

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



254

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

Catanach, David, EMNRD

From: Moon, Lynne [Lynne.Moon@meritenergy.com]
Sent: Thursday, July 07, 2005 3:12 PM
To: Catanach, David, EMNRD
Subject: FW: Step rate test with surface pressure

*30-025-20302
Mescalero Redd Unit No 351*

*30-025-21683
✓ Mescalero Redd Unit No 015*

David,

Per our conversation.

Mescalero 35-15 WFX--736 we would like to increase to 500 BWPD 1350 psi

Mescalero 35-1 WFX-736 we would like to increase to 2135 BWPD 1756 psi

Let me know if you need anything else.

Thanks!

From: Petty, John
Sent: Thursday, July 07, 2005 3:32 PM
To: Moon, Lynne
Subject: FW: Step rate test with surface pressure

From: Darrell Norris [mailto:dnorris@swbell.net]
Sent: Sunday, July 03, 2005 2:09 PM
To: Petty, John
Subject: Step rate test with surface pressure

John here is the data that you requested. I have renamed the files by adding a "B" at the end so you can tell them apart from the first ones. On each one of the Step Rate Charts, I have added to the intercept point the surface pressure reading. Also I made the change increasing the rate and pressure on the one we talked about on the phone.

Hope you had a safe holiday.

