

DATE IN 6-9-10	SUSPENSE	ENGINEER T. W. W. W.	LOGGED IN 6-9-10	TYPE IPI	PTG W. 1016034314
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6-16-10

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



Enervest

Last of Reg. Info Rec.

16 wells

ADMINISTRATIVE APPLICATION CHECKLIST

W.L.H. UNIT

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]

IPI-377

[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.

Shirley Galik

Print or Type Name

Signature

Sr. Regulatory Tech

Title

Date

sgalik@enervest.net
 e-mail Address

1001 Fannin, Suite 800
Houston, TX 77002-6707
Phone: (713) 659-3500
Fax:

713.982.1530

EnerVest
Management
Partners, Ltd.

FAX TRANSMITTAL

To: Terry Warnell From: Shirley GALIC
Attn: _____ Pages: (including this transmittal page)
FAX: _____ Date: 6-9-10
Re: Pg 2 w/signature Adm. Appl. CKLst CC: Phone: 713.495.1514

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

COMMENTS:

Terry, (Pg 3).
Once the spreadsheet is Review, I'll
either call or return w/corrections.

6-11-10.
still waiting for
call

Shirley

6-16-10 okay via
email

If you do not receive all pages to this transmittal or if you have difficulty in reading any portion of the attached pages, please call 713-659-3500.

- ☐ The original of this fax will follow by regular mail.
☐ The original of this fax will follow by overnight delivery.
☐ The original of this fax will not be sent, unless requested by the recipient.

Warnell, Terry G, EMNRD

From: Galik, Shirley [SGalik@EnerVest.net]
Sent: Wednesday, June 16, 2010 7:27 AM
To: Warnell, Terry G, EMNRD
Subject: Step Rate test spreadsheet - App # 1016034314

Terry,

I confirmed all the information on the Step Rate test spreadsheet except for the SPI-5 and Grad columns. I did not know where on the tests this information was listed. Other than that, all was correct. Thank you. Shirley

-----Original Message-----

From: Warnell, Terry G, EMNRD [mailto:TerryG.Warnell@state.nm.us]
Sent: Wednesday, June 09, 2010 1:58 PM
Subject: Read: fax #

Your message

To: Warnell, Terry G, EMNRD
Cc:
Subject: fax #
Sent: Wed, 9 Jun 2010 12:11:42 -0600

was read on Wed, 9 Jun 2010 12:58:13 -0600

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.



ENERVEST OPERATING, L.L.C.

1001 Fannin Street, Suite 800

Houston, TX 77002-6708

Main No. (713) 659-3500 Fax No. (713) 659-5036

June 4, 2010

New Mexico Oil Conservation Division
Attention Mr. Terry Warnell
1220 South St. Francis Drive
Santa Fe, NM 87505

Dear Mr. Warnell,

Based on the enclosed Step-Rate Injection Tests conducted by Cardinal Survey Company, Enervest Operating LLC is requesting an increase in surface injection pressure (IPI) for the West Loco Hills Unit waterflood injectors, Order R-13128. The IPI increase will allow the well to take on more volume of water without fracturing the formation.

Also enclosed is the Administrative Application Checklist and the injection wells schematic.

I appreciate all your help and please do not hesitate to call me at 713.495.1514 if you have any questions.

Sincerely,

Shirley A. Galik

Enclosures



Cardinal Surveys Company

17-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 32

Field;

County: Eddy County, New Mexico

SC 59325

File No. 19860

Intercept @ 1,607.6 BPD, 2,239.0 BH PSIA & Surface Intercept @ 1,150 PSIA

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. 10213

Tool @ 2.670'

	Start	End	Rate
1	7:52 AM	8:45 AM	0 2.670'
2	8:45 AM	9:15 AM	100
3	9:15 AM	9:45 AM	200
4	9:45 AM	10:15 AM	300
5	10:15 AM	10:45 AM	400
6	10:45 AM	11:15 AM	600
7	11:15 AM	11:45 AM	900
8	11:45 AM	12:15 PM	1200
9	12:15 PM	12:30 PM	1500 Pump Truck Down
10	12:45 PM	1:15 PM	1500
11	1:15 PM	1:45 PM	2000
12	1:45 PM	2:10 PM	2500 Out of Water
13	2:10 PM	2:30 PM	Fall Off
14			
15			
16			
17			
18			

Step Rate Test
17-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 32

Field:

Location: Eddy County, New Mexico



	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	7:52 AM	8:45 AM	53	0	0	738.7	12.1	0	0	0		
2	8:45 AM	9:15 AM	30	100	100	816.1	19.4	3.5	3.5	168		
3	9:15 AM	9:45 AM	30	200	100	884.4	21.9	7.9	4.4	211		
4	9:45 AM	10:15 AM	30	300	100	986.5	27	14.4	6.5	312		
5	10:15 AM	10:45 AM	30	400	100	1100	18	22.8	8.4	403		
6	10:45 AM	11:15 AM	30	600	200	1302.1	173.2	35.4	12.6	605	1302.1	
7	11:15 AM	11:45 AM	30	900	300	1575.7	429.9	53.7	18.3	878	1575.7	
8	11:45 AM	12:15 PM	30	1200	300	1850.4	753.4	79.1	25.4	1219	1850.4	
9	12:15 PM	12:30 PM	15	0	0	1989.1	----			0		
9	12:45 PM	1:15 PM	30	1500	300	2158.7	1088.5	136.4	136.4	1507	2158.7	
10	1:15 PM	1:45 PM	30	2000	500	2302.4	1251.5	177.7	41.3	1982		2302.4
11	1:45 PM	2:10 PM	25	2500	500	2376.5	1388.7	213.2	35.5	2421		2376.5
12	2:10 PM	2:30 PM	20	0	0	2226.5	1082	0	0	0		
13												

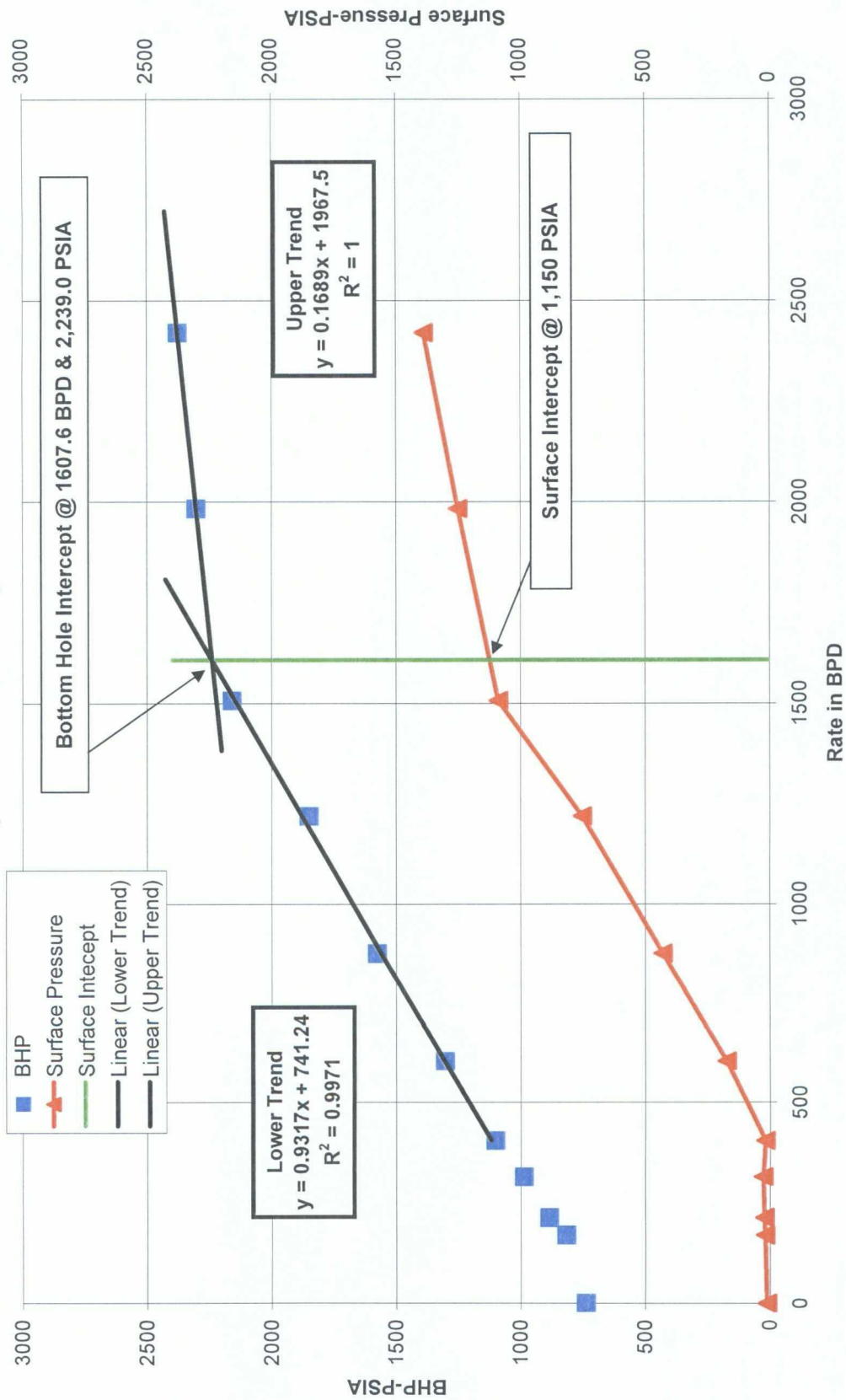
14 NOTE: PUMP TRUCK PROBLEMS DURING STEP NO. 9-- RESTART STEP 9

15

0.9317	741.2
0.1689	1967.5
1607.62979	BPD
2239.02867	PSIA

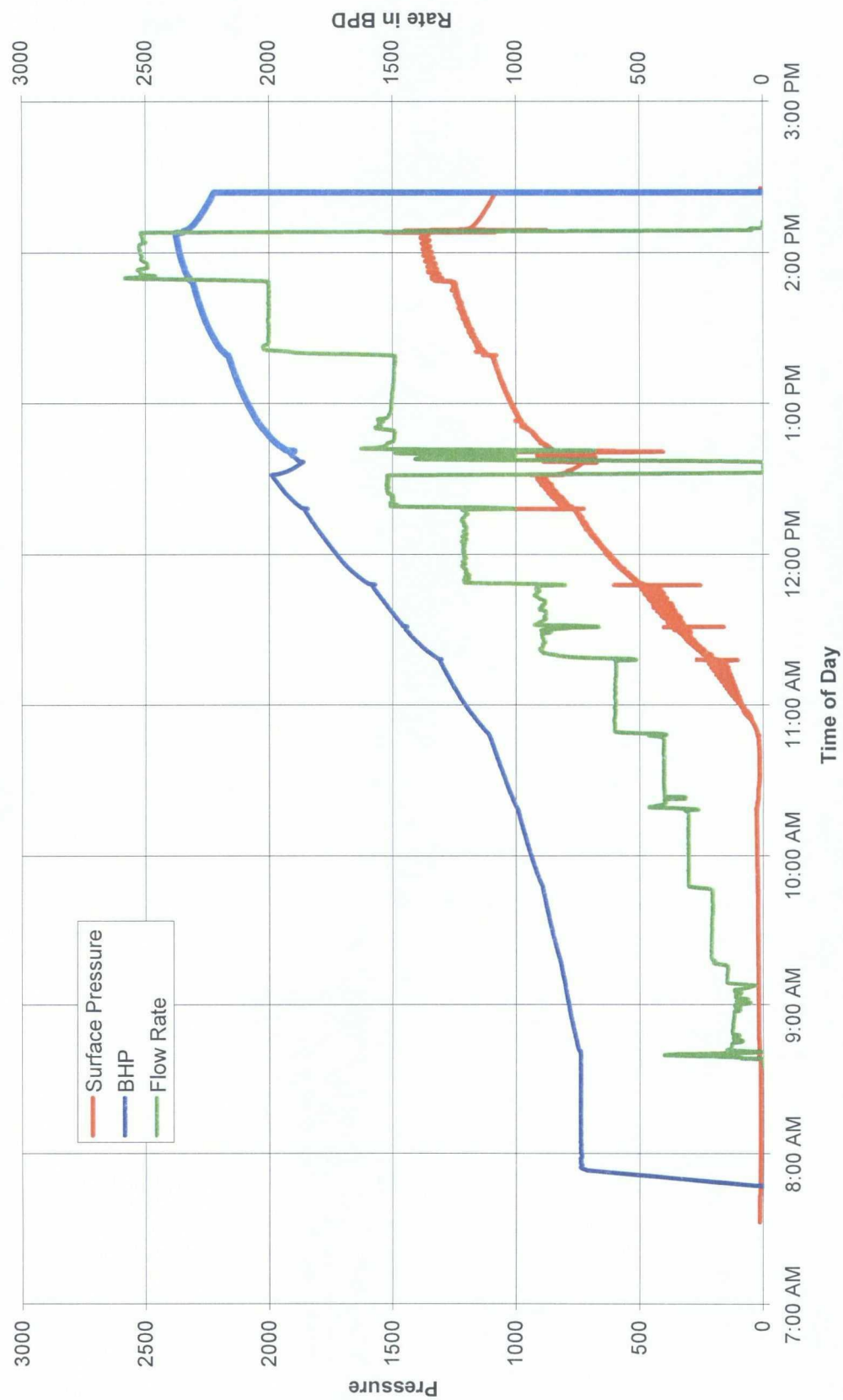


Enervest Operating LLC
W.L.H. Unit No. 32
Step Rate Chart 17-May-10





Enervest Operating LLC
W.L.H. Unit No. 32
Total Data Chart 17-May-10



WLHG4S #32
West Loco Field
Eddy County
30-015-36772

Current Wellbore Schematic

Ground Level 3,516'
KB 12
Spud Date 12/20/2009
Rig Release 12/27/09

Injector

12 1/4" Hole

TOC @ Surface

8 5/8" 24# J-55 Csg @ 395'
Cmt w/ 400 Sx to Surface

7 7/8" Hole

2 3/8 " 4.7# J-55 Tbg @ 2,616'PCID

G6 Packer @ 2,612 '

Perfs 2,659-2,686' (Total of 138 holes)

4 1/2" 10.5# J-55 Csg @ 2,809'
Cmt w/ 600 Sx to Surface

TD 2,820'
PBD 2,767'

Sonia Miranda
5/21/2010

Step Rate Test



Cardinal Surveys Company

19-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 33

Field;

County: Eddy County, New Mexico

SC 59327

File No. 19865

Intercept @ 3,159.8 BPD, 2,196.8 BH PSIA & Surface Intercept @ 1,256 PSIA

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. 10213

Tool @ 2630'

	Start	End	Rate
1	8:11 AM	8:30 AM	0 2.630'
2	8:30 AM	9:00 AM	100
3	9:00 AM	9:30 AM	200
4	9:30 AM	10:00 AM	300
5	10:00 AM	10:30 AM	400
6	10:30 AM	11:00 AM	600
7	11:00 AM	11:30 AM	900
8	11:30 AM	12:00 PM	1200
9	12:00 PM	12:30 PM	1500
10	12:30 PM	1:00 PM	2000
11	1:00 PM	1:30 PM	2500
12	1:30 PM	2:00 PM	3000
13	2:00 PM	2:30 PM	4000
14	2:30 PM	3:00 PM	5000
15	3:00 PM	3:30 PM	6000
16	3:30 PM	3:45 PM	0
17			
18			

Well: W.L.H. Unit No. 33

Location: Eddy County, New Mexico

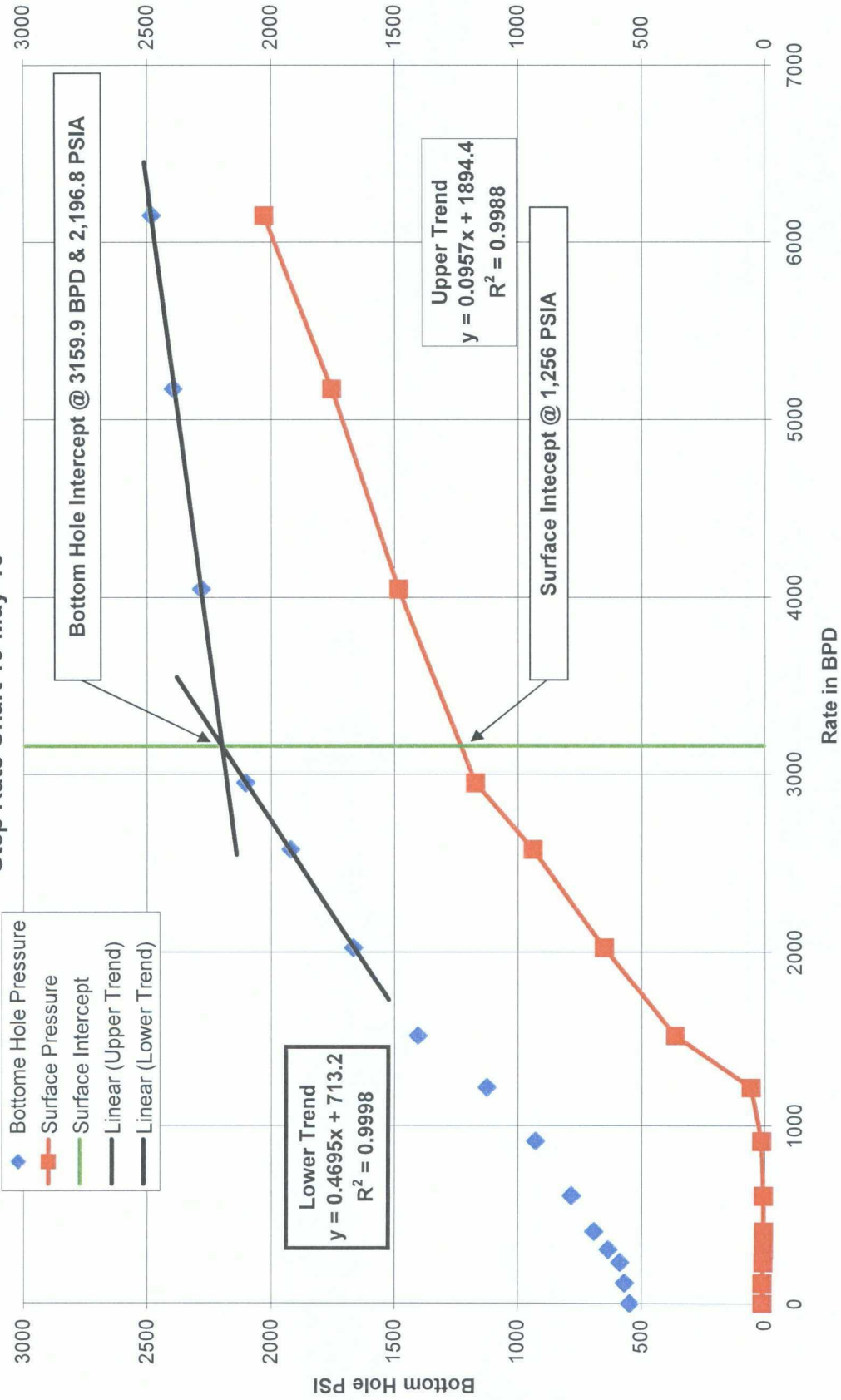
[illegible]



Enervest Operating LLC

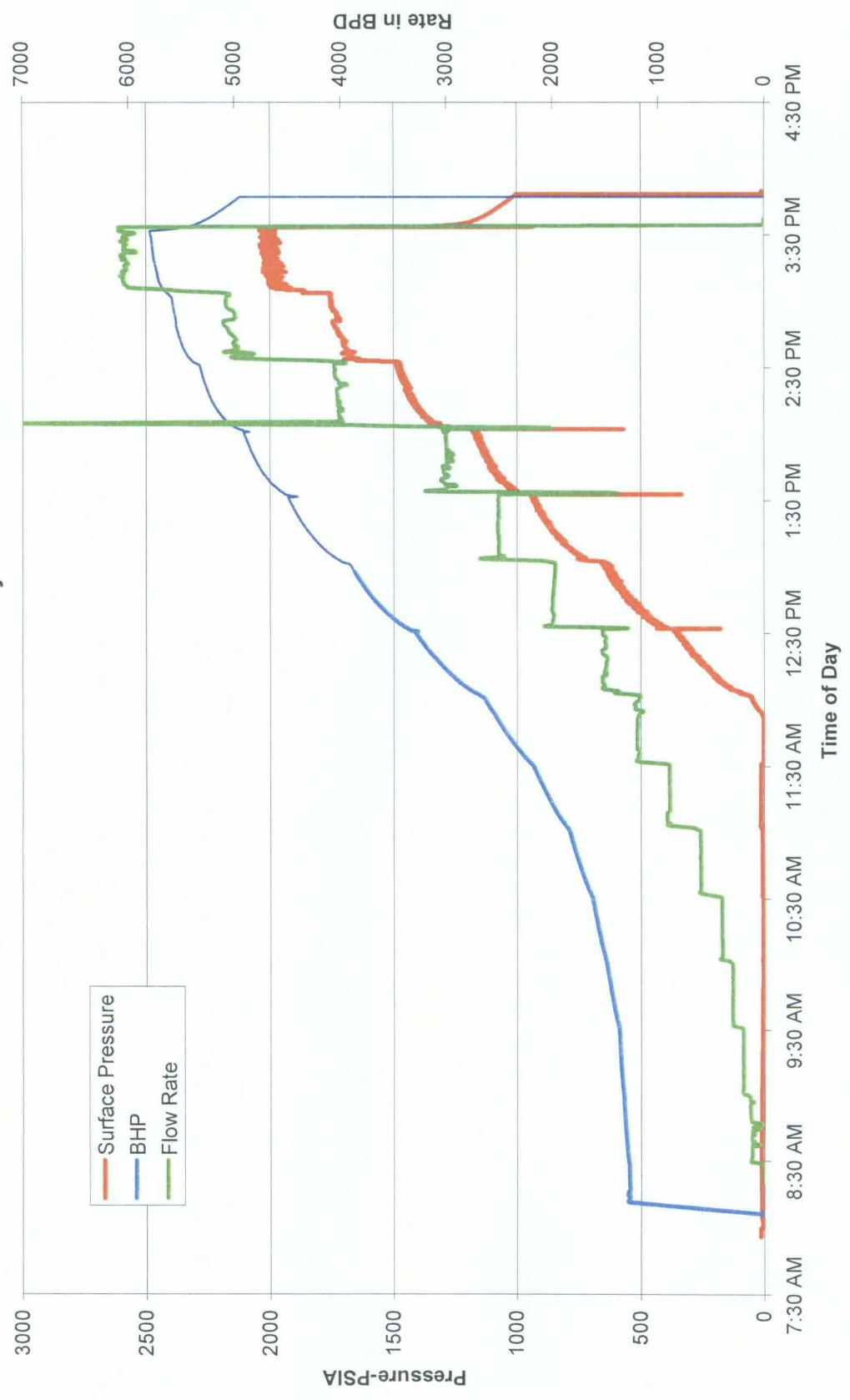
W.L.H. Unit No. 33

Step Rate Chart 19-May-10





Enervest Operating LLC
W.L.H. Unit No. 33
Total Data Chart 19-May-10



WLHG4S #33
West Loco Field
Eddy County
30-015-37019

Current Wellbore Schematic

Ground Level 3,514'
KB 12
Spud Date 1/6/10
Rig Release 1/11/10

Injector

12 1/4" Hole

TOC @ Surface

8 5/8" 24# J-55 Csg @ 390'
Cmt w/ 325 Sx to Surface

7 7/8" Hole

2 3/8 " 4.7# J-55 Tbg @ 2604'

