

From: Marshall, Tom V

Sent: Sat Jun 05 17:08:30 2010

To: Carlson, Brian H; Carmichael, Steve P; Gates, Jayne; Birrell, Gordon Y; Dupree, James H; Lynch, Richard; Clarkson, David; Stoltz, Dan; Al Monthiry, Wissam; Tatro, Marjorie (Sandia National Laboratories); Burns, Mike (Los Alamos National Laboratories); Looney, Bernard; Inglis, Andy G (UPSTREAM)
Subject: FW: Top Hat MC252 Containment and Recovery Report - June 5th 10:00 update

Importance: Normal

Attachments: Microsoft Office Excel Chart; Microsoft Office Excel Chart; Microsoft Office Excel Chart; BP Macondo Containment - Rates 060510 1000.pdf; BP Macondo Containment - Rates & Whp 060510 1000.pdf; BP Macondo DEN Containment - Field Report 060510 1000.xls; BP Macondo Containment - Wellhead 060510 1000.pdf

Attached is the MC 252 10 AM update Saturday.

During the 24 hr period ending at midnight last night the Enterprise recovered 6077 BBLS oil and 15.7 MMSCF gas. We were shut in from 12:45 AM to 3:45 AM this morning as we repaired a small liquid leak on a low point flare drain line.

We have subsequently restarted recovery and are currently recovering 14 MBOPD and 26 MMSCFD at 1200 psi surface pressure.

There was some noise in the production data this morning (6 am - 8:45 am) due to foaming in the separator, the anti foam was increased

And operations have lined out.

Regards,

Tom Marshall

<<...>>

<<...>>

<<...>>

From: Mathur, Kush

Sent: Saturday, June 05, 2010 10:56 AM

To: Carlson, Brian H; Carmichael, Steve P; Gates, Jayne; Marshall, Tom V; Birrell, Gordon Y; Dupree, James H; Lynch, Richard; Clarkson, David; Stoltz, Dan; Al Monthiry, Wissam; Tatro, Marjorie (Sandia National Laboratories)

Cc: Hadaegh, Farid

Subject: Top Hat MC252 Containment and Recovery Report - June 5th 10:00 update

Please see the attached June 5th 10:00 report.

Thanks,

Kush

Kush Mathur

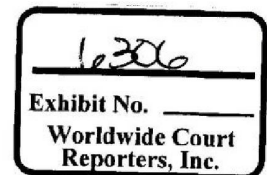
Galapagos Area Development (Na Kika) - Process Engineer

BP - Gulf of Mexico Deepwater

o: +1 (281) 366-1480

c: [REDACTED]
e: kush.mathur@bp.com

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BPD187-109577

TREX-06306

TREX 006306.0001

TREX-006306.0001

received this message in error, please notify us immediately by replying to the message and deleting it from your computer.

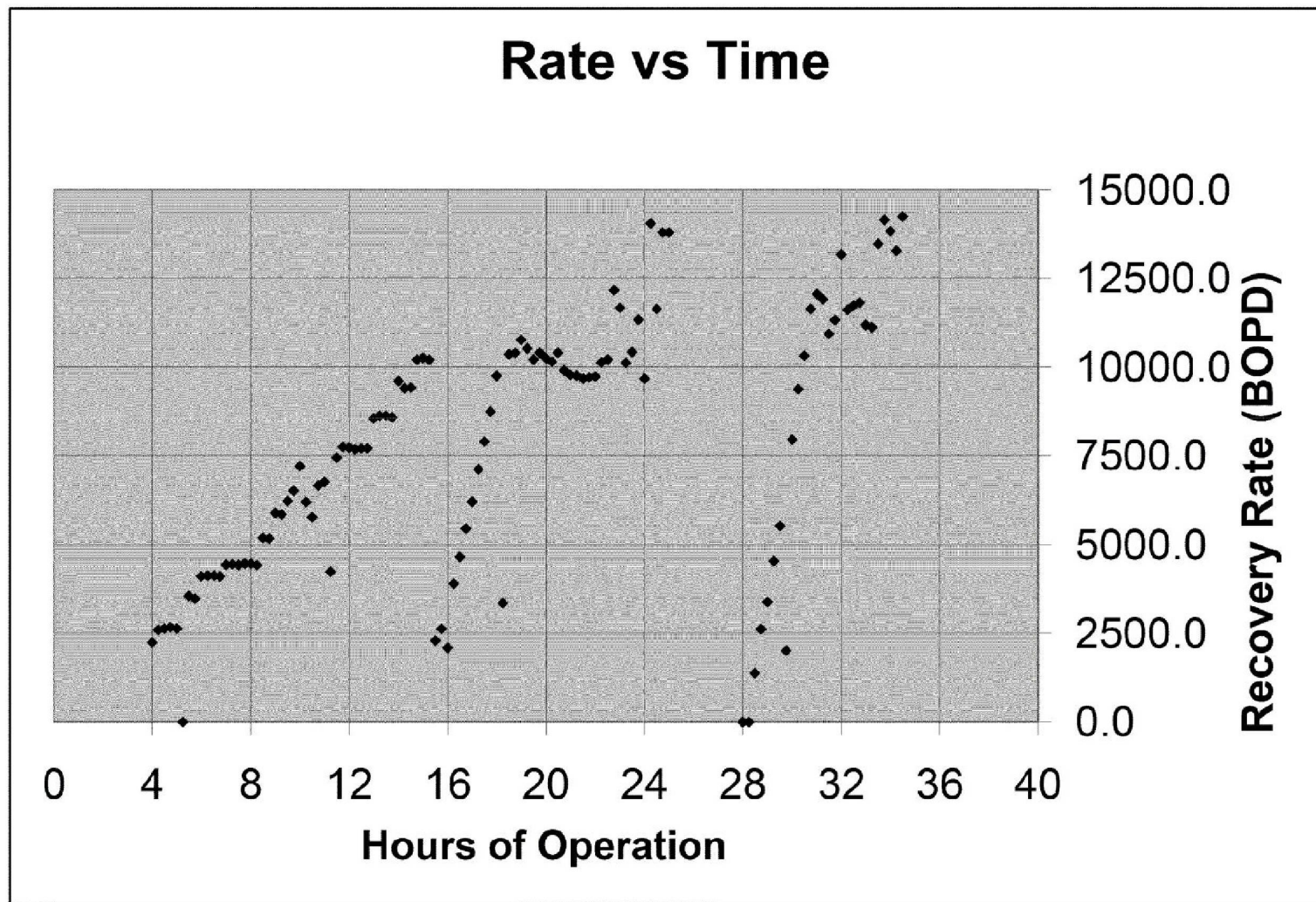
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BP-HZN-2179MDL01623130

BPD187-109579

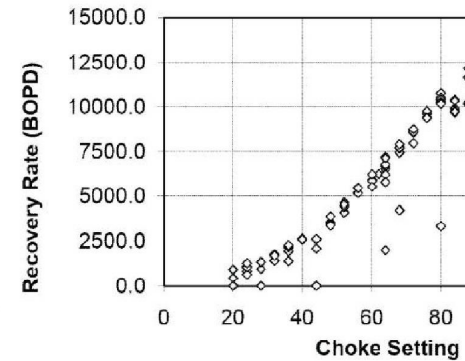
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TREX-006306.0003

