

DST NO. 7

No.	I.D.	O.D.	Description	Length	Depth
			Baker Test Head		
			Hydril Valve		
9	2.441	2 7/8	Tubing Above RKB (Less)	-16.00	
		2 1/2	6.50 lb N-80 8R Tubing	278.92	262.92
			Otis SST Tree Slick Jt. & Hanger	27.00	289.92
314	2.441	2 7/8	6.50 lb N-80 8R Tubing	9796.80	10086.72
	2 17/32	4 3/4	3 1/2 IF Pin by 2 7/8 Eue. 8R Box	1.00	10087.72
	2 17/32	4 3/4	3 1/2 Box by Pin Knock out Sub	1.00	10088.72
	2 1/2	4 3/4	2 7/8 Eue. 8R Pin by 3 1/2 IF Box Sub	1.00	10089.72
	2.441	2 7/8	6.50 lb N-80 Eue 8R Tubing	93.60	10183.32
	2 1/2		B.J. Unloader Valve	2.00	10185.32
	2 1/2	5.812	B.J. FFC Packer	4.24	10189.56
2	2.441	2 7/8	6.50 lb N-80 Eue 8R Tubing	62.40	10251.96
1	2.441	2 7/8	6.50 lb N-80 Eue 8R Tubing Perf.Jt.	31.52	10283.48
1	2 1/2	3 1/2	Recorder Hanger No. 2758	1.00	10284.48
1	2 1/2	3 1/2	Recorder Case	4.00	10288.48
1	2 1/2	3 1/2	Recorder Hanger No. 2759	1.00	10289.48
1	2 1/2	3 1/2	Recorder Case	4.00	10293.48
1	2 1/2	3 1/2	Recorder Hanger No. 2760	1.00	10294.48
1	2 1/2	3 1/2	Recorder Case	4.00	10298.48
			Overall Length of String		

DATE: July 26, 1970**PHILLIPS PETROLEUM CO.**LEASE: EKOFISK

SURFACE PRESSURE

INTERVAL: 10260-340WELL NO.: 2/4-3XTEST NO.: 7

TIME	WELLHEAD		REMARKS
	TEMP °F	PRESS PSIG	
1505			Final displacement pressure
1515			Open to B.J. tanks
1520		0	
1526		300	Shut well in for ISI at 1525 hrs.
1527		725	
1528		1200	
1529		1525	
1530		1710	
1535		2250	
1540		2400	
1545		2450	
1600	58	2475	
1615	57	2508	
1630	57	2515	
1645	56	2520	
1700	56	2523	
1715	56	2528	
1730	56	2530	
1745	56	2532	
1755			Open well for clean up flow

DATE: July 26, 1970



PHILLIPS PETROLEUM CO.

Sheet 1 of 1

WELL: 2/4-3X

TEST NO.: 7

METER RUN SIZE: 7.625 I.D.

WELL PRODUCTION TEST

PERF.ZONE: 10260-10340
 GAS OIL ~~GOR WATER~~

WELLHEAD.			METER ORIFICE	DIFF hw	METER PRESS psia	METER TEMP °F	$\sqrt{hw P}$	1		2		3		4		C		mmcf	bpd	bpd
TIME	PRESS	TEMP						Ftf	Fb	Fb x 24	Fg	Fpv	FtfxFbxFgxFpv	C $\sqrt{hw P}$						
Well cleaned up from 1755 to 2330 hrs. at 2330 hrs, well flowed thru separator.																				
2330	335	60	8x1/12	22	265		76.35	0.9723	453.02	10873	1.2263	1.0164	13178	1.006						
2400	326	64	"	"	"	90	"	"	"	"	"	"	"	"	"	"	"	893	1126	
0030	330	63	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	720	1397	
0100	210	62	"	"	"	93	"	0.9697	"	"	"	1.0161	13138	1.003	624	1607				
0130	340	63	"	20	"	90	72.80	0.9723	"	"	"	1.0164	13178	0.959	725	1323				
0200	347	62	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	686	1398	
0230	340	63	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	682	1406	
0300	350	62	"	"	285	93	75.50	0.9697	"	"	"	1.0174	13155	0.993	686	1447				
0330	337	63	"	19	"	"	73.60	"	"	"	"	"	"	0.968	691	1401				
0400	339	62	"	"	"	92	"	0.9706	"	"	"	1.0175	13168	0.969	686	1412				
0430	335	64	"	"	"	"	"	"	"	"	"	"	"	"	682	1421				
0500	334	63	"	"	"	91	"	0.9715	"	"	"	1.0176	13182	0.970	"	1422				
0530	375	64	"	"	"	93	"	0.9697	"	"	"	1.0174	13155	0.968	672	1440				
0600	338	"	"	18	"	"	71.63	"	"	"	"	"	"	0.942	667	1412				
0630	340	"	"	"	"	"	"	"	"	"	"	"	"	"	677	1387				
0700	339	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"				
0730	339	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"				
0800	344	65	"	"	"	96	"	0.9671	"	"	"	1.0170	13114	0.939	648	1449				
0830	342	"	"	"	"	"	"	"	"	"	"	"	"	"	677	1387				
0900	335	"	"	19	"	"	73.60	"	"	"	"	"	"	0.965	"	1425				
0930	"	"	"	"	"	"	"	"	"	"	"	"	"	"	667	1446				
Oil Gravity = 35° API at 60°F. Ave (0300 - 0930 hrs.)																		0.954	676	1417



