Tubing	31.35	10569.8
1	2.441	2 7/8"	6.50 lb. N-80 Eue. 8R Tubing Perf. Jt.	31.52	10601.4
1	2.500	3.500	Recorder Hanger No. 2758	1.00	10602.4
1	2.500	3.500	Recorder Case	4.00	10606.4
1	2.500	3.500	Recorder Hanger No. 2759	1.00	10607.4
1	2.500	3.500	Recorder Case	4.00	10611.4
1	2.500	3.500	Recorder Hanger No. 2760	1.00	10612.4
1	2.500	3.500	Recorder Case	4.00	10616.4

Overall Length of String

DRILL STEM TEST NUMBER THREE

Test Started: 122 hrs. July 16/70

Test Completed: 0102 hrs. July 18/70

Operations	Time		Length of Test		Choke Size	Wellhead		Water BPD	BHP PSIA
	From	To	Hrs.	Mins.		Press PSIA	Temp. OF.		
IF	2122	2132	-	10	1"	0	-	-	4795
ISI	2132	0902	2	30	None	2412	-	-	7121
FF	0902	1502	15	-	1"	0	52	-	4437
FSI	1502	0102	10	-	None	1530	-	-	7060

Recovered total of 20.25 bbls. water with good trace of oil & gas.

Rm = 0.376 @ 60°F.  
Cl = 33,000 ppm.

Very fresh for formation water

IHP - 7998

FHP - 7973



DRILL STEM TEST NUMBER THREE

PRESSURE COMPARISON

Point	Recorder # 2758	Recorder # 2759	Recorder # 2760
A	8000	7989	8040
B	4770	4746	4799
C	7090	7078	7111
D	4795	4768	4815
E	4427	4392	4440
F	7011	6972	7038
G	7962	7941	7989

TIME DEFLECTIONS (MIN)

Point	Surface	# 2758	# 2759	# 2760
A to B	10	10	10	10
B to C	150	127	132	135
C to E	960	883	921	920
E to F	600	552	574	565

NOTE: NO PRESSURE EXTRAPOLATION BECAUSE OF UNCONVENTIONAL FINAL SHUT IN



5 Min DST PRESSURE INCREMENTS of Preflow Period

Recorder No. 2750

Depth 10,602

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG
1	0	Point A		8000				
2	5			4768				
3	10	Point B		4770				
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								



5 Min. DST PRESSURE INCREMENTS on I.S.I.P.  
Points B to C

Recorder No. 2758

Depth 10602

Page 1 of 1

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T + 0	$\frac{T+0}{0}$	PSIG	Time Defl. "	T + 0	$\frac{T+0}{0}$	PSIG
1	0	Point B		4770	120			7085
2	5			4784	125			7090
3	10			5022	127	Point C		7090
4	15			5653				
5	20			6005				
6	25			6278				
7	30			6460				
8	35			6599				
9	40			6601				
10	45			6770				
11	50			6829				
12	55			6883				
13	60			6914				
14	65			6958				
15	70			6979				
16	75			7000				
17	80			7016				
18	85			7032				
19	90			7027				
20	95			7037				
21	100			7043				
22	105			7064				
23	110			7072				
24	115			7085				



5 Min. DST PRESSURE INCREMENTS on Flow Period  
Points C to E

Recorder No. 2758

Depth 10602

Page 1 of 4

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG
1	0	Point C		7090	120			4819
2	5			6102	125			4819
3	10			5369	130			4819
4	15	Point D		4795	135			4819
5	20			4795	140			4819
6	25			4797	145			4816
7	30			4800	150			4816
8	35			4800	155			4816
9	40			4803	160			4816
10	45			4806	165			4816
11	50			4806	170			4816
12	55			4808	175			4816
13	60			4808	180			4816
14	65			4811	185			4816
15	70			4811	190			4816
16	75			4814	195			4816
17	80			4814	200			4816
18	85			4816	205			4816
19	90			4816	210			4816
20	95			4816	215			4816
21	100			4816	220			4816
22	105			4819	225			4816
23	110			4819	230			4814
24	115			4819	235			4814