G6 Packer @ 2,600 '

Perfs 2,614-2,640' (Total of 174 holes)

4 1/2" 10.5# J-55 Csg @ 2,784'
Cmt w/ 600 Sx to Surface

TD 2,795'
PBDT 2,767'

S. Miranda
6/7/2010



Cardinal Surveys Company

18-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 34

Field;

County: Eddy County, New Mexico

SC 59326

File No. 19861

Intercept @ 1624 BPD, 2,046.2 BH PSIA & Surface Intercept @ 920 PSIA

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. 10213

Tool @ 2,630'

	Start	End	Rate
1	8:11 AM	9:00 AM	0 2,630'
2	9:00 AM	9:30 AM	100
3	9:30 AM	10:00 AM	200
4	10:00 AM	10:30 AM	300
5	10:30 AM	11:00 AM	400
6	11:00 AM	11:30 AM	600
7	11:30 AM	12:00 PM	900
8	12:00 PM	12:30 PM	1200
9	12:30 PM	1:00 PM	1500
10	1:00 PM	1:30 PM	2000
11	1:30 PM	2:00 PM	2500
12	2:00 PM	2:30 PM	3000
13	2:30 PM	2:45 PM	Fall Off
14			
15			
16			
17			
18			

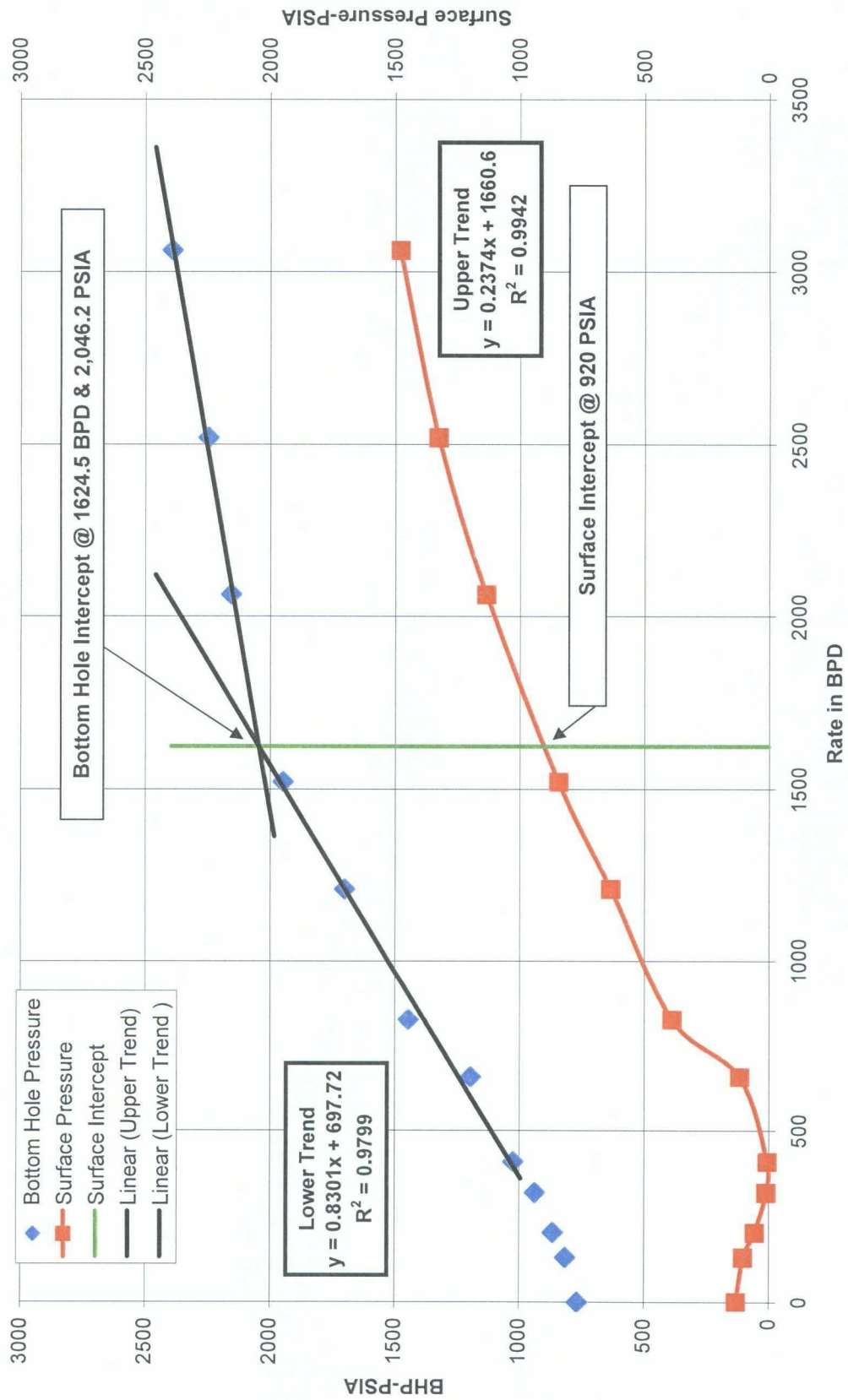
Well: W.L.H. Unit No. 34

Location: Eddy County, New Mexico

[illegible]

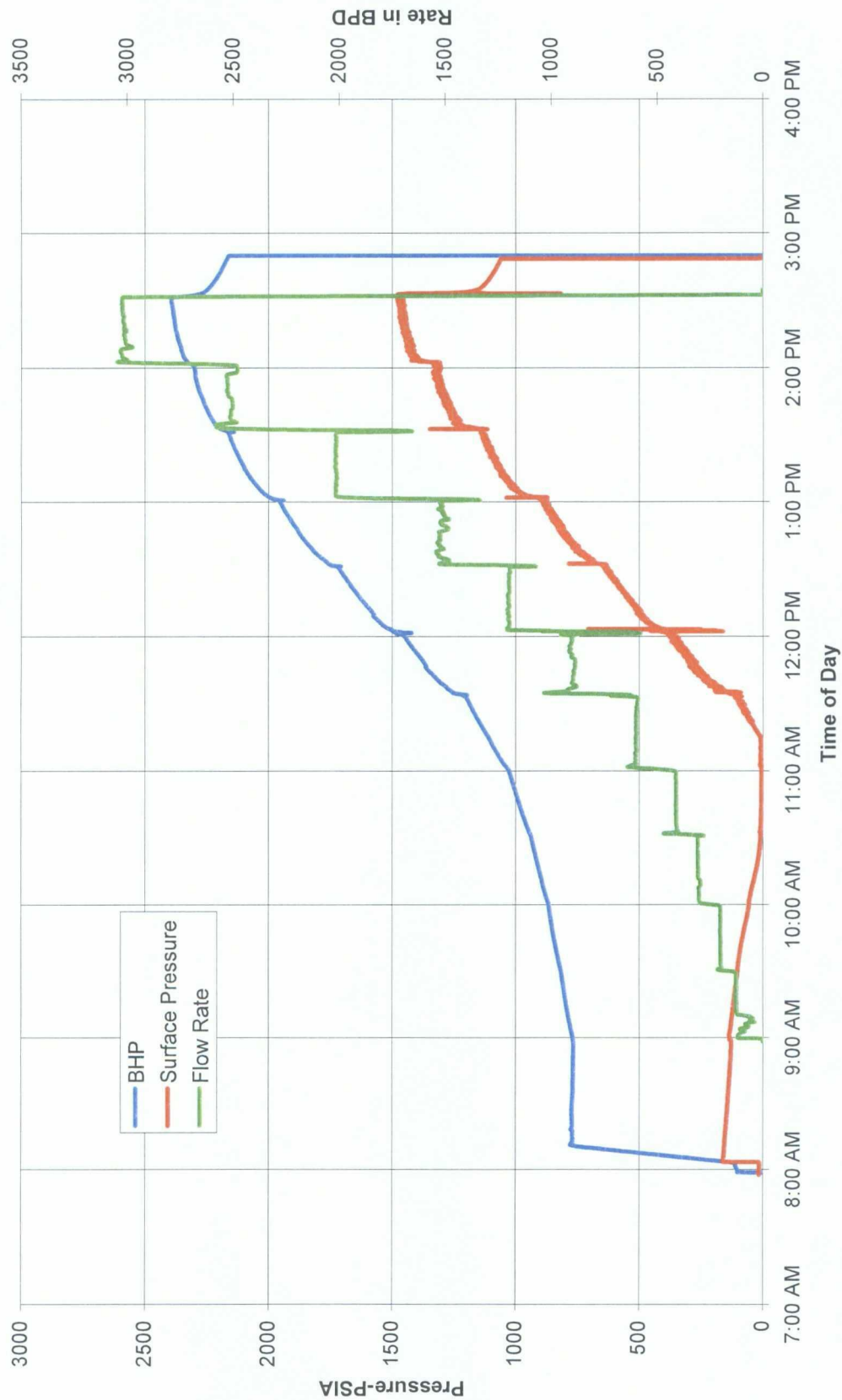


Enervest Operating LLC
W.L.H. Unit No. 34
Step Rate Chart 18-May-10





Enervest Operating LLC
W.L.H. Unit No. 34
Total Data Chart 18-May-10



WLHG4S #34
West Loco Field
Eddy County
30-015-37017

Current Wellbore Schematic

Ground Level 2755'
KB 12
Spud Date 1/27/10
Rig Release 2/10/10

Injector

12 1/4" Hole

TOC @ Surface

8 5/8" 24# J-55 Csg @ 382'
Cmt w/ 400 Sx to Surface

7 7/8" Hole

2 3/8 " 4.7# J-55 Tbg @ 2582'

G6 Packer @ 2,592 '

Perfs 2,626-2,645' (Total of 150 holes)

4 1/2" 10.5# J-55 Csg @ 2,745'
Cmt w/ 600 Sx to Surface

TD 2,755'
PBD 2,745'

S. Miranda
6/4/2010

Step Rate Test



Cardinal Surveys Company

14-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 35

Field;

County: Eddy County, New Mexico

SC 59324

File No. 19857

Intercept @ 375.6 BPD, 1,938.4 BH PSIA & Surface Intercept @ 784 PSIA

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. 10213

Tool @ 2,635'

	Start	End	Rate
1	7:23 AM	7:30 AM	0 2635'
2	7:30 AM	8:00 AM	100
3	8:00 AM	8:30 AM	200
4	8:30 AM	9:00 AM	300
5	9:00 AM	9:30 AM	400
6	9:30 AM	10:00 AM	600
7	10:00 AM	10:30 AM	900
8	10:30 AM	11:00 AM	30 Min Fall Off
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			

Step Rate Test
14-May-10

Enervest Operating LLC
Well: W.L.H. Unit No. 35
Field:
Location: Eddy County, New Mexico



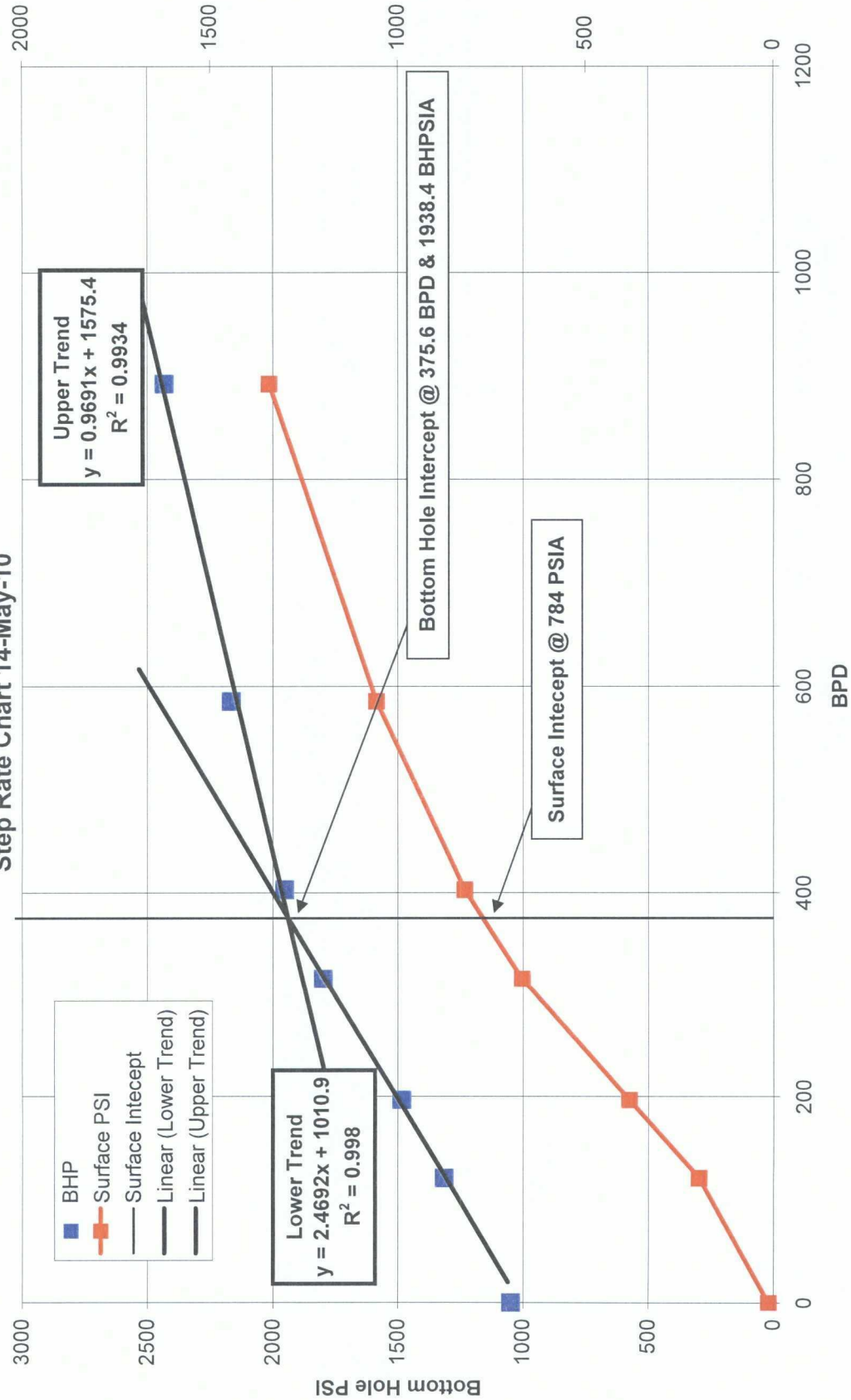
	S Time	E Time	D Time	Last Rate	Step	BHP	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1	7:23 AM	7:30 AM	7	0	0	1049.3	13.5	0	0	0		
2	7:30 AM	8:00 AM	30	100	100	1314.8	198.4	2.5	2.5	120	1314.8	
3	8:00 AM	8:30 AM	30	200	100	1484.3	384.5	6.6	4.1	197	1484.3	
4	8:30 AM	9:00 AM	30	300	100	1798	669.5	13.2	6.6	317	1798	
5	9:00 AM	9:30 AM	30	400	100	1952.1	822.8	21.6	8.4	403		1952.1
6	9:30 AM	10:00 AM	30	600	200	2165.3	1057.1	33.8	12.2	586		2165.3
7	10:00 AM	10:30 AM	30	900	300	2432.3	1342.7	52.4	18.6	893		2432.3
8	10:30 AM	11:00 AM	30	0	0	1970.1	843.4	0	0	0		

9
10
11
12
13
14
15

2.4692 1010.9
0.9691 1574.4
intersect 375.641624 BPD
BHP PSI 1938.4343 PSIA



Enervest Operating LLC
W.L.H. Unit No. 35
Step Rate Chart 14-May-10

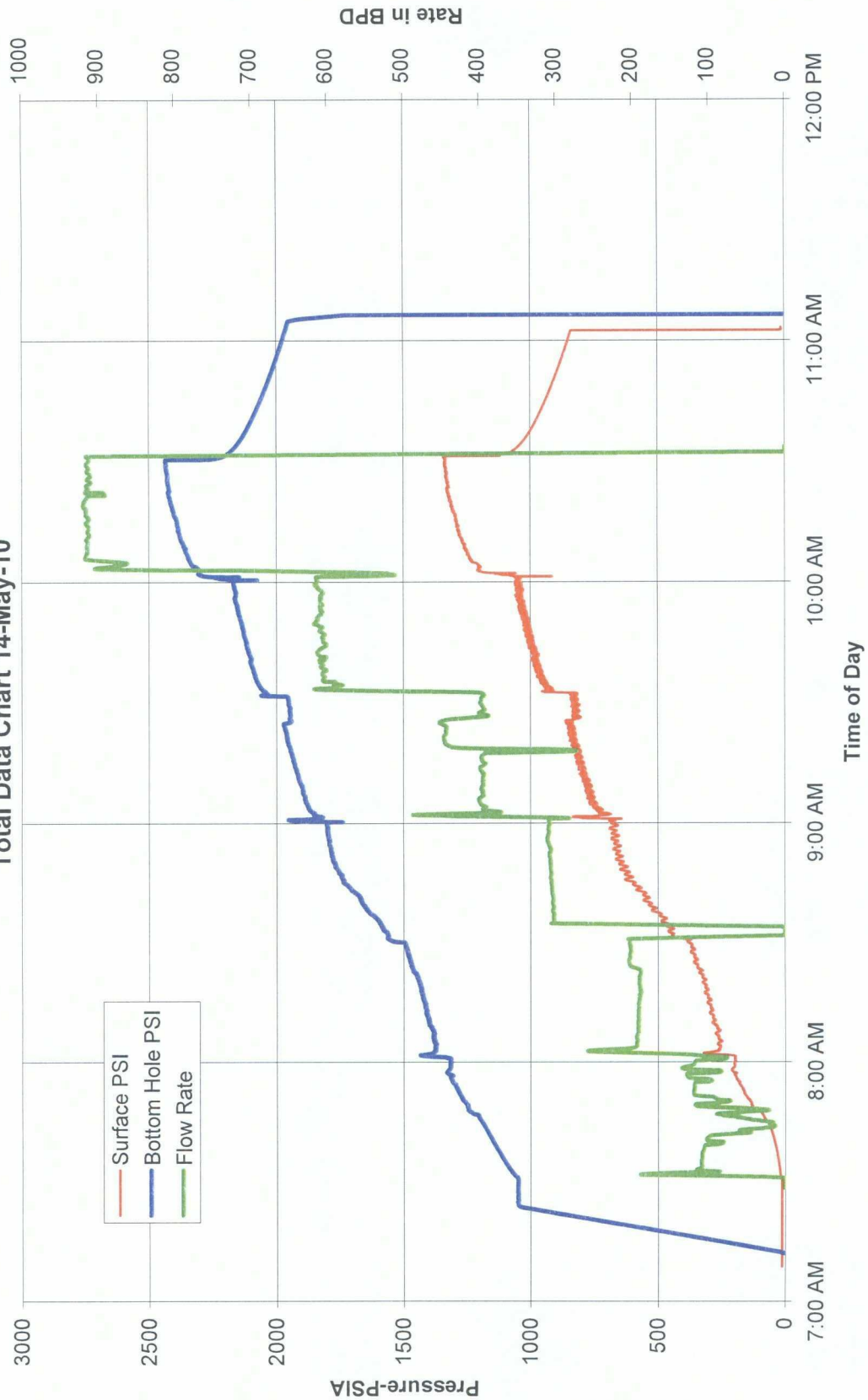




Enervest Operating LLC

W.L.H. Unit No. 35

Total Data Chart 14-May-10



WLHG4S #35
West Loco Field
Eddy County
30-015-36771

Current Wellbore Schematic

Ground Level 3,511'
KB 12
Spud Date 12/28/2009
Rig Release 1/03/10

Injector

12 1/4" Hole

TOC @ Surface

8 5/8" 24# J-55 Csg @ 381'
Cmt w/ 275 Sx to Surface

7 7/8" Hole

2 3/8 " 4.7# J-55 Tbg @ 2,609'PCID

G6 Packer @ 2,606 '