TIME	WELLHEAD		REMARKS
	TEMP °F	PRESS PSIG	
0945	66	585	Shut well in at 0936 hrs.
0950	67	630	
0955	68	775	
1000	69	840	
1015	72	1070	
1030	75	1365	
1045	74	1870	
1100	70	2380	
1115	70	2911	
1130	68	3124	
1145	68	3300	
1200	66	3365	
1215	65	3415	
1230	64	3450	
1245	63	3500	
1300	62	3525	
1315	62	3560	
1330	62	3570	
1345	62	3595	
1400	61	3610	
1415	61	3625	
1430	61	3645	
1445	60	3655	
1500	59	3670	
1515	58	3675	
1530	58	3687	
1530	58	3687	
1545	57	3695	



TIME	WELLHEAD		REMARKS
	TEMP °F	PRESS PSIG	
1600	56	3708	
1615	56	3718	
1630	56	3725	
1645	56	3735	
1700	56	3743	
1715	56	3750	
1730	56	3758	
1745	56	3762	
1800	56	3764	
1815	56	3770	
1830	54	3776	
1845	54	3785	
1900	53	3792	
1915	56	3795	
1930	56	3797	
1936			Kill Well



DRILL-STEM TEST DATA

Well Name <u>Phillips Ekofisk</u>	Test No. <u>Seven</u>
Well Number <u>2-4-3X</u>	Zone Tested
Company <u>Phillips Petroleum Company, Norway</u>	Interval <u>10260-10340 4 shots/ft</u>
Comp Rep <u>O.C. Rolls</u>	Tester <u>D. Williams</u>
	Date <u>July 26, 1970</u>

Type of Test Casing Hook Wall RFS Tool No _____

Preflow _____ mins ISI _____ mins Flow _____ mins FSI _____ mins

Specify Inside or Outside	INS REC No. <u>2758</u>	INS REC No. <u>2759</u>	OUT REC No. <u>2760</u>
	<u>10650</u> RANGE <u>72</u> HR CLOCK	<u>10600</u> RANGE <u>72</u> HR CLOCK	<u>10600</u> RANGE <u>72</u> HR CLOCK
DEPTH	<u>10284.48</u>	<u>10289.48</u>	<u>10294.48</u>
Initial Hydro Mud Press			
Initial Shut-In Press			
Initial Flow Press			
Final Flow Press			
Final Shut-In Press			
Final Hydro Mud Press			

Mud Drop Nil Fluid Loss 3.2 Mud Weight 14
 Viscosity 4 Temperature °F 262 Net Pay Tested _____
 Top Packer Depth 10139.56 Bottom Packer Depth _____ Total Depth _____
 Drill Pipe Size 2 7/8 Tubing Wt. 6.5 Drill Collar I.D. _____ Ft Run _____
 Surface Choke Size _____ Bottom Choke Size Nil Main Hole Size 9 5/8 47# Casing
 Anchor Size 2 7/8 Tubing Rat Hole Size 29# 7" Casing Feet of Rat Hole _____
 Cushion Amount Full Type Fresh Water Rubber Size 5.812

Fluid Recovery Total Feet _____
 Recovered _____ Feet of _____
 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 Displaced Tubing to fresh water, set packer & bled off pressure. Flowed back 3' BBIS during 10 min, initial flow. On second flow gas to surface after 1 hr, 56 mins, oil to surface after 2 hrs, 16 mins. Cleaned up well & flowed through separator. Killed well & reversed circulation.

Core Lab Gas Cont. No. _____ Chem - Geo. Lab Gas Cont. No. _____

DRILL STEM TEST NUMBER SEVEN

PRESSURE COMPARISON

POINT	RECORDER # 2758	RECORDER # 2759	RECORDER # 2760
A	7798	7802	7812
B	8421	8440	8453
C	4630	4638	4658
D	7069	7086	7097
E	4654	4665	4685
F	1000	1036	1163
G	1353	1375	1511
H	6741	6754	6754
I	7798	7802	7812

TIME DEFLECTION COMPARISON

IN MINUTES

POINT	SURFACE	# 2758	# 2759	# 2760
B-C	10	10	10	10
C- D	150	130	129	125
D-F	335	325	328	320
F-G	606	628	623	599
G-H		556	550	532