MIDST PRESSURE INCREMENTS on Flow Period  
Points C to E

Recorder No. 2758

Depth 10602

Page 2 of 4

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T + G	$\frac{T+G}{\ominus}$	PSIG	Time Defl. "	T + G	$\frac{T+G}{\ominus}$	PSIG
1	240			4814	360			4795
2	245			4814	365			4795
3	250			4814	370			4792
4	255			4814	375			4792
5	260			4811	380			4789
6	265			4811	385			4789
7	270			4811	390			4789
8	275			4811	395			4787
9	280			4811	400			4787
10	285			4811	405			4787
11	290			4808	410			4784
12	295			4808	415			4784
13	300			4808	420			4784
14	305			4808	425			4781
15	310			4808	430			4778
16	315			4806	435			4778
17	320			4806	440			4776
18	325			4806	445			4776
19	330			4803	450			4773
20	335			4800	455			4770
21	340			4800	460			4770
22	345			4797	465			4768
23	350			4797	470			4768
24	355			4795	475			4765



Min. DST PRESSURE INCREMENTS on Flow Period  
Points C to E

Recorder No. 2758

Depth 10602

Page 3 of 4

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG
1	480			4762	600			4722
2	485			4760	605			4722
3	490			4760	610			4719
4	495			4760	615			4716
5	500			4757	620			4714
6	505			4757	625			4714
7	510			4754	630			4711
8	515			4751	635			4708
9	520			4751	640			4706
10	525			4751	645			4703
11	530			4751	650			4700
12	535			4746	655			4697
13	540			4743	660			4695
14	545			4741	665			4692
15	550			4741	670			4689
16	555			4738	675			4687
17	560			4735	680			4681
18	565			4735	685			4678
19	570			4733	690			4676
20	575			4733	695			4670
21	580			4730	700			4662
22	585			4727	705			4657
23	590			4727	710			4649
24	595			4724	715			4638



5 Min DST PRESSURE INCREMENTS on flow Period Points C to E

Recorder No. 2758

Depth 10602

Page 4 of 4

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG
1	720			4627	840			4446
2	725			4827	845			4446
3	730			4808	850			4449
4	735			4530	855			4443
5	740			4527	860			4416
6	745			4527	865			4411
7	750			4524	870			4414
8	755			4522	875			4419
9	760			4514	880			4424
10	765			4506	883	Point E		4427
11	770			4500				
12	775			4497				
13	780			4495				
14	785			4492				
15	790			4487				
16	795			4481				
17	800			4476				
18	805			4473				
19	810			4462				
20	815			4462				
21	820			4462				
22	825			4462				
23	830			4454				
24	835			4446				



5 Min. DST PRESSURE INCREMENTS on Final Shut In  
Points E to F

Recorder No. 2758

Depth 10602

Page 1 of 3

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG
1	0	Point E		4427	120			5129
2	5			4465	125			5155
3	10			4492	130			5187
4	15			4524	135			5214
5	20			4551	140			5236
6	25			4578	145			5267
7	30			4608	150			5294
8	35			4638	155			5327
9	40			4670	160			5358
10	45			4697	165			5391
11	50			4724	170			5423
12	55			4751	175			5460
13	60			4784	180			5503
14	65			4811	185			5545
15	70			4838	190			5589
16	75			4865	195			5636
17	80			4897	200			5680
18	85			4924	205			5743
19	90			4951	210			5813
20	95			4984	215			5877
21	100			5011	220			5947
22	105			5043	225			6016
23	110			5070	230			6090
24	115			5096	235			6150





5 Min. DST PRESSURE INCREMENTS on Final Shut In  
Points E to F

Recorder No. 2758

Depth 10602

Page 2 of 3

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG
1	240			6214	360			7027
2	245			6278	365			7032
3	250			6332	370			7037
4	255			6423	375			7037
5	260			6492	380			7043
6	265			6556	385			7043
7	270			6620	390			7048
8	275			6674	395			7048
9	280			6725	400			7048
10	285			6770	405			7048
11	290			6797	410			7048
12	295			6834	415			7048
13	300			6861	420			7032
14	305			6888	425			7000
15	310			6909	430			6984
16	315			6931	435			6974
17	320			6941	440			6968
18	325			6958	445			6968
19	330			6974	450			6968
20	335			6984	455			6966
21	340			6995	460			6966
22	345			7005	465			6966
23	350			7011	470			6966
24	355			7016	475			6966