Perfs 2,630-2,646' (Total of 102 holes)

4 1/2" 10.5# J-55 Csg @ 2,810'
Cmt w/ 600 Sx to Surface

TD 2,820'
PBD 2,765'

Sonia Miranda
5/25/2010

Step Rate Test



Cardinal Surveys Company

13-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 37

Field;

County: Eddy County, New Mexico

SC 59323

File No. 19856

Intercept @ 3856 BPD, 2,583.5 BH PSIA & Surface Intercept @ 1,754 PSIA

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. 10213

Tool @ 2,650'

	Start	End	Rate
1	1:37 PM	1:45 PM	0 2,650'
2	1:45 PM	2:15 PM	100
3	2:15 PM	2:45 PM	200
4	2:45 PM	3:15 PM	300
5	3:15 PM	3:45 PM	400
6	3:45 PM	4:15 PM	600
7	4:15 PM	4:45 PM	900
8	4:45 PM	5:15 PM	1200
9	5:15 PM	5:45 PM	1500
10	5:45 PM	6:15 PM	2000
11	6:15 PM	6:45 PM	2500
12	6:45 PM	7:15 PM	3000
13	7:15 PM	7:45 PM	4000
14	7:45 PM	8:15 PM	5000
15	8:15 PM	8:45 PM	5700
16	8:45 PM	9:00 PM	0
17			
18			

Step Rate Test
13-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 37

Field:

Location: Eddy County, New Mexico



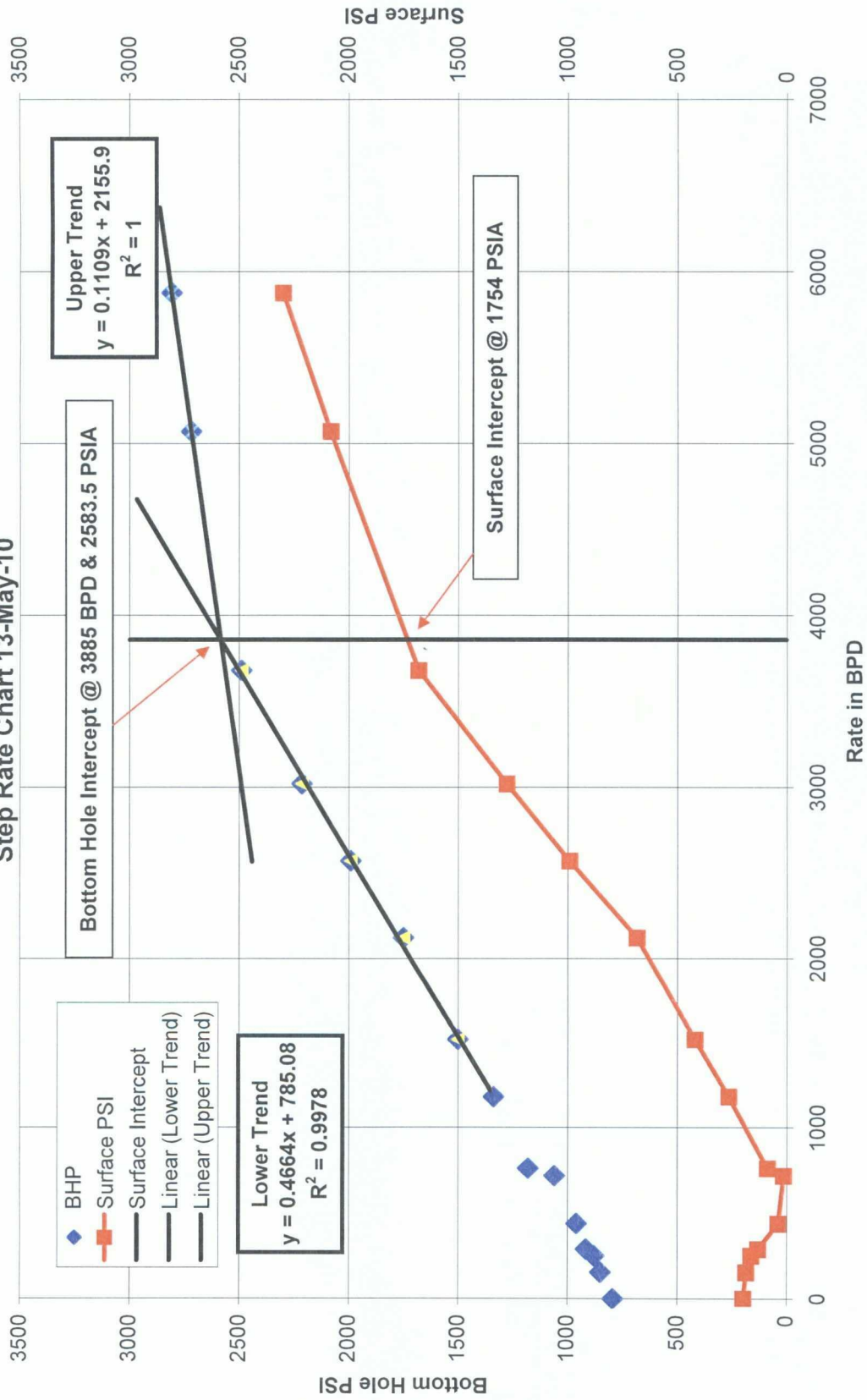
	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	BHP		Surf PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
						PSIA	PSIA						
1	1:37 PM	1:45 PM	8	0	0	794.6	197.7	0	0	0			
2	1:45 PM	2:15 PM	30	100	100	851.3	185.1	3.2	3.2	154			
3	2:15 PM	2:45 PM	30	200	100	879.2	161.4	8.4	5.2	250			
4	2:45 PM	3:15 PM	30	300	100	916.4	131.2	14.4	6	288			
5	3:15 PM	3:45 PM	30	400	100	959.6	39.4	23.5	9.1	437			
6	3:45 PM	4:15 PM	30	600	200	1060.1	14.3	38.4	14.9	715			
7	4:15 PM	4:45 PM	30	900	300	1180.7	87.8	54.2	15.8	758			
8	4:45 PM	5:15 PM	30	1200	300	1338.5	263.7	78.8	24.6	1181			
9	5:15 PM	5:45 PM	30	1500	300	1500.9	419.4	110.4	31.6	1517	1500.9		
10	5:45 PM	6:15 PM	30	2000	500	1749.8	684.1	154.6	44.2	2122	1749.8		
11	6:15 PM	6:45 PM	30	2500	500	1990.3	991.5	208.2	53.6	2573	1990.3		
12	6:45 PM	7:15 PM	30	3000	500	2214.8	1278.4	271.1	62.9	3019	2214.8		
13	7:15 PM	7:45 PM	30	4000	1000	2489	1681	347.7	76.6	3677	2489		
14	7:45 PM	8:15 PM	30	5000	1000	2717.8	2082.9	453.3	105.6	5069		2717.8	
15	8:15 PM	8:45 PM	30	5700	700	2807.2	2299.9	575.7	122.4	5875		2807.2	
16	8:45 PM	9:00 PM	15	0	0	2209.4	1064.4						

Unable to go three points after parting pressure due to pump truck limitations

0.4664	785.08
0.1109	2155.9
Intersect	3856.03376 BPD
BHP PSI	2583.53414 PSIA



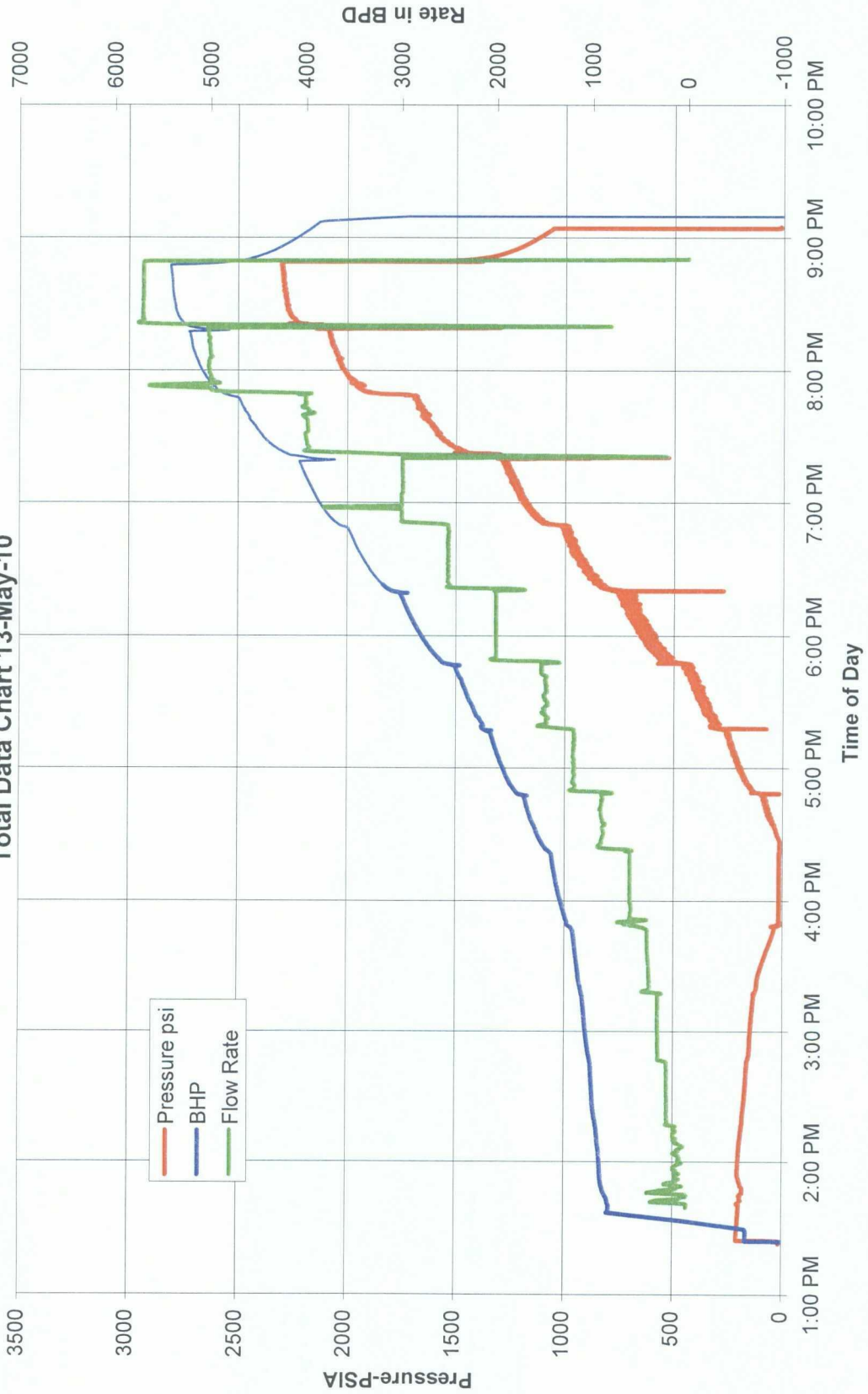
Enervest Operating LLC
W.L.H. Unit No. 37
Step Rate Chart 13-May-10





Enervest Operating LLC
W.L.H. Unit No. 37

Total Data Chart 13-May-10



WLHG4S #37
West Loco Field
Eddy County
30-015-37021

Current Wellbore Schematic

Ground Level 3,510'
KB 13
Spud Date 11/23/2009
Rig Release 12/02/09

Injector

12 1/4" Hole

TOC @ Surface

8 5/8" 24# J-55 Csg @ 429'
Cmt w/ 400 Sx to Surface

7 7/8" Hole

2 3/8 " 4.7# J-55 Tbg @ 2,650'PCID

G6 Packer @ 2,645 '

Perfs 2,670-2,696' (Total of 120 holes)

4 1/2" 10.5# J-55 Csg @ 2,785'
Cmt w/ 600 Sx to Surface'

TD 2,795'
PBD 2,742'

Sonia Miranda
5/24/2010

Step Rate Test



Cardinal Surveys Company

13-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 38

Field;

Courty: Eddy County, New Mexico

59322

File No. 19853

Intercept @ 994 BPD, 2,657 BH PSIA & Surface Intercept @ 1,516 PSIA

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. 10213

Tool @ 2600'

	Start	End	Rate
1	7:19 AM	7:30 AM	0 2,600'
2	7:30 AM	8:00 AM	100
3	8:00 AM	8:30 AM	200
4	8:30 AM	9:00 AM	300
5	9:00 AM	9:30 AM	400
6	9:30 AM	10:00 AM	600
7	10:00 AM	10:30 AM	900
8	10:30 AM	11:00 AM	1200
9	11:00 AM	11:30 AM	1500
10	11:30 AM	12:00 PM	2000
11	12:00 PM	12:30 PM	2500
12	12:30 PM	12:45 PM	0 15 Min. Fall Off
13			
14			
15			
16			
17			
18			

Step Rate Test
13-May-10

Enervest Operating LLC
Well: W.L.H. Unit No. 38
Field:
Location: Eddy County, New Mexico



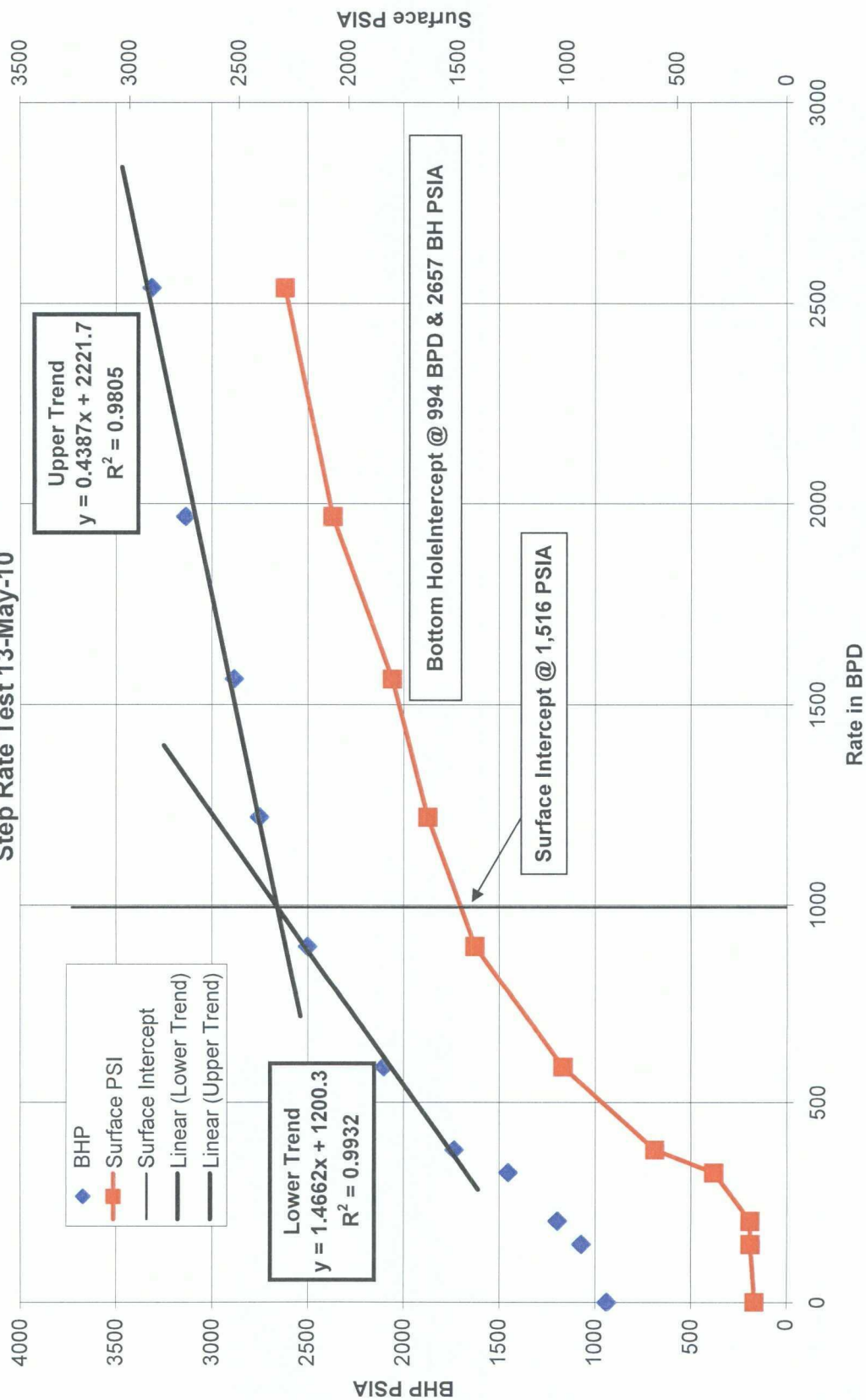
	S Time	E Time	D Time	Last Rate	Step	BHP	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1	7:19 AM	7:30 AM	11	0	0	939	148.1	0	0	0		
2	7:30 AM	8:00 AM	30	100	100	1072.2	166	3	3	144		
3	8:00 AM	8:30 AM	30	200	100	1196.3	168.2	7.2	4.2	202		
4	8:30 AM	9:00 AM	30	300	100	1453.2	334.5	13.9	6.7	322		
5	9:00 AM	9:30 AM	30	400	100	1734.8	602.7	21.8	7.9	379	1734.8	
6	9:30 AM	10:00 AM	30	600	200	2102.3	1021.6	34.1	12.3	590	2102.3	
7	10:00 AM	10:30 AM	30	900	300	2501.6	1422.6	52.8	18.7	898	2501.6	
8	10:30 AM	11:00 AM	30	1200	300	2751.9	1638.4	78.2	25.4	1219		2751.9
9	11:00 AM	11:30 AM	30	1500	300	2884.5	1801.8	110.8	32.6	1565		2884.5
10	11:30 AM	12:00 PM	30	2000	500	3136	2071.6	151.8	41	1968		3136
11	12:00 PM	12:30 PM	30	2500	500	3312.8	2290.1	204.7	52.9	2539		3312.8
12	12:30 PM	12:45 PM	15	0	0	2520.8	1373					

1.4662 1200.3
0.4387 2221.7
Intersect 994.06326 BPD
BHP PSI 2657.79555 PSIA

13
14
15



Enervest Operating LLC
W.L.H. Unit No. 38
Step Rate Test 13-May-10

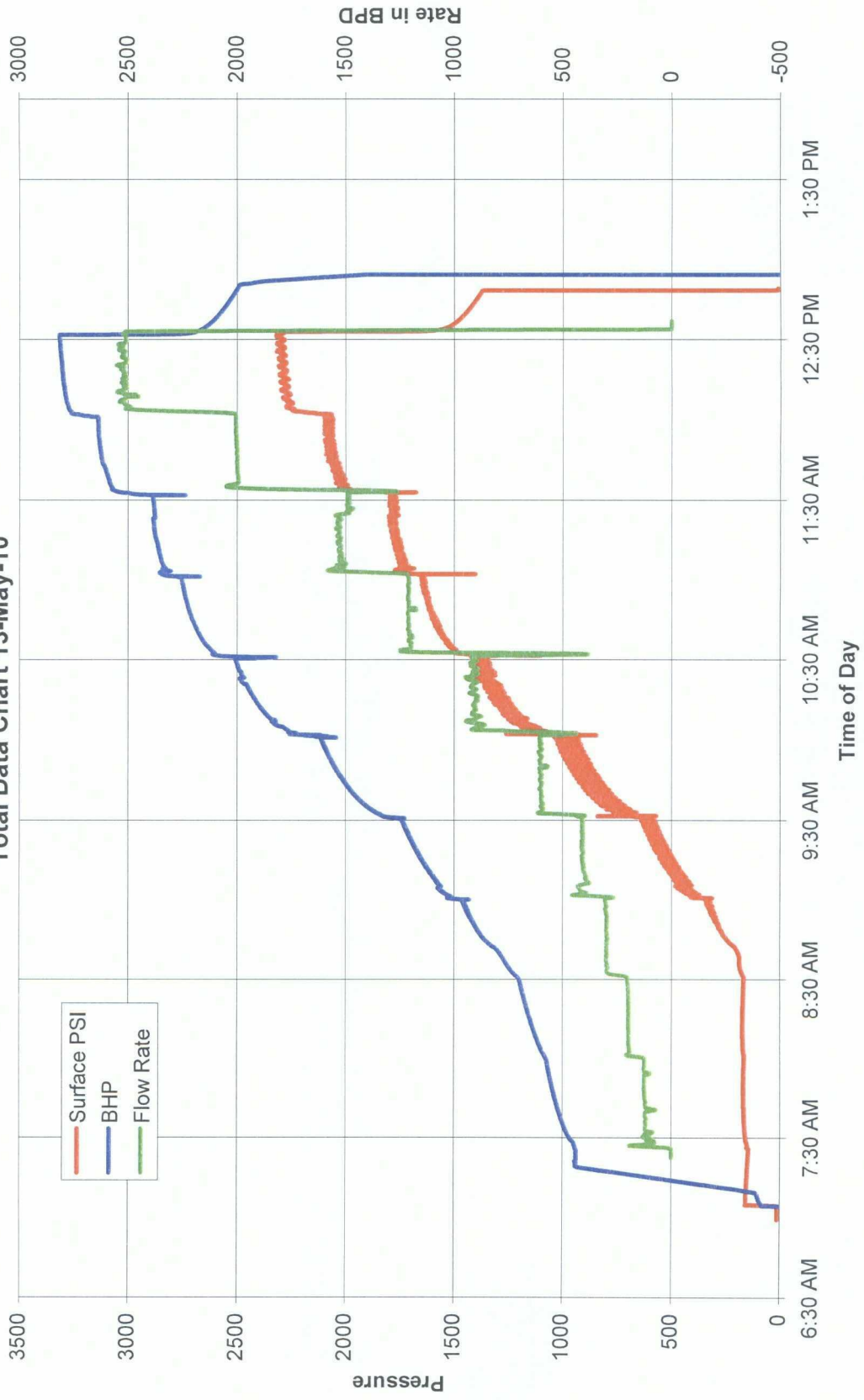




Enervest Operating LLC

W.L.H. Unit No. 38

Total Data Chart 13-May-10



WLHG4S #38
West Loco Field
Eddy County
30-015-37022

Current Wellbore Schematic

Ground Level 3,490'
KB 13
Spud Date 11/16/2009
Rig Release 11/23/09

Injector

12 1/4" Hole

TOC @ Surface

8 5/8" 24# J-55 Csg @ 428'
Cmt w/ 400 Sx to Surface

7 7/8" Hole

2 3/8 " 4.7# J-55 Tbg @ 2,623'PCID

G6 Packer @ 2,620'