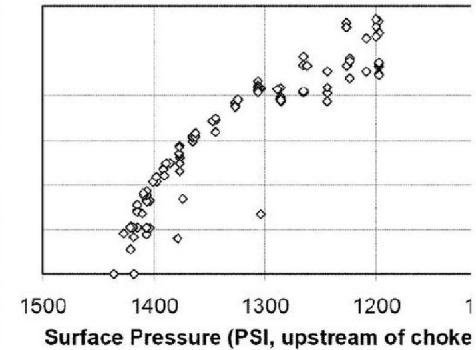
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Date	Time	Choke	WHP	Well Head Temp	Gas Rate	Oil Rate
3-Jun-10	23:30:00	0.00	20	1356.45	90.7	-
3-Jun-10	23:45:00	0.25	20	1350.75	95.4	438.3
4-Jun-10	0:00:00	0.50	20	1348.08	98.8	910.7
4-Jun-10	0:15:00	0.75	24	1347.90	101.1	1077.1
4-Jun-10	0:30:00	1.00	24	1347.69	103.0	803.0
4-Jun-10	0:45:00	1.25	24	1350.52	104.5	633.6
4-Jun-10	1:00:00	1.50	24	1362.38	105.4	1037.8
4-Jun-10	1:15:00	1.75	24	1368.38	105.7	1263.4
4-Jun-10	1:30:00	2.00	28	1371.23	106.0	939.8
4-Jun-10	1:45:00	2.25	28	1378.72	106.2	1341.9
4-Jun-10	2:00:00	2.50	28	1382.94	106.4	1331.7
4-Jun-10	2:15:00	2.75	32	1388.63	106.8	1410.2
4-Jun-10	2:30:00	3.00	32	1396.01	107.0	1762.6
4-Jun-10	2:45:00	3.25	32	1400.14	106.8	1684.8
4-Jun-10	3:00:00	3.50	36	1403.26	106.7	1920.0
4-Jun-10	3:15:00	3.75	36	1403.92	106.7	2154.3
4-Jun-10	3:30:00	4.00	36	1406.93	106.6	2233.0
4-Jun-10	3:45:00	4.25	40	1403.91	107.5	2585.3
4-Jun-10	4:00:00	4.50	40	1415.49	108.3	2624.7
4-Jun-10	4:15:00	4.75	40	1421.47	108.4	2664.0
4-Jun-10	4:30:00	5.00	44	1419.26	108.2	2624.7
4-Jun-10	4:45:00	5.25	44	1418.59	108.4	0.0
4-Jun-10	5:00:00	5.50	48	1415.36	107.8	3553.4
4-Jun-10	5:15:00	5.75	48	1415.50	106.9	3473.0
4-Jun-10	5:30:00	6.00	52	1406.57	106.5	4105.2
4-Jun-10	5:45:00	6.25	52	1406.54	106.3	4124.9
4-Jun-10	6:00:00	6.50	52	1403.77	106.1	4125.2
4-Jun-10	6:15:00	6.75	52	1406.52	106.0	4097.7
4-Jun-10	6:30:00	7.00	52	1406.73	105.9	4433.2
4-Jun-10	6:45:00	7.25	52	1406.52	106.0	4446.2
4-Jun-10	7:00:00	7.50	52	1409.54	106.1	4420.6
4-Jun-10	7:15:00	7.75	52	1409.70	106.1	4463.9
4-Jun-10	7:30:00	8.00	52	1409.64	106.2	4465.1
4-Jun-10	7:45:00	8.25	52	1409.75	106.4	4420.2
4-Jun-10	8:00:00	8.50	56	1397.74	106.4	5189.9
4-Jun-10	8:15:00	8.75	56	1401.16	105.9	5169.6
4-Jun-10	8:30:00	9.00	60	1392.08	105.5	5897.0
4-Jun-10	8:45:00	9.25	60	1391.89	104.9	5858.8
4-Jun-10	9:00:00	9.50	62	1385.82	104.4	6227.7
4-Jun-10	9:15:00	9.75	64	1377.06	103.9	6515.9
4-Jun-10	9:30:00	10.00	64	1377.32	103.2	7207.0
4-Jun-10	9:45:00	10.25	64	1377.09	102.9	6203.1
4-Jun-10	10:00:00	10.50	64	1377.14	103.0	5775.9
4-Jun-10	10:15:00	10.75	64	1377.34	106.0	6658.5

Choke Setting vs Recovery I



Surface Pressure vs Recover

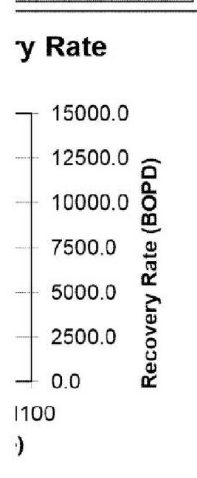
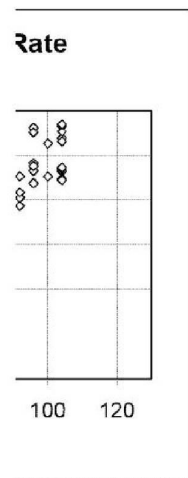


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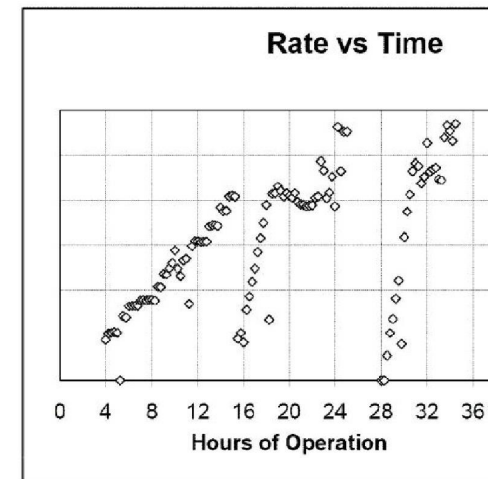
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4-Jun-10	11:00:00	11.50	68	1365.22	107.9	15.9	7443.5
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4-Jun-10	12:30:00	13.00	72	1347.40	104.4	17.2	8552.2
4-Jun-10	12:45:00	13.25	72	1344.55	104.4	17.2	8630.5
4-Jun-10	13:00:00	13.50	72	1344.48	103.4	16.4	8632.4
4-Jun-10	13:15:00	13.75	72	1347.67	102.5	19.4	8581.4
4-Jun-10	13:30:00	14.00	76	1327.06	102.2	24.4	9610.3
4-Jun-10	13:45:00	14.25	76	1326.96	101.4	24.4	9407.0
4-Jun-10	14:00:00	14.50	76	1327.02	100.3	24.2	9428.1
4-Jun-10	14:15:00	14.75	80	1306.54	100.2	24.2	10218.3
4-Jun-10	14:30:00	15.00	80	1306.33	99.6	24.4	10266.2
4-Jun-10	14:45:00	15.25	80	1306.53	99.0	24.0	10215.4
4-Jun-10	15:00:00	15.50	36	1427.64	97.6	18.3	2286.3
4-Jun-10	15:15:00	15.75	40	1421.75	93.9	19.4	2619.0
4-Jun-10	15:30:00	16.00	44	1418.85	96.3	19.0	2083.9
4-Jun-10	15:45:00	16.25	48	1415.65	99.1	18.1	3894.1
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4-Jun-10	16:30:00	17.00	60	1389.44	98.9	18.1	6210.7
4-Jun-10	16:45:00	17.25	64	1377.55	98.8	18.5	7114.9
4-Jun-10	17:00:00	17.50	68	1362.85	98.9	18.6	7902.6
4-Jun-10	17:15:00	17.75	72	1344.85	97.7	19.0	8747.3
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4-Jun-10	17:45:00	18.25	80	1303.75	97.2	20.2	3345.8
4-Jun-10	18:00:00	18.50	80	1303.66	96.1	23.7	10365.7
4-Jun-10	18:15:00	18.75	80	1303.79	95.6	23.923	10404.9
4-Jun-10	18:30:00	19.00	80	1306.48	95.2	23.660	10778.9
4-Jun-10	18:45:00	19.25	80	1306.45	95.1	24.323	10533.4
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4-Jun-10	19:30:00	20.00	80	1306.63	95.0	25.064	10259.0
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4-Jun-10	20:15:00	20.75	84	1286.07	94.2	27.598	9907.8
4-Jun-10	20:30:00	21.00	84	1286.26	94.0	27.111	9784.7
4-Jun-10	20:45:00	21.25	84	1285.82	94.0	28.690	9766.0
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4-Jun-10	21:30:00	22.00	84	1285.93	94.4	28.057	9735.6
4-Jun-10	21:45:00	22.25	88	1265.31	94.0	29.910	10137.0
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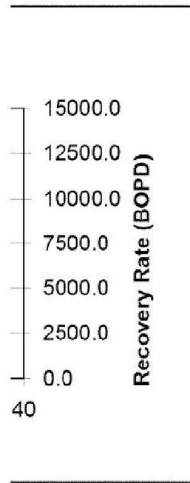