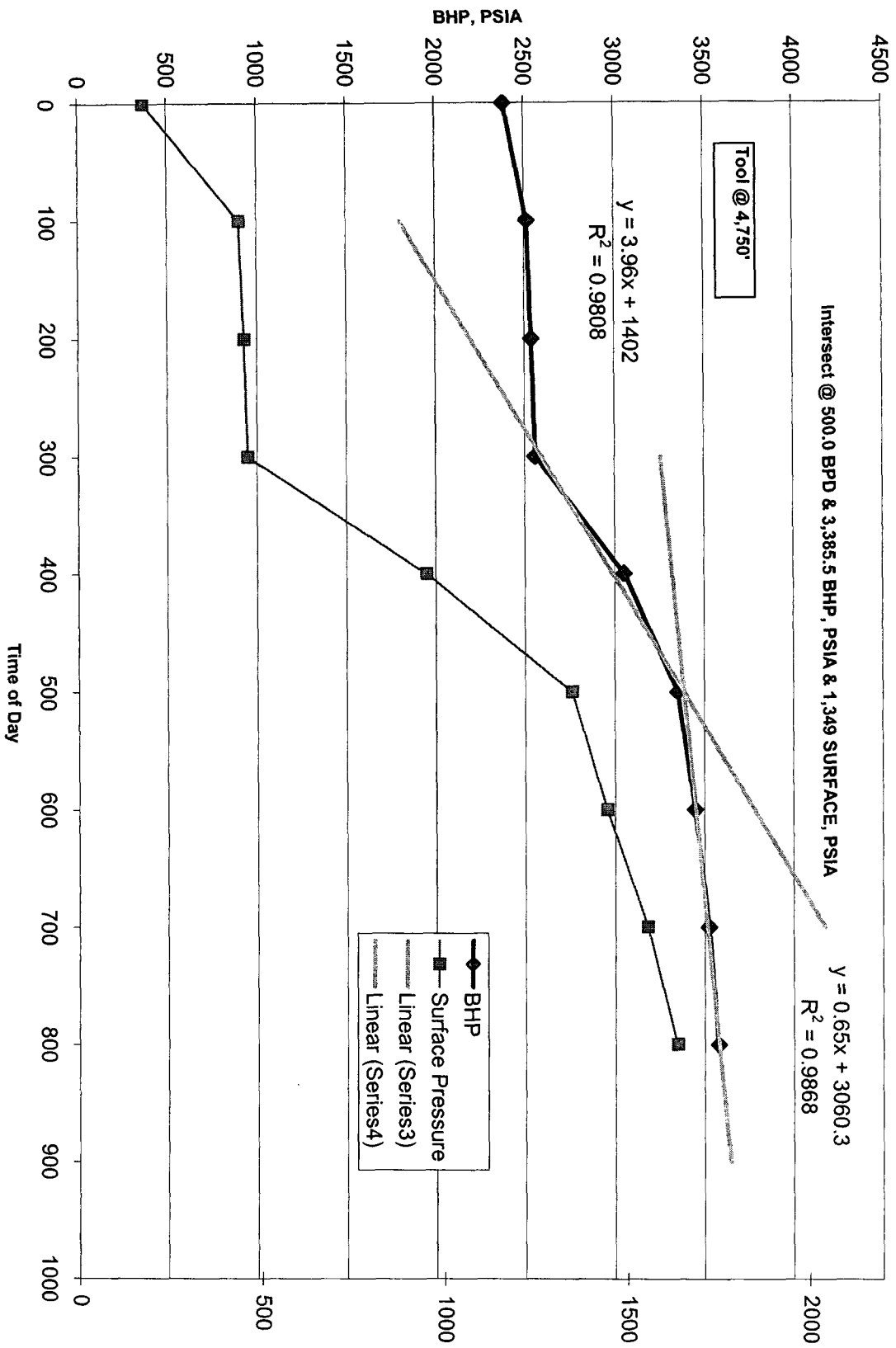
Best Regards
Darrell

MESSAGE SCANNED BY NORTON ANTI-VIRUS!