Perfs 2,654-2,672' (Total of 120 holes)

4 1/2" 10.5# J-55 Csg @ 2,748'
Cmt w/ 700 Sx to Surface

TD 2,758'
PBDT 2,705'

Sonia Miranda
4/15/2010

Step Rate Test



Cardinal Surveys Company

24-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 39

Field;

County: Eddy County, New Mexico

SC 59330

File No. 19875

Intercept @ 1,937.8 BPD, 2.095.6 BH PSIA & Surface Intercept @ 1,046 PSIA

Downhole PSI Tool Ser. No. CSC2601
Surface PSI Gauge Ser. No. 10213
Tool @ 2,690'

	Start	End	Rate
1	7:37 AM	8:15 AM	0 2,690'
2	8:15 AM	8:45 AM	100
3	8:45 AM	9:15 AM	200
4	9:15 AM	9:45 AM	300
5	9:45 AM	10:15 AM	400
6	10:15 AM	10:45 AM	600
7	10:45 AM	11:15 AM	900
8	11:15 AM	11:45 AM	1200
9	11:45 AM	12:15 PM	1500
10	12:15 PM	12:45 PM	2000
11	12:45 PM	1:15 PM	2500
12	1:15 PM	1:45 PM	3000
13	1:45 PM	2:00 PM	Fall Off
14			
15			
16			
17			
18			

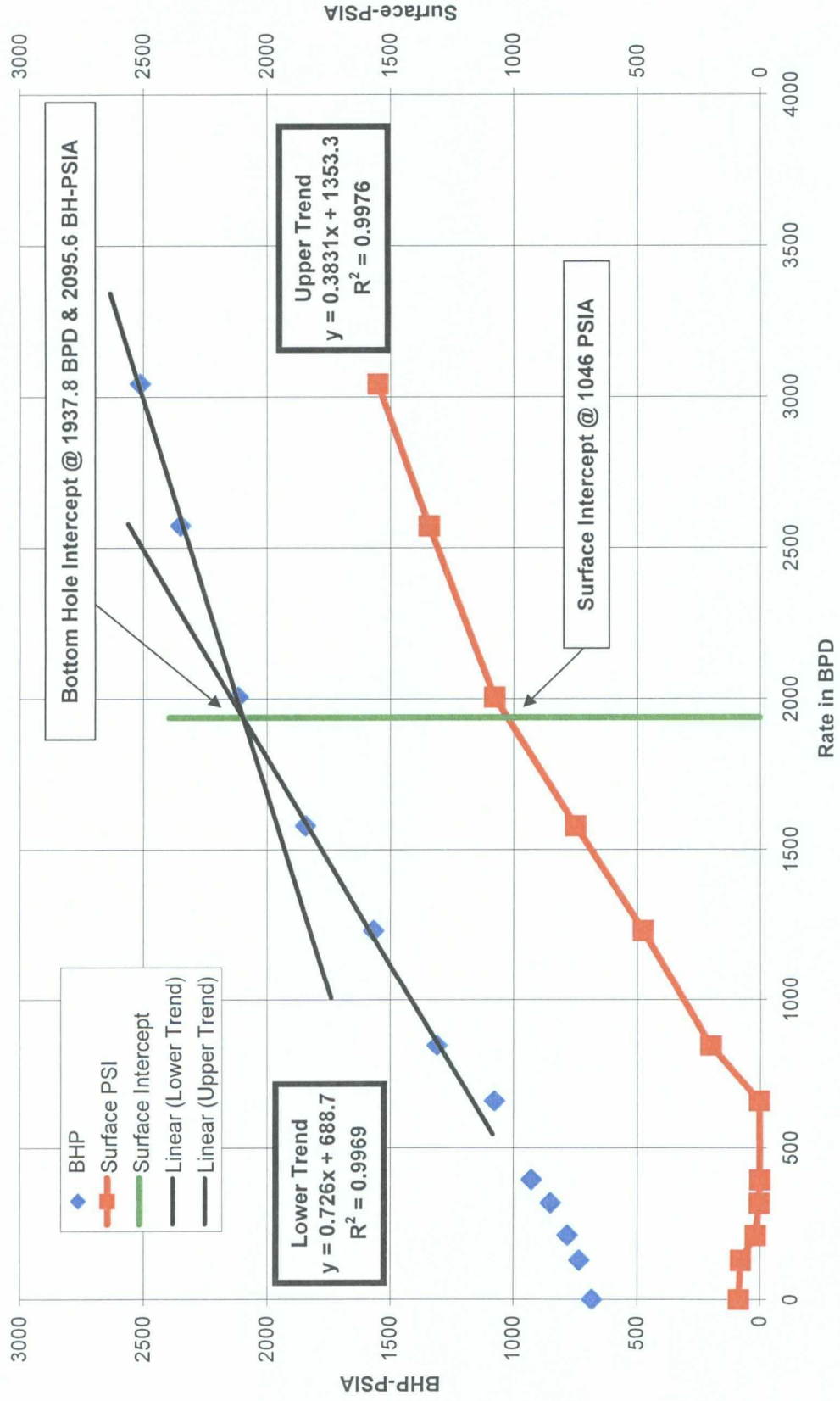
**Step Rate Test
25-May-10**

Enervest Operating LLC
Well: W.L.H. Unit No. 39
Field:
Location: Eddy County, New Mexico

[illegible]

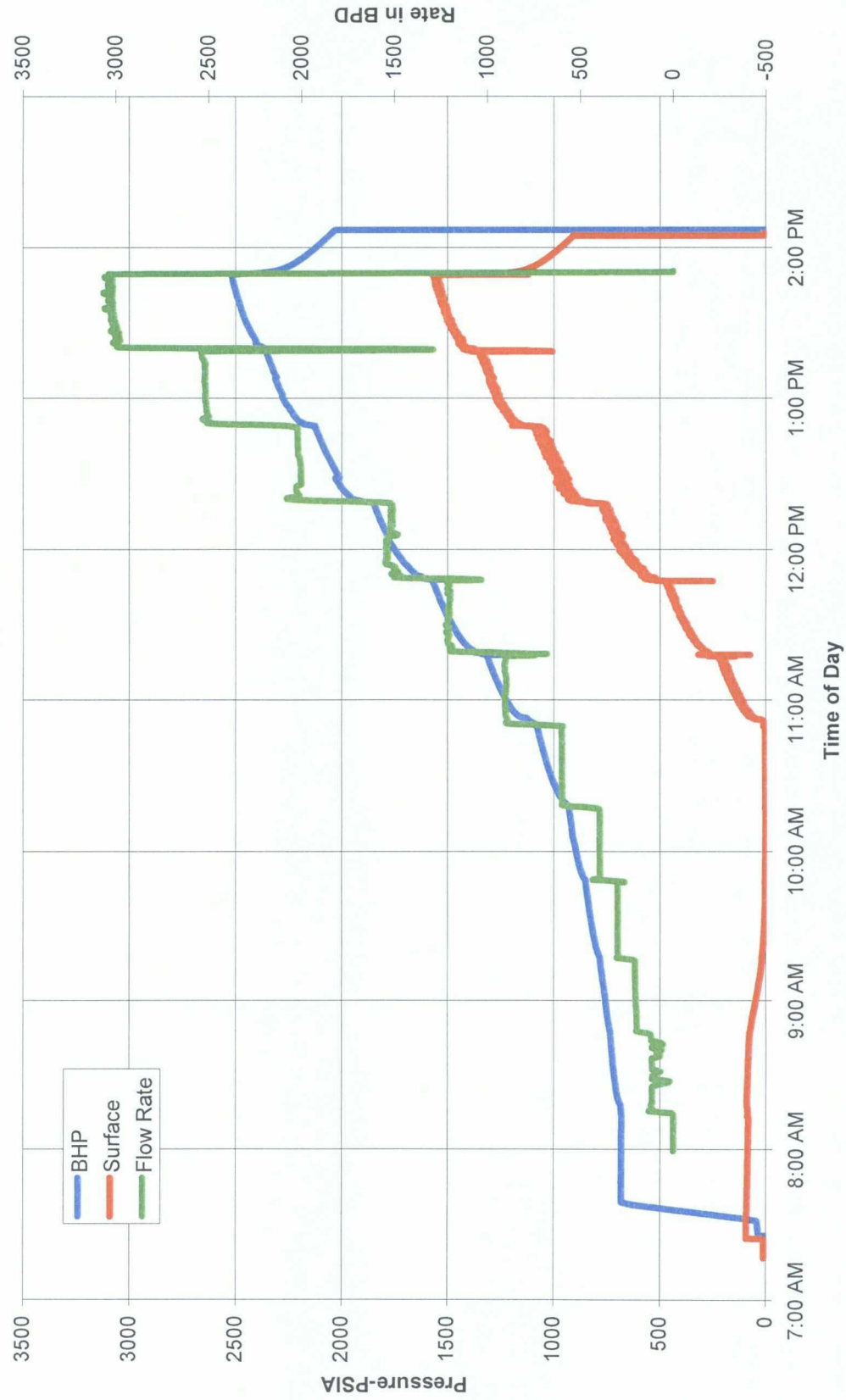


Enervest Operating LLC
WLH Unit No. 39
Step Rate Chart 24-May-10





Enervest Operating LLC
WLH Unit No. 39
Total Data Chart 24-May-10



WLHG4S #39
West Loco Field
Eddy County
30-015-36769

Current Wellbore Schematic

Ground Level 3,516'
KB 12
Spud Date 12/19/2009
Rig Release 12/25/09

Injector

12 1/4" Hole

TOC @ Surface

8 5/8" 23# LS Csg @ 395'
Cmt w/ 400 Sx to Surface

7 7/8" Hole

2 3/8 " 4.7# J-55 Tbg @ 2,659'PCID

G6 Packer @ 2,655 '

Perfs 2,684-2,714' (Total of 186 holes)

4 1/2" 10.5# J-55 Csg @ 2,811'
Cmt w/ 600 Sx to Surface'

TD 2,825'
PBD 2,786'

Sonia Miranda
5/24/2010

Step Rate Test



Cardinal Surveys Company

12-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 41

Field;

County: Eddy County, New Mexico

SC 59321

File No. 19854

Intercept @ 1686.6 BPD, 2,186.7 BH PSIA & Surface Intercept @ 1,070 PSIA

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. 10213

Tool @ 2,690'

	Start	End	Rate
1	7:19 AM	7:30 AM	0 2,690'
2	7:30 AM	8:00 AM	100
3	8:00 AM	8:30 AM	200
4	8:30 AM	9:00 AM	300
5	9:00 AM	9:30 AM	400
6	9:30 AM	10:00 AM	600
7	10:00 AM	10:30 AM	900
8	10:30 AM	11:00 AM	1200
9	11:00 AM	11:30 AM	1500
10	11:30 AM	12:00 PM	2000
11	12:00 PM	12:30 PM	2500
12	12:30 PM	1:00 PM	3000
13	1:00 PM	1:15 PM	15 Minute Fall Off
14			
15			
16			
17			
18			

Step Rate Test
12-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 41

Field:

Location: Eddy County, New Mexico

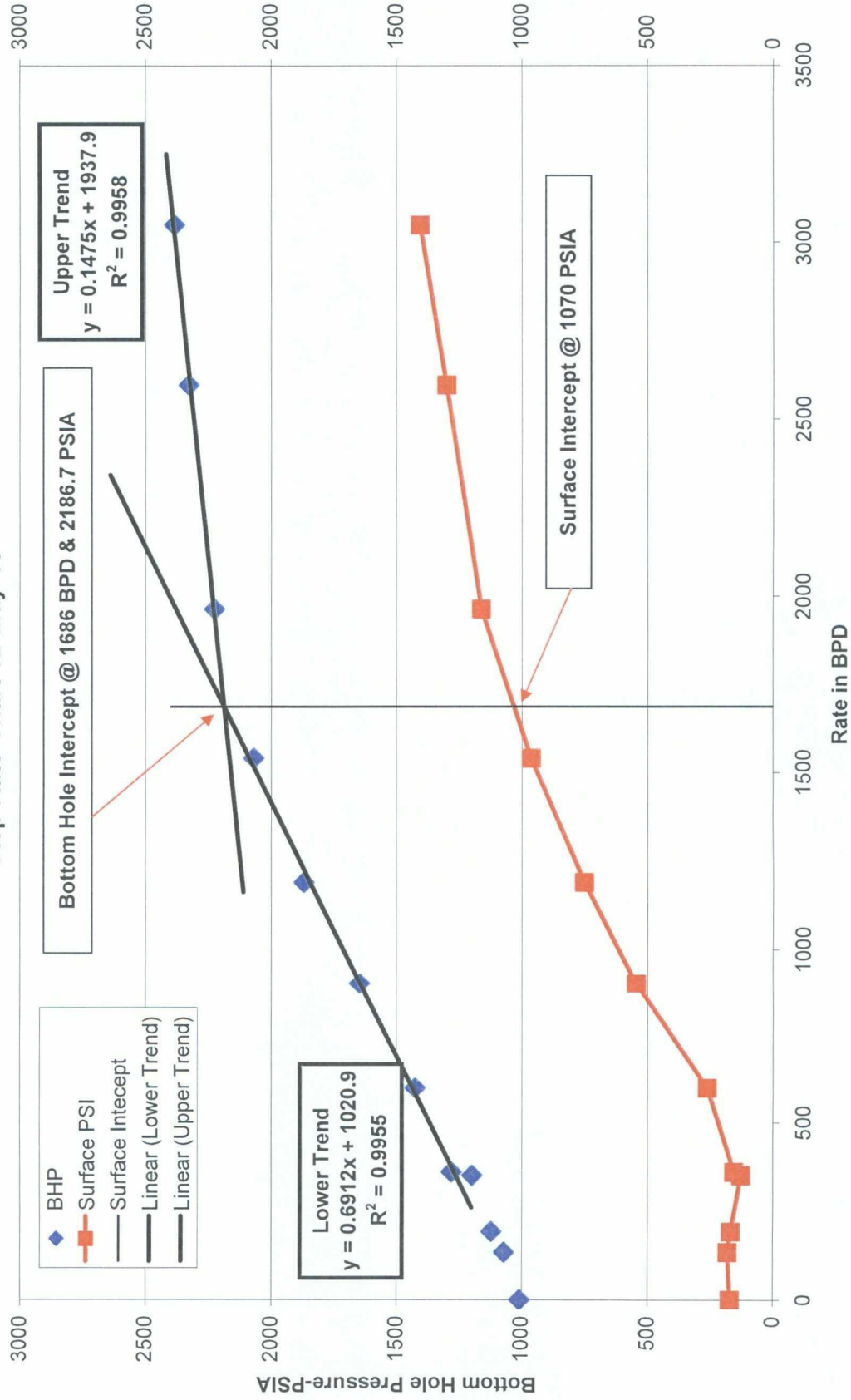


	S Time	E Time	D Time	Last Rate	Step	BHP	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1	7:19 AM	7:30 AM	11	0	0	1009.2	171.5	0	0	0		
2	7:30 AM	8:00 AM	30	100	100	1070.3	181	2.8	2.8	134		
3	8:00 AM	8:30 AM	30	200	100	1121.7	168.6	6.8	4	192		
4	8:30 AM	9:00 AM	30	300	100	1197.6	127	14.1	7.3	350		
5	9:00 AM	9:30 AM	30	400	100	1280.3	155	21.6	7.5	360		
6	9:30 AM	10:00 AM	30	600	200	1424.7	261.2	34.1	12.5	600	1424.7	
7	10:00 AM	10:30 AM	30	900	300	1646.8	544.9	52.9	18.8	902	1646.8	
8	10:30 AM	11:00 AM	30	1200	300	1869	751	77.7	24.8	1190	1869	
9	11:00 AM	11:30 AM	30	1500	300	2069.3	963.7	109.8	32.1	1541	2069.3	
10	11:30 AM	12:00 PM	30	2000	500	2225	1162.1	150.7	40.9	1963		2225
11	12:00 PM	12:30 PM	30	2500	500	2327	1300.4	204.8	54.1	2597		2327
12	12:30 PM	1:00 PM	30	3000	500	2384	1405.8	268.3	63.5	3048		2384
13	1:00 PM	1:15 PM	15			2300.5	1141.1	0				

0.6912 1020.9
0.1475 1937.9
intersect 1686.59187 BPD
BHP PSI 2186.6723 PSIA



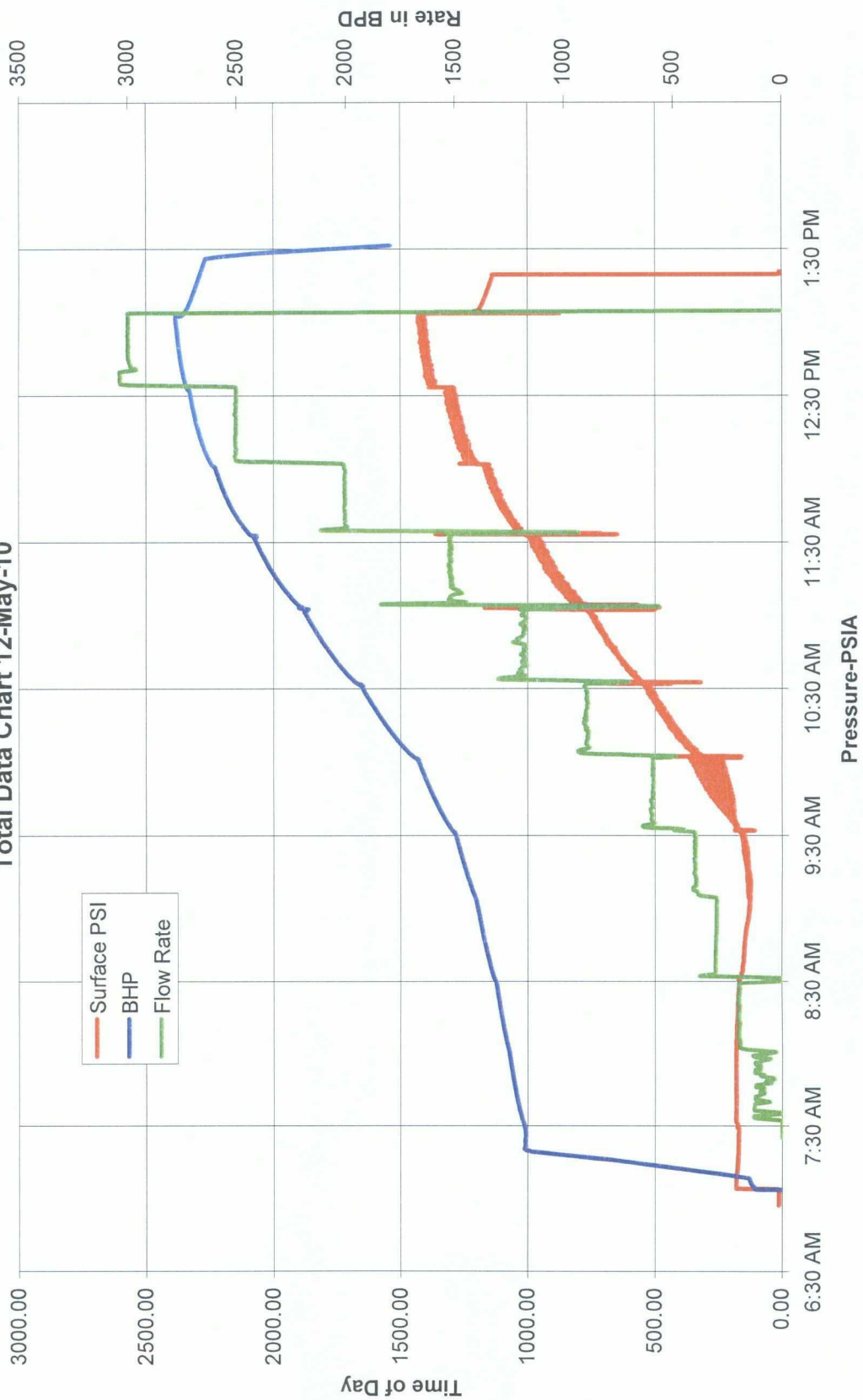
Enervest Operating LLC
W.L.H. Unit No. 41
Step Rate Chart 12-May-10