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4-Jun-10	22:45:00	23.25	92	1244.64	93.6	30.380		10120.9	
4-Jun-10	23:00:00	23.50	92	1244.65	93.3	31.138		10434.9	
4-Jun-10	23:15:00	23.75	92	1244.61	93.4	30.233		11331.7	
4-Jun-10	23:30:00	24.00	92	1244.81	93.4	31.880		9678.2	
4-Jun-10	23:45:00	24.25	96	1227.16	93.1	29.044		14058.2	
5-Jun-10	0:00:00	24.50	96	1226.85	93.0	29.504		11633.6	
5-Jun-10	0:15:00	24.75	96	1227.14	93.1	28.879		13796.4	
5-Jun-10	0:30:00	25.00	96	1227.05	93.1	29.015		13800.1	
5-Jun-10	0:45:00	25.25		1433.32	92.6				
5-Jun-10	1:00:00	25.50		1421.79	92.0				
5-Jun-10	1:15:00	25.75		1412.57	91.3				
5-Jun-10	1:30:00	26.00		1406.76	90.9				
5-Jun-10	1:45:00	26.25		1400.86	90.4				
5-Jun-10	2:00:00	26.50		1398.00	90.1				
5-Jun-10	2:15:00	26.75		1395.04	89.8				
5-Jun-10	2:30:00	27.00		1390.93	89.3				
5-Jun-10	2:45:00	27.25		1389.14	89.0				
5-Jun-10	3:00:00	27.50		1386.21	88.6				
5-Jun-10	3:15:00	27.75		1566.02	88.5				
5-Jun-10	3:30:00	28.00	20	1527.80	87.0	-		-	
5-Jun-10	3:45:00	28.25	28	1436.42	89.1	-		-	
5-Jun-10	4:00:00	28.50	36	1421.44	95.7	6.264		1380.6	
5-Jun-10	4:15:00	28.75	40	1406.84	99.5	8.549		2609.2	
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5-Jun-10	5:00:00	29.50	60	1390.97	103.5	13.044		5524.8	
5-Jun-10	5:15:00	29.75	64	1379.05	102.4	5.674		2002.7	
5-Jun-10	5:30:00	30.00	72	1344.90	101.0	15.085		7962.7	
5-Jun-10	5:45:00	30.25	76	1326.91	99.4	16.665		9382.1	
5-Jun-10	6:00:00	30.50	84	1288.97	97.8	20.672		10328.8	
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5-Jun-10	7:30:00	32.00	100	1209.44	94.4	28.963		13174.7	
5-Jun-10	7:45:00	32.25	104	1197.59	94.3	29.072		11609.6	
5-Jun-10	8:00:00	32.50	104	1197.67	94.4	29.409		11738.8	
5-Jun-10	8:15:00	32.75	104	1197.69	94.5	29.558		11815.9	
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5-Jun-10	8:45:00	33.25	104	1197.55	94.7	30.133		11128.9	
5-Jun-10	9:00:00	33.50	104	1197.35	94.8	26.012		13473.9	
5-Jun-10	9:15:00	33.75	104	1197.94	95.9	24.495		14153.4	
5-Jun-10	9:30:00	34.00	104	1200.35	97.4	25.701		13835.9	
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BP-HZN-2179MDL01623135

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TREX 006306.0008

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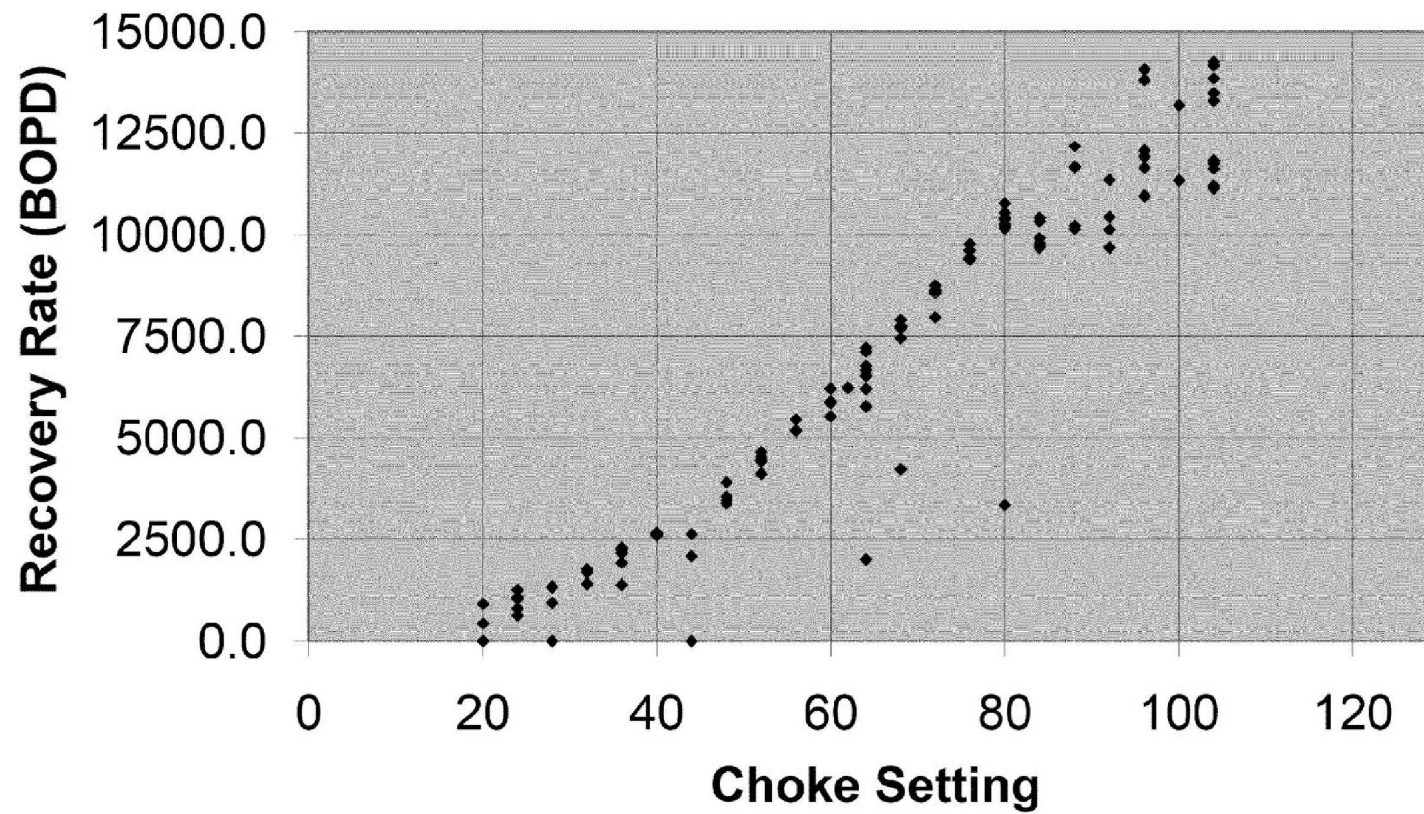
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BPD187-109585

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Choke Setting vs Recovery Rate