Min. DST PRESSURE INCREMENTS on Final Shut In

Recorder No. 2758

Depth 10602

Page 3 of 3

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG
1	480			6966				
2	485			6968				
3	490			6968				
4	495			6974				
5	500			6979				
6	505			6981				
7	510			6989				
8	515			6992				
9	520			6997				
10	525			7000				
11	530			7005				
12	535			7011				
13	540			7016				
14	545			7022				
15	550			7011				
16	552	Point	F	7011				
17		Point	G	7962				
18								
19								
20								
21								
22								
23								
24								



5 min DST PRESSURE INCREMENTS on Preflow

Recorder No. 2759

Depth 10607

Page 1 of 1

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T + 0	$\frac{T + 0}{\bullet}$	PSIG	Time Defl. "	T + 0	$\frac{T + 0}{\bullet}$	PSIG
1	0	Point A		7989				
2	5			4735				
3	10	Point B		4746				
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								



5 MI. DST PRESSURE INCREMENTS

on I.S.I.P.  
Point B to C

Recorder No. 2259

Depth 10607

Page 1 of 1

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+0	$\frac{T+0}{6}$	PSIG	Time Defl. "	T+0	$\frac{T+0}{6}$	PSIG
1	0	Point B		4746	120			7065
2	5			4762	125			7070
3	10			4995	130			7076
4	15			5554	132	Point C		7078
5	20			5925				
6	25			6203				
7	30			6385				
8	35			6524				
9	40			6626				
10	45			6711				
11	50			6776				
12	55			6829				
13	60			6872				
14	65			6914				
15	70			6947				
16	75			6968				
17	80			6984				
18	85			7000				
19	90			7011				
20	95			7011				
21	100			7027				
22	105			7032				
23	110			7043				
24	115			7054				



5 MIN. DST PRESSURE INCREMENTS

on Flow Period  
Points C to E

Recorder No. 2759

Depth 10607

Page 1 of 4

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG
1	0	Point C		7078	120			4797
2	5			6123	125			4797
3	10			5458	130			4797
4	15	Point D		4768	135			4797
5	20			4773	140			4797
6	25			4778	145			4797
7	30			4781	150			4797
8	35			4781	155			4797
9	40			4784	160			4797
10	45			4784	165			4797
11	50			4787	170			4797
12	55			4787	175			4797
13	60			4789	180			4797
14	65			4789	185			4797
15	70			4789	190			4797
16	75			4792	195			4797
17	80			4792	200			4797
18	85			4792	205			4795
19	90			4792	210			4795
20	95			4795	215			4795
21	100			4795	220			4795
22	105			4795	225			4795
23	110			4795	230			4795
24	115			4797	235			4795



5 Min. DST PRESSURE INCREMENTS

on Flow Period  
Point C to E

Recorder No. 2759

Depth 10607

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Points	INITIAL CIP			FINAL CIP				
	Time Defl. "	T+0	$\frac{T+0}{\bullet}$	PSIG	Time Defl. "	T+0	$\frac{T+0}{\bullet}$	PSIG
1	240			4795	360			4773
2	245			4795	365			4770
3	250			4795	370			4768
4	255			4795	375			4768
5	260			4795	380			4768
6	265			4795	385			4765
7	270			4792	390			4762
8	275			4792	395			4762
9	280			4792	400			4762
10	285			4789	405			4760
11	290			4787	410			4757
12	295			4787	415			4757
13	300			4787	420			4754
14	305			4784	425			4754
15	310			4784	430			4751
16	315			4784	435			4751
17	320			4781	440			4751
18	325			4781	445			4746
19	330			4778	450			4746
20	335			4778	455			4746
21	340			4776	460			4743
22	345			4773	465			4743
23	350			4773	470			4743
24	355			4773	475			4741