Enervest Operating LLC
W.L.H. Unit No. 41

Total Data Chart 12-May-10



WLHG4S #41
West Loco Field
Eddy County
30-015-37023

Current Wellbore Schematic

Ground Level 3,510'
KB 12
Spud Date 11/01/2009
Rig Release 11/08/09

Injector

12 1/4" Hole

TOC @ Surface

8 5/8" 24# J-55 Csg @ 419'
Cmt w/ 425 Sx to Surface

7 7/8" Hole

2 3/8 " 4.7# J-55 Tbg @ 2,642'PCID

G6 Packer @ 2,637'

Perfs 2,680-2,702' (Total of 138 holes)

4 1/2" 10.5# J-55 Csg @ 2,786'
Cmt w/ 700 Sx to Surface
Top out - Cmt w/100 Sx to Surface

TD 2,800'
PBD 2,743'

Sonia Miranda
4/15/2010

Step Rate Test



Cardinal Surveys Company

11-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 42

Field;

County: Eddy County, New Mexico

59320

File No. 19853

Intercept @ 1201 BPD, 2101 BH PSIA & Surface Intercept @ 854 PSIA

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. 10213

Tool @ 2,670'

	Start	End	Rate
1	7:26 AM	7:45 AM	0 2,670'
2	7:45 AM	8:15 AM	100
3	8:15 AM	8:45 AM	200
4	8:45 AM	9:15 AM	300
5	9:15 AM	9:45 AM	400
6	9:45 AM	10:15 AM	600
7	10:15 AM	10:45 AM	900
8	10:45 AM	11:15 AM	1200
9	11:15 AM	11:45 AM	1500
10	11:45 AM	12:00 PM	2000
11	12:00 PM	12:30 PM	RAN OUT OF WATER
12	12:30 PM	1:00 PM	2000
13	1:00 PM	1:30 PM	2500
14	1:30 PM	1:50 PM	3000
15	1:50 PM	2:15 PM	FALL OFF
16			
17			
18			

Step Rate Test
11-May-10

Enervest Operating LLC
Well: W.L.H. Unit No. 42
Field:
Location: Eddy County, New Mexico



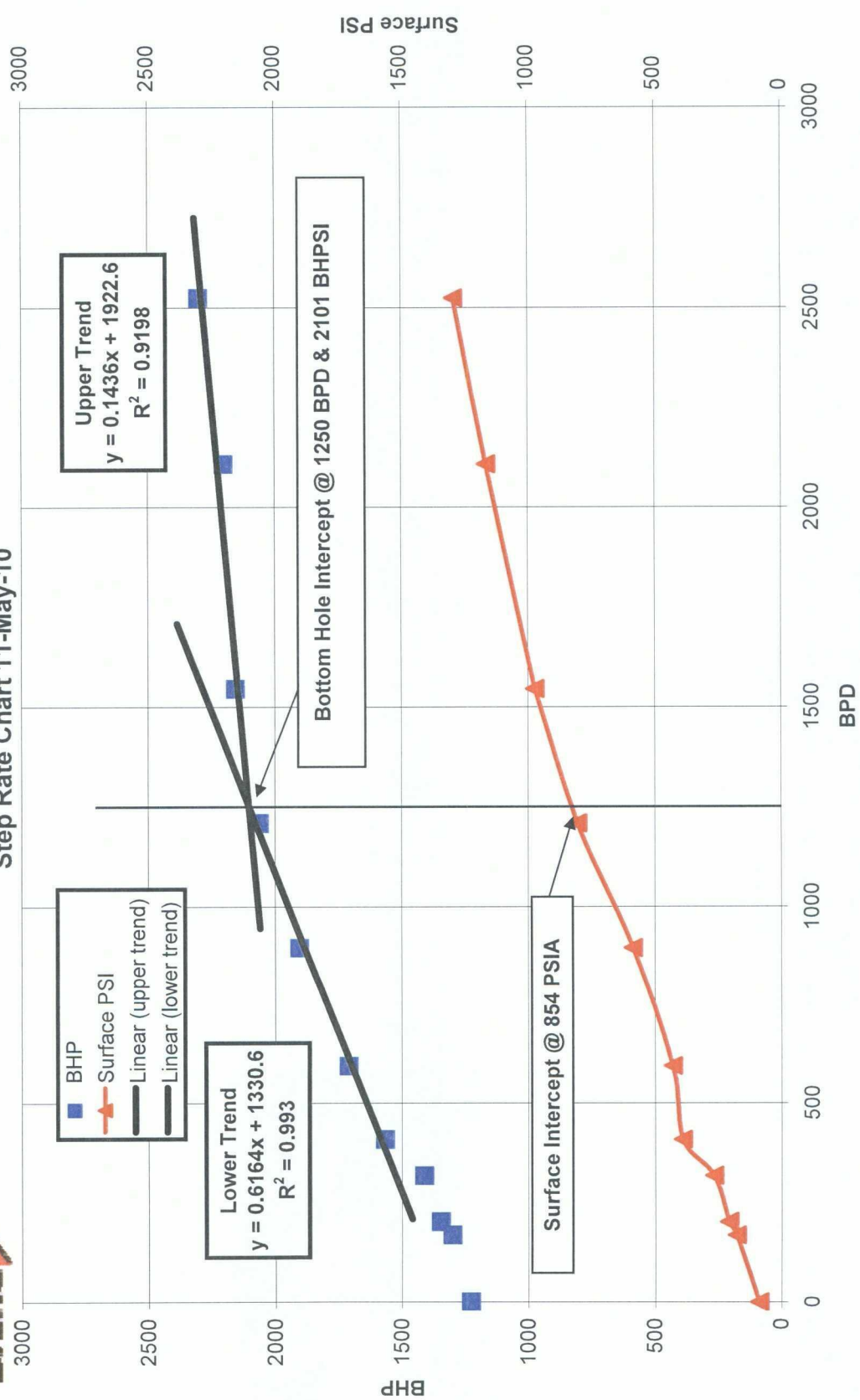
	S Time	E Time	D Time	Last Rate	Step	BHP	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1	7:26 AM	7:45 AM	19	0	0	1226.5	88.2	0	0	0		
2	7:45 AM	8:15 AM	30	100	100	1299.9	177.5	3.5	3.5	168		
3	8:15 AM	8:45 AM	30	200	100	1345.2	207.7	7.7	4.2	202		
4	8:45 AM	9:15 AM	30	300	100	1410.7	266.8	14.3	6.6	317		
5	9:15 AM	9:45 AM	30	400	100	1565.6	390.6	22.8	8.5	408	1565.6	
6	9:45 AM	10:15 AM	30	600	200	1709.1	430.3	35.2	12.4	595	1709.1	
7	10:15 AM	10:45 AM	30	900	300	1903.3	586.8	53.9	18.7	898	1903.3	
8	10:45 AM	11:15 AM	30	1200	300	2061.6	805.7	79.1	25.2	1210	2061.6	2154.9
9	11:15 AM	11:45 AM	30	1500	300	2154.9	972.8	111.3	32.2	1546		
10	11:45 AM	12:00 PM	15	2000	500	No Water	1081.5	132.9	21.6	1037		
11	12:00 PM	12:30 PM	30	0	0		972.8	132.9	21.6	1546		2154.9
12	12:30 PM	1:00 PM	30	2000	500	2201.3	1165	176.8	43.9	2107		2201.3
13	1:00 PM	1:30 PM	30	2500	500	2299	1292.7	229.4	52.6	2525		2299
14	1:30 PM	1:50 PM	20	3000	500	2325.4	1380.7	274.8	45.4	3269	Do not use	
15	1:50 PM	2:15 PM	25	FALL OFF		2225.1	1086.6					

Note: Data points were placed here for plotting purposes only.

0.6164 1330.6
0.1436 1922
intersect 1250.84602 BPD
BHP PSI 2101.62149 PSIA

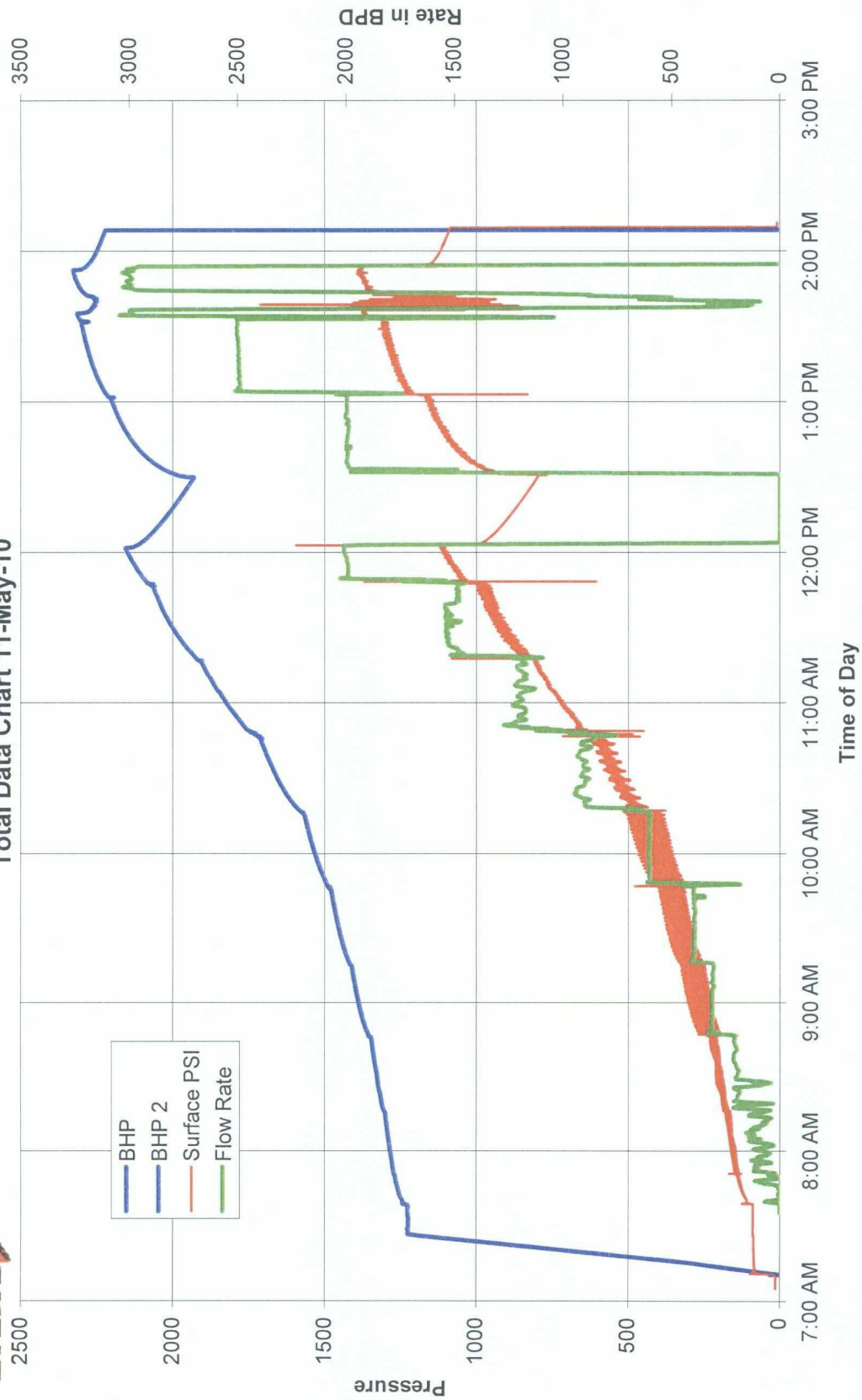


Enervest Operating LLC
W.L.H. Unit No. 42
Step Rate Chart 11-May-10





Enervest Operating LLC
W.L.H. Unit No. 42
Total Data Chart 11-May-10



WLHG4S #42
West Loco Field
Eddy County
30-015-37026

Current Wellbore Schematic

Ground Level 3492
KB 10
Spud Date 10/15/2009
Rig Release 10/23/09

Injector

12 1/4" Hole

TOC @ Surface

8 5/8" 24# J-55 Csg @ 393'
Cmt w/ 425 Sx to Surface

7 7/8" Hole

2 3/8 " 4.7# J-55 Tbg @ 2,629'PCID

G6 Packer @ 2,625'

Perfs 2,658-2,684' (Total of 150 holes)

4 1/2" 10.5# J-55 Csg @ 2,760'
Cmt w/ 600 Sx to Surface'

TD 2,775'
PBD 2,712'

Sonia Miranda
4/8/2010

Step Rate Test



Cardinal Surveys Company

28-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 44

Field;

County: Eddy County, New Mexico

SC 59334

File No. 19879

Intercept @ 1,451.1 BPD, 1,983.2 BH PSIA & Surface Intercept @ 876 PSIA

Downhole PSI Tool Ser. No. CSC2601
Surface PSI Gauge Ser. No. 10213
Tool @ 2,685'

	Start	End	Rate
1	6:09 AM	6:15 AM	0 2,685'
2	6:15 AM	6:45 AM	100
3	6:45 AM	7:15 AM	200
4	7:15 AM	7:45 AM	300
5	7:45 AM	8:15 AM	400
6	8:15 AM	8:45 AM	600
7	8:45 AM	9:15 AM	900
8	9:15 AM	9:45 AM	1200
9	9:45 AM	10:15 AM	1500
10	10:15 AM	10:45 AM	2000
11	10:45 AM	11:15 AM	2500
12	11:15 AM	11:45 AM	3000
13	11:45 AM	12:00 PM	0 Fall Off
14			
15			
16			
17			
18			

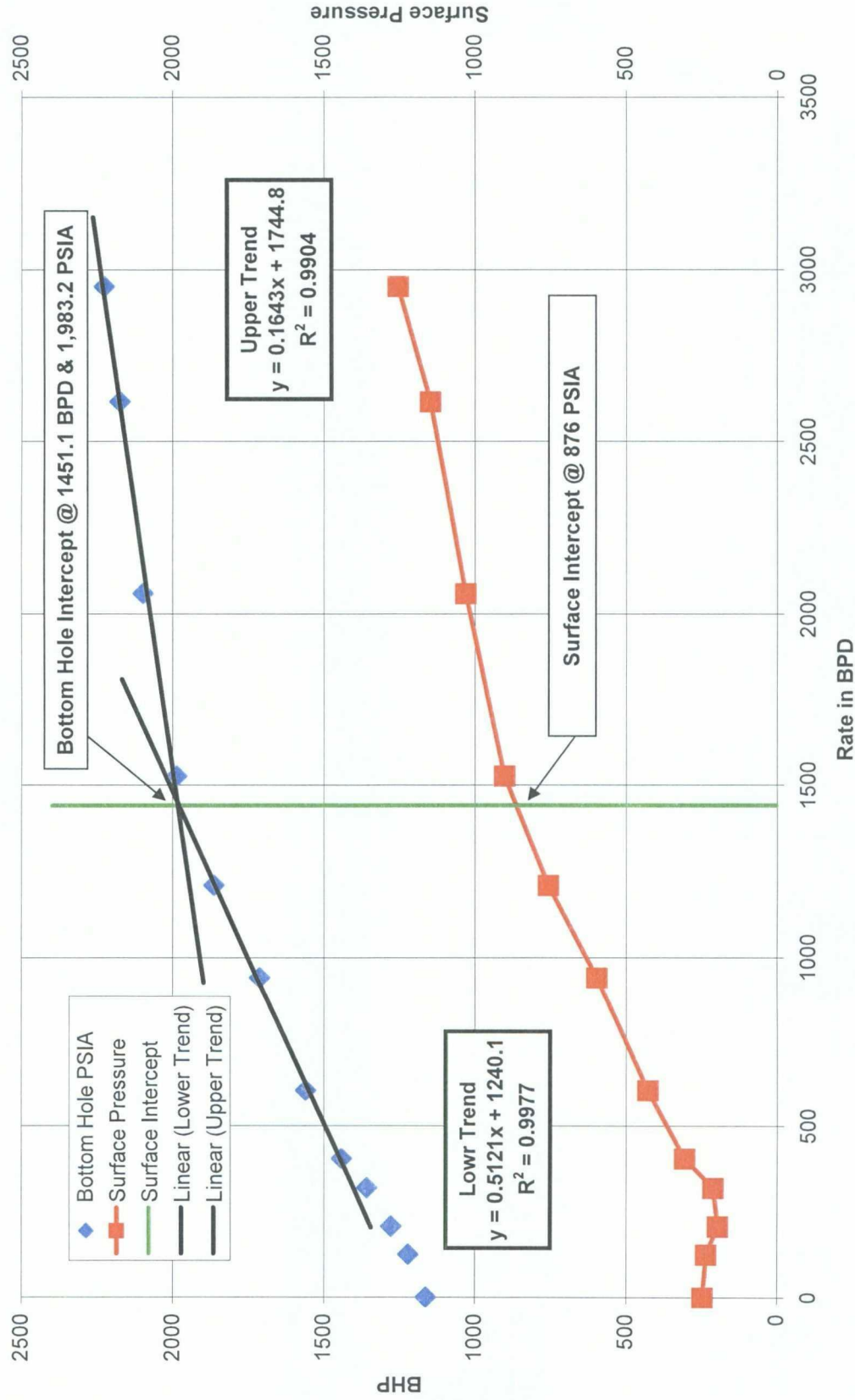
Well: **W.L.H. Unit No. 44**

Location: Eddy County, New Mexico

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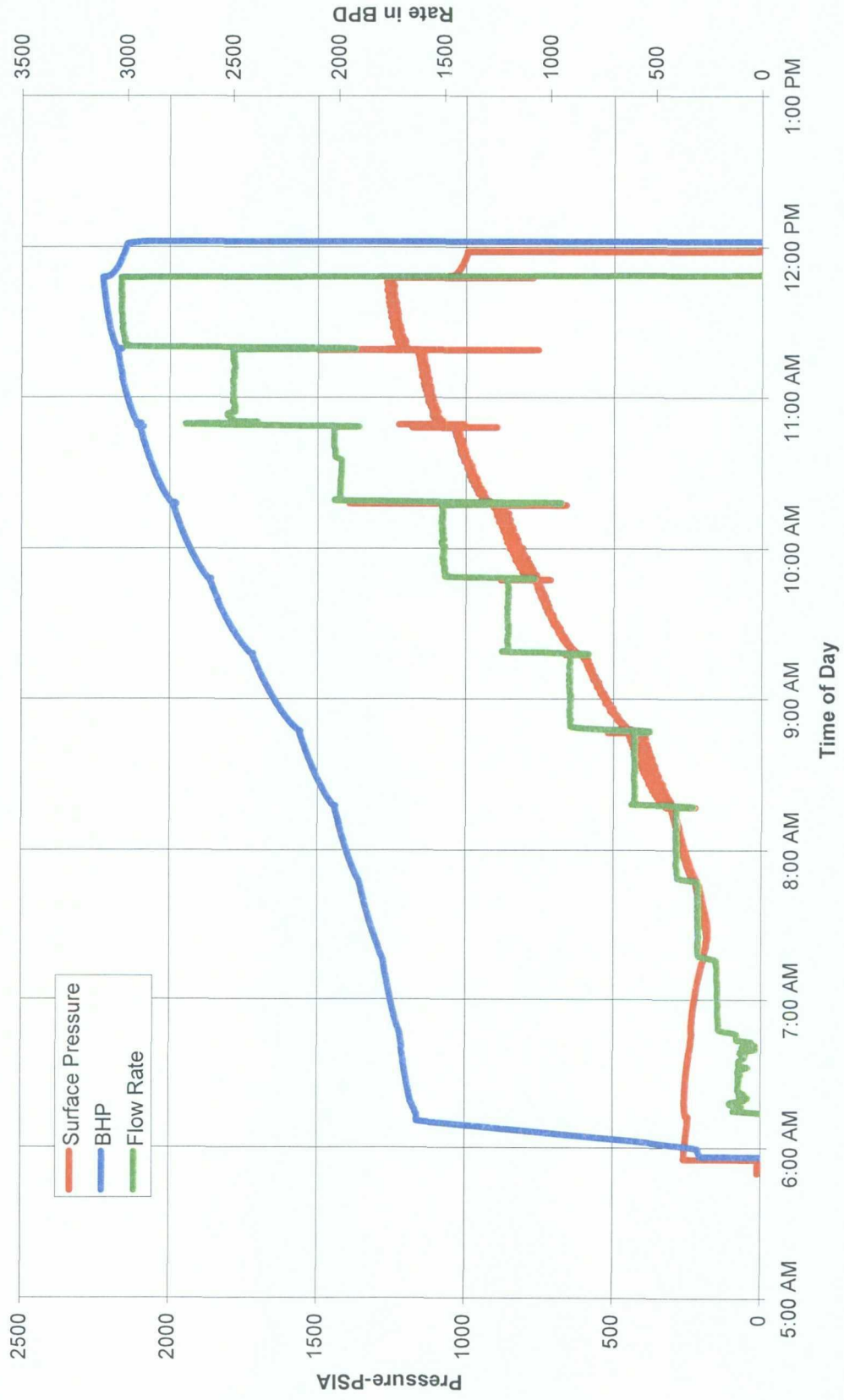


Enervest Operating LLC
WLH Unit No. 44
Step Rate Chart 28-May-10





Enervest Operating LLC
WLH Unit No. 44
Total Data Chart 28-May-10



WLHG4S #44

West Loco Field

Eddy County

30-015-37027

Current Wellbore Schematic

Ground Level 3,498'