BP-HZN-2179MDL01623137

BPD187-109586

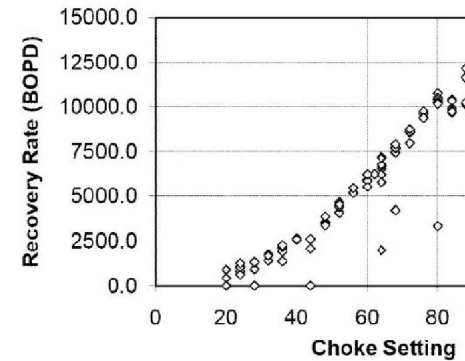
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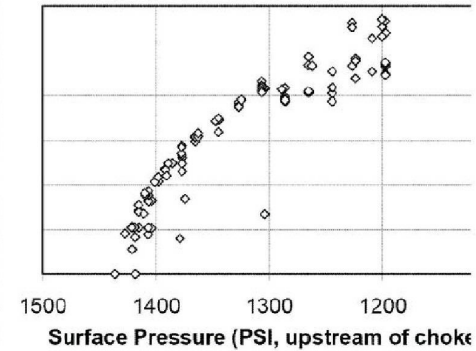
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Date	Time	Choke	WHP	Well Head Temp	Gas Rate	Oil Rate
3-Jun-10	23:30:00	0.00	20	1356.45	90.7	-
3-Jun-10	23:45:00	0.25	20	1350.75	95.4	438.3
4-Jun-10	0:00:00	0.50	20	1348.08	98.8	910.7
4-Jun-10	0:15:00	0.75	24	1347.90	101.1	1077.1
4-Jun-10	0:30:00	1.00	24	1347.69	103.0	803.0
4-Jun-10	0:45:00	1.25	24	1350.52	104.5	633.6
4-Jun-10	1:00:00	1.50	24	1362.38	105.4	1037.8
4-Jun-10	1:15:00	1.75	24	1368.38	105.7	1263.4
4-Jun-10	1:30:00	2.00	28	1371.23	106.0	939.8
4-Jun-10	1:45:00	2.25	28	1378.72	106.2	1341.9
4-Jun-10	2:00:00	2.50	28	1382.94	106.4	1331.7
4-Jun-10	2:15:00	2.75	32	1388.63	106.8	1410.2
4-Jun-10	2:30:00	3.00	32	1396.01	107.0	1762.6
4-Jun-10	2:45:00	3.25	32	1400.14	106.8	1684.8
4-Jun-10	3:00:00	3.50	36	1403.26	106.7	1920.0
4-Jun-10	3:15:00	3.75	36	1403.92	106.7	2154.3
4-Jun-10	3:30:00	4.00	36	1406.93	106.6	2233.0
4-Jun-10	3:45:00	4.25	40	1403.91	107.5	2585.3
4-Jun-10	4:00:00	4.50	40	1415.49	108.3	2624.7
4-Jun-10	4:15:00	4.75	40	1421.47	108.4	2664.0
4-Jun-10	4:30:00	5.00	44	1419.26	108.2	2624.7
4-Jun-10	4:45:00	5.25	44	1418.59	108.4	0.0
4-Jun-10	5:00:00	5.50	48	1415.36	107.8	3553.4
4-Jun-10	5:15:00	5.75	48	1415.50	106.9	3473.0
4-Jun-10	5:30:00	6.00	52	1406.57	106.5	4105.2
4-Jun-10	5:45:00	6.25	52	1406.54	106.3	4124.9
4-Jun-10	6:00:00	6.50	52	1403.77	106.1	4125.2
4-Jun-10	6:15:00	6.75	52	1406.52	106.0	4097.7
4-Jun-10	6:30:00	7.00	52	1406.73	105.9	4433.2
4-Jun-10	6:45:00	7.25	52	1406.52	106.0	4446.2
4-Jun-10	7:00:00	7.50	52	1409.54	106.1	4420.6
4-Jun-10	7:15:00	7.75	52	1409.70	106.1	4463.9
4-Jun-10	7:30:00	8.00	52	1409.64	106.2	4465.1
4-Jun-10	7:45:00	8.25	52	1409.75	106.4	4420.2
4-Jun-10	8:00:00	8.50	56	1397.74	106.4	5189.9
4-Jun-10	8:15:00	8.75	56	1401.16	105.9	5169.6
4-Jun-10	8:30:00	9.00	60	1392.08	105.5	5897.0
4-Jun-10	8:45:00	9.25	60	1391.89	104.9	5858.8
4-Jun-10	9:00:00	9.50	62	1385.82	104.4	6227.7
4-Jun-10	9:15:00	9.75	64	1377.06	103.9	6515.9
4-Jun-10	9:30:00	10.00	64	1377.32	103.2	7207.0
4-Jun-10	9:45:00	10.25	64	1377.09	102.9	6203.1
4-Jun-10	10:00:00	10.50	64	1377.14	103.0	5775.9
4-Jun-10	10:15:00	10.75	64	1377.34	106.0	6658.5

Choke Setting vs Recovery I



Surface Pressure vs Recover

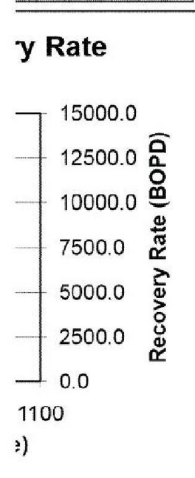
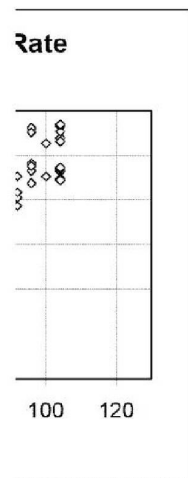


BP-HZN-2179MDL01623138

BPD187-109587

TREX 006306.0011

TREX-006306.0011



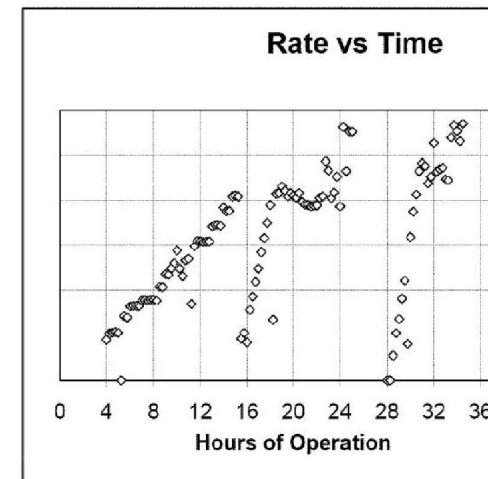
BP-HZN-2179MDL01623139

BPD187-109588

TREX 006306.0012

TREX-006306.0012

4-Jun-10	10:30:00	11.00	64	1377.79	107.2	15.0	6756.4
4-Jun-10	10:45:00	11.25	68	1374.28	107.8	15.5	4232.2
4-Jun-10	11:00:00	11.50	68	1365.22	107.9	15.9	7443.5
4-Jun-10	11:15:00	11.75	68	1365.14	107.6	16.5	7747.7
4-Jun-10	11:30:00	12.00	68	1365.19	106.6	16.1	7729.2
4-Jun-10	11:45:00	12.25	68	1365.47	104.4	16.0	7676.1
4-Jun-10	12:00:00	12.50	68	1365.21	103.6	15.9	7703.1
4-Jun-10	12:15:00	12.75	68	1362.92	104.1	15.7	7708.2
4-Jun-10	12:30:00	13.00	72	1347.40	104.4	17.2	8552.2
4-Jun-10	12:45:00	13.25	72	1344.55	104.4	17.2	8630.5
4-Jun-10	13:00:00	13.50	72	1344.48	103.4	16.4	8632.4
4-Jun-10	13:15:00	13.75	72	1347.67	102.5	19.4	8581.4
4-Jun-10	13:30:00	14.00	76	1327.06	102.2	24.4	9610.3
4-Jun-10	13:45:00	14.25	76	1326.96	101.4	24.4	9407.0
4-Jun-10	14:00:00	14.50	76	1327.02	100.3	24.2	9428.1
4-Jun-10	14:15:00	14.75	80	1306.54	100.2	24.2	10218.3
4-Jun-10	14:30:00	15.00	80	1306.33	99.6	24.4	10266.2
4-Jun-10	14:45:00	15.25	80	1306.53	99.0	24.0	10215.4
4-Jun-10	15:00:00	15.50	36	1427.64	97.6	18.3	2286.3
4-Jun-10	15:15:00	15.75	40	1421.75	93.9	19.4	2619.0
4-Jun-10	15:30:00	16.00	44	1418.85	96.3	19.0	2083.9
4-Jun-10	15:45:00	16.25	48	1415.65	99.1	18.1	3894.1
4-Jun-10	16:00:00	16.50	52	1406.76	99.2	17.8	4650.3
4-Jun-10	16:15:00	16.75	56	1398.15	98.8	17.6	5450.8
4-Jun-10	16:30:00	17.00	60	1389.44	98.9	18.1	6210.7
4-Jun-10	16:45:00	17.25	64	1377.55	98.8	18.5	7114.9
4-Jun-10	17:00:00	17.50	68	1362.85	98.9	18.6	7902.6
4-Jun-10	17:15:00	17.75	72	1344.85	97.7	19.0	8747.3
4-Jun-10	17:30:00	18.00	76	1324.65	98.4	19.2	9756.1
4-Jun-10	17:45:00	18.25	80	1303.75	97.2	20.2	3345.8
4-Jun-10	18:00:00	18.50	80	1303.66	96.1	23.7	10365.7
4-Jun-10	18:15:00	18.75	80	1303.79	95.6	23.923	10404.9
4-Jun-10	18:30:00	19.00	80	1306.48	95.2	23.660	10778.9
4-Jun-10	18:45:00	19.25	80	1306.45	95.1	24.323	10533.4
4-Jun-10	19:00:00	19.50	80	1306.53	95.1	24.237	10220.2
4-Jun-10	19:15:00	19.75	80	1306.63	95.0	24.480	10413.0
4-Jun-10	19:30:00	20.00	80	1306.63	95.0	25.064	10259.0
4-Jun-10	19:45:00	20.25	80	1306.32	94.8	24.836	10156.9
4-Jun-10	20:00:00	20.50	84	1286.09	94.7	27.392	10410.2
4-Jun-10	20:15:00	20.75	84	1286.07	94.2	27.598	9907.8
4-Jun-10	20:30:00	21.00	84	1286.26	94.0	27.111	9784.7
4-Jun-10	20:45:00	21.25	84	1285.82	94.0	28.690	9766.0
4-Jun-10	21:00:00	21.50	84	1285.76	94.1	28.103	9681.0
4-Jun-10	21:15:00	21.75	84	1285.96	94.3	28.304	9710.4
4-Jun-10	21:30:00	22.00	84	1285.93	94.4	28.057	9735.6
4-Jun-10	21:45:00	22.25	88	1265.31	94.0	29.910	10137.0
4-Jun-10	22:00:00	22.50	88	1265.31	93.7	29.463	10224.0