5 Min. DST PRESSURE INCREMENTS on Flow Period  
Point C to E

Recorder No. 2759

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Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG
1	480			4741	600			4697
2	485			4735	605			4697
3	490			4735	610			4697
4	495			4735	615			4695
5	500			4733	620			4692
6	505			4730	625			4689
7	510			4730	630			4687
8	515			4727	635			4687
9	520			4724	640			4684
10	525			4724	645			4681
11	530			4724	650			4681
12	535			4722	655			4678
13	540			4719	660			4676
14	545			4719	665			4673
15	550			4716	670			4673
16	555			4714	675			4670
17	560			4714	680			4667
18	565			4711	685			4665
19	570			4708	690			4662
20	575			4708	695			4660
21	580			4706	700			4654
22	585			4703	705			4654
23	590			4703	710			4649
24	595			4700	715			4643



5 Min DST PRESSURE INCREMENTS

on Flow Period  
Point C to E

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Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG
1	720			4621	840			4438
2	725			4635	845			4430
3	730			4630	850			4427
4	735			4622	855			4430
5	740			4616	860			4430
6	745			4608	865			4422
7	750			4595	870			4414
8	755			4562	875			4411
9	760			4511	880			4414
10	765			4497	885			4419
11	770			4497	890			4416
12	775			4497	895			4389
13	780			4497	900			4378
14	785			4492	905			4384
15	790			4487	910			4386
16	795			4478	915			4389
17	800			4470	920			4392
18	805			4465	921	Point E		4392
19	810			4465				
20	815			4460				
21	820			4457				
22	825			4454				
23	830			4449				
24	835			4443				





5 Min DST PRESSURE INCREMENTS on Final Shut In  
Point E to F

Recorder No. 2759

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Points	INITIAL CIP			FINAL CIP				
	Time Defl. "	T+0	$\frac{T+0}{\bullet}$	PSIG	Time Defl. "	T+0	$\frac{T+0}{\bullet}$	PSIG
1	0	Point E		4392	120			5076
2	5			4438	125			5103
3	10			4465	130			5135
4	15			4492	135			5162
5	20			4519	140			5188
6	25			4551	145			5215
7	30			4578	150			5240
8	35			4608	155			5269
9	40			4638	160			5269
10	45			4665	165			5328
11	50			4689	170			5355
12	55			4719	175			5388
13	60			4746	180			5420
14	65			4773	185			5463
15	70			4800	190			5500
16	75			4832	195			5543
17	80			4859	200			5570
18	85			4881	205			5629
19	90			4908	210			5688
20	95			4941	215			5748
21	100			4968	220			5807
22	105			4995	225			5877
23	110			5016	230			5936
24	115			5046	235			6000



5 Min. DST PRESSURE INCREMENTS on Final Shut In  
Points E to F

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Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG
1	240			6070	360			6987
2	245			6134	365			6995
3	250			6198	370			7000
4	255			6262	375			7005
5	260			6311	380			7011
6	265			6385	385			7016
7	270			6465	390			7019
8	275			6535	395			7022
9	280			6594	400			7030
10	285			6642	405			7030
11	290			6685	410			7027
12	295			6733	415			7027
13	300			6770	420			7027
14	305			6802	425			7027
15	310			6834	430			7022
16	315			6856	435			7000
17	320			6877	440			6974
18	325			6898	445			6960
19	330			6914	450			6947
20	335			6931	455			6941
21	340			6947	460			6936
22	345			6958	465			6936
23	350			6968	470			6936
24	355			6978	475			6936



5 Min. DST PRESSURE INCREMENTS on Final Shut In  
Points E to F

Recorder No. 2759

Depth 10607

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Points	INITIAL CIP				FINAL CIP			
	Time Def. "	T+0	$\frac{T+0}{0}$	PSIG	Time Def. "	T+0	$\frac{T+0}{0}$	PSIG
1	480			6936				
2	485			6936				
3	490			6939				
4	495			6939				
5	500			6941				
6	505			6944				
7	510			6947				
8	515			6952				
9	520			6958				
10	525			6963				
11	530			6963				
12	535			6971				
13	540			6974				
14	545			6979				
15	550			6984				
16	555			6989				
17	560			6996				
18	565			7000				
19	570			6972				
20	574	Point	F	6972				
21		Point	G	7941				
22								
23								
24								