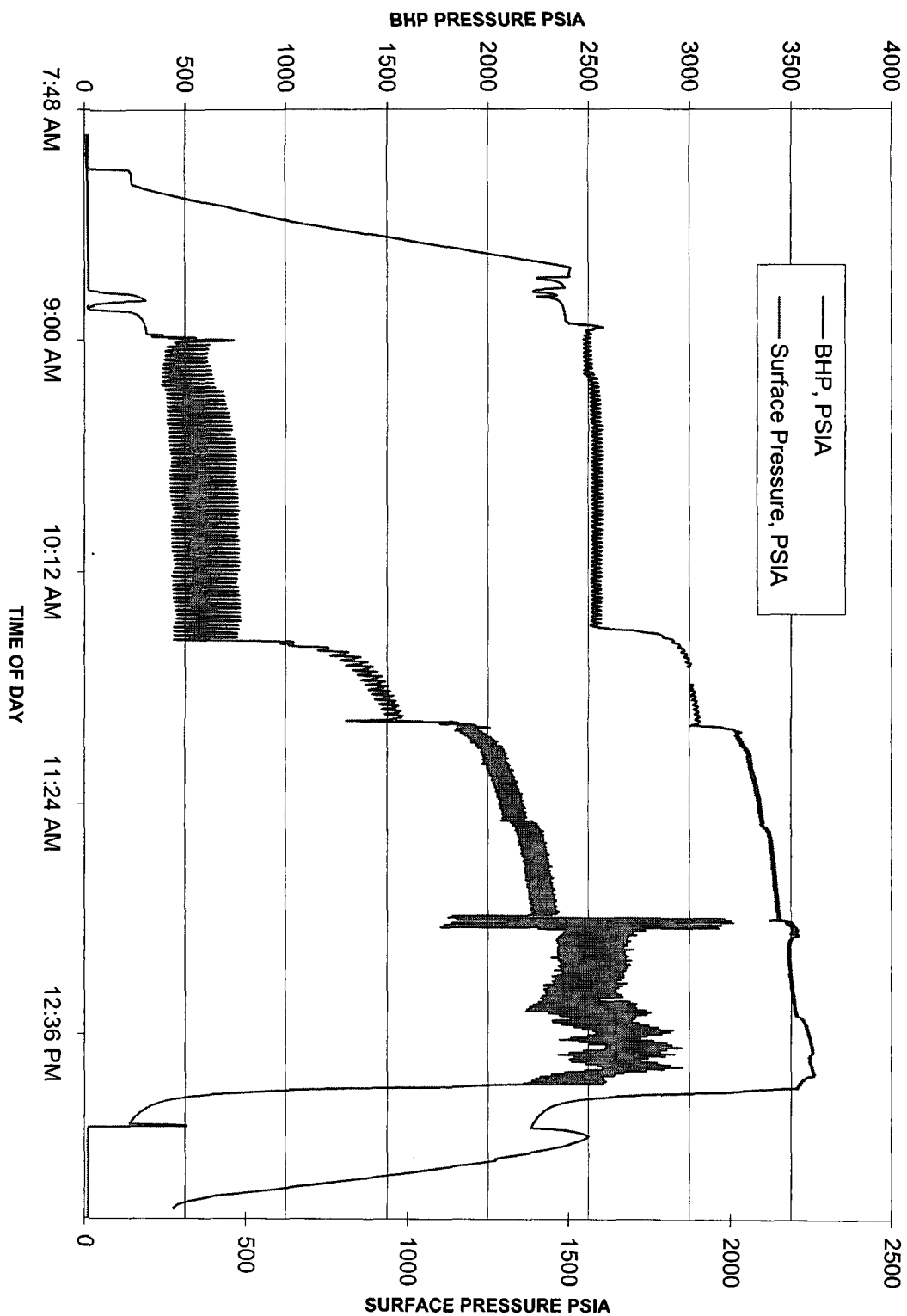
Cardinal Surveys Co.
Darrell Norris
432-580-8061
dnorris@cardinalsurveys.com