DRILL STEM TEST NUMBER SEVEN

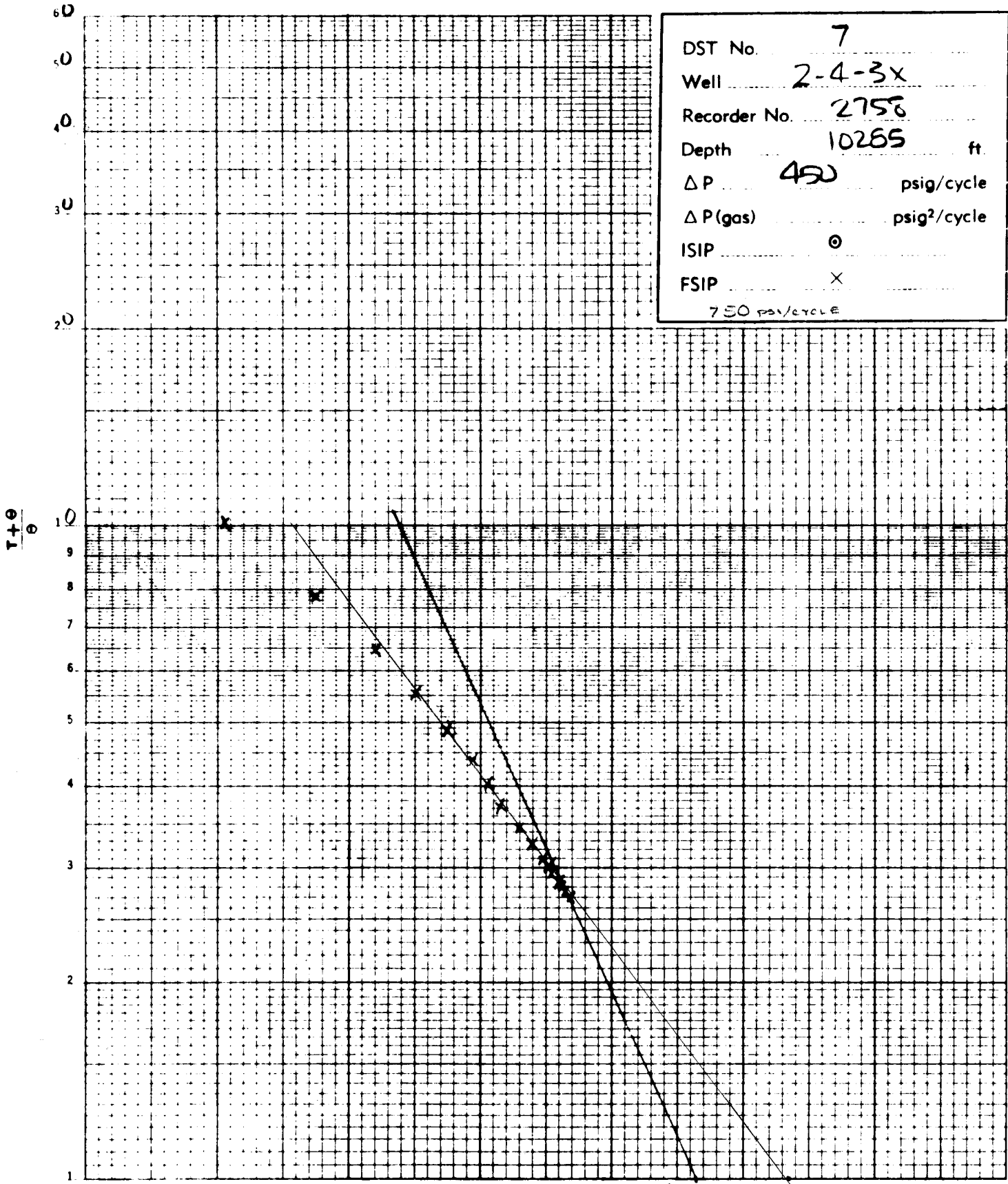
Operation	Time		Length of Test		Choke Size	Wellhead	
	From	To	Hrs.	Mins		Press PSIA	Temp °F
IF	1515	1525		10	Open	0	
IS1	1525	1755	2	30		2547	56
Clean Up	1755	2330	5	35	Open	300	60
Flow #1	2330	0936	10	06	11	340	64
F.S.I.	No information Supplied						

Drill Stem Test Number Seven

No.	I.D.	O.D.	Description	Length	Depth
			Baker Test Head		
			Hydril Valve		
			Tubing Above RKB (Less)		
9	2.441	2 7/8	6.50lb N-80 8R Tubing	278.92	
			Otis SST Tree Slick Jt. & Hanger	27.00	
314	2.441	2 7/8	6.50lb N-80 8R Tubing	9796.80	
	2 17/32	4 3/4	3 1/2 IF Pin X 2 7/8 Eue 8R Box	1.00	
	2 17/32	4 3/4	3 1/2 Box X Pin knock out sub	1.00	
	2 1/2	4 3/4	2 7/8 Eue 8R Pin X 3 1/2 IF Box Sub	1.00	
	2.441	2 7/8	6.50lb N-80 Eue 8R Tubing	93.60	
	2 1/2		Unloader Collar	2.00	
	2 1/2	5.812	BJ FFC Packer	4.24	10189.56
2	2.441	2 7/8	6.50lb N-80 Eue 8R Tubing	62.40	
1	2.441	2 7/8	6.50lb N-80 Eue 8R Tubing Perf Jt.	31.52	
	2.5	3.5	Recorder Hanger # 2758	1.00	10281.48
	2.5	3.5	Recorder Case	4.00	
	2.5	3.5	Recorder Hanger # 2759	1.00	10289.48
	2.5	3.5	Recorder Case	4.00	
	2.5	3.5	Recorder Hanger # 2760	1.00	10294.48
	2.5	3.5	Recorder Case	4.00	
			Overall Length of String		10298.48



