

May 17, 2007

New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

Attn: Mr. David Catanach

RE: Injection Pressure Increase
Washington 33 State Waterflood
Section 33, Township 17S, Range 28E
Eddy County, New Mexico

RECEIVED

JUN 04 2007

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

Dear Mr. Catanach,

BP is requesting permission to increase the surface injection pressure on Washington 33 State injectors as follows:

Well No.	API Number	Current Maximum Surface Pressure (psia)	Formation Parting Pressure at Surface (psia)	Proposed Maximum Surface Pressure (psia)	Comments
2	3001530187	290	N/A	906 ✓	Formation parting pressure not obtained at maximum test injection pressure (956 psia surface)
4	3001530188	290	584	534 ✓	
10	3001530192	290	627	577 ✓	
12	3001530348	290	676	626 ✓	
16	3001522415	290	866	816 ✓	
18	3001521745	290	656	606 ✓	
23	3001530333	290	768	718 ✓	

This request is based on step rate tests conducted April 12th – 20th, 2007, by Cardinal Surveys Company. The results from the step rate tests are attached to this letter.

Please review this information and contact me with any questions or concerns.

Thanks,

Rachel S. Heidt
Reservoir Engineer
BP
501 Westlake Park Blvd, WL1 6.196
Houston, TX 77079

Tel. (281) 366-2885
Fax (281) 366-7067

DATE IN 6/14/07	SUSPENSE 6/14/07	ENGINEER DCC	LOGGED IN 6/15/07	TYPE EPI	APP NO. PDAC0715633101
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] **[NSP-Non-Standard Proration Unit]** **[SD-Simultaneous Dedication]**
[DHC-Downhole Commingling] **[CTB-Lease Commingling]** **[PLC-Pool/Lease Commingling]**
[PC-Pool Commingling] **[OLS - Off-Lease Storage]** **[OLM-Off-Lease Measurement]**
[WFX-Waterflood Expansion] **[PMX-Pressure Maintenance Expansion]**
[SWD-Salt Water Disposal] **[IPI-Injection Pressure Increase]**
[EOR-Qualified Enhanced Oil Recovery Certification] **[PPR-Positive Production Response]**

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] ☐ Offset Operators, Leaseholders or Surface Owner
 [C] ☐ Application is One Which Requires Published Legal Notice
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name

Signature

Title

Date

e-mail Address

Step Rate Test



Cardinal Surveys Company

20-Apr-07

No Parting Pressure
Indicated

B. P. America

Well: Washington 33 State No. 2

Field: Washington

Eddy County, NM

SC 56030

Downhole PSI Tool S 71267
Surface PSI Gauge S 10509
Tool @ 2,200'

	Start	End	Rate
1	8:47 AM	9:00 AM	0 2,200'
2	9:00 AM	9:30 AM	500
3	9:30 AM	10:00 AM	800
4	10:00 AM	10:30 AM	1100
5	10:30 AM	11:00 AM	1400
6	11:00 AM	11:30 AM	1700
7	11:30 AM	12:00 PM	2000
8	12:00 PM	12:30 PM	2300
9	12:30 PM	1:00 PM	2600
10	1:00 PM	1:30 PM	2900
11	1:30 PM	2:00 PM	3200
12	2:00 PM	2:30 PM	3500
13	2:30 PM	3:00 PM	3800
14	3:00 PM	3:30 PM	4100
15	3:30 PM	4:00 PM	4400 Fall Off
16	4:00 PM	4:30 PM	0 Fall Off