7/8/2005

Merit Energy, Mescalero #35-15
Step Rate Test 06-21-2005



MERIT ENERGY
MESCALERO NO. 35-15
06-21-2005





**Merit Energy
Mescalero 35-15
Lea County, NM
6/21/2005**

**7:30 AM Arrive Location
8:15 Start In Hole
8:42 Tool at 4,750'
9:00 100 BPD
9:30 200 BPD
10:00 300 BPD
10:30 400 BPD
11:00 500 BPD
11:30 600 BPD
12:00 700 BPD
12:30 800 BPD
12:53 SHUT DOWN PUMP
1:05 START OUT OF HOLE**

Step Rate Test

Merit Energy
Mescalero 35-15
Lea County, NM
6/21/2005



S Time	E Time	D Time	Last Rate	Step	Last BHP	Last Sur	Cum	Delta	lower	upper	lower	upper
		Min	BPD	BPD	PSIA	PSIA	BBL	BBL				
8:42 AM	9:00	18	0	0	2385	180	0	0				
9:00 AM	9:30	30	100	100	2513	440	3.4	3.4				
9:30 AM	10:00	30	200	100	2538	454	5.4	2				
10:00 AM	10:30	30	300	100	2558	463	7.5	2.1	2558		463	
10:30 AM	11:00	30	400	100	3050	952	12.2	4.7	3050		952	
11:00 AM	11:30	30	500	100	3350	1349	21.7	9.5	3350		1349	
11:30 AM	12:00	30	600	100	3446	1445	31.6	9.9		3446		1445
12:00 PM	12:30	30	700	100	3524	1555	44.5	12.9		3524		1555
12:30 PM	1:00	30	800	100	3576	1636	56.6	12.1		3576		1636
1:00 PM	1:15	15	0	0	3533	1495	0	0				

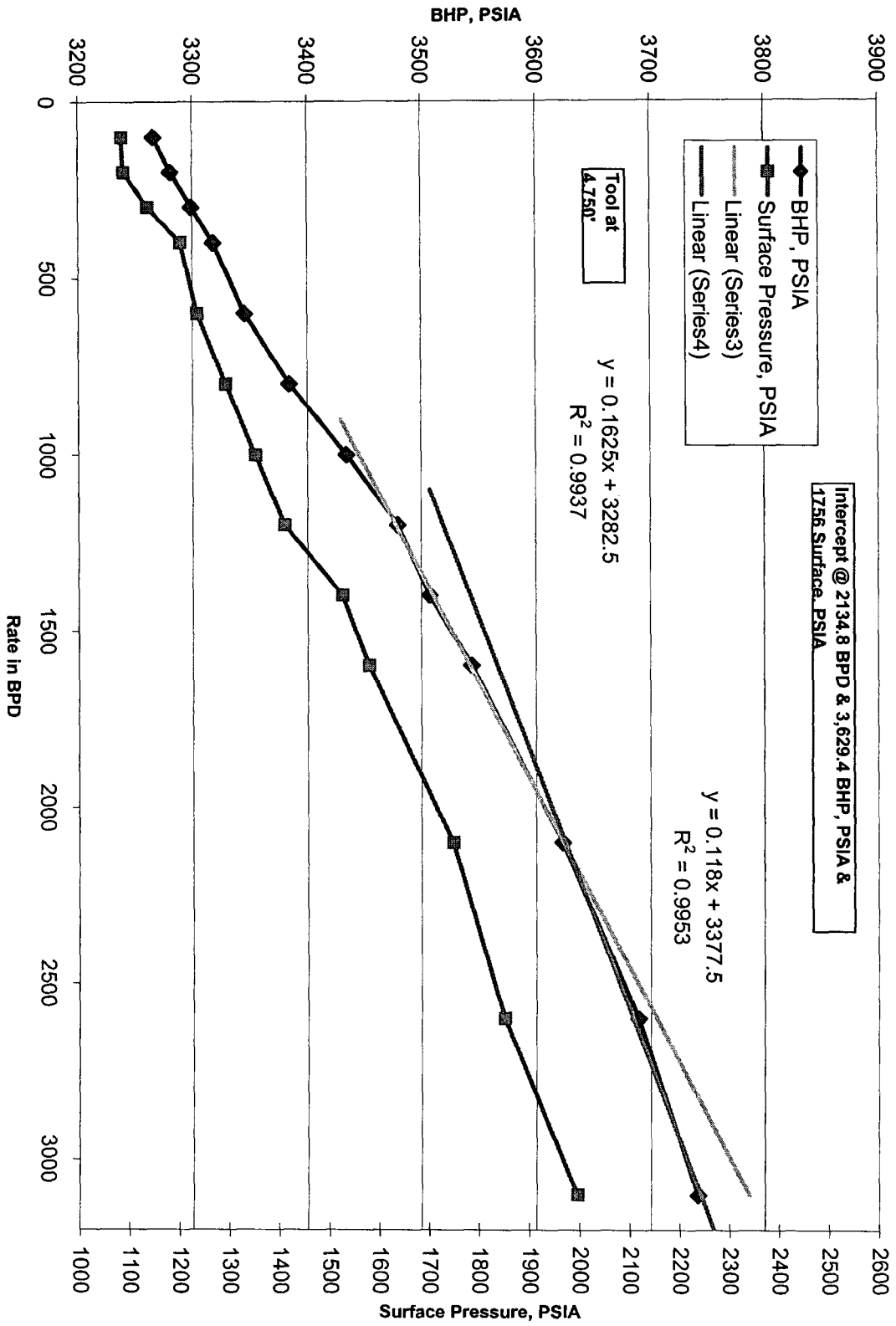
4.43 850
0.995 876
Intersect 7.56914119
surface psi