DST No. 7
 Well 2-4-3x
 Recorder No. 2758
 Depth 10285 ft
 ΔP 450 psig/cycle
 ΔP(gas) psig²/cycle
 ISIP ⊙
 FSIP ×
 750 psi/cycle



6000

7065
5.37
750

6400

6800

6900 7000

7200



5 min DST PRESSURE INCREMENTS On Preflow Page 1 of 1
Points B to C

Recorder No. 2758

Depth 10285

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T + 0	$\frac{T + 0}{0}$	PSIG	Time Defl. "	T + 0	$\frac{T + 0}{0}$	PSIG
1	-	Point A		7798				
2	0	Point B		8421				
3	5			4611				
4	10	Point C		4630				
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 C to D

Recorder No 2758

Depth 10285

Page 1 of 1

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T + θ	$\frac{T + \theta}{\theta}$	PSIG	Time Defl. "	T + θ	$\frac{T + \theta}{\theta}$	PSIG
1	0	Point C		4630	120	130	✓ 1.08	7069
2	5	15	3.00	6995	125			7069
3	10			7016	130	140 Point D	1.08	7069
4	15			7027				
5	20			7032				
6	25			7037				
7	30			7043				
8	35	45	1.29	7045				
9	40			7048				
10	45			7048				
11	50			7051				
12	55			7053				
13	60			7053				
14	65	75	1.15	7056				
15	70			7059				
16	75			7059				
17	80			7059				
18	85			7061				
19	90			7061				
20	95			7061				
21	100	110	1.10	7064				
22	105			7064				
23	110			7067				
24	115			7067				



5 min DST PRESSURE INCREMENTS On clean up flow Point D to F

Recorder No. 2758

Depth 10285

Page 1 of 2

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+Θ	$\frac{T+\Theta}{\Theta}$	PSIG	Time Defl. "	T+Θ	$\frac{T+\Theta}{\Theta}$	PSIG
1	0	Point D		7069	120			4022
2	5			6145	125			3935
3	10			4962	130			3827
4	15	Point E		4654	135			3670
5	20			4660	140			3551
6	25			4668	145			3260
7	30			4673	150			2984
8	35			4673	155			2707
9	40			4665	160			2375
10	45			4649	165			2049
11	50			4627	170			1826
12	55			4627	175			1565
13	60			4573	180			1973
14	65			4543	185			1690
15	70			4514	190			1549
16	75			4478	195			1375
17	80			4443	200			1326
18	85			4406	205			1239
19	90			4365	210			1195
20	95			4319	215			1152
21	100			4273	220			1092
22	105			4273	225			1120
23	110			4168	230			1092
24	115			4097	235			1109



5 min DST PRESSURE INCREMENTS On Cleanup Flow Point D to F

Recorder No. 2758

Depth 10285

Page 2 of 2

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			1120				
2	245			1229				
3	250			1223				
4	255			1174				
5	260			1408				
6	265			1709				
7	270			2011				
8	275			1842				
9	280			1739				
10	285			1644				
11	290			1506				
12	295			1380				
13	300			1266				
14	305			1158				
15	210			1068				
16	315			1022				
17	320			1006				
18	325	Point F		1000				
19								
20								
21								
22								
23								
24								



5 min DST PRESSURE INCREMENTS On flow # 1 Point F to G

Recorder No. 2758

Depth 10285

Page 1 of 3

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+Θ	$\frac{T+\Theta}{\ominus}$	PSIG	Time Defl. "	T+Θ	$\frac{T+\Theta}{\ominus}$	PSIG
1	0	Point F		1000	120			1343
2	5			1022	125			1343
3	10			1142	130			1362
4	15			1272	135			1356
5	20			1402	140			1364
6	25			1439	145			1370
7	30			1492	150			1380
8	35			1467	155			1375
9	40			1446	160			1364
10	45			1435	165			1353
11	50			1430	170			1353
12	55			1424	175			1375
13	60			1419	180			1397
14	65			1413	185			1391
15	70			1408	190			1375
16	75			1402	195			1364
17	80			1391	200			1380
18	85			1386	205			1380
19	90			1380	210			1380
20	95			1375	215			1380
21	100			1372	220			1370
22	105			1364	225			1364
23	110			1364	230			1378
24	115			1356	235			1378