Step Rate Test
20-Apr-07

B. P. America

Well: Washington 33 State # 2

Field: Washington

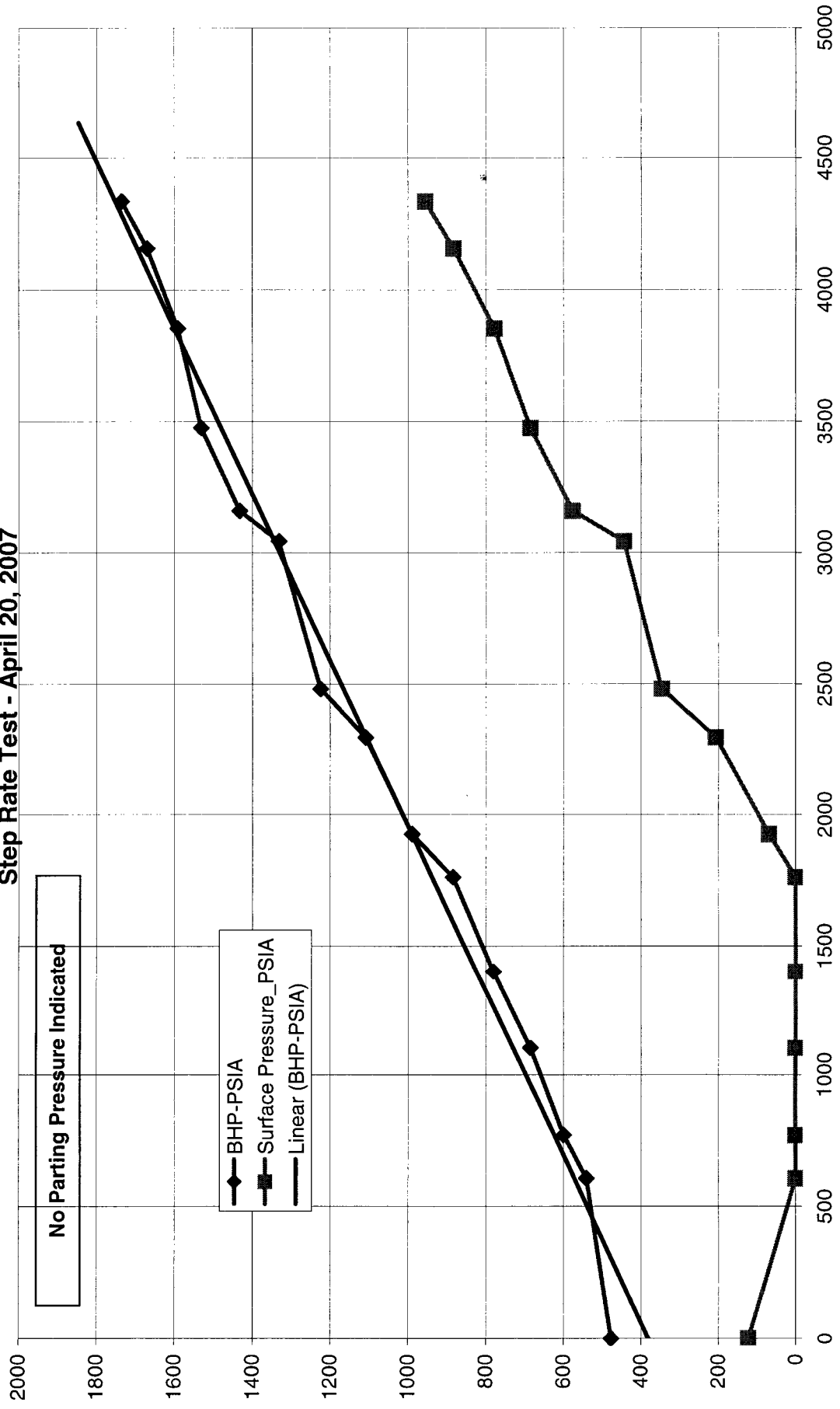
Eddy County, NM



	S Time	E Time	D Time	Last Rate	Step	BHP	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1	8:47 AM	9:00 AM	13	0	0	477.3	122.7	0	0	0		
2	9:00 AM	9:30 AM	30	500	500	541	0	12.6	12.6	605		
3	9:30 AM	10:00 AM	30	800	300	600	0	28.6	16	768		
4	10:00 AM	10:30 AM	30	1100	300	685.7	0	51.6	23	1104		
5	10:30 AM	11:00 AM	30	1400	300	780.9	0	80.8	29.2	1402		
6	11:00 AM	11:30 AM	30	1700	300	884.2	0	117.5	36.7	1762		
7	11:30 AM	12:00 PM	30	2000	300	989.8	68.9	157.6	40.1	1925		
8	12:00 PM	12:30 PM	30	2300	300	1108.6	206.2	205.4	47.8	2294		
9	12:30 PM	1:00 PM	30	2600	300	1224	346	257.1	51.7	2482		
10	1:00 PM	1:30 PM	30	2900	300	1332.2	444.2	320.5	63.4	3043		
11	1:30 PM	2:00 PM	30	3200	300	1432.2	576.8	386.3	65.8	3158		
12	2:00 PM	2:30 PM	30	3500	300	1531.2	686	458.7	72.4	3475		
13	2:30 PM	3:00 PM	30	3800	300	1591.5	778.3	539	80.3	3854		
14	3:00 PM	3:30 PM	30	4100	300	1670.2	883	625.6	86.6	4157		
15	3:30 PM	4:00 PM	30	4400	300	1735.7	955.7	715.9	90.3	4334		
16	4:00 PM	4:30 PM	30			1446.2	446.6					

int point: #DIV/0! BPD
#DIV/0! Psia

BP America
Washington State "33" No. 2
Step Rate Test - April 20, 2007



Step Rate Test



Cardinal Surveys Company

19-Apr-07

B. P. America

Well: Washington 33 State No. 4

Field: Washington

Eddy County, NM

SC 56031

Intercept at 1469.1 PSI
BHP and 2328.4 BPD

Downhole PSI Tool S 71267
Surface PSI Gauge S 10509
Tool @ 2,200'

	Start	End	Rate
1	8:10 AM	8:30 AM	0 2,200'
2	8:30 AM	9:00 AM	200
3	9:00 AM	9:30 AM	400
4	9:30 AM	10:00 AM	600
5	10:00 AM	10:30 AM	900
6	10:30 AM	11:00 AM	1200
7	11:00 AM	11:30 AM	1500
8	11:30 AM	12:00 PM	1800
9	12:00 PM	12:30 PM	2100
10	12:30 PM	1:00 PM	2400
11	1:00 PM	1:30 PM	2700
12	1:30 PM	2:00 PM	3000
13	2:00 PM	2:30 PM	3300
14	2:30 PM	2:45 PM	0 Fall Off
15			