5 min DST PRESSURE INCREMENTS On preflow point A to B

Recorder No. 2760

Depth 10612

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Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG
1	0	Point	A	8040				
2	5			4793				
3	10	Point	B	4799				
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								



5 min DST PRESSURE INCREMENTS On I.S.I.P. Point B to C

Recorder No. 2760

Depth 10612

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Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG
1	0	Point	B	4799	120			7097
2	5			4810	125			7103
3	10			4989	130			7108
4	15			5567	135	Point	C	7111
5	20			5920				
6	25			6193				
7	30			6407				
8	35			6545				
9	40			6658				
10	45			6743				
11	50			6807				
12	55			6861				
13	60			6909				
14	65			6947				
15	70			6979				
16	75			7003				
17	80			7019				
18	85			7038				
19	90			7051				
20	95			7049				
21	100			7054				
22	105			7070				
23	110			7076				
24	115			7081				



5 min DST PRESSURE INCREMENTS On Flow period Point C to E

Recorder No. 2760

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Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG	Time Defl. "	T+0	$\frac{T+0}{0}$	PSIG
1	0	Point C		7111	120			4842
2	5			6374	125			4845
3	10			5631	130			4845
4	15	Point D		4815	135			4845
5	20			4821	140			4845
6	25			4821	145			4845
7	30			4824	150			4845
8	35			4826	155			4845
9	40			4826	160			4845
10	45			4829	165			4845
11	50			4829	170			4845
12	55			4831	175			4845
13	60			4831	180			4845
14	65			4834	185			4845
15	70			4837	190			4848
16	75			4837	195			4848
17	80			4837	200			4848
18	85			4840	205			4845
19	90			4840	210			4845
20	95			4840	215			4845
21	100			4842	220			4842
22	105			4842	225			4842
23	110			4842	230			4842
24	115			4842	235			4842



5 min DST PRESSURE INCREMENTS On flow period Point C to E

Recorder No. 2760

Depth 10612

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Points	INITIAL CIP			FINAL CIP				
	Time Defl. "	T + $\theta$	$\frac{T + \theta}{\theta}$	PSIG	Time Defl. "	T + $\theta$	$\frac{T + \theta}{\theta}$	PSIG
1	240			4842	360			4818
2	245			4842	365			4815
3	250			4842	370			4815
4	255			4840	375			4815
5	260			4840	380			4813
6	265			4837	385			4810
7	270			4837	390			4810
8	275			4837	395			4810
9	280			4834	400			4807
10	285			4834	405			4804
11	290			4834	410			4804
12	295			4834	415			4802
13	300			4834	420			4802
14	305			4832	425			4799
15	310			4829	430			4799
16	315			4829	435			4799
17	320			4829	440			4796
18	325			4826	445			4793
19	330			4826	450			4793
20	335			4824	455			4791
21	340			4824	460			4791
22	345			4821	465			4788
23	350			4821	470			4788
24	355			4821	475			4788

C



5 min DST PRESSURE INCREMENTS On flow period Point C to E

Recorder No 2760

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Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T + $\ominus$	$\frac{T + \ominus}{\ominus}$	PSIG	Time Defl. "	T + $\ominus$	$\frac{T + \ominus}{\ominus}$	PSIG
1	480			4785	600			4745
2	485			4782	605			4742
3	490			4782	610			4742
4	495			4780	615			4739
5	500			4780	620			4739
6	505			4770	625			4737
7	510			4774	630			4734
8	515			4774	635			4734
9	520			4772	640			4731
10	525			4769	645			4728
11	530			4769	650			4728
12	535			4766	655			4726
13	540			4766	660			4723
14	545			4764	665			4723
15	550			4764	670			4718
16	555			4761	675			4715
17	560			4758	680			4712
18	565			4758	685			4712
19	570			4755	690			4707
20	575			4755	695			4707
21	580			4753	700			4701
22	585			4750	705			4698
23	590			4750	710			4696
24	595			4747	715			4690