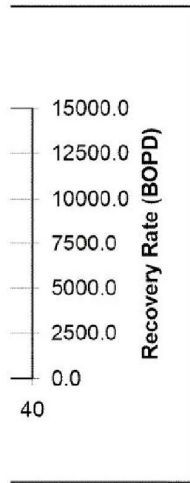


BP-HZN-2179MDL01623140

BPD187-109589

TREX 006306.0013

TREX-006306.0013



BP-HZN-2179MDL01623141

BPD187-109590

TREX 006306.0014

TREX-006306.0014

4-Jun-10	22:15:00	22.75	88	1265.31	93.5	27.338		12161.5	
4-Jun-10	22:30:00	23.00	88	1265.47	93.6	27.480		11668.1	
4-Jun-10	22:45:00	23.25	92	1244.64	93.6	30.380		10120.9	
4-Jun-10	23:00:00	23.50	92	1244.65	93.3	31.138		10434.9	
4-Jun-10	23:15:00	23.75	92	1244.61	93.4	30.233		11331.7	
4-Jun-10	23:30:00	24.00	92	1244.81	93.4	31.880		9678.2	
4-Jun-10	23:45:00	24.25	96	1227.16	93.1	29.044		14058.2	
5-Jun-10	0:00:00	24.50	96	1226.85	93.0	29.504		11633.6	
5-Jun-10	0:15:00	24.75	96	1227.14	93.1	28.879		13796.4	
5-Jun-10	0:30:00	25.00	96	1227.05	93.1	29.015		13800.1	
5-Jun-10	0:45:00	25.25		1433.32	92.6				
5-Jun-10	1:00:00	25.50		1421.79	92.0				
5-Jun-10	1:15:00	25.75		1412.57	91.3				
5-Jun-10	1:30:00	26.00		1406.76	90.9				
5-Jun-10	1:45:00	26.25		1400.86	90.4				
5-Jun-10	2:00:00	26.50		1398.00	90.1				
5-Jun-10	2:15:00	26.75		1395.04	89.8				
5-Jun-10	2:30:00	27.00		1390.93	89.3				
5-Jun-10	2:45:00	27.25		1389.14	89.0				
5-Jun-10	3:00:00	27.50		1386.21	88.6				
5-Jun-10	3:15:00	27.75		1566.02	88.5				
5-Jun-10	3:30:00	28.00	20	1527.80	87.0	-		-	
5-Jun-10	3:45:00	28.25	28	1436.42	89.1	-		-	
5-Jun-10	4:00:00	28.50	36	1421.44	95.7	6.264		1380.6	
5-Jun-10	4:15:00	28.75	40	1406.84	99.5	8.549		2609.2	
5-Jun-10	4:30:00	29.00	48	1410.87	103.2	8.497		3381.5	
5-Jun-10	4:45:00	29.25	52	1409.93	104.1	10.392		4537.2	
5-Jun-10	5:00:00	29.50	60	1390.97	103.5	13.044		5524.8	
5-Jun-10	5:15:00	29.75	64	1379.05	102.4	5.674		2002.7	
5-Jun-10	5:30:00	30.00	72	1344.90	101.0	15.085		7962.7	
5-Jun-10	5:45:00	30.25	76	1326.91	99.4	16.665		9382.1	
5-Jun-10	6:00:00	30.50	84	1288.97	97.8	20.672		10328.8	
5-Jun-10	6:15:00	30.75	88	1262.35	96.5	22.546		11634.0	
5-Jun-10	6:30:00	31.00	96	1224.12	95.4	25.754		12059.7	
5-Jun-10	6:45:00	31.25	96	1224.11	94.7	25.068		11905.4	
5-Jun-10	7:00:00	31.50	96	1224.24	94.6	27.954		10949.1	
5-Jun-10	7:15:00	31.75	100	1209.41	94.4	28.816		11321.2	
5-Jun-10	7:30:00	32.00	100	1209.44	94.4	28.963		13174.7	
5-Jun-10	7:45:00	32.25	104	1197.59	94.3	29.072		11609.6	
5-Jun-10	8:00:00	32.50	104	1197.67	94.4	29.409		11738.8	
5-Jun-10	8:15:00	32.75	104	1197.69	94.5	29.558		11815.9	
5-Jun-10	8:30:00	33.00	104	1197.74	94.7	29.509		11188.5	
5-Jun-10	8:45:00	33.25	104	1197.55	94.7	30.133		11128.9	
5-Jun-10	9:00:00	33.50	104	1197.35	94.8	26.012		13473.9	
5-Jun-10	9:15:00	33.75	104	1197.94	95.9	24.495		14153.4	
5-Jun-10	9:30:00	34.00	104	1200.35	97.4	25.701		13835.9	
5-Jun-10	9:45:00	34.25	104	1200.47	98.4	25.747		13281.8	

BP-HZN-2179MDL01623142

BPD187-109591

TREX 006306.0015

TREX-006306.0015

5-Jun-10	10:00:00	34.50	104	1200.60	99.2	25.633	14248.2
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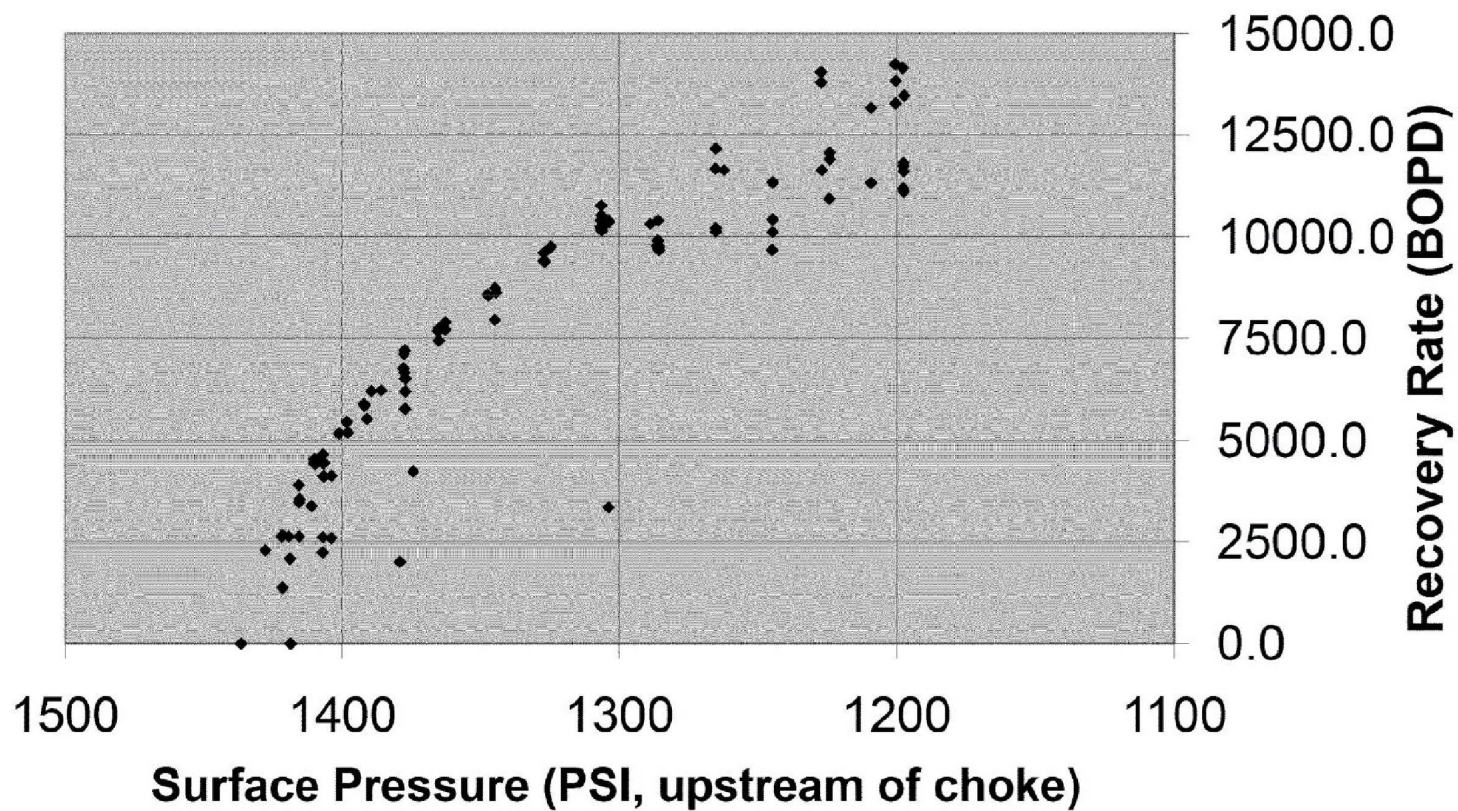
BP-HZN-2179MDL01623143