Step Rate Test
19-Apr-07

B. P. America
Well: Washington 33 State # 4
Field: Washington
Eddy County, NM



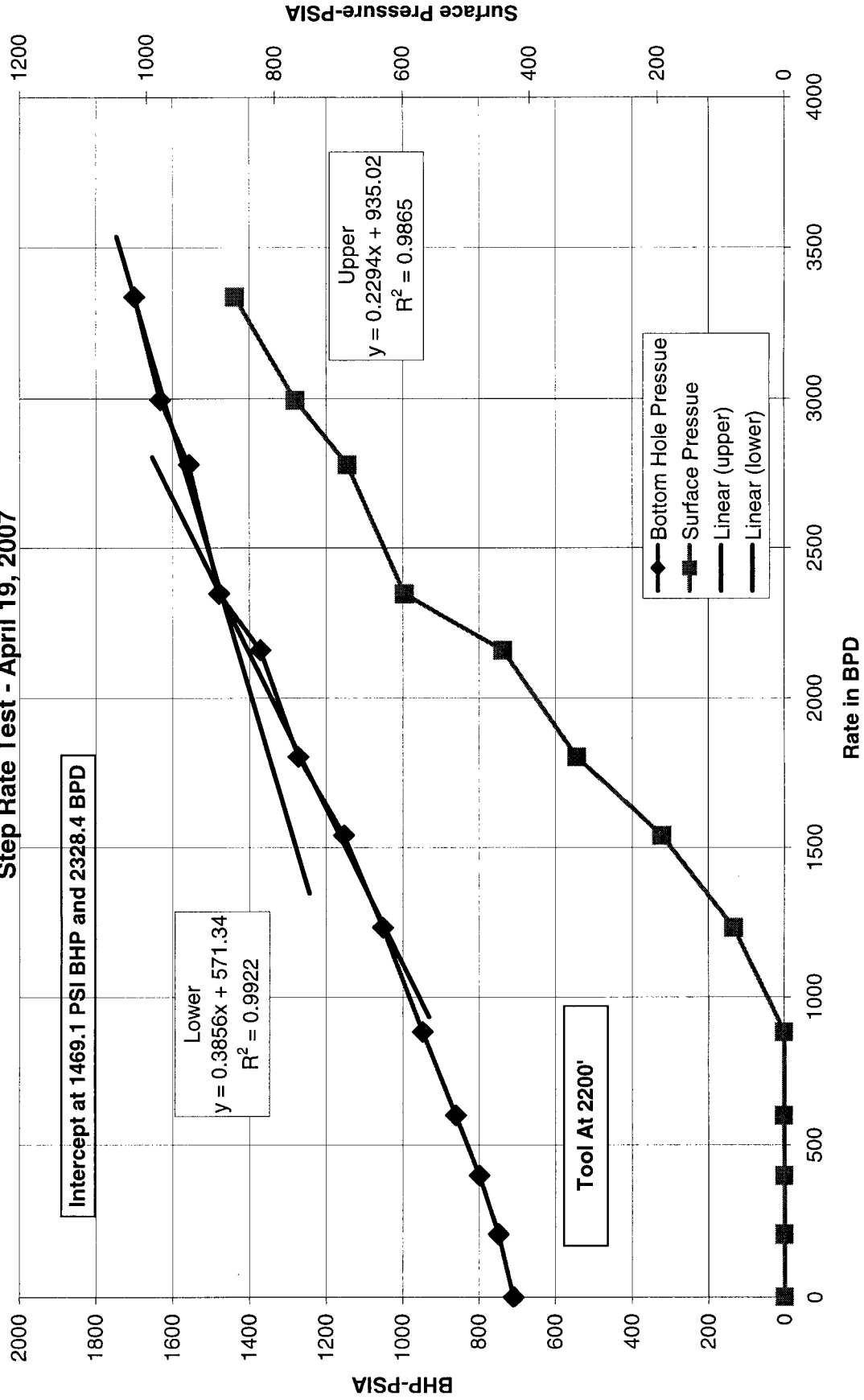
	S Time	E Time	D Time	Last Rate	Step	BHP	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1	8:10 AM	8:30 AM	20	0	0	709.4	0	0	0	0		
2	8:30 AM	9:00 AM	30	200	200	748.5	0	4.3	4.3	206		
3	9:00 AM	9:30 AM	30	400	200	799.1	0	12.6	8.3	398		
4	9:30 AM	10:00 AM	30	600	200	860.6	0	25.1	12.5	600	860.6	
5	10:00 AM	10:30 AM	30	900	300	948.1	0	43.5	18.4	883	948.1	
6	10:30 AM	11:00 AM	30	1200	300	1052.2	80.1	69.2	25.7	1234	1052.2	
7	11:00 AM	11:30 AM	30	1500	300	1154.2	193.4	101.3	32.1	1541	1154.2	
8	11:30 AM	12:00 PM	30	1800	300	1273.3	326.9	138.9	37.6	1805	1273.3	
9	12:00 PM	12:30 PM	30	2100	300	1371.5	442.8	183.9	45	2160		1478.4
10	12:30 PM	1:00 PM	30	2400	300	1478.4	597.4	232.8	48.9	2347		1557.2
11	1:00 PM	1:30 PM	30	2700	300	1557.2	687.3	290.7	57.9	2779		1632.6
12	1:30 PM	2:00 PM	30	3000	300	1632.6	768.4	353.1	62.4	2995		1700
13	2:00 PM	2:30 PM	30	3300	300	1700	862.8	422.6	69.5	3336		
14	2:30 PM	2:45 PM	15	0		1571.7	586.9	0				
15												
16												

0.3856 571.3
0.2294 935

int point: 2328.425 BPD
1469.141 Psia



B P America
Washington State "33" No.4
Step Rate Test - April 19, 2007



Step Rate Test



Cardinal Surveys Company

18-Apr-07

B. P. America

Well: Washington 33 State No. 10

Field: Washington

Eddy County, NM

SC 56029

Intercept at 1589.8
PSIA BHP and 2222
BPD

Downhole PSI Tool S 71267

Surface PSI Gauge S 10509

Tool @ 2,250'

	Start	End	Rate
1	8:30 AM	8:45 AM	0 2,250'
2	8:45 AM	9:15 AM	200
3	9:15 AM	9:45 AM	400
4	9:45 AM	10:15 AM	600
5	10:15 AM	10:45 AM	800
6	10:45 AM	11:15 AM	1000
7	11:15 AM	11:45 AM	1200
8	11:45 AM	12:15 PM	1400
9	12:15 PM	12:45 PM	1600
10	12:45 PM	1:15 PM	1800
11	1:15 PM	1:45 PM	2000
12	1:45 PM	2:15 PM	2200
13	2:15 PM	2:45 PM	2400
14	2:45 PM	3:15 PM	2600
15	3:15 PM	3:45 PM	2800
16	3:45 PM	4:15 PM	3000
17	4:15 PM	4:30 PM	0 Fall Off