KB 13

Spud Date 12/04/2009

Rig Release 12/11/09

Injector

12 1/4" Hole

TOC @ Surface

8 5/8" 24# J-55 Csg @ 386'
Cmt w/ 425 Sx to Surface

7 7/8" Hole

2 3/8 " 4.7# J-55 Tbg @ 2,631'PCID

G6 Packer @ 2,626 '

Perfs 2,678-2,692' (Total of 90 holes)

4 1/2" 10.5# J-55 Csg @ 2,824'
Cmt w/ 575 Sx to Surface'

TD 2,825'
PBD 2,784'

Sonia Miranda
5/20/2010

Step Rate Test



Cardinal Surveys Company

10-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 45

Field;

County: Eddy County, New Mexico

SC 59319

File No. 19852

Intercept @ 454.5 BPD, 2,128.3 BH PSIA & Surface Intercept @ 930 PSIA

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. 10213

Tool @ 2,680'

	Start	End	Rate
1	9:47 AM	10:00 AM	0 2,680'
2	10:00 AM	10:30 AM	100
3	10:30 AM	11:00 AM	200
4	11:00 AM	11:30 AM	300
5	11:30 AM	12:00 PM	400
6	12:00 PM	12:30 PM	600
7	12:30 PM	1:00 PM	900
8	1:00 PM	1:30 PM	1200
9	1:30 PM	1:45 PM	15 Minute Fall Off
10			
11			
12			
13			
14			
15			
16			
17			
18			

	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	9:47 AM	10:00 AM	13	0	0	1179.8	250.8	0	0	0		
2	10:00 AM	10:30 AM	30	100	100	1383.3	344.3	3.4	3.4	163		
3	10:30 AM	11:00 AM	30	200	100	1580.4	510.4	7.5	4.1	197		
4	11:00 AM	11:30 AM	30	300	100	1792.5	672.7	13.6	6.1	293		
5	11:30 AM	12:00 PM	30	400	100	1996.5	853.2	21.8	8.2	394	1580.4	
6	12:00 PM	12:30 PM	30	600	200	2184.1	1093.2	34.9	13.1	629	1792.5	
7	12:30 PM	1:00 PM	30	900	300	2307.2	1174.4	53.7	18.8	902	1996.5	2184.1
8	1:00 PM	1:30 PM	30	1200	300	2383.6	1242.3	78.2	24.5	1176		2307.2
9	1:30 PM	1:45 PM	15	0	0	1500.9	419.4	0	0	0		2383.6

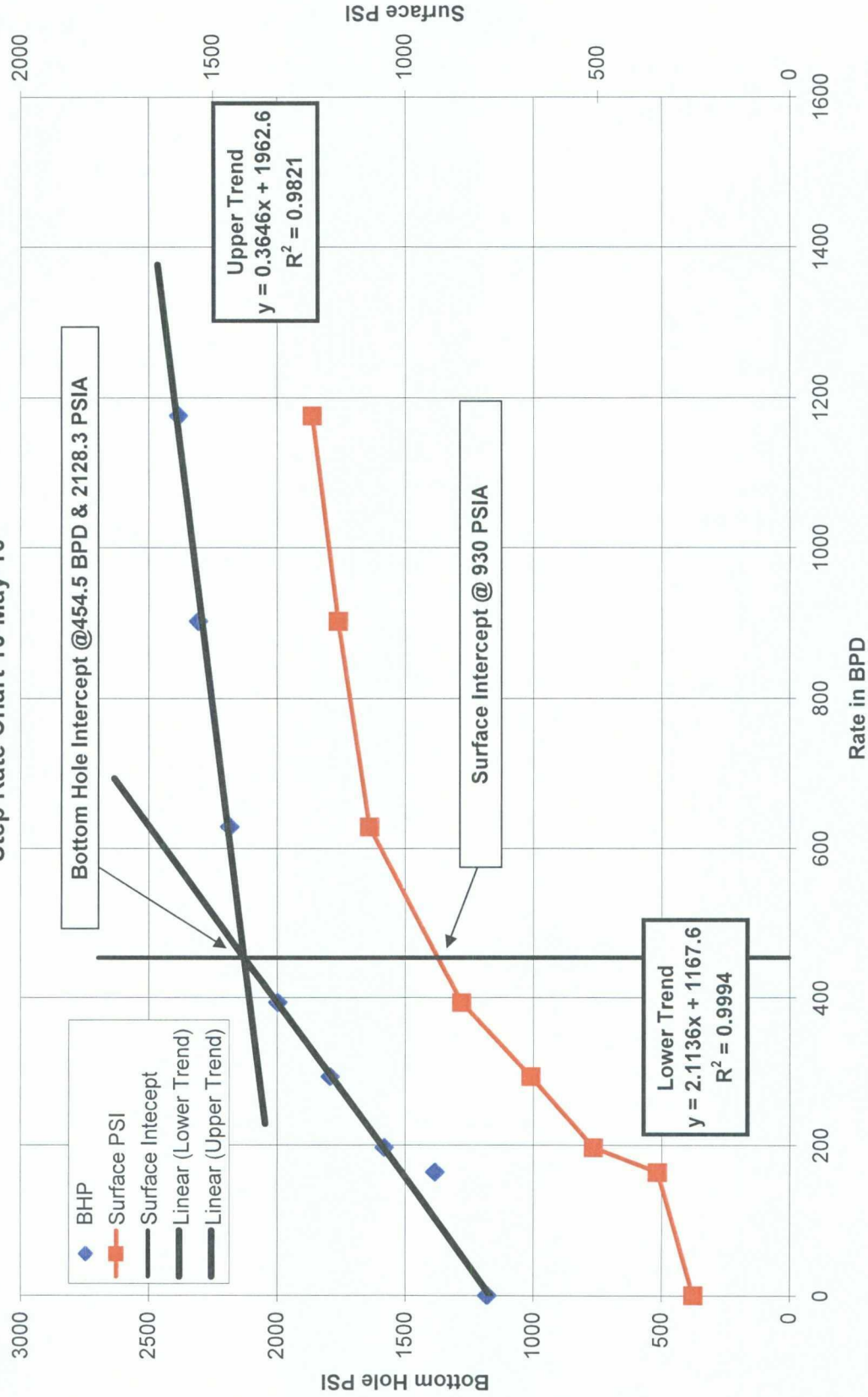
intersect	2.1136	1167.6
BHP PSI	0.3646	1962.6
BPD	454.545455	
PSIA	2128.32727	



Enervest Operating LLC

W.L.H. Unit No. 45

Step Rate Chart 10-May-10

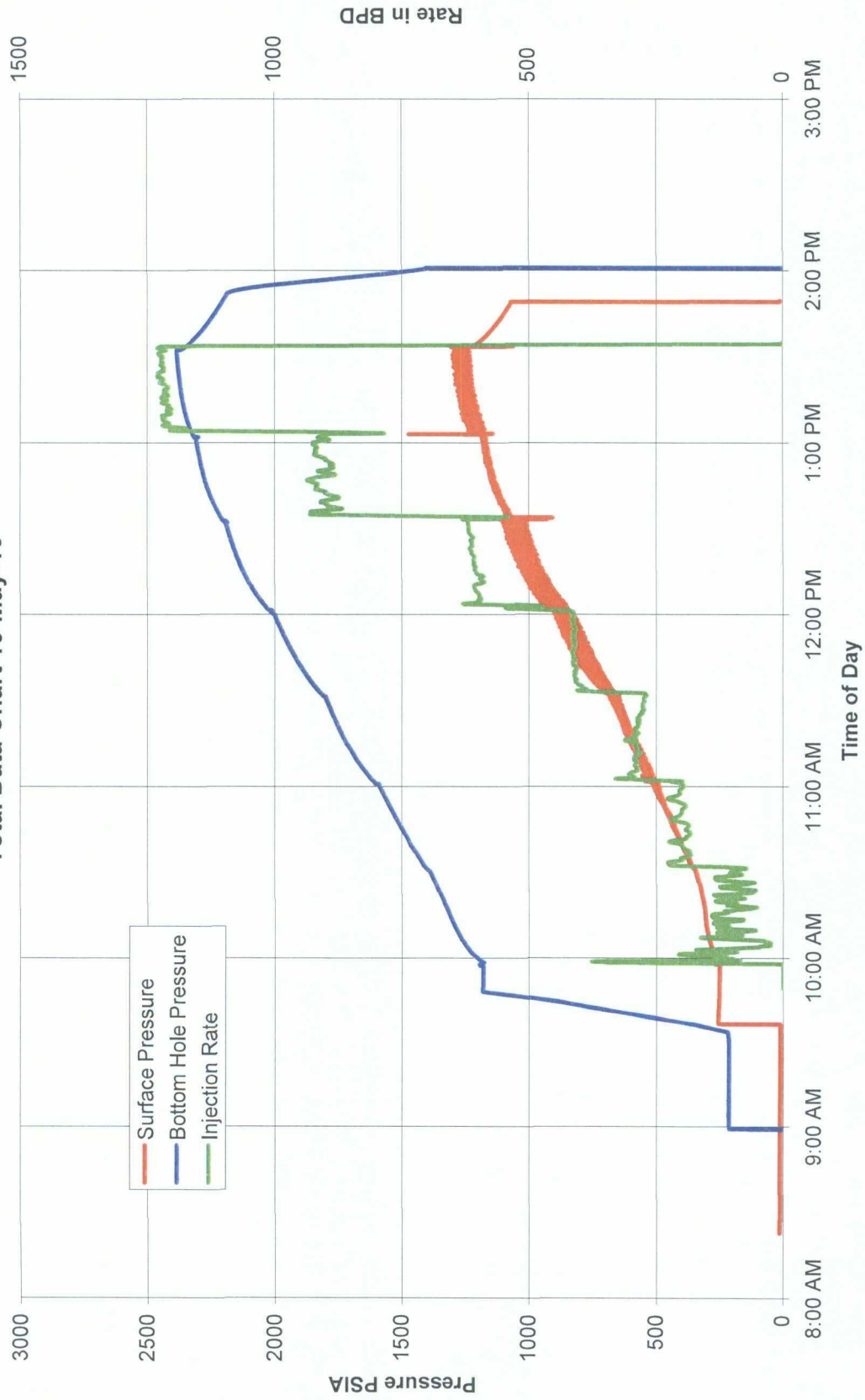




Enervest Operating LLC

W.L.H. Unit No. 45

Total Data Chart 10-May-10



WLHG4S #45
West Loco Field
Eddy County
30-015-37025

Current Wellbore Schematic

Ground Level 3,493'
KB 13
Spud Date 10/23/2009
Rig Release 10/30/09

Injector

12 1/4" Hole

TOC @ Surface

8 5/8" 24# J-55 Csg @ 419'
Cmt w/ 425 Sx to Surface

7 7/8" Hole

2 3/8 " 4.7# J-55 Tbg @ 2,650'PCID

G6 Packer @ 2,645'

Perfs 2,670-2,694' (Total of 150 holes)

4 1/2" 10.5# J-55 Csg @ 2,785'
Cmt w/ 575 Sx to Surface'

TD 2,800'
PBSD 2,741'

Sonia Miranda
4/19/2010

Step Rate Test



Cardinal Surveys Company

26-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 48

Field;

County: Eddy County, New Mexico

SC 59332

File No. 19877

Intercept @ 3,337.5 BPD, 2,2494.3 BH PSIA & Surface Intercept @ 1,468 PSIA

Downhole PSI Tool Ser. No. CSC2601
Surface PSI Gauge Ser. No. 10213
Tool @ 2,665'

	Start	End	Rate
1	8:14 AM	8:30 AM	0 2,665'
2	8:30 AM	9:00 AM	100
3	9:00 AM	9:30 AM	200
4	9:30 AM	10:00 AM	300
5	10:00 AM	10:30 AM	400
6	10:30 AM	11:00 AM	600
7	11:00 AM	11:30 AM	900
8	11:30 AM	12:00 PM	1200
9	12:00 PM	12:30 PM	1500
10	12:30 PM	1:00 PM	2000
11	1:00 PM	1:30 PM	2500
12	1:30 PM	2:00 PM	3000
13	2:00 PM	2:30 PM	4000
14	2:30 PM	3:00 PM	5000
15	3:00 PM	3:30 PM	6000
16	3:30 PM	3:45 PM	0
17			
18			

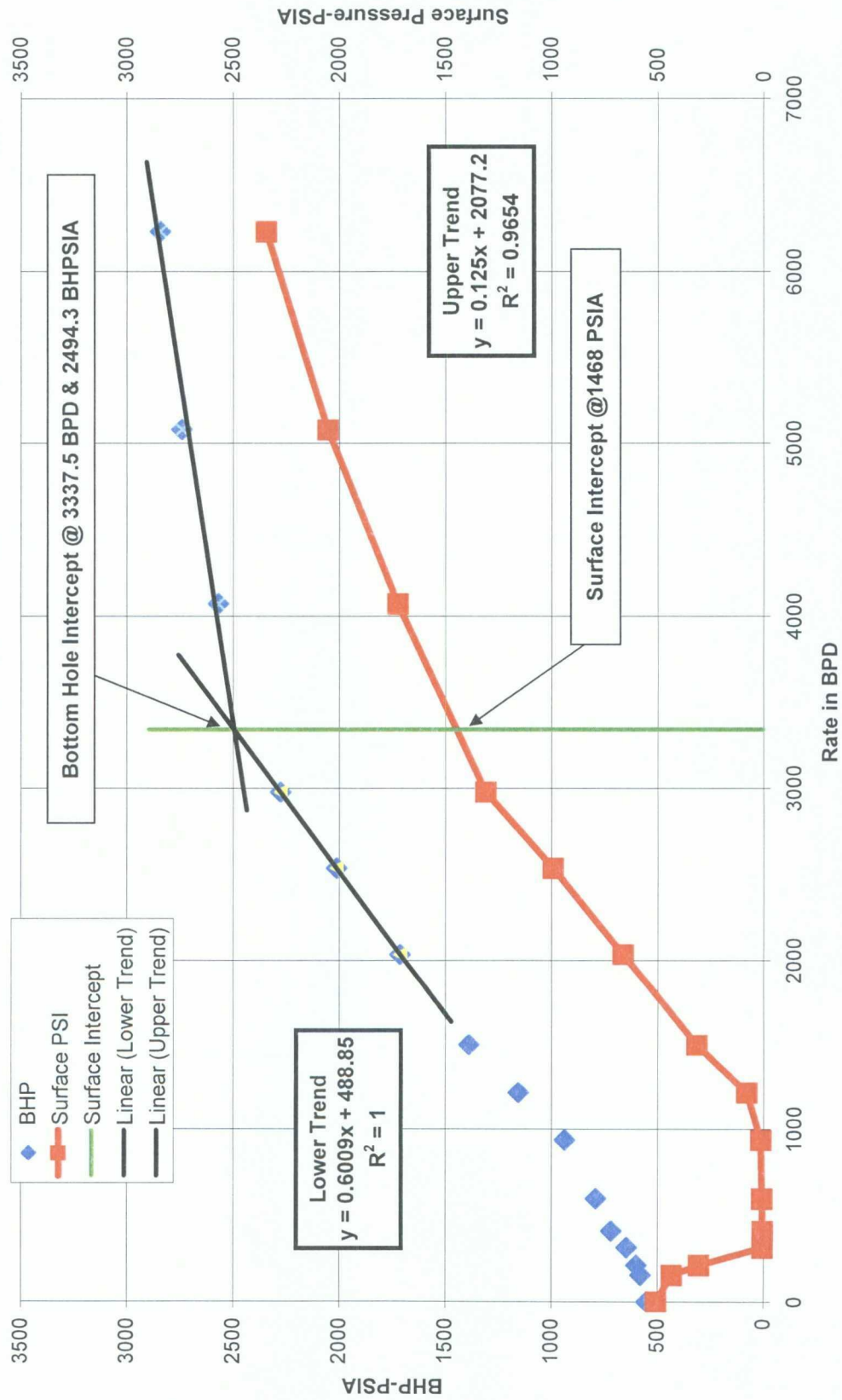
Well: W.L.H. Unit No. 48

Location: Eddy County, New Mexico

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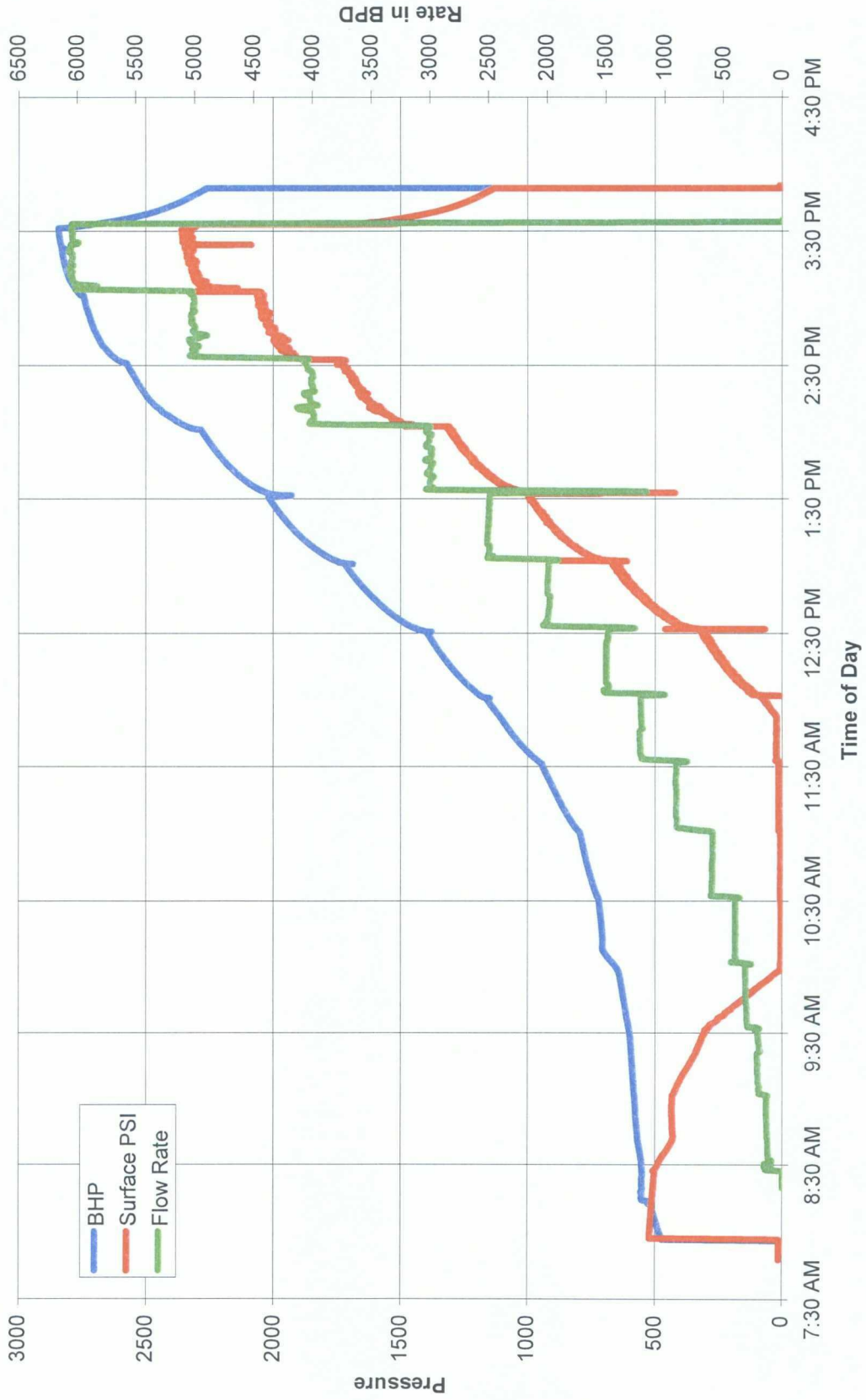


Energvest Operating LLC
W.L.H. Unit No. 48
Step Rate Chart 26-May-10





Enervest Operating LLC



WLHG4S #48
West Loco Field
Eddy County
30-015-37018

Current Wellbore Schematic

Ground Level 3,513'
KB 12
Spud Date 1/26/10
Rig Release 2/01/10

Injector

12 1/4" Hole

TOC @ Surface

8 5/8" 24# J-55 Csg @ 392'
Cmt w/ 315 Sx to Surface

7 7/8" Hole

2 3/8 " 4.7# J-55 Tbg @ 2,632'PCID

G6 Packer @ 2,616 '

Perfs 2,653-2,683' (Total of 186" holes)

4 1/2" 10.5# J-55 Csg @ 2,793'
Cmt w/ 600 Sx to Surface

TD 2,805'
PBD 2,769'

Sonia Miranda
5/26/2010

Step Rate Test



Cardinal Surveys Company

2-Jun-10

Enervest Operating LLC

Well: W.L.H. Unit No. 49

Field;

County: Eddy County, New Mexico

SC59335

File No. 19866

Intercept @ 3588.6 BPD, 2,063.9 BH PSIA & Surface Intercept @ 1,154 PSIA

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. 10213

Tool @ 2.660'

	Start	End	Rate
1	6:47 AM	7:00 AM	0 2,660'
2	7:00 AM	7:30 AM	100
3	7:30 AM	8:00 AM	200
4	8:00 AM	8:30 AM	300
5	8:30 AM	9:00 AM	400
6	9:00 AM	9:30 AM	600
7	9:30 AM	10:00 AM	900
8	10:00 AM	10:30 AM	1200
9	10:30 AM	11:00 AM	1500
10	11:00 AM	11:30 AM	2000
11	11:30 AM	12:00 PM	2500
12	12:00 PM	12:30 PM	3000
13	12:30 PM	1:00 PM	4000
14	1:00 PM	1:30 PM	5000
15	1:30 PM	2:00 PM	6000
16	2:00 PM	2:15 PM	Fall Off
17			
18			