5 min DST PRESSURE INCREMENTS On flow #1 Point F to G

Recorder No. 2758

Depth 10285

Page 2 of 3

Points	Time Defl. "	INITIAL CIP			Time Defl. "	FINAL CIP		
		T+Θ	$\frac{T+\Theta}{\Theta}$	PSIG		T+Θ	$\frac{T+\Theta}{\Theta}$	PSIG
1	240			1378	360			1359
2	245			1378	365			1356
3	250			1378	370			1356
4	255			1378	375			1351
5	260			1378	380			1345
6	265			1375	385			1337
7	270			1375	390			1332
8	275			1372	395			1356
9	280			1372	400			1362
10	285			1370	405			1367
11	290			1370	410			1370
12	295			1370	415			1372
13	300			1370	420			1372
14	305			1367	425			1372
15	310			1364	430			1372
16	315			1364	435			1372
17	320			1362	440			1372
18	325			1362	445			1372
19	330			1362	450			1372
20	335			1362	455			1372
21	340			1362	460			1372
22	345			1362	465			1370
23	350			1362	470			1370
24	355			1359	475			1370



5 mi DST PRESSURE INCREMENTS On flow #1 Point F to G

Recorder No. 275R

Depth 10285

Page 3 of 3

Points	Time Defl. "	INITIAL CIP			Time Defl. "	FINAL CIP		
		T+0	$\frac{T+0}{0}$	PSIG		T+0	$\frac{T+0}{0}$	PSIG
1	480			1367	600			1359
2	485			1367	605			1359
3	490			1367	610			1359
4	495			1367	615			1356
5	500			1367	620			1356
6	505			1367	625			1353
7	510			1364	628	Point	G	1353
8	515			1359				
9	520			1348				
10	525			1343				
11	530			1370				
12	535			1370				
13	540			1380				
14	545			1380				
15	550			1380				
16	555			1380				
17	560			1380				
18	565			1378				
19	570			1378				
20	575			1375				
21	580			1370				
22	585			1364				
23	590			1364				
24	595			1364				



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

Recorder No. 2758

Depth 10285

Page 1 of 3

Points	Time Defl. "	INITIAL CIP			Time Defl. "	FINAL CIP		
		T + θ	$\frac{T + \theta}{\theta}$	PSIG		T + θ	$\frac{T + \theta}{\theta}$	PSIG
1	0	951 Point	G	1353	120			6284
2	5			1554	125			6305
3	10			1799	130			6327
4	15			2082	135			6342
5	20			2364	140	1091	7.80	6356
6	25			2668	145			6358
7	30			3022	150			6385
8	35	986	28.2	3352	155			6396
9	40			3692	160			6412
10	45			4054	165			6423
11	50			4406	170			6428
12	55			4768	175	1126	6.45	6439
13	60			5166	180			6449
14	65			5495	185			6460
15	70	1021	14.6	5727	190			6471
16	75			5872	195			6482
17	80			5958	200			6487
18	85			6032	205			6492
19	90			6091	210	1161	5.52	6503
20	95			6137	215			6508
21	100			6177	220			6519
22	105	1056	10.0	6209	225			6524
23	110			6236	230			6530
24	115			6262	235			6535



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

Recorder No. 2758

Depth 10285

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			6540	360			6644
2	245	1196	4.87	6551	365			6647
3	250			6554	370			6653
4	255			6562	375			6653
5	260			6567	380			6658
6	265			6572	385	1336	3.47	6661
7	270			6572	390			6663
8	275			6578	395			6666
9	280	1231	4.40	6589	400			6669
10	285			6589	405			6671
11	290			6594	410			6674
12	295			6599	415			6674
13	300			6602	420	1371	3.26	6680
14	305			6604	425			6682
15	310			6610	430			6685
16	315	1266	4.00	6615	435			6690
17	320			6618	440			6692
18	325			6620	445			6695
19	330			6626	450			6695
20	335			6626	455	1406	3.08	6692
21	340			6631	460			6698
22	345			6634	465			6701
23	350	1301	3.72	6636	470			6703
24	355			6642	475	1426	3.00	6706



5 mil DST PRESSURE INCREMENTS On F.S.I.P. Point G to H

Recorder No. 2758

Depth 10285

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Points	Time Defl. "	INITIAL CIP			Time Defl. "	FINAL CIP		
		T+0	$\frac{T+0}{0}$	PSIG		T+0	$\frac{T+0}{0}$	PSIG
1	480			6706				
2	485			6711				
3	490	1441	2.94	6714				
4	495			6714				
5	500			6717				
6	505			6717				
7	510	1461	2.87	6722				
8	515			6722				
9	520			6724				
10	525	1476	2.81	6727				
11	530			6727				
12	535			6730				
13	540			6733				
14	545	1496	274	6733				
15	550			6735				
16	555			6741				
17	556	1507	Point H 2.70	6741				
18		Point I		7798				
19								
20								
21								
22								
23								
24								