Step Rate Test
18-Apr-07

B. P. America
Well: Washington 33 State # 10
Field: Washington
Eddy County, NM

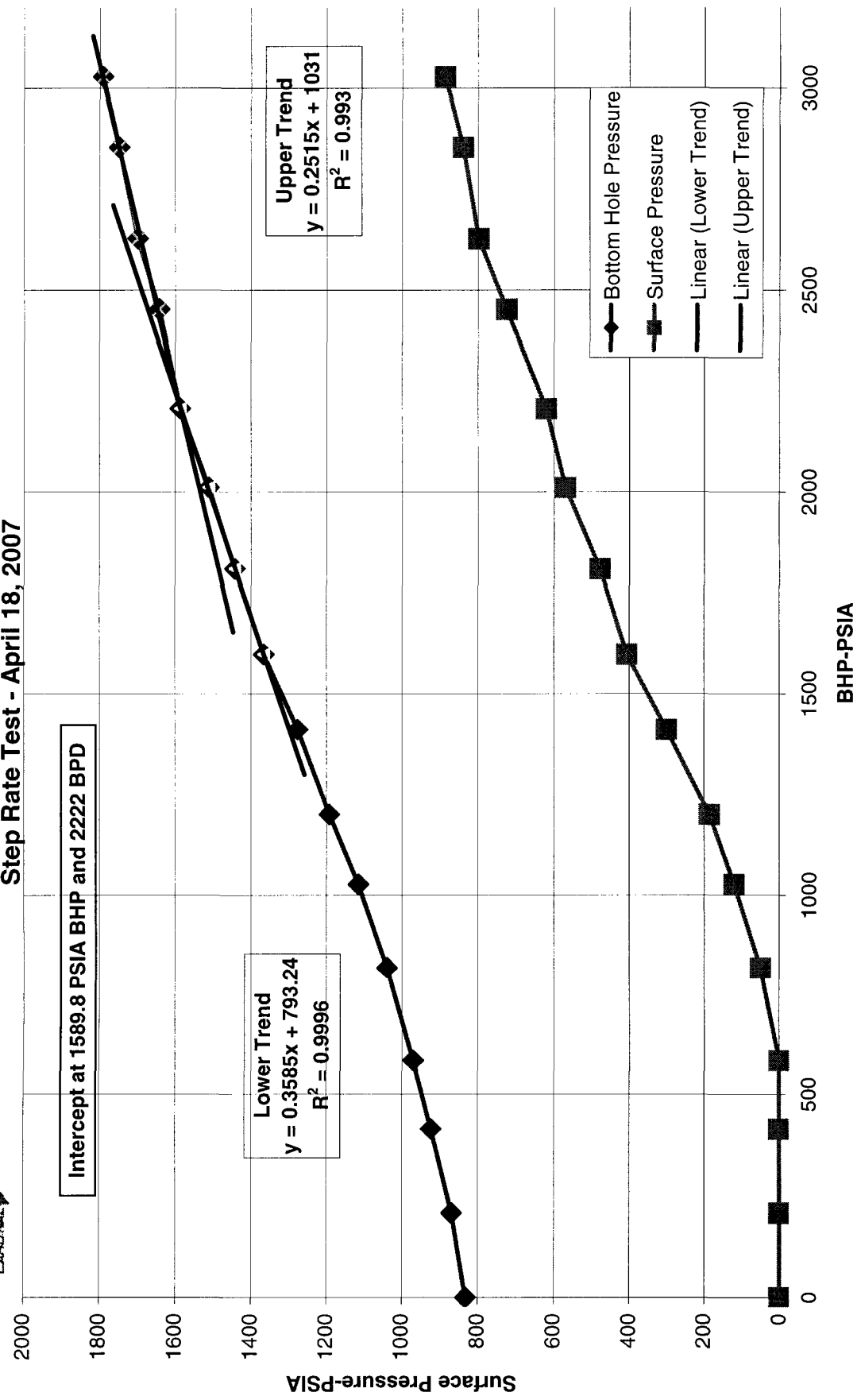


	S Time	E Time	D Time	Last Rate	Step	BHP	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1	8:30 AM	8:45 AM	15	0	0	832.4	0	0	0	0		
2	8:45 AM	9:15 AM	30	200	200	869.9	0	4.3	4.3	206		
3	9:15 AM	9:45 AM	30	400	200	923.6	0	12.9	8.6	413		
4	9:45 AM	10:15 AM	30	600	200	971.2	0	25.1	12.2	586		
5	10:15 AM	10:45 AM	30	800	200	1040.2	49.8	42.2	17.1	821		
6	10:45 AM	11:15 AM	30	1000	200	1115.6	120.3	63.6	21.4	1027		
7	11:15 AM	11:45 AM	30	1200	200	1192.9	186.1	88.6	25	1200		
8	11:45 AM	12:15 PM	30	1400	200	1277.1	300.7	118	29.4	1411		
9	12:15 PM	12:45 PM	30	1600	200	1366.4	406.6	151.3	33.3	1598	1366.4	
10	12:45 PM	1:15 PM	30	1800	200	1443.1	478.8	189	37.7	1810	1443.1	
11	1:15 PM	1:45 PM	30	2000	200	1511.7	570.5	230.9	41.9	2011	1511.7	
12	1:45 PM	2:15 PM	30	2200	200	1586.2	620.5	276.9	46	2208	1586.2	
13	2:15 PM	2:45 PM	30	2400	200	1642.9	725.9	328	51.1	2453		1642.9
14	2:45 PM	3:15 PM	30	2600	200	1698.9	798.5	382.7	54.7	2626		1698.9
15	3:15 PM	3:45 PM	30	2800	200	1747.3	838.5	442.1	59.4	2851		1747.3
16	3:45 PM	4:15 PM	30	3000	200	1791.1	887.1	505.2	63.1	3029		1791.1
17	4:15 PM	4:30 PM	15	0		1895.7	681.6					

0.3585 793.24
0.2515 1031

int point: 2222.056 BPD
1589.847 Psia

BP America
 Washington State "33" No. 10
 Step Rate Test - April 18, 2007



Step Rate Test



Cardinal Surveys Company

13-Apr-07

B. P. America

Well: Washington 33 State No. 12

Field: Washington

Eddy County, NM

SC 56026

Intercept at 1844.8 BPD
and 1569.4 PSIA-BHP

Downhole PSI Tool S 71267

Surface PSI Gauge S 10509

Tool @ 2,200'