5 min DST PRESSURE INCREMENTS On flow period Point C to E

Recorder No. 2760

Depth 10612

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Points	INITIAL CIP			FINAL CIP				
	Time Defl. "	T + 0	$\frac{T + 0}{0}$	PSIG	Time Defl. "	T + 0	$\frac{T + 0}{0}$	PSIG
1	720			4687	840			4481
2	725			4679	845			4472
3	730			4677	850			4475
4	735			4671	855			4473
5	740			4663	860			4473
6	745			4652	865			4467
7	750			4641	870			4459
8	755			4603	875			4457
9	760			4554	880			4457
10	765			4544	885			4462
11	770			4544	890			4459
12	775			4544	895			4435
13	780			4544	900			4424
14	785			4538	905			4424
15	790			4530	910			4430
16	795			4522	915			4435
17	800			4517	920	Point	E	4440
18	805			4511				
19	810			4508				
20	815			4506				
21	820			4503				
22	825			4500				
23	830			4495				
24	835			4489				

C



5 min DST PRESSURE INCREMENTS On F.S.I.P. Point E to F

Recorder No. 2760

Depth 10612

Page 1 of 3

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T + 0	$\frac{T+0}{0}$	PSIG	Time Defl. "	T + 0	$\frac{T+0}{0}$	PSIG
1	0	Point	E	4440	120			5193
2	5			4478	125			5198
3	10			4506	130			5198
4	15			4538	135			5214
5	20			4565	140			5238
6	25			4592	145			5267
7	30			4623	150			5294
8	35			4652	155			5327
9	40			4682	160			5353
10	45			4712	165			5380
11	50			4737	170			5407
12	55			4761	175			5439
13	60			4793	180			5476
14	65			4821	185			5513
15	70			4851	190			5556
16	75			4880	195			5599
17	80			4902	200			5636
18	85			4929	205			5685
19	90			4956	210			5743
20	95			4984	215			5802
21	100			5011	220			5867
22	105			5041	225			5936
23	110			5064	230			5989
24	115			5067	235			6059



5 min DST PRESSURE INCREMENTS On F.S.I.P. Point E to F

Recorder No. 2760

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Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T + $\theta$	$\frac{T + \theta}{\theta}$	PSIG	Time Defl. "	T + $\theta$	$\frac{T + \theta}{\theta}$	PSIG
1	240			6129	360			7032
2	245			6198	365			7049
3	250			6262	370			7054
4	255			6316	375			7054
5	260			6369	380			7054
6	265			6444	385			7059
7	270			6674	390			7062
8	275			6677	395			7065
9	280			6677	400			7065
10	285			6701	405			7065
11	290			6738	410			7067
12	295			6780	415			7067
13	300			6818	420			7067
14	305			6851	425			7067
15	310			6877	430			6992
16	315			6904	435			6987
17	320			6920	440			6987
18	325			6941	445			6984
19	330			6995	450			6984
20	335			6997	455			6979
21	340			7000	460			6976
22	345			7027	465			6976
23	350			7029	470			6976
24	355			7032	475			6974



5 min DST PRESSURE INCREMENTS On F.S.I.P. Point E to F

Recorder No. 2760

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Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+Θ	$\frac{T+\Theta}{\ominus}$	PSIG	Time Defl. "	T+Θ	$\frac{T+\Theta}{\ominus}$	PSIG
1	480			6974				
2	485			6974				
3	490			6974				
4	495			6974				
5	500			6979				
6	505			6981				
7	510			6987				
8	515			6989				
9	520			6995				
10	525			7000				
11	530			7005				
12	535			7011				
13	540			7016				
14	545			7022				
15	550			7027				
16	555			7030				
17	560			7032				
18	565	Point	F	7038				
19		Point	G	7989				
20								
21								
22								
23								
24								