5 min DST PRESSURE INCREMENTS On Preflow Point B to C

Recorder No 2759

Depth 0290

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Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG
1	-	Point A		7802				
2	0	Point B		8440				
3	5			4616				
4	10	Point C		4638				
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 C to D

Recorder No. 2759

Depth 10290

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Points	Time Defl. "	INITIAL CIP			Time Defl. "	FINAL CIP		
		T+Θ	$\frac{T+\Theta}{\Theta}$	PSIG		T+Θ	$\frac{T+\Theta}{\Theta}$	PSIG
1	0	Point C		4638	120			7034
2	5			7016	125		X	7086
3	10			7032	129	Point D		7091
4	15			7043				
5	20			7051				
6	25			7054				
7	30			7059				
8	35			7062				
9	40			7065				
10	45			7070				
11	50			7070				
12	55			7070				
13	60			7070				
14	65			7073				
15	70			7076				
16	75			7076				
17	80			7076				
18	85			7078				
19	90			7078				
20	95			7081				
21	100			7081				
22	105			7081				
23	110			7081				
24	115			7084				



5 min DST PRESSURE INCREMENTS On clean up flow Point D to F

Recorder No. 2759

Depth 10290

Page 1 of 2

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG
1	0	Point D		7086	120			4065
2	5			6412	125			3934
3	10			5753	130			3821
4	15			5024	135			3746
5	20	Point E		4665	140			3608
6	25			4676	145			3373
7	30			4681	150			3103
8	35			4684	155			2821
9	40			4684	160			2511
10	45			4665	165			2158
11	50			4649	170			1919
12	55			4627	175			1592
13	60			4600	180			2261
14	65			4568	185			1788
15	70			4535	190			1647
16	75			4503	195			1533
17	80			4470	200			1391
18	85			4433	205			1326
19	90			4389	210			1245
20	95			4346	215			1196
21	100			4303	220			1147
22	105			4249	225			1136
23	110			4206	230			1131
24	115			4141	235			1147



5 min DST PRESSURE INCREMENTS On clean up flow Point D to F

Recorder No. 2759

Depth 10290

Page 2 of 2

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			1152				
2	245			1250				
3	250			1261				
4	255			1212				
5	260			1131				
6	265			1712				
7	270			2038				
8	275			1897				
9	280			1791				
10	285			1685				
11	290			1565				
12	295			1430				
13	300			1321				
14	305			1218				
15	310			1120				
16	315			1060				
17	320			1038				
18	325			1036				
19	328	Point	F	1036				
20								
21								
22								
23								
24								



5 min DST PRESSURE INCREMENTS On flow #1 Point F to G

Recorder No 2759

Depth 10290

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Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T + θ	$\frac{T + \theta}{\theta}$	PSIG	Time Defl. "	T + θ	$\frac{T + \theta}{\theta}$	PSIG
1	0			1036	120			1353
2	5			1076	125			1375
3	10			1196	130			1390
4	15			1343	135			1375
5	20			1446	140			1391
6	25			1533	145			1391
7	30			1511	150			1402
8	35			1473	155			1397
9	40			1468	160			1383
10	45			1457	165			1380
11	50			1452	170			1383
12	55			1446	175			1416
13	60			1441	180			1419
14	65			1432	185			1413
15	70			1430	190			1397
16	75			1421	195			1397
17	80			1413	200			1402
18	85			1408	205			1402
19	90			1402	210			1402
20	95			1402	215			1402
21	100			1397	220			1399
22	105			1386	225			1397
23	110			1386	230			1402
24	115			1370	235			1402



5 min DST PRESSURE INCREMENTS On flow #1 Point F to G

Recorder No. 2759

Depth 10290

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			1399	360			1370
2	245			1399	365			1378
3	250			1397	370			1370
4	255			1397	375			1367
5	260			1397	380			1359
6	265			1397	385			1353
7	270			1397	390			1370
8	275			1394	395			1378
9	280			1394	400			1386
10	285			1394	405			1388
11	290			1394	410			1391
12	295			1391	415			1394
13	300			1391	420			1394
14	305			1388	425			1394
15	310			1388	430			1394
16	315			1386	435			1394
17	320			1386	440			1394
18	325			1386	445			1394
19	330			1386	450			1394
20	335			1386	455			1391
21	340			1383	460			1391
22	345			1380	465			1391
23	350			1380	470			1391
24	355			1380	475			1391



5 min DST PRESSURE INCREMENTS On flow #1 Point F to G

Recorder No. 2759

Depth 10290

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Points	INITIAL CIP			FINAL CIP				
	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl. "	T+θ	$\frac{T+\theta}{\theta}$	PSIG
1	480			1388	600			1378
2	485			1388	605			1378
3	490			1388	610			1375
4	495			1388	615			1375
5	500			1386	620			1375
6	505			1386	625	Point G		1375
7	510			1380				
8	515			1370				
9	520			1364				
10	525			1386				
11	530			1389				
12	535			1397				
13	540			1402				
14	545			1399				
15	550			1399				
16	555			1399				
17	560			1399				
18	565			1399				
19	570			1394				
20	575			1388				
21	580			1386				
22	585			1383				
23	590			1383				
24	595			1380				