	Start	End	Rate
1	9:36 AM	10:00 AM	0 2,200'
2	10:00 AM	10:30 AM	200
3	10:30 AM	11:00 AM	400
4	11:00 AM	11:30 AM	600
5	11:30 AM	12:00 PM	800
6	12:00 PM	12:30 PM	1000
7	12:30 PM	1:00 PM	1200
8	1:00 PM	1:30 PM	1400
9	1:30 PM	2:00 PM	1600
10	2:00 PM	2:30 PM	1800
11	2:30 PM	3:00 PM	2000
12	3:00 PM	3:30 PM	2200
13	3:30 PM	4:00 PM	2400
14	4:00 PM	4:15 PM	0 Fall Off
15			

Step Rate Test
13-Apr-07

B. P. America
Well: Washington 33 State # 12
Field: Washington
Eddy County, NM



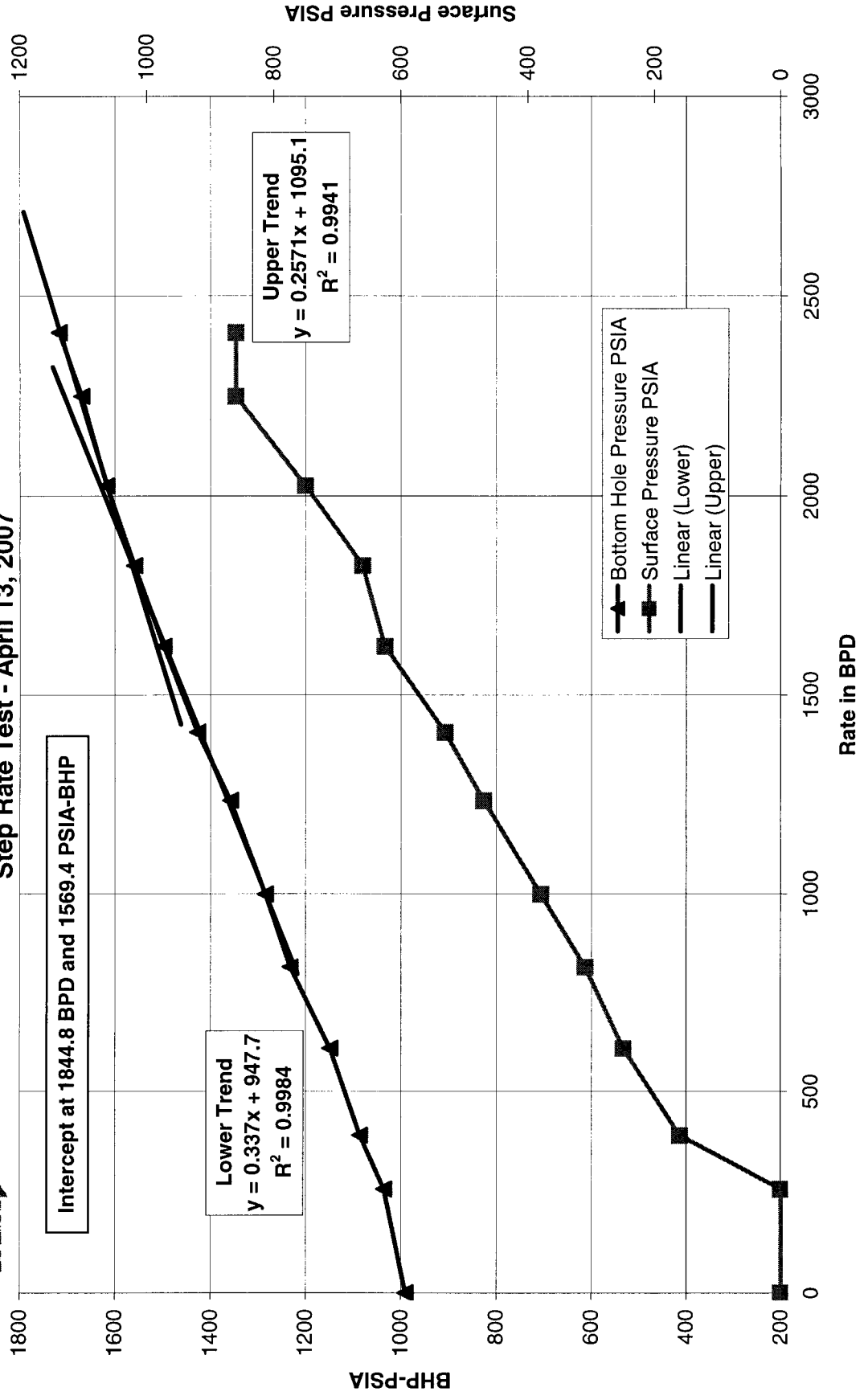
	S Time	E Time	D Time	Last Rate	Step	BHP	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1	9:36 AM	10:00 AM	24	0	0	990.3	0	0	0	0		
2	10:00 AM	10:30 AM	30	200	200	1035.6	0	5.3	5.3	254		
3	10:30 AM	11:00 AM	30	400	200	1086.3	160	13.4	8.1	389		
4	11:00 AM	11:30 AM	30	600	200	1149.2	250	26.1	12.7	610		
5	11:30 AM	12:00 PM	30	800	200	1232.5	310	43.1	17	816		
6	12:00 PM	12:30 PM	30	1000	200	1284.5	380	63.9	20.8	998	1284.5	
7	12:30 PM	1:00 PM	30	1200	200	1358.3	470	89.6	25.7	1234	1358.3	
8	1:00 PM	1:30 PM	30	1400	200	1426.8	530	118.9	29.3	1406	1426.8	
9	1:30 PM	2:00 PM	30	1600	200	1497.8	625	152.7	33.8	1622	1497.8	
10	2:00 PM	2:30 PM	30	1800	200	1558.9	660	190.7	38	1824	1558.9	
11	2:30 PM	3:00 PM	30	2000	200	1617.7	750	232.9	42.2	2026		1617.7
12	3:00 PM	3:30 PM	30	2200	200	1669.5	860	279.8	46.9	2251		1669.5
13	3:30 PM	4:00 PM	30	2400	200	1717.2	860	330	50.2	2410		1717.2
14	4:00 PM	4:15 PM	15	0	0	1640.7	735	0				
15												
16												