BPD187-109592

TREX 006306.0016

TREX-006306.0016

Surface Pressure vs Recovery Rate



BP-HZN-2179MDL01623144

BPD187-109593

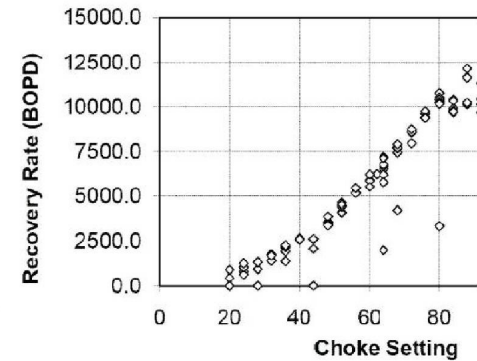
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TREX-006306.0017

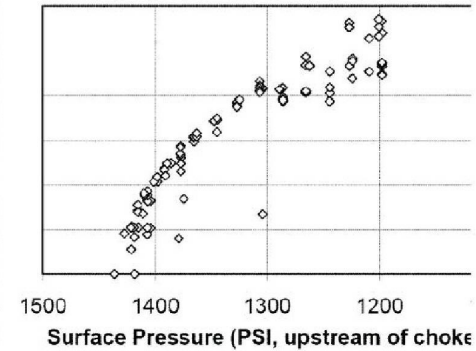
0:00:15

Date	Time	Choke	WHP	Well Head Temp	Gas Rate	Oil Rate
3-Jun-10	23:30:00	0.00	20	1356.45	90.7	-
3-Jun-10	23:45:00	0.25	20	1350.75	95.4	438.3
4-Jun-10	0:00:00	0.50	20	1348.08	98.8	910.7
4-Jun-10	0:15:00	0.75	24	1347.90	101.1	1077.1
4-Jun-10	0:30:00	1.00	24	1347.69	103.0	803.0
4-Jun-10	0:45:00	1.25	24	1350.52	104.5	633.6
4-Jun-10	1:00:00	1.50	24	1362.38	105.4	1037.8
4-Jun-10	1:15:00	1.75	24	1368.38	105.7	1263.4
4-Jun-10	1:30:00	2.00	28	1371.23	106.0	939.8
4-Jun-10	1:45:00	2.25	28	1378.72	106.2	1341.9
4-Jun-10	2:00:00	2.50	28	1382.94	106.4	1331.7
4-Jun-10	2:15:00	2.75	32	1388.63	106.8	1410.2
4-Jun-10	2:30:00	3.00	32	1396.01	107.0	1762.6
4-Jun-10	2:45:00	3.25	32	1400.14	106.8	1684.8
4-Jun-10	3:00:00	3.50	36	1403.26	106.7	1920.0
4-Jun-10	3:15:00	3.75	36	1403.92	106.7	2154.3
4-Jun-10	3:30:00	4.00	36	1406.93	106.6	2233.0
4-Jun-10	3:45:00	4.25	40	1403.91	107.5	2585.3
4-Jun-10	4:00:00	4.50	40	1415.49	108.3	2624.7
4-Jun-10	4:15:00	4.75	40	1421.47	108.4	2664.0
4-Jun-10	4:30:00	5.00	44	1419.26	108.2	2624.7
4-Jun-10	4:45:00	5.25	44	1418.59	108.4	0.0
4-Jun-10	5:00:00	5.50	48	1415.36	107.8	3553.4
4-Jun-10	5:15:00	5.75	48	1415.50	106.9	3473.0
4-Jun-10	5:30:00	6.00	52	1406.57	106.5	4105.2
4-Jun-10	5:45:00	6.25	52	1406.54	106.3	4124.9
4-Jun-10	6:00:00	6.50	52	1403.77	106.1	4125.2
4-Jun-10	6:15:00	6.75	52	1406.52	106.0	4097.7
4-Jun-10	6:30:00	7.00	52	1406.73	105.9	4433.2
4-Jun-10	6:45:00	7.25	52	1406.52	106.0	4446.2
4-Jun-10	7:00:00	7.50	52	1409.54	106.1	4420.6
4-Jun-10	7:15:00	7.75	52	1409.70	106.1	4463.9
4-Jun-10	7:30:00	8.00	52	1409.64	106.2	4465.1
4-Jun-10	7:45:00	8.25	52	1409.75	106.4	4420.2
4-Jun-10	8:00:00	8.50	56	1397.74	106.4	5189.9
4-Jun-10	8:15:00	8.75	56	1401.16	105.9	5169.6
4-Jun-10	8:30:00	9.00	60	1392.08	105.5	5897.0
4-Jun-10	8:45:00	9.25	60	1391.89	104.9	5858.8
4-Jun-10	9:00:00	9.50	62	1385.82	104.4	6227.7
4-Jun-10	9:15:00	9.75	64	1377.06	103.9	6515.9
4-Jun-10	9:30:00	10.00	64	1377.32	103.2	7207.0
4-Jun-10	9:45:00	10.25	64	1377.09	102.9	6203.1
4-Jun-10	10:00:00	10.50	64	1377.14	103.0	5775.9
4-Jun-10	10:15:00	10.75	64	1377.34	106.0	6658.5

Choke Setting vs Recovery I



Surface Pressure vs Recover

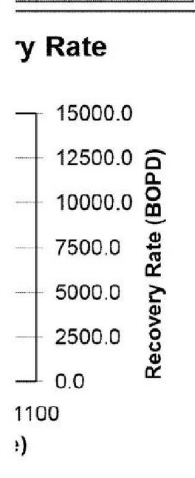
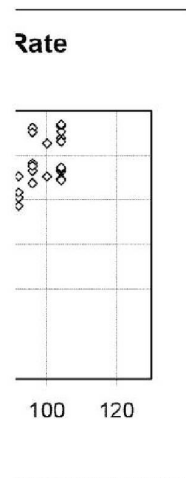