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

Recorder No. 2759

Depth 10290

Page 1 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	0	Point	G	1375	120			6311
2	5			1576	125			6332
3	10			1848	130			6348
4	15			2147	135			6369
5	20			2457	140			6380
6	25			2777	145			6391
7	30			3097	150			6407
8	35			3438	155			6423
9	40			3778	160			6433
10	45			4151	165			6444
11	50			4476	170			6455
12	55			4854	175			6460
13	60			5280	180			6471
14	65			5597	185			6482
15	70			5796	190			6492
16	75			5925	195			6498
17	80			6005	200			6506
18	85			6075	205			6514
19	90			6134	210			6519
20	95			6177	215			6530
21	100			6209	220			6535
22	105			6241	225			6540
23	110			6267	230			6545
24	115			6289	235			6551



5 mi DST PRESSURE INCREMENTS On F.S.I.P. Point G to H

Recorder No 2759

Depth 10290

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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			6559	360			6663
2	245			6567	365			6669
3	250			6572	370			6671
4	255			6578	375			6674
5	260			6583	380			6677
6	265			6589	385			6680
7	270			6594	390			6682
8	275			6599	395			6685
9	280			6605	400			6687
10	285			6607	405			6690
11	290			6610	410			6692
12	295			6615	415			6695
13	300			6620	420			6698
14	305			6626	425			6701
15	310			6628	430			6703
16	315			6631	435			6706
17	320			6636	440			6708
18	325			6639	445			6708
19	330			6642	450			6711
20	335			6647	455			6714
21	340			6653	460			6717
22	345			6653	465			6719
23	350			6658	470			6722
24	355			6661	475			6722



5 Mi DST PRESSURE INCREMENTS On F.S.I.P. Point G to H

Recorder No. 2759

Depth 10290

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Points	Time Defl. "	INITIAL CIP			Time Defl. "	FINAL CIP		
		T + Θ	$\frac{T + \Theta}{\Theta}$	PSIG		T + Θ	$\frac{T + \Theta}{\Theta}$	PSIG
1	480			6725				
2	485			6727				
3	490			6730				
4	495			6730				
5	500			6733				
6	505			6735				
7	510			6738				
8	515			6738				
9	520			6740				
10	525			6743				
11	530			6743				
12	535			6746				
13	540			6749				
14	545			6749				
15	550	Point	H	6754				
16		Point	I	7802				
17								
18								
19								
20								
21								
22								
23								
24								



5 min DST PRESSURE INCREMENTS On Preflow Point B to C

Recorder No. 2760

Depth 10295

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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	-	Point	A	7812				
2	0	Point	B	8453				
3	5			4636				
4	10	Point	C	4658				
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 T.S.T.P. Point C to D

Recorder No. 2760

Depth 10295

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Points	Time Defl. "	INITIAL CIP			Time Defl. "	FINAL CIP		
		T+0	$\frac{T+0}{0}$	PSIG		T+0	$\frac{T+0}{0}$	PSIG
1	0	Point C		4658	120			7097
2	5			7016	125	Point D		7097
3	10			7043				
4	15			7054				
5	20			7065				
6	25			7068				
7	30			7073				
8	35			7076				
9	40			7078				
10	45			7081				
11	50			7081				
12	55			7084				
13	60			7086				
14	65			7086				
15	70			7089				
16	75			7089				
17	80			7092				
18	85			7092				
19	90			7092				
20	95			7094				
21	100			7094				
22	105			7094				
23	110			7097				
24	115			7097				



5 min DST PRESSURE INCREMENTS On Clean up flow Point D to F

Recorder No. 2760

Depth 10295

Page 1 of 2

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 D		7097	120			3973
2	5			6380	125			3859
3	10			5562	130			3707
4	15	Point E		4685	135			3484
5	20			4690	140			3256
6	25			4698	145			3000
7	30			4701	150			2723
8	35			4701	155			2402
9	40			4687	160			2037
10	45			4663	165			1799
11	50			4641	170			1581
12	55			4614	175			2055
13	60			4581	180			2006
14	65			4554	185			1951
15	70			4517	190			1739
16	75			4478	195			1511
17	80			4446	200			1517
18	85			4402	205			1451
19	90			4359	210			1440
20	95			4310	215			1375
21	100			4256	220			1372
22	105			4196	225			1343
23	110			4136	230			1402
24	115			4060	235			1435



5 min DST PRESSURE INCREMENTS On Clean up flow Page 2 of 2
Points D to F

Recorder No. 2760

Depth 10295

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			1446				
2	245			1386				
3	250			1538				
4	255			1897				
5	260			2147				
6	265			1978				
7	270			1859				
8	275			1777				
9	280			1625				
10	285			1511				
11	290			1413				
12	295			1337				
13	300			1277				
14	305			1256				
15	310			1247				
16	315			1169				
17	320	Point	F	1163				
18								
19								
20								
21								
22								
23								
24								