0.337 947.7
0.2571 1095.1

int point: 1844.806 BPD
1569.4 Psia

B P America

Washington State "33" No. 12
Step Rate Test - April 13, 2007



Step Rate Test



Cardinal Surveys Company

17-Apr-07

B. P. America

Well: Washington 33 State No. 16

Field: Washington

Eddy County, NM

SC 56028

Intercept at 1844.9 PSIA
BHP and 2110.1 BPD

Downhole PSI Tool S 71267

Surface PSI Gauge S 10509

Tool @ 2350'

	Start	End	Rate
1	8:29 AM	9:00 AM	0 2350'
2	9:00 AM	9:30 AM	200
3	9:30 AM	10:00 AM	400
4	10:00 AM	10:30 AM	600
5	10:30 AM	11:00 AM	800
6	11:00 AM	11:30 AM	1000
7	11:30 AM	12:00 PM	1200
8	12:00 PM	12:30 PM	1400
9	12:30 PM	1:00 PM	1600
10	1:00 PM	1:30 PM	1800
11	1:30 PM	2:00 PM	2000
12	2:00 PM	2:30 PM	2200
13	2:30 PM	3:00 PM	2400
14	3:00 PM	3:30 PM	2600
15	3:30 PM	3:45 PM	0 Fall Off

Step Rate Test
17-Apr-07

B. P. America

Well: Washington 33 State # 16

Field: Washington

Eddy County, NM



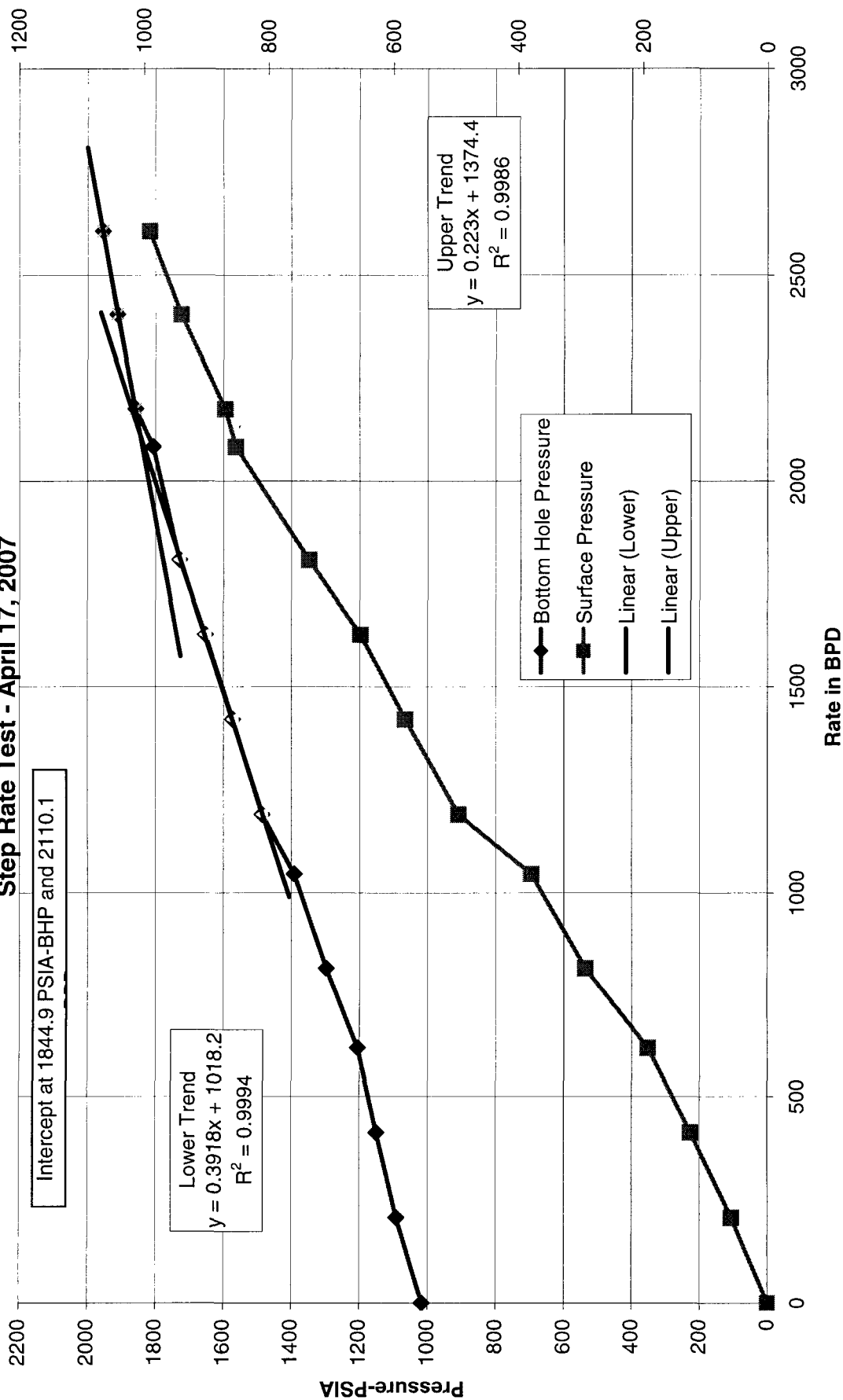
	S Time	E Time	D Time	Last Rate	Step	BHP	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1	8:29 AM	9:00 AM	31	0	0	1016.6	0	0	0	0		
2	9:00 AM	9:30 AM	30	200	200	1091.6	58.2	4.3	4.3	206		
3	9:30 AM	10:00 AM	30	400	200	1150.3	123.6	12.9	8.6	413		
4	10:00 AM	10:30 AM	30	600	200	1206.3	192.4	25.8	12.9	619		
5	10:30 AM	11:00 AM	30	800	200	1297.6	292.9	42.8	17	816		
6	11:00 AM	11:30 AM	30	1000	200	1391.9	379.6	64.6	21.8	1046		
7	11:30 AM	12:00 PM	30	1200	200	1486.5	496.3	89.4	24.8	1190	1486.5	
8	12:00 PM	12:30 PM	30	1400	200	1573.1	581.4	119	29.6	1421	1573.1	
9	12:30 PM	1:00 PM	30	1600	200	1653.2	653.3	152.9	33.9	1627	1653.2	
10	1:00 PM	1:30 PM	30	1800	200	1729.7	736	190.6	37.7	1810	1729.7	
11	1:30 PM	2:00 PM	30	2000	200	1807	853	234	43.4	2083		1858.3
12	2:00 PM	2:30 PM	30	2200	200	1858.3	870.2	279.3	45.3	2174		1912.7
13	2:30 PM	3:00 PM	30	2400	200	1912.7	940.4	329.4	50.1	2405		1954.5
14	3:00 PM	3:30 PM	30	2600	200	1954.5	991.3	383.7	54.3	2606		
15	3:30 PM	3:45 PM	15	0		1905	849.5					
16												