BP-HZN-2179MDL01623145

BPD187-109594

TREX 006306.0018

TREX-006306.0018



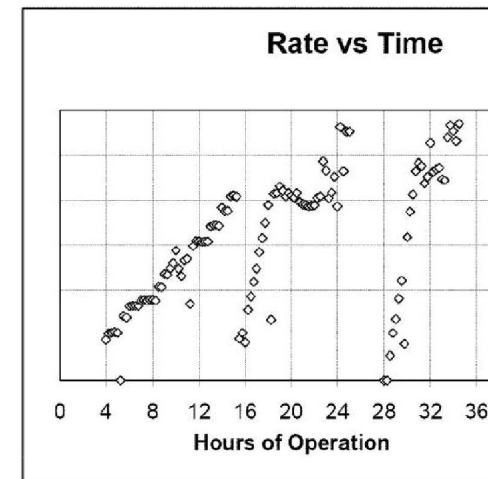
BP-HZN-2179MDL01623146

BPD187-109595

TREX 006306.0019

TREX-006306.0019

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4-Jun-10	10:45:00	11.25	68	1374.28	107.8	15.5	4232.2
4-Jun-10	11:00:00	11.50	68	1365.22	107.9	15.9	7443.5
4-Jun-10	11:15:00	11.75	68	1365.14	107.6	16.5	7747.7
4-Jun-10	11:30:00	12.00	68	1365.19	106.6	16.1	7729.2
4-Jun-10	11:45:00	12.25	68	1365.47	104.4	16.0	7676.1
4-Jun-10	12:00:00	12.50	68	1365.21	103.6	15.9	7703.1
4-Jun-10	12:15:00	12.75	68	1362.92	104.1	15.7	7708.2
4-Jun-10	12:30:00	13.00	72	1347.40	104.4	17.2	8552.2
4-Jun-10	12:45:00	13.25	72	1344.55	104.4	17.2	8630.5
4-Jun-10	13:00:00	13.50	72	1344.48	103.4	16.4	8632.4
4-Jun-10	13:15:00	13.75	72	1347.67	102.5	19.4	8581.4
4-Jun-10	13:30:00	14.00	76	1327.06	102.2	24.4	9610.3
4-Jun-10	13:45:00	14.25	76	1326.96	101.4	24.4	9407.0
4-Jun-10	14:00:00	14.50	76	1327.02	100.3	24.2	9428.1
4-Jun-10	14:15:00	14.75	80	1306.54	100.2	24.2	10218.3
4-Jun-10	14:30:00	15.00	80	1306.33	99.6	24.4	10266.2
4-Jun-10	14:45:00	15.25	80	1306.53	99.0	24.0	10215.4
4-Jun-10	15:00:00	15.50	36	1427.64	97.6	18.3	2286.3
4-Jun-10	15:15:00	15.75	40	1421.75	93.9	19.4	2619.0
4-Jun-10	15:30:00	16.00	44	1418.85	96.3	19.0	2083.9
4-Jun-10	15:45:00	16.25	48	1415.65	99.1	18.1	3894.1
4-Jun-10	16:00:00	16.50	52	1406.76	99.2	17.8	4650.3
4-Jun-10	16:15:00	16.75	56	1398.15	98.8	17.6	5450.8
4-Jun-10	16:30:00	17.00	60	1389.44	98.9	18.1	6210.7
4-Jun-10	16:45:00	17.25	64	1377.55	98.8	18.5	7114.9
4-Jun-10	17:00:00	17.50	68	1362.85	98.9	18.6	7902.6
4-Jun-10	17:15:00	17.75	72	1344.85	97.7	19.0	8747.3
4-Jun-10	17:30:00	18.00	76	1324.65	98.4	19.2	9756.1
4-Jun-10	17:45:00	18.25	80	1303.75	97.2	20.2	3345.8
4-Jun-10	18:00:00	18.50	80	1303.66	96.1	23.7	10365.7
4-Jun-10	18:15:00	18.75	80	1303.79	95.6	23.923	10404.9
4-Jun-10	18:30:00	19.00	80	1306.48	95.2	23.660	10778.9
4-Jun-10	18:45:00	19.25	80	1306.45	95.1	24.323	10533.4
4-Jun-10	19:00:00	19.50	80	1306.53	95.1	24.237	10220.2
4-Jun-10	19:15:00	19.75	80	1306.63	95.0	24.480	10413.0
4-Jun-10	19:30:00	20.00	80	1306.63	95.0	25.064	10259.0
4-Jun-10	19:45:00	20.25	80	1306.32	94.8	24.836	10156.9
4-Jun-10	20:00:00	20.50	84	1286.09	94.7	27.392	10410.2
4-Jun-10	20:15:00	20.75	84	1286.07	94.2	27.598	9907.8
4-Jun-10	20:30:00	21.00	84	1286.26	94.0	27.111	9784.7
4-Jun-10	20:45:00	21.25	84	1285.82	94.0	28.690	9766.0
4-Jun-10	21:00:00	21.50	84	1285.76	94.1	28.103	9681.0
4-Jun-10	21:15:00	21.75	84	1285.96	94.3	28.304	9710.4
4-Jun-10	21:30:00	22.00	84	1285.93	94.4	28.057	9735.6
4-Jun-10	21:45:00	22.25	88	1265.31	94.0	29.910	10137.0
4-Jun-10	22:00:00	22.50	88	1265.31	93.7	29.463	10224.0

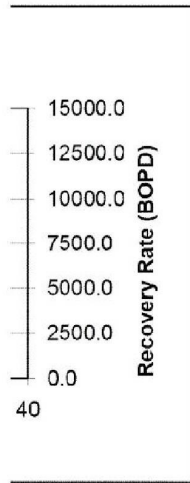


BP-HZN-2179MDL01623147

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BP-HZN-2179MDL01623148

BPD187-109597

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4-Jun-10	22:15:00	22.75	88	1265.31	93.5	27.338		12161.5	
4-Jun-10	22:30:00	23.00	88	1265.47	93.6	27.480		11668.1	
4-Jun-10	22:45:00	23.25	92	1244.64	93.6	30.380		10120.9	
4-Jun-10	23:00:00	23.50	92	1244.65	93.3	31.138		10434.9	
4-Jun-10	23:15:00	23.75	92	1244.61	93.4	30.233		11331.7	
4-Jun-10	23:30:00	24.00	92	1244.81	93.4	31.880		9678.2	
4-Jun-10	23:45:00	24.25	96	1227.16	93.1	29.044		14058.2	
5-Jun-10	0:00:00	24.50	96	1226.85	93.0	29.504		11633.6	
5-Jun-10	0:15:00	24.75	96	1227.14	93.1	28.879		13796.4	
5-Jun-10	0:30:00	25.00	96	1227.05	93.1	29.015		13800.1	
5-Jun-10	0:45:00	25.25		1433.32	92.6				
5-Jun-10	1:00:00	25.50		1421.79	92.0				
5-Jun-10	1:15:00	25.75		1412.57	91.3				
5-Jun-10	1:30:00	26.00		1406.76	90.9				
5-Jun-10	1:45:00	26.25		1400.86	90.4				
5-Jun-10	2:00:00	26.50		1398.00	90.1				
5-Jun-10	2:15:00	26.75		1395.04	89.8				
5-Jun-10	2:30:00	27.00		1390.93	89.3				
5-Jun-10	2:45:00	27.25		1389.14	89.0				
5-Jun-10	3:00:00	27.50		1386.21	88.6				
5-Jun-10	3:15:00	27.75		1566.02	88.5				
5-Jun-10	3:30:00	28.00	20	1527.80	87.0	-		-	
5-Jun-10	3:45:00	28.25	28	1436.42	89.1	-		-	
5-Jun-10	4:00:00	28.50	36	1421.44	95.7	6.264		1380.6	
5-Jun-10	4:15:00	28.75	40	1406.84	99.5	8.549		2609.2	
5-Jun-10	4:30:00	29.00	48	1410.87	103.2	8.497		3381.5	
5-Jun-10	4:45:00	29.25	52	1409.93	104.1	10.392		4537.2	
5-Jun-10	5:00:00	29.50	60	1390.97	103.5	13.044		5524.8	
5-Jun-10	5:15:00	29.75	64	1379.05	102.4	5.674		2002.7	
5-Jun-10	5:30:00	30.00	72	1344.90	101.0	15.085		7962.7	
5-Jun-10	5:45:00	30.25	76	1326.91	99.4	16.665		9382.1	
5-Jun-10	6:00:00	30.50	84	1288.97	97.8	20.672		10328.8	
5-Jun-10	6:15:00	30.75	88	1262.35	96.5	22.546		11634.0	
5-Jun-10	6:30:00	31.00	96	1224.12	95.4	25.754		12059.7	
5-Jun-10	6:45:00	31.25	96	1224.11	94.7	25.068		11905.4	
5-Jun-10	7:00:00	31.50	96	1224.24	94.6	27.954		10949.1	
5-Jun-10	7:15:00	31.75	100	1209.41	94.4	28.816		11321.2	
5-Jun-10	7:30:00	32.00	100	1209.44	94.4	28.963		13174.7	
5-Jun-10	7:45:00	32.25	104	1197.59	94.3	29.072		11609.6	
5-Jun-10	8:00:00	32.50	104	1197.67	94.4	29.409		11738.8	
5-Jun-10	8:15:00	32.75	104	1197.69	94.5	29.558		11815.9	
5-Jun-10	8:30:00	33.00	104	1197.74	94.7	29.509		11188.5	
5-Jun-10	8:45:00	33.25	104	1197.55	94.7	30.133		11128.9	
5-Jun-10	9:00:00	33.50	104	1197.35	94.8	26.012		13473.9	
5-Jun-10	9:15:00	33.75	104	1197.94	95.9	24.495		14153.4	
5-Jun-10	9:30:00	34.00	104	1200.35	97.4	25.701		13835.9	
5-Jun-10	9:45:00	34.25	104	1200.47	98.4	25.747		13281.8	