Step Rate Test
2-Jun-10

Enervest Operating LLC

Well: W.L.H. Unit No. 49

Field:

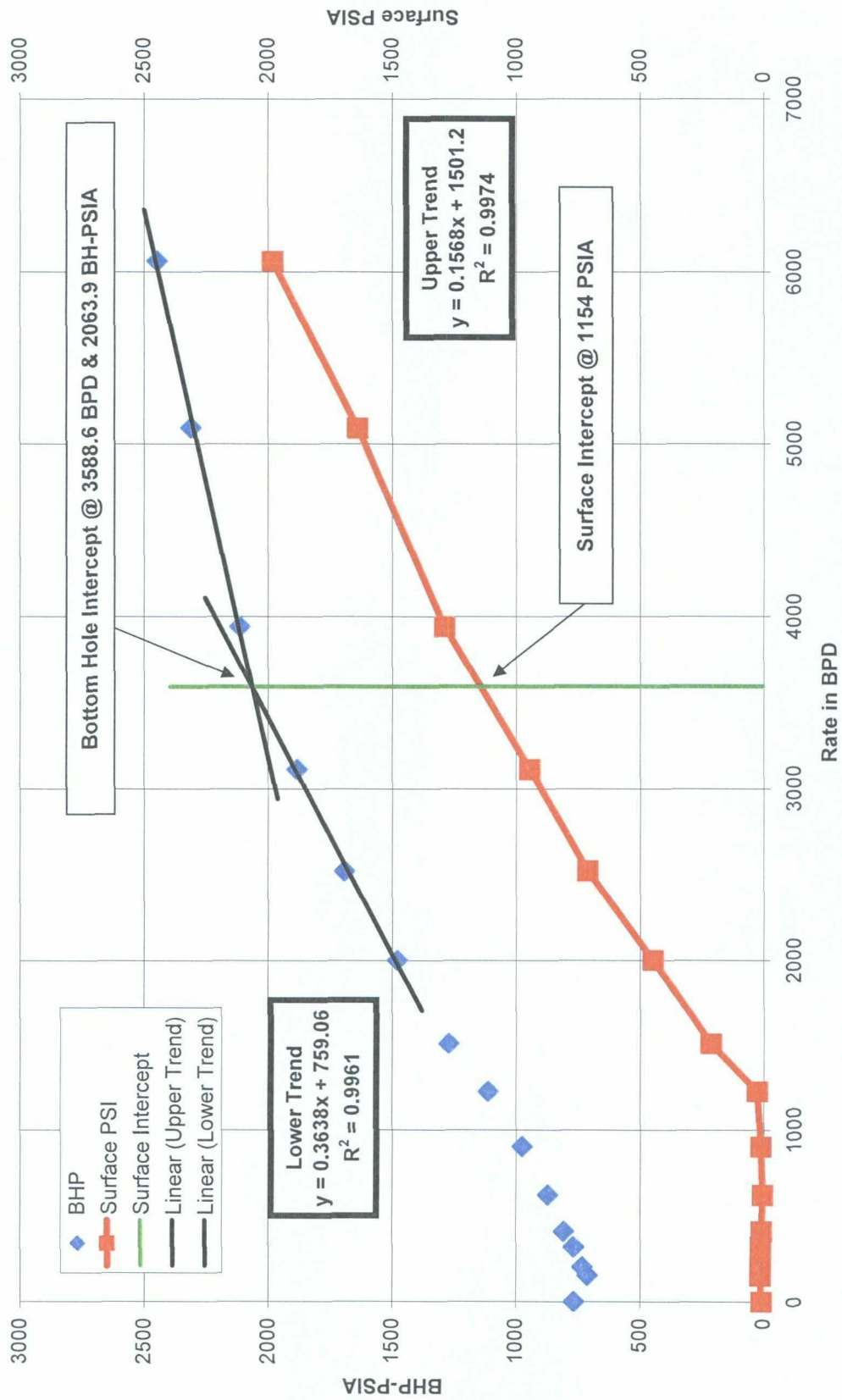
Location: Eddy County, New Mexico



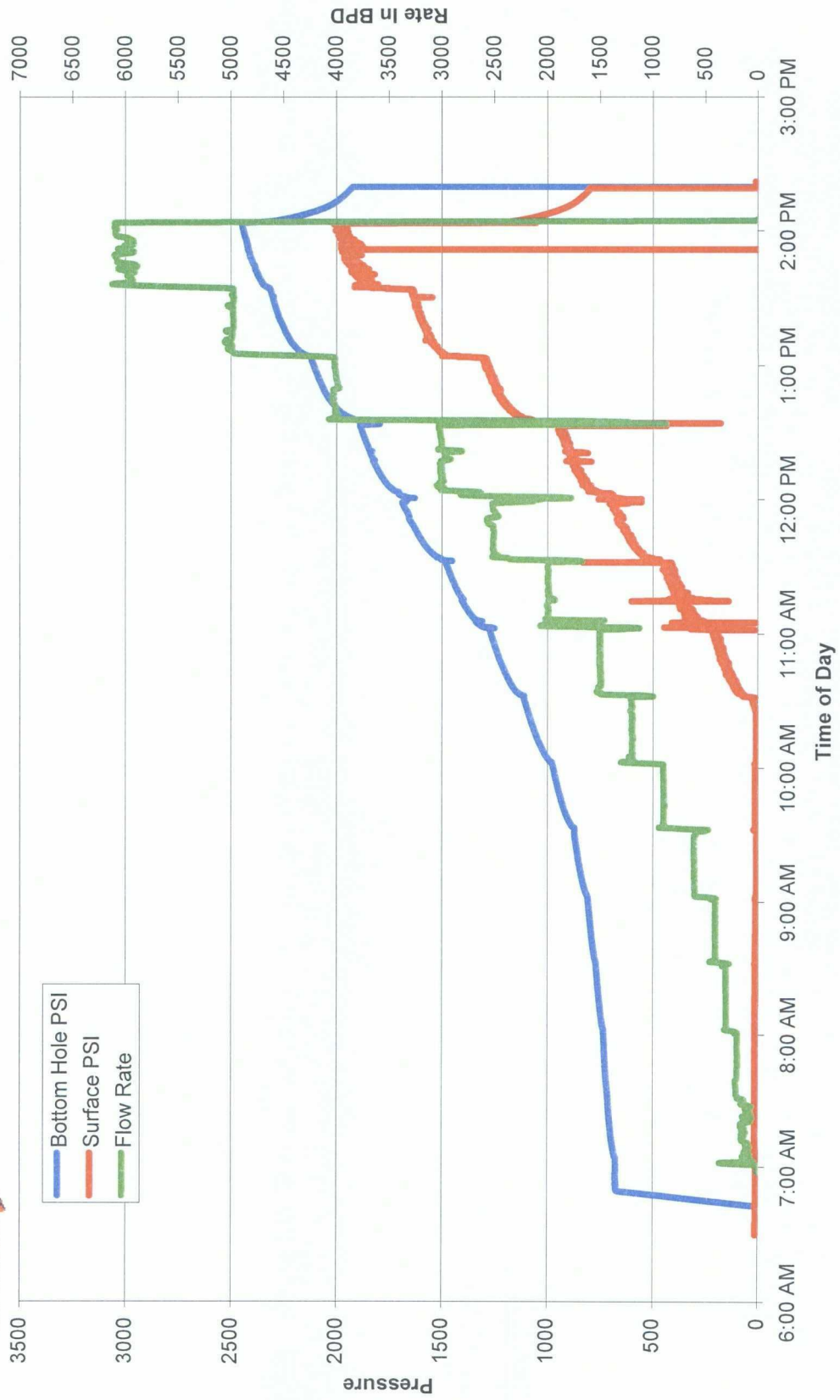
	S Time	E Time	D Time	Last Rate	Step	BHP	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1	6:47 AM	7:00 AM	13	0	0	766.2	8.9	0	0	0		
2	7:00 AM	7:30 AM	30	100	100	712.4	14.2	3.2	3.2	154		
3	7:30 AM	8:00 AM	30	200	100	733.4	14.4	7.4	4.2	202		
4	8:00 AM	8:30 AM	30	300	100	767.4	13.4	14	6.6	317		
5	8:30 AM	9:00 AM	30	400	100	806.4	9.3	22.5	8.5	408		
6	9:00 AM	9:30 AM	30	600	200	871	5	35.4	12.9	619		
7	9:30 AM	10:00 AM	30	900	300	974.4	11.3	54.2	18.8	902		
8	10:00 AM	10:30 AM	30	1200	300	1111.2	26	79.7	25.5	1224		
9	10:30 AM	11:00 AM	30	1500	300	1270.8	213.1	111.1	31.4	1507		
10	11:00 AM	11:30 AM	30	2000	500	1479.5	447.7	152.8	41.7	2002	1479.5	
11	11:30 AM	12:00 PM	30	2500	500	1692.2	710.2	205.4	52.6	2525	1692.2	
12	12:00 PM	12:30 PM	30	3000	500	1883.7	944.8	270.2	64.8	3110	1883.7	
13	12:30 PM	1:00 PM	30	4000	1000	2114.8	1288.4	352.3	82.1	3941		2114.8
14	1:00 PM	1:30 PM	30	5000	1000	2309.9	1639.6	458.4	106.1	5093		2309.9
15	1:30 PM	2:00 PM	30	6000	1000	2446.7	1983	584.7	126.3	6062		2446.7
16	2:00 PM	2:15 PM	15	0	0	1934.6	796.4	584.7	0	0		
										0.3636	759.06	
										0.1568	1501.2	
									Intersect	3588.68472	BPD	
									BHP PSI	2063.90576	PSIA	



Enervest Operating LLC
WLH Unit No. 49
Step Rate Chart 02-June-10



Energievest Operating LLC
WLH Unit No. 49
Total Data Chart 02-May-10



WLHG4S #49
West Loco Field
Eddy County
30-015-37015

Current Wellbore Schematic

Ground Level 3,510'
KB 12
Spud Date 1/20/10
Rig Release 1/26/10

Injector

12 1/4" Hole

TOC @ Surface

8 5/8" 24# J-55 Csg @ 391'
Cmt w/ 265 Sx to Surface

7 7/8" Hole

2 3/8 " 4.7# J-55 Tbg @ 2,618'PCID

G6 Packer @ 2,614 '

Perfs 2,652-2,676' (Total of 152 holes)

4 1/2" 10.5# J-55 Csg @ 2,789'
Cmt w/ 600 Sx to Surface

TD 2,800'
PBSD 2,746'

Sonia Miranda
5/26/2010



Cardinal Surveys Company

27-May-10

Energvest Operating LLC

Well: W.L.H. Unit No. 50

Field;

County: Eddy County, New Mexico

SC 59333

File No. 19878

NO PARTING PRESSURE FOUND

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. 10213

Tool @ 2,650'

	Start	End	Rate
1	8:18 AM	8:30 AM	0 2,650'
2	8:30 AM	9:00 AM	100
3	9:00 AM	9:30 AM	200
4	9:30 AM	10:00 AM	300
5	10:00 AM	10:30 AM	400
6	10:30 AM	11:00 AM	600
7	11:00 AM	11:30 AM	900
8	11:30 AM	12:00 PM	1200
9	12:00 PM	12:30 PM	1500
10	12:30 PM	1:00 PM	2000
11	1:00 PM	1:30 PM	2500
12	1:30 PM	2:00 PM	3000
13	2:00 PM	2:30 PM	4000
14	2:30 PM	3:00 PM	5000
15	3:00 PM	3:30 PM	6000
16	3:30 PM	3:45 PM	Fall Off
17			
18			

Step Rate Test
27-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 50

Field:

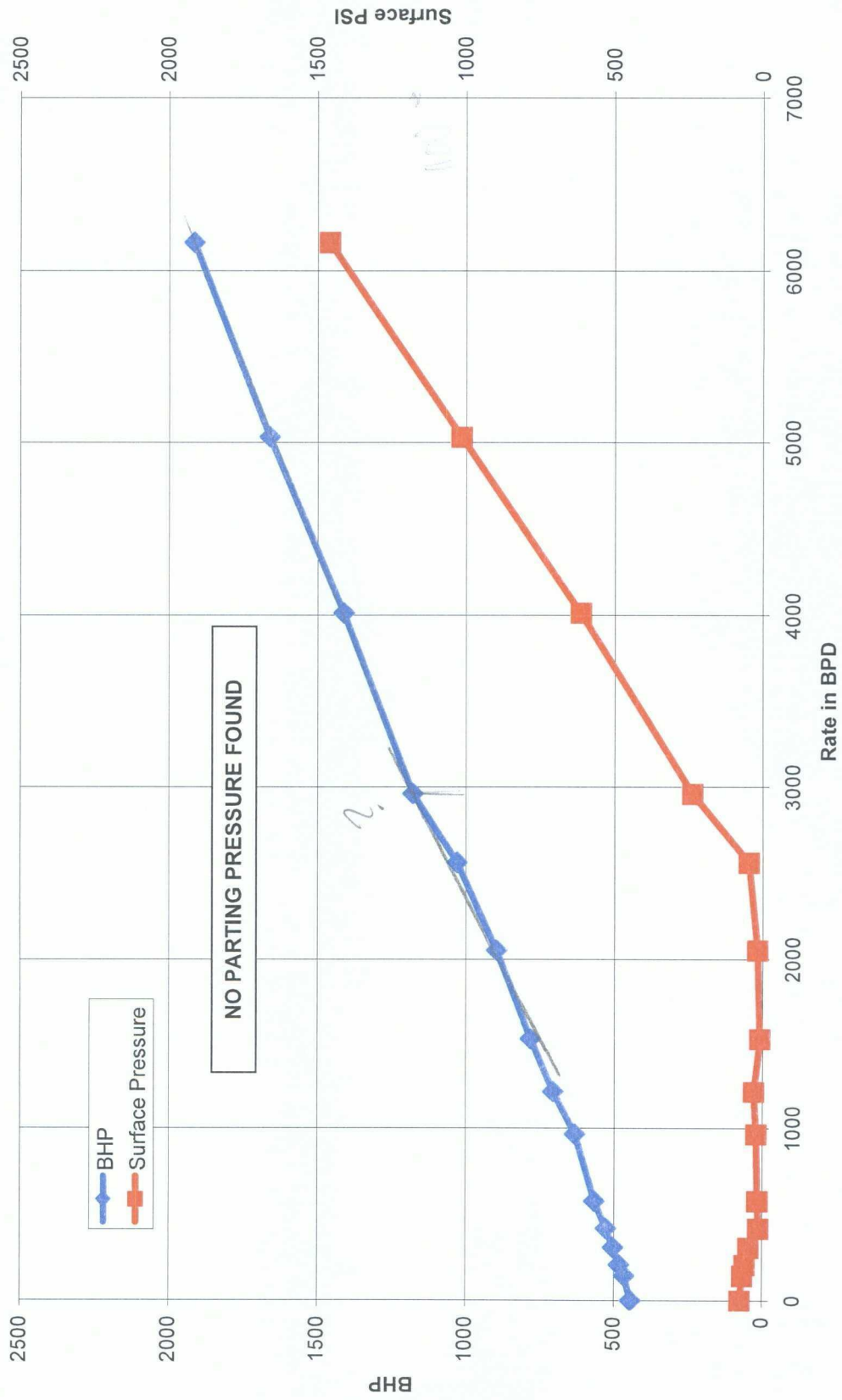
Location: Eddy County, New Mexico



	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	BHP PSIA	Surf PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
1	8:18 AM	8:30 AM	12	0	0	445	75.5	0	0	0		
2	8:30 AM	9:00 AM	30	100	100	465.8	67.3	3	3	144		
3	9:00 AM	9:30 AM	30	200	100	483.3	59.5	7.3	4.3	206		
4	9:30 AM	10:00 AM	30	300	100	503.4	46.4	13.7	6.4	307		
5	10:00 AM	10:30 AM	30	400	100	526.5	13.6	22.4	8.7	418		
6	10:30 AM	11:00 AM	30	600	200	566.1	16.6	34.4	12	576		
7	11:00 AM	11:30 AM	30	900	300	632.3	21.9	54.5	20.1	965		
8	11:30 AM	12:00 PM	30	1200	300	704.8	29.8	79.8	25.3	1214		
9	12:00 PM	12:30 PM	30	1500	300	780.8	9.8	111.6	31.8	1526		
10	12:30 PM	1:00 PM	30	2000	500	895.7	17.8	154.4	42.8	2054	895.7	
11	1:00 PM	1:30 PM	30	2500	500	1029.1	47	207.8	53.4	2563	1029.1	
12	1:30 PM	2:00 PM	30	3000	500	1178.1	237.8	269.5	61.7	2962	1178.1	1178.1
13	2:00 PM	2:30 PM	30	4000	1000	1411.6	614.6	353.1	83.6	4013		1411.6
14	2:30 PM	3:00 PM	30	5000	1000	1662	1016	457.9	104.8	5030		1662
15	3:00 PM	3:30 PM	30	5700	700	1914.8	1460.1	586.3	128.4	6163		1914.8
16	3:30 PM	3:45 PM	15	0	0	1364.5	213.5	586.3	0	0		
											0	0
											0	0
											#DIV/0!	BPD
											#DIV/0!	PSIA
											Intersect BHP PSI	

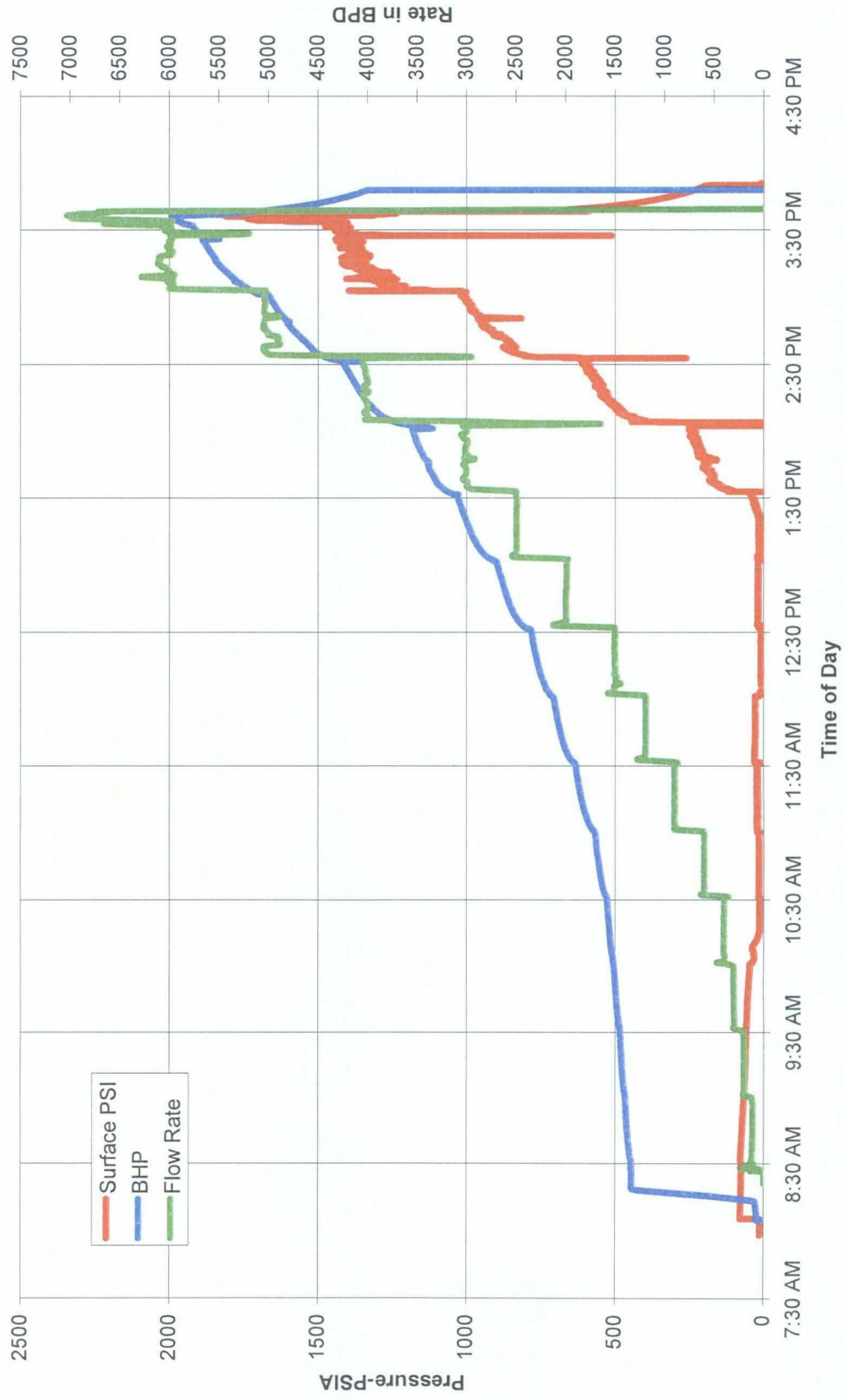


Enervest Operating LLC
W.L.H. Unit No. 50
Step Rate Chart 27-May-10





Enervest Operating LLC
W.L.H. Unit No. 50
Total Data Chart 27-May-10



WLHG4S #50
West Loco Field
Eddy County
30-015-37014

Current Wellbore Schematic

Ground Level 3,505'
KB 12
Spud Date 1/11/10
Rig Release 1/17/10

Injector

12 1/4" Hole

TOC @ Surface

8 5/8" 24# J-55 Csg @ 393'
Cmt w/ 570 Sx to Surface

7 7/8" Hole

2 3/8 " 4.7# J-55 Tbg @ 2,593'PCID

G6 Packer @ 2,586 '