0.3918 1018.2
0.223 1374.4

int point: 2110.19 BPD
1844.972 Psia



BP America
Washington State "33" No. 16
Step Rate Test - April 17, 2007



Step Rate Test



Cardinal Surveys Company

04/16/07

B. P. America

Well: Washington 33 State # 18

Field: Washington

Eddy County, NM

SC 56027

Intercept @ 1577.1 PSI BHP and
2236.3 BPD

Downhole PSI Tool S 71267

Surface PSI Gauge S 10509

Tool @ 2,250'

	Start	End	Rate
1	9:10 AM	9:30 AM	0 At 2,250'
2	9:30 AM	10:00 AM	200
3	10:00 AM	10:30 AM	400
4	10:30 AM	11:00 AM	600
5	11:00 AM	11:30 AM	800
6	11:30 AM	12:00 PM	1000
7	12:00 PM	12:30 PM	1200
8	12:30 PM	1:00 PM	1400
9	1:00 PM	1:30 PM	1600
10	1:30 PM	2:00 PM	1800
11	2:00 PM	2:30 PM	2000
12	2:30 PM	3:00 PM	2200
13	3:00 PM	3:30 PM	2400
14	3:30 PM	4:00 PM	2600
15	4:00 PM	4:30 PM	2800
16	4:30 PM	4:45 PM	0 Fall Off

Step Rate Test
16-Apr-07

B. P. America

Well: Washington 33 State # 18

Field: Washington

Eddy County, NM



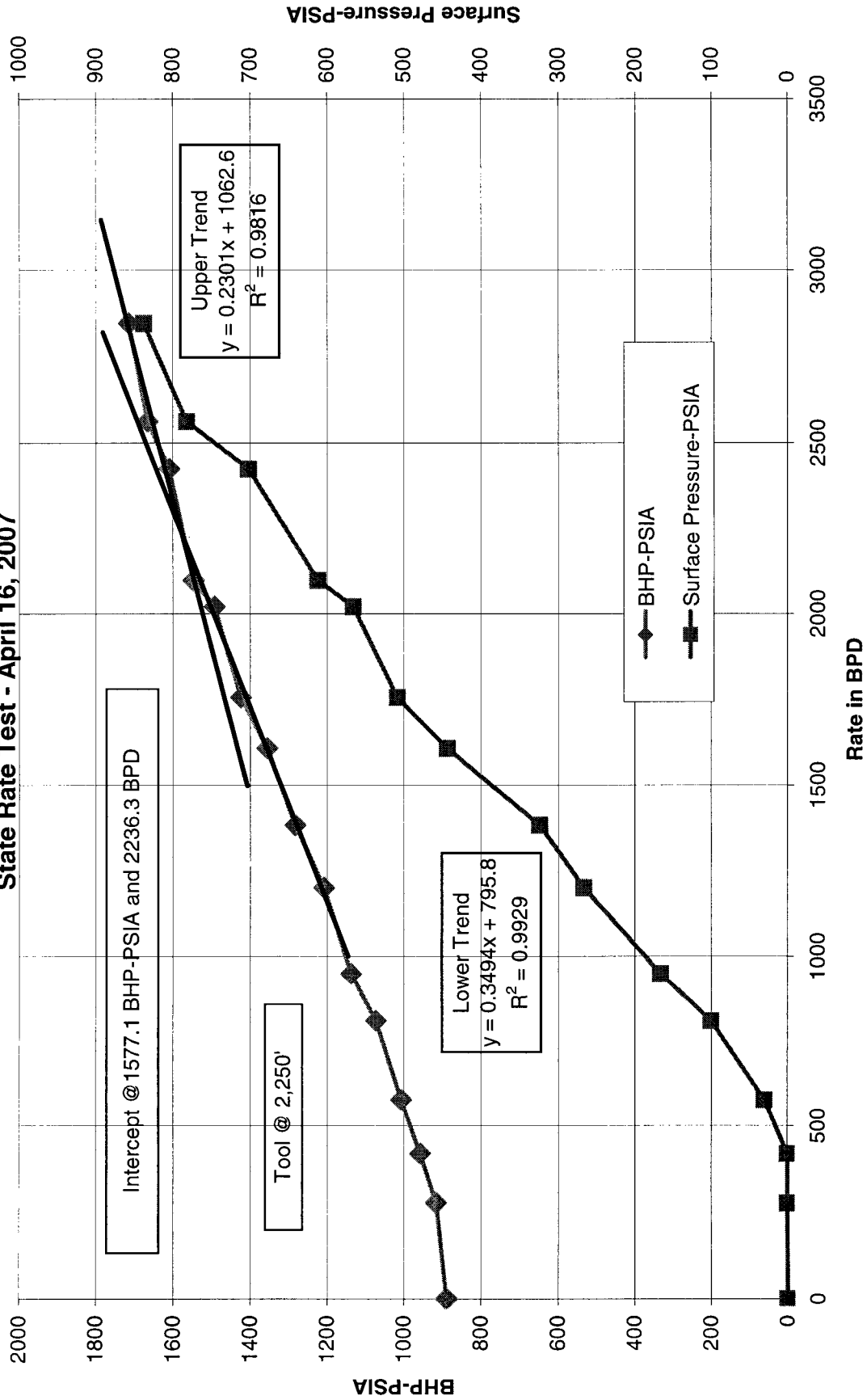
	S Time	E Time	D Time	Last Rate	Step	BHP	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1	9:10 AM	9:30 AM	20	0	0	889.1	0	0	0	0		
2	9:30 AM	10:00 AM	30	200	200	916.4	0	5.7	5.7	274		
3	10:00 AM	10:30 AM	30	400	200	958.3	0	14.4	8.7	418		
4	10:30 AM	11:00 AM	30	600	200	1007.5	30.3	26.4	12	576		
5	11:00 AM	11:30 AM	30	800	200	1072.9	100.7	43.3	16.9	811		
6	11:30 AM	12:00 PM	30	1000	200	1137.8	166.7	63.1	19.8	950		
7	12:00 PM	12:30 PM	30	1200	200	1208.2	266.8	88.1	25	1200	1208.2	
8	12:30 PM	1:00 PM	30	1400	200	1283.3	324.1	116.9	28.8	1382	1283.3	
9	1:00 PM	1:30 PM	30	1600	200	1355.6	443.5	150.4	33.5	1608	1355.6	
10	1:30 PM	2:00 PM	30	1800	200	1423.6	508.3	187	36.6	1757	1423.6	
11	2:00 PM	2:30 PM	30	2000	200	1492.5	565.8	229.1	42.1	2021	1492.5	
12	2:30 PM	3:00 PM	30	2200	200	1546.3	612	272.8	43.7	2098		1546.3
13	3:00 PM	3:30 PM	30	2400	200	1609.6	702	323.3	50.5	2424		1609.6
14	3:30 PM	4:00 PM	30	2600	200	1665	782.2	376.7	53.4	2563		1665
15	4:00 PM	4:30 PM	30	2800	200	1714.1	837.6	436	59.3	2846		1714.1
16	4:30 PM	4:45 PM	15	0	0	1667.6	658.3	0				