Intersect 500.906344 BPD
BHP PSI 3385.58912 PSIA

3.96 1402
0.65 3060

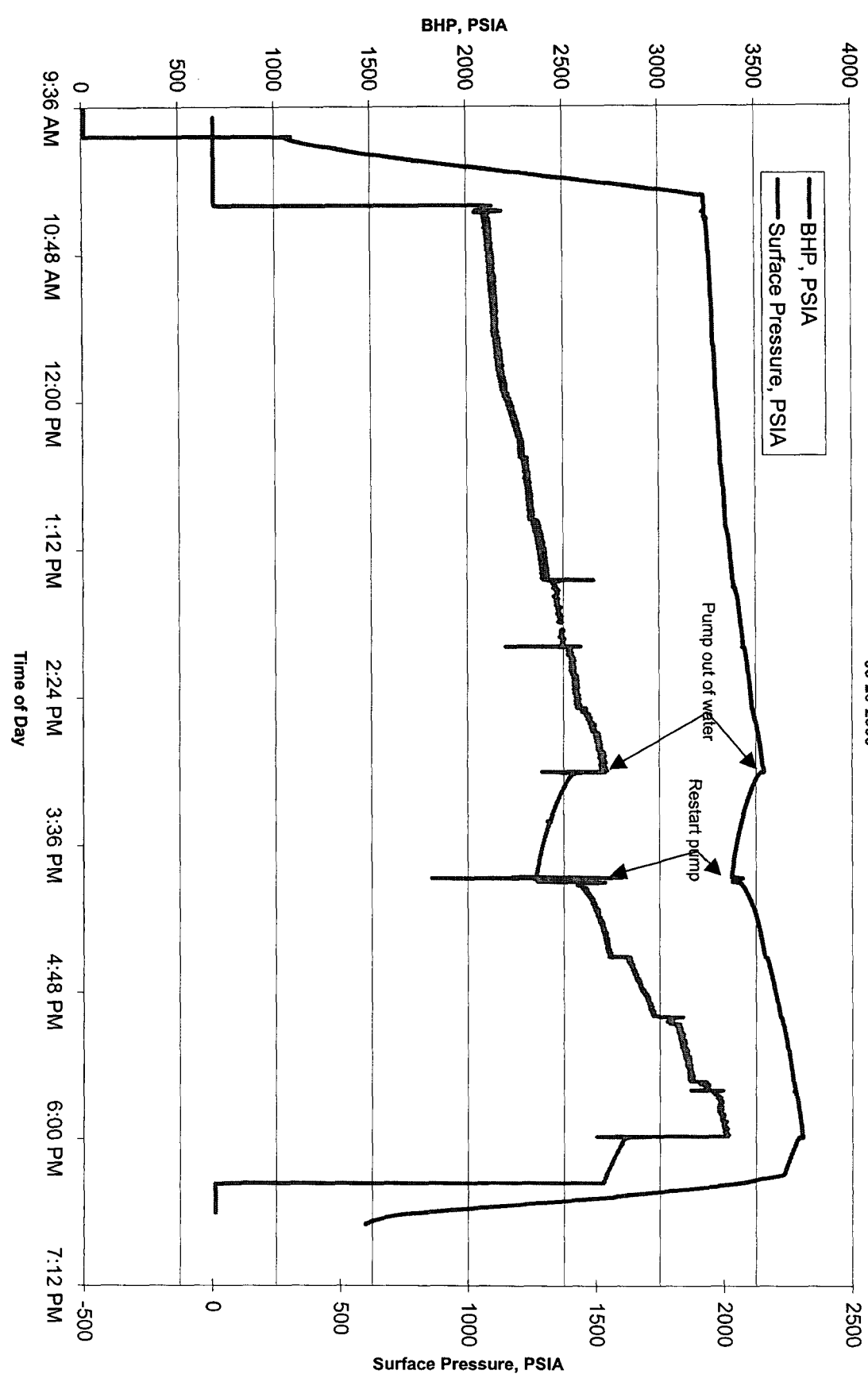


Merit Energy, Mescalero 35-1
Step Rate Test
6-20-2005





Merit Energy, Mescalero 35-1
Step Rate Test
06-20-2005



Step Rate Test

Merit Energy
Mescalero 35-1
Lea County, NM
6/20/2005



S Time	E Time	D Time	Last Rate	Step	Last BHP	Last Surf	Cum	Delta	lower	upper
		Min	BPD	BPD	PSIA	PSIA	BBL	BBL		
10:20 AM	10:30	10	0	0	3238	1050	0	0		
10:30 AM	11:00	30	100	100	3266	1087	2.1	2.1		
11:00 AM	11:30	30	200	100	3281	1091	5.1	3		
11:30 AM	12:00	30	300	100	3299	1139	10.6	5.5		
12:00 PM	12:03	30	400	100	3318	1204	18.1	7.5		
12:30 PM	1:00	30	600	200	3345	1237	29.1	11		
1:00 PM	1:30	30	800	200	3384	1294	45	15.9		
1:30 PM	2:00	30	1000	200	3434	1352	60	15		
2:00 PM	2:30	30	1200	200	3479	1411	84.9	24.9	3479	
2:30 PM	3:00	30	1400	200	3507	1526	117.4	32.5	3507	
3:00 PM	WAITING	ON WATER	1600		3544	1580			3544	
4:00	4:30	30	1600	200	3544	1580	162	44.6		
4:30 PM	5:00	30	2100	500	3623	1749	206.7	44.7		3623
5:00 PM	5:30	30	2600	500	3689	1851	263.4	56.7		3689
5:30 PM	6:00	30	3100	500	3741	1995	376.6	113.2		3741
6:00 PM	6:15	15	0	0	3649	1524				
6:15 PM	START	OUT	OF	HOLE						

lower 0.1625 3282.5
upper 0.118 3377.5
intersect 2134.83146 BPD
3629.41011 BHP, PSIA

Step Rate Test



Merit Energy
Mescalero 35-1
Lea County, NM
6/20/2005

8:15 AM	ARRIVE LOCATION	
9:50 AM	START IN HOLE	
10:20 AM	TOOL AT 4,850'	
10:30 AM	100 BPD	
11:00 AM	200 BPD	
11:30 AM	300 BPD	
12:00 PM	400 BPD	
12:30 PM	600 BPD	
1:00 PM	800 BPD	
1:30 PM	1000 BPD	
2:00 PM	1200 BPD	
2:30 PM	1400 BPD	
3:00 PM	1600 BPD	RAN OUT OF WATER
4:00 PM	1600 BPD	
4:30 PM	2100 BPD	
5:00 PM	2600 BPD	
5:30 PM	3100 BPD	
6:00 PM	0 BPD	SHUT DOWN PUMP
6:15 PM		START OUT OF HOLE