Perfs 2,639-2,665' (Total of 162 holes)

4 1/2" 10.5# J-55 Csg @ 2,787'
Cmt w/ 600 Sx to Surface

TD 2,820'
PBD 2,744'

Sonia Miranda
5/26/2010



Cardinal Surveys Company

21-May-10

Enervest Operating LLC

Well: W.L.H. Unit No. 51

Field;

County: Eddy County, New Mexico

SC 59329

File No. 19867

Intercept @ 2,784.6 BPD & 2,435.9 BH PSIA & Surface Intercept @ 1,448 PSIA

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. 10213

Tool @ 2,620'

	Start	End	Rate
1	7:14 AM	7:30 AM	0 2,620'
2	7:30 AM	8:00 AM	100
3	8:00 AM	8:30 AM	200
4	8:30 AM	9:00 AM	300
5	9:00 AM	9:30 AM	400
6	9:30 AM	10:00 AM	600
7	10:00 AM	10:30 AM	900
8	10:30 AM	11:00 AM	1200
9	11:00 AM	11:30 AM	1500
10	11:30 AM	12:00 PM	2000
11	12:00 PM	12:30 PM	2500
12	12:30 PM	1:00 PM	3000
13	1:00 PM	1:30 PM	4000
14	1:30 PM	2:00 PM	5000
15	2:00 PM	2:15 PM	0
16			
17			
18			

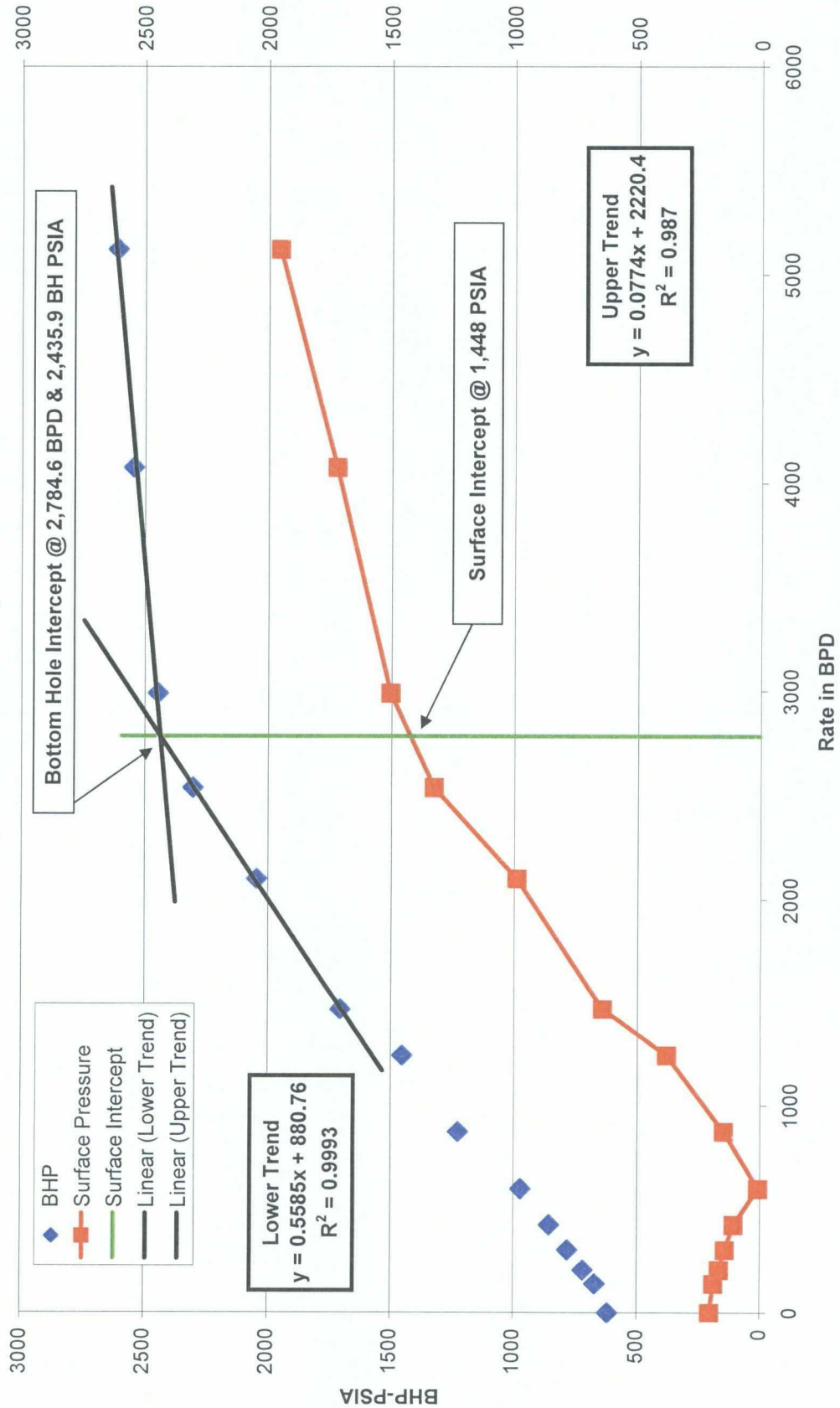
Well: W.L.H. Unit No. 51

Location: Eddy County, New Mexico

[illegible]

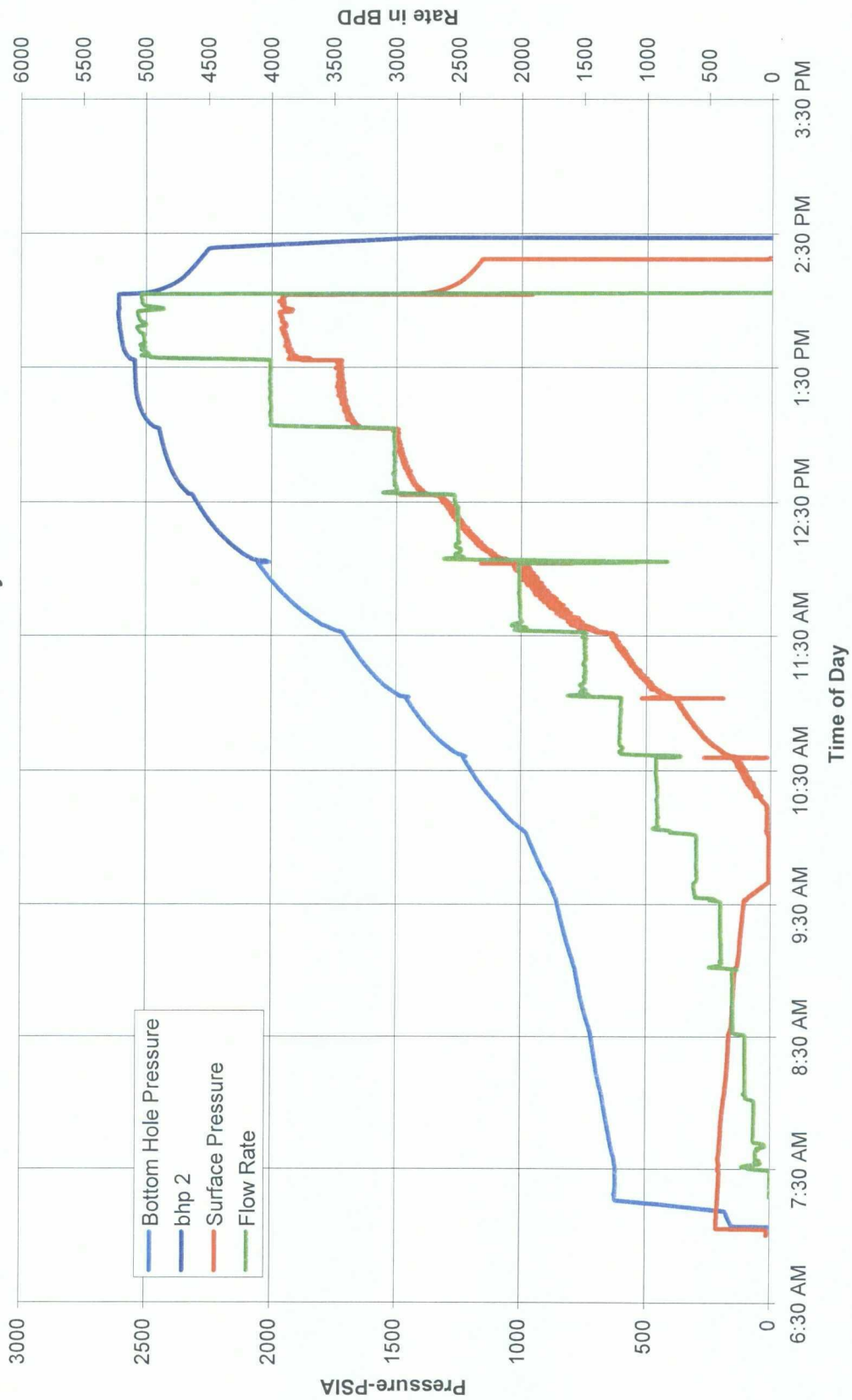


Enervest Operating LLC
W.L.H. Unit 51
Step Rate Chart 21-May-10





Enervest Operating LLC
W.L.H. Unit No. 51
Total Data Chart 21-May-10



WLHG4S #51
West Loco Field
Eddy County
30-015-37013

Current Wellbore Schematic

Ground Level 3,491'
KB 12
Spud Date 1/13/10
Rig Release 1/19/10

Injector

12 1/4" Hole

TOC @ Surface

7 7/8" Hole

8 5/8" 24# J-55 Csg @ 393'
Cmt w/ 400 Sx to Surface

2 3/8 " 4.7# J-55 Tbg @ 2,596'PCID

G6 Packer @ 2,592 '

Perfs 2,614-2,640' (Total of 168 holes)

4 1/2" 10.5# J-55 Csg @ 2,788'
Cmt w/ 600 Sx to Surface

TD 2,800'
PBSD 2,736'

Sonia Miranda
5/26/2010



Cardinal Surveys Company

25-May-10

Energvest Operating LLC

Well: W.L.H. Unit No. 53

Field;

County: Eddy County, New Mexico

SC 59331

File No. 19876

Intercept @ 3,087.6 BPD, 2,203 BH PSIA & Surface Intercept @ 1,244 PSIA

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. 10213

Tool @ 2,650'

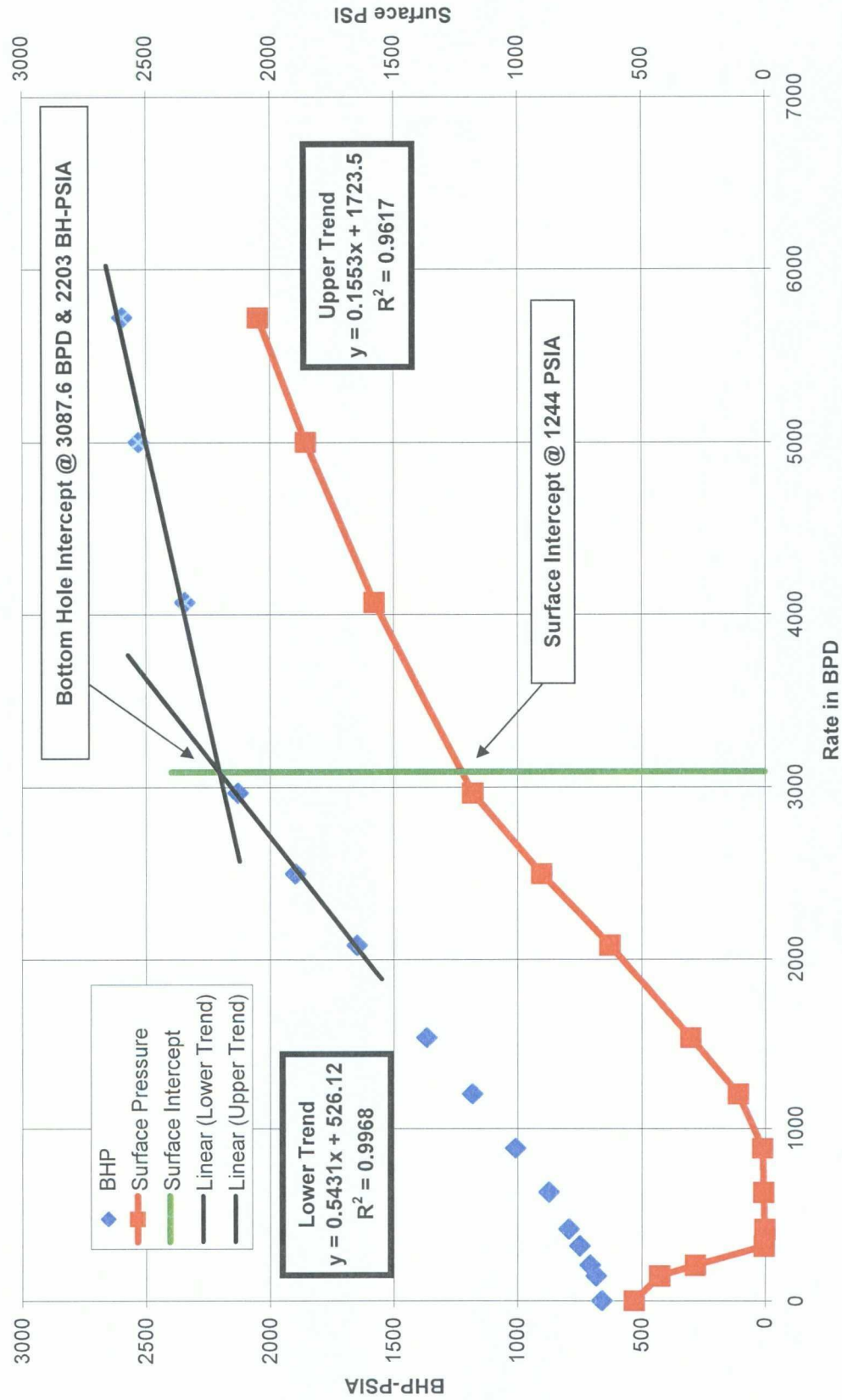
	Start	End	Rate
1	8:17 AM	8:30 AM	0 2,650'
2	8:30 AM	9:00 AM	100
3	9:00 AM	9:30 AM	200
4	9:30 AM	10:00 AM	300
5	10:00 AM	10:30 AM	400
6	10:30 AM	11:00 AM	600
7	11:00 AM	11:30 AM	900
8	11:30 AM	12:00 PM	1200
9	12:00 PM	12:30 PM	1500
10	12:30 PM	1:00 PM	2000
11	1:00 PM	1:30 PM	2500
12	1:30 PM	2:00 PM	3000
13	2:00 PM	2:30 PM	4000
14	2:30 PM	3:00 PM	5000
15	3:00 PM	3:30 PM	5700
16	3:30 PM	3:45 PM	Fall Off
17			
18			

Well: W.L.H. Unit No. 53

Location: Eddy County, New Mexico

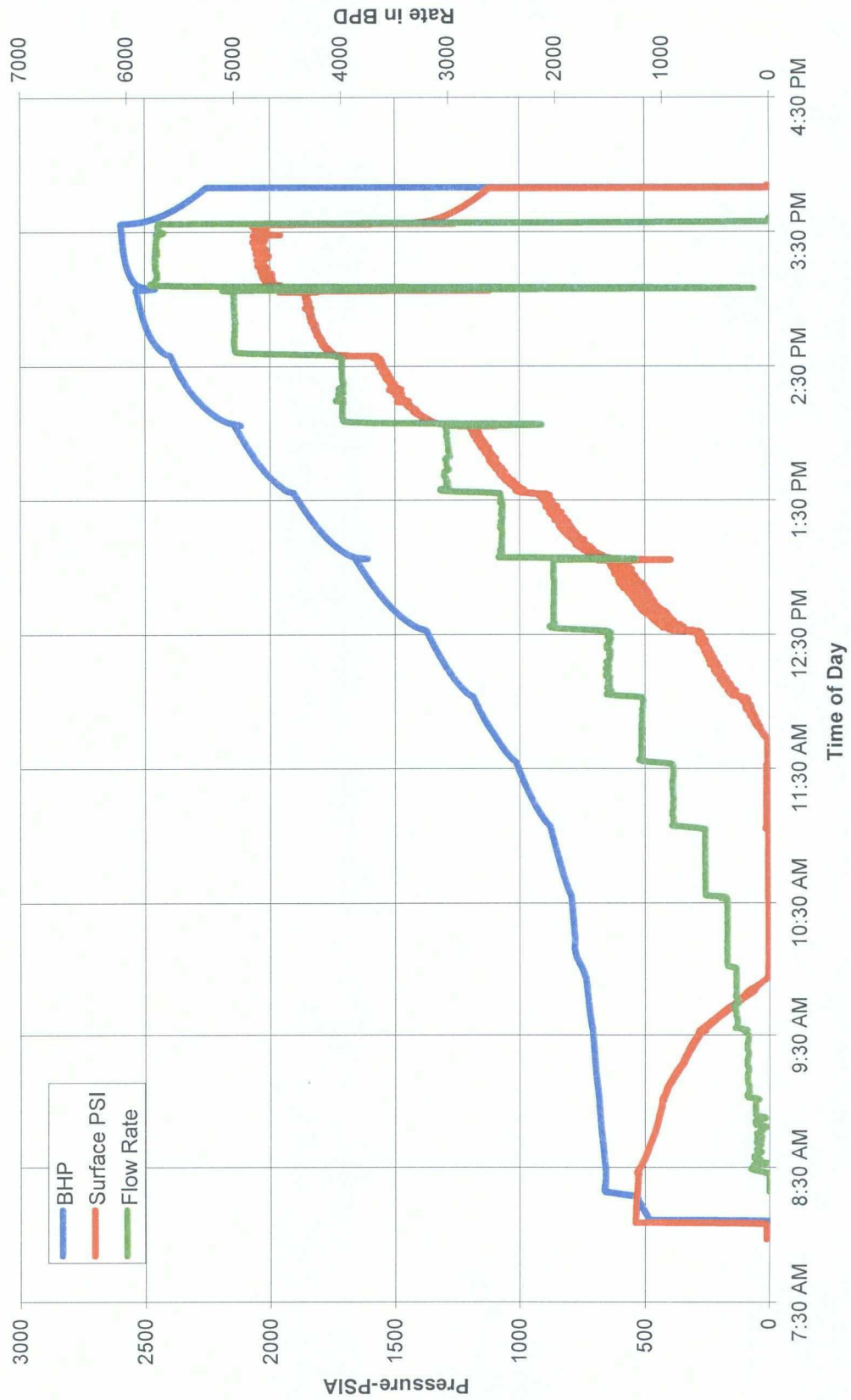
	S Time	E Time	D Time	Last Rate	Step	BHP	Surf	Cum	Delta	Avg.	Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD	Trend	Trend
1	8:17 AM	8:30 AM	13	0	0	661.1	530.6	0	0	0		
2	8:30 AM	9:00 AM	30	100	100	684.3	428.9	3	3	144		
3	9:00 AM	9:30 AM	30	200	100	708.9	283.6	7.3	4.3	206		
4	9:30 AM	10:00 AM	30	300	100	749.9	4.9	13.9	6.6	317		
5	10:00 AM	10:30 AM	30	400	100	793.5	3.2	22.5	8.6	413		
6	10:30 AM	11:00 AM	30	600	200	873.6	6.7	35.5	13	624		
7	11:00 AM	11:30 AM	30	900	300	1008.6	11.6	53.9	18.4	883		
8	11:30 AM	12:00 PM	30	1200	300	1182.7	109.8	79	25.1	1205		
9	12:00 PM	12:30 PM	30	1500	300	1367.7	302.1	111	32	1536		
10	12:30 PM	1:00 PM	30	2000	500	1649.1	628.7	154.4	43.4	2083	1649.1	
11	1:00 PM	1:30 PM	30	2500	500	1897.5	903.2	206.4	52	2496	1897.5	
12	1:30 PM	2:00 PM	30	3000	500	2129.8	1180.7	268.2	61.8	2966	2129.8	
13	2:00 PM	2:30 PM	30	4000	1000	2342.6	1577.6	353	84.8	4070		2342.6
14	2:30 PM	3:00 PM	30	5000	1000	2529.6	1855.4	457.2	104.2	5002		2529.6
15	3:00 PM	3:30 PM	30	5700	700	2595.2	2048.4	576.4	119.2	5722		2595.2
16	3:30 PM	3:45 PM	15	0	0	2268	1125	576.4	0	0		
										0.5431	526.12	
										0.1553	1723.5	
									intersect	3087.62249	BPD	
									BHP PSI	2203.00777	PSIA	

Enervest Operating LLC
 WLH Unit No. 53
 Step Rate Data 25-May-10





Enervest Operating LLC
WLH Unit No. 53
Total Data Chart 25-May-10



WLHG4S #53

West Loco Field

Eddy County

30-015-37016

Current Wellbore Schematic

Ground Level 3,515'
KB 12
Spud Date 2/02/10
Rig Release 2/10/10

Injector

12 1/4" Hole

TOC @ Surface

8 5/8" 24# J-55 Csg @ 389'
Cmt w/ 265 Sx to Surface

7 7/8" Hole

2 3/8" 4.7# J-55 Tbg @ 2,609'PCID

G6 Packer @ 2,604'

Perfs 2,642-2,671' (Total of 180 holes)

4 1/2" 10.5# J-55 Csg @ 2,769'
Cmt w/ 600 Sx to Surface

TD 2,780'
PBD 2,725'

Sonia Miranda
5/26/2010