0.3494 795.8
0.2301 1062.6

int point: 2236.379 BPD
1577.191 Psia



BP America
Washington State "33" No. 18
State Rate Test - April 16, 2007



Step Rate Test



Cardinal Surveys Company

12-Apr-07

B. P. America

Well: Washington 33 State # 23

Field: Washington

Eddy County, NM

SC 56025

Intercept @ 1,669 PSI BHP
and 1746 BPD

Downhole PSI Tool Ser. No. 76267

Surface PSI Gauge Ser. No. 10xxx

Tool @ 2150

1	12:24 PM	12:45 PM	0 On Bottom
2	1:15 PM	1:45 PM	100
3	1:45 PM	2:15 PM	200
4	2:15 PM	2:45 PM	300
5	2:45 PM	3:15 PM	500
6	3:15 PM	3:45 PM	700
7	3:45 PM	4:15 PM	900
8	4:15 PM	4:45 PM	1100
9	4:45 PM	5:15 PM	1300
10	5:15 PM	5:45 PM	1500
11	5:45 PM	6:15 PM	1700
12	6:15 PM	6:45 PM	1900
13	6:45 PM	7:15 PM	2100
14	7:15 PM	7:45 PM	2300
15	7:45 PM	8:00 PM	0 Fall Off

Step Rate Test

B. P. America
Well: Washington 33 State # 23
Field: Washington
Eddy County, NM



	S Time	E Time	D Time	Last Rate	Step B. H. Pressure	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	BBL	BBL	BPD	Trend	Trend
1	12:24 PM	12:45 PM	21	0	0	959.6	0	0	0		
2	1:15 PM	1:45 PM	30	100	100	982	35	3.3	158		
3	1:45 PM	2:15 PM	30	200	100	1007	66	7.4	197		
4	2:15 PM	2:45 PM	30	300	100	1039	100	13.4	288		
5	2:45 PM	3:15 PM	30	500	200	1097	155	23.5	485		
6	3:15 PM	3:45 PM	30	700	200	1170	238	37.9	691	1170	
7	3:45 PM	4:15 PM	30	900	200	1260.8	339.6	56.2	878	1260.8	
8	4:15 PM	4:45 PM	30	1100	200	1356.8	420.6	78.8	1085	1356.8	
9	4:45 PM	5:15 PM	30	1300	200	1455.7	549.9	106.2	1315	1455.7	
10	5:15 PM	5:45 PM	30	1500	200	1550	646.1	137.2	1488	1550	
11	5:45 PM	6:15 PM	30	1700	200	1649.3	746.6	174.7	1800	1649.3	
12	6:15 PM	6:45 PM	30	1900	200	1719	823	215.9	1978		1719
13	6:45 PM	7:15 PM	30	2100	200	1779.2	911.7	259.4	2088		1779.2
14	7:15 PM	7:45 PM	30	2300	200	1828.9	935.1	307.6	2314		1828.9
15	7:45 PM	8:00 PM	15								

0.4804 830.59
0.2748 1189.7

int poir 1746.644 BPD
1669.6778 Psia

B. P. America Washington 33 State # 23 Step Rate Test 04-12-2007