5 min DST PRESSURE INCREMENTS On flow #1 Point F to G

Recorder No. 2760

Depth 10295

Page 1 of 3

Points	Time Defl. "	INITIAL CIP			Time Defl. "	FINAL CIP		
		T + 0	$\frac{T+0}{0}$	PSIG		T + 0	$\frac{T+0}{0}$	PSIG
1	0	Point	F	1163	120			1511
2	5			1261	125			1506
3	10			1380	130			1522
4	15			1511	135			1517
5	20			1598	140			1544
6	25			1571	145			1533
7	30			1598	150			1473
8	35			1587	155			1467
9	40			1581	160			1473
10	45			1576	165			1506
11	50			1565	170			1500
12	55			1560	175			1489
13	60			1554	180			1476
14	65			1544	185			1486
15	70			1538	190			1489
16	75			1527	195			1489
17	80			1522	200			1486
18	85			1522	205			1484
19	90			1517	210			1473
20	95			1517	215			1495
21	100			1506	220			1495
22	105			1489	225			1492
23	110			1478	230			1492
24	115			1500	235			1492

DST PRESSURE INCREMENTS on Flow #1 Joint, Hole C

Recorder No. 2760

Depth 10295

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			1492	360			1489
2	245			1489	365			1481
3	250			1489	370			1489
4	255			1484	375			1508
5	260			1484	380			1511
6	265			1481	385			1517
7	270			1481	390			1517
8	275			1478	395			1522
9	280			1478	400			1522
10	285			1478	405			1522
11	290			1475	410			1519
12	295			1475	415			1519
13	300			1473	420			1519
14	305			1460	425			1519
15	310			1457	430			1519
16	315			1457	435			1517
17	320			1454	440			1514
18	325			1454	445			1514
19	330			1451	450			1514
20	335			1451	455			1511
21	340			1449	460			1508
22	345			1449	465			1508
23	350			1449	470			1508
24	355			1495	475			1508



min DST PRESSURE INCREMENTS On Flow #1 Point F to G

Recorder No. 2760

Depth 10295

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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			1522	599	Point G		1511
2	485			1522				
3	490			1511				
4	495			1503				
5	500			1517				
6	505			1533				
7	510			1538				
8	515			1544				
9	520			1544				
10	525			1544				
11	530			1541				
12	535			1538				
13	540			1538				
14	545			1533				
15	550			1527				
16	555			1525				
17	560			1525				
18	565			1522				
19	570			1522				
20	575			1519				
21	580			1517				
22	585			1517				
23	590			1517				
24	595			1511				



5 min DST PRESSURE INCREMENTS On I.S.I.P. Point G to H

Recorder No. 2760

Depth 10295

Page 1 of 3

Points	Time Defl. "	INITIAL CIP			Time Defl. "	FINAL CIP		
		T+0	$\frac{T+0}{0}$	PSIG		T+0	$\frac{T+0}{0}$	PSIG
1	0	Point	G	1511	120			6327
2	5			1696	125			6348
3	10			1989	130			6364
4	15			2288	135			6380
5	20			2603	140			6396
6	25			2962	145			6409
7	30			3266	150			6423
8	35			3647	155			6433
9	40			4011	160			6444
10	45			4337	165			6460
11	50			4728	170			6465
12	55			5134	175			6476
13	60			5529	180			6487
14	65			5701	185			6498
15	70			5867	190			6503
16	75			5979	195			6514
17	80			6043	200			6519
18	85			6107	205			6524
19	90			6155	210			6535
20	95			6193	215			6540
21	100			6230	220			6548
22	105			6257	225			6556
23	110			6284	230			6562
24	115			6305	235			6567



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

Recorder No. 2760

Depth 10295

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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			6572	360			6674
2	245			6581	365			6677
3	250			6583	370			6680
4	255			6589	375			6685
5	260			6594	380			6687
6	265			6599	385			6690
7	270			6605	390			6692
8	275			6610	395			6695
9	280			6613	400			6698
10	285			6618	405			6701
11	290			6621	410			6703
12	295			6626	415			6706
13	300			6632	420			6708
14	305			6637	425			6711
15	310			6637	430			6711
16	315			6642	435			6717
17	320			6648	440			6717
18	325			6650	445			6719
19	330			6653	450			6722
20	335			6658	455			6724
21	340			6664	460			6727
22	345			6664	465			6727
23	350			6669	470			6730
24	355			6669	475			6733



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

Recorder No. 2760

Depth 10295

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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	480			6735				
2	485			6738				
3	490			6738				
4	495			6740				
5	500			6743				
6	505			6743				
7	510			6745				
8	515			6748				
9	520			6748				
10	525			6751				
11	530			6751				
12	532	Point	H	6754				
13		Point	I	7812				
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