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5-Jun-10	10:00:00	34.50	104	1200.60	99.2	25.633	14248.2
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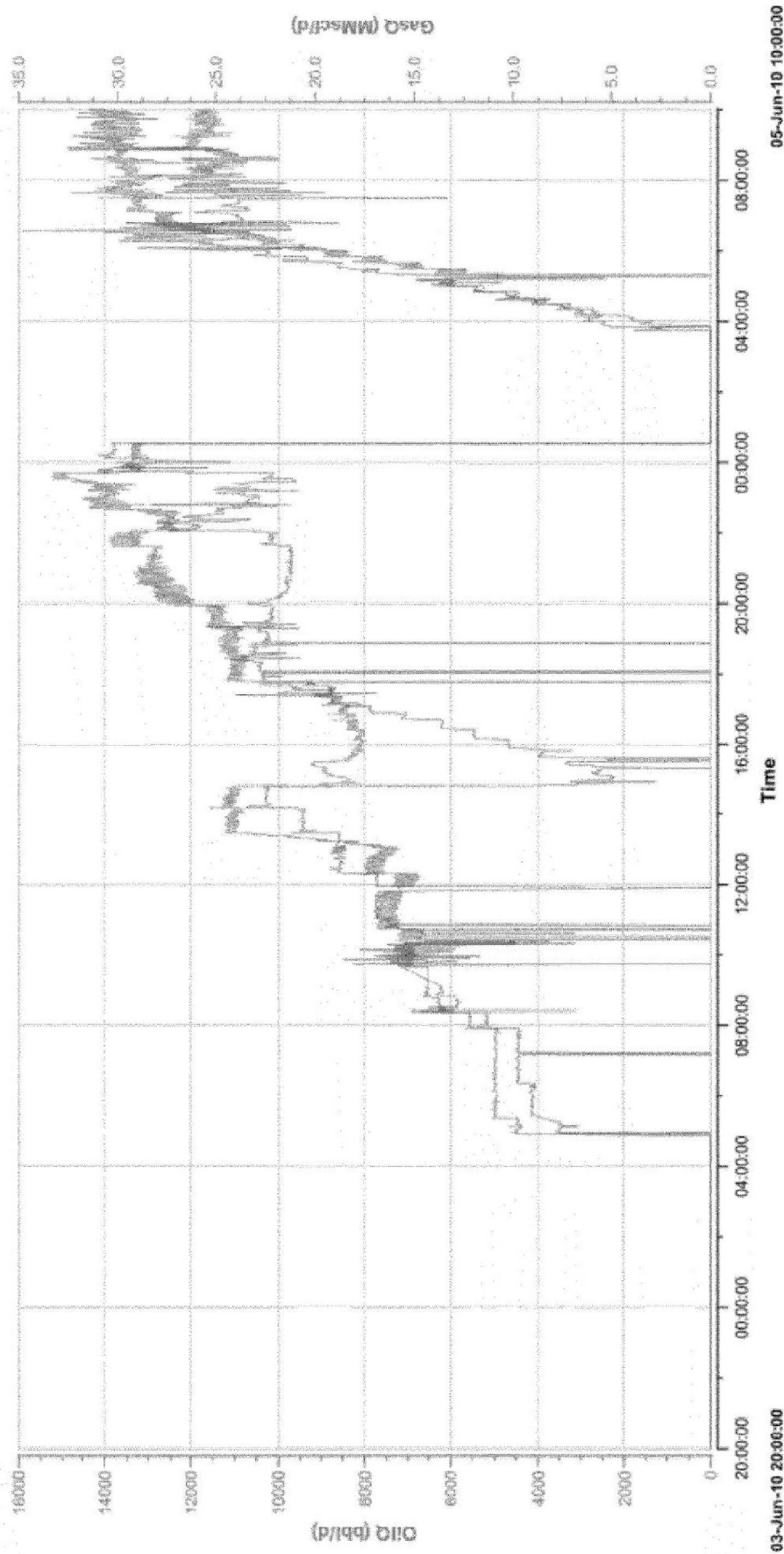
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BPD187-109599

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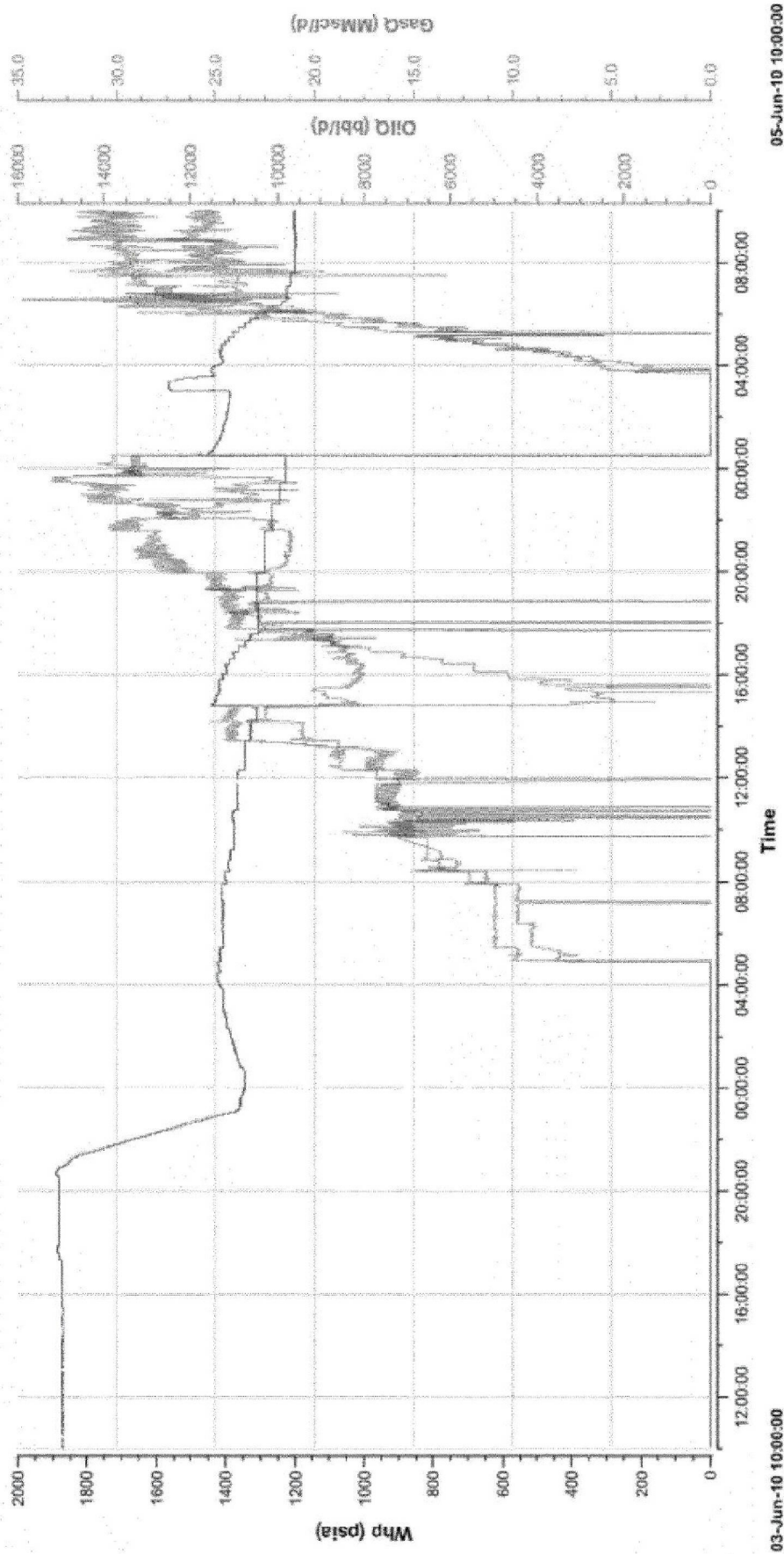
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Oil & Gas Rates
Field Data



Oil (Range : 0.00 - 35.00) (MMscfd) Gas (Range : 0.00 - 16000.00) (bbl/d)

**Rates & Whp
Field Data**



Whp Range : (0.00 ; 2000.00) (psia)
Oil Range : (0.00 ; 16000.00) (bbl/d)
Gas Range : (0.00 ; 35.00) (MMscfd)

Document Produced Natively

BP-HZN-2179MDL01623153

BPD167-109602

TREX 006306.0026

TREX-006306.0026

Wellhead Pressure & Temperature Field Data

