

DATE IN 11/29/07	SUSPENSE	ENGINEER Jone	LOGGED IN 11/29/07	TYPE IPI 289	APP NO. PKVR0733355134
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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

RECEIVED
2007 NOV 29 PM 3 30



ENGINEERING & PRODUCTION CORP. 2007 NOV 29 PM 3:05
Petroleum Engineering Consulting
Lease Management
Contract Pumping



7415 East Main
Farmington, New Mexico 87402
(505) 327-4892 • Fax: (505) 327-9834

November 28, 2007

Mr. Will Jones
NM Oil and Gas Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Re: Step Rate Injection Test
Rosetta Resources OPERATING LP (OGRD = 239235)
Tsah Tah SWD #36
NW/4 Section 36, T25N, R10W

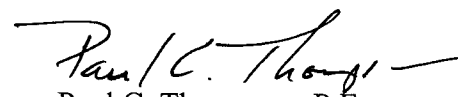
Dear Mr. Jones,

Rosetta Resources performed a step-rate injection test on their Tsah Tah SWD #36 disposal well on November 16, 2007. Based on the results of this test, Rosetta Resources requests an increase in the maximum allowable injection pressure to 1370 psi (50 psi less than the parting pressure), measured at the surface.

Attached as Exhibit #1 is a summary of the injection rates with surface and bottom hole pressures. Exhibit 2 is a plot of rate vs. bottom-hole and surface pressure, which clearly shows the parting pressure. Exhibits #3 and #4 are the raw bottom-hole and surface pressure data.

Please call if you have any questions or need additional data.

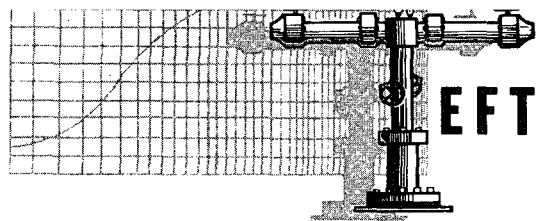
Sincerely,


Paul C. Thompson, P.E.
Agent for Rosetta Resources

cc: Mr. Charlie Perrin, NMOCD
Mr. Charles Campbell, Rosetta

Exhibit #1

			STEP RATE TEST				
			Exhibit #1				
Operator:	Rosetta Resources			Well Name:	Tсах Tah SWD #36		
Date:	16-Nov-07			Report #:	1		
Field:	Mesa Verde		Location:	36/25N/10W	County:	San Juan	State:
Contractor:		Halliburton		Supervisor:	Paul Thompson		
Rate	Average	Average					
BPM	Surface	BHP					
	Pressure						
0.6	368	2042					
1.0	436	2104					
1.5	511	2158					
2.0	606	2223					
2.5	715	2294					
3.0	832	2361					
3.5	953	2435					
4.0	1087	2507					
4.5	1212	2579					
5.0	1362	2638					
5.5	1509	2690					
6.1	1658	2730					
6.5	1783	2776					
6.8	1925	2802					
7.4	2122	2844					
7.9	2249	2895					
ISIP	1150						



BHP • BU • PI • DD • GWT • RFS • GOR • FL • TS

EFTELLER, INC.

reservoir engineering data

FARMINGTON, NEW MEXICO/
GRAND JUNCTION, COLORADO

P. O. Box 1198
Farmington, New Mexico 87499
(505) 325-1731
Fax (505) 325-1148

2332 Interstate Ave., Ste. A
Grand Junction, CO 81505
(970) 241-0403
Fax (970) 241-7634

ROSETTA RESOURCES, INC.

TSAH TAH SWD NO. 36

NOVEMBER 16, 2007

Serving the Rocky Mountain Area

 *
 * EVENT SUMMARY *
 *

COMPANY : ROSETTA RESOURCES, INC.

PAGE : B1

WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date	Time	Test Time	Key Event	Pressure	Temp
MM/DD	hh:mm:ss	mmmmmm.mmmmm		Psig	Deg F
11/16	08:55:00	23.0000	END RATE #10 - 5.0 BPM	.01	59.92
11/16	09:12:00	40.0000	PRESSURED UP LUBRICATOR	3.25	58.04
11/16	09:26:00	54.0000	R.I.H. W/TANDEM ELEC. MEMORY INST.	12.31	57.24
11/16	09:37:30	65.5000	TANDEM ELEC. MEMORY INST. @ 3879'	2005.02	78.88
11/16	09:41:30	69.5000	BEGIN RATE #1 - 0.5 BPM	2011.94	90.83
11/16	10:00:00	88.0000	END RATE #1 - 0.5 BPM	2072.91	98.46
11/16	10:00:15	88.2500	BEGIN RATE #2 - 1.0 BPM	2078.12	98.45
11/16	10:15:00	103.0000	END RATE #2 - 1.0 BPM	2129.08	98.00
11/16	10:15:15	103.2500	BEGIN RATE #3 - 1.5 BPM	2134.86	97.97
11/16	10:28:45	116.7500	END RATE #3 - 1.5 BPM	2180.52	91.87
11/16	10:30:00	118.0000	BEGIN RATE #4 - 2.0 BPM	2187.15	91.05
11/16	10:45:00	133.0000	END RATE #4 - 2.0 BPM	2258.56	79.74
11/16	10:45:15	133.2500	BEGIN RATE #5 - 2.5 BPM	2263.82	79.58
11/16	11:00:00	148.0000	END RATE #5 - 2.5 BPM	2323.85	71.87
11/16	11:00:15	148.2500	BEGIN RATE #6 - 3.0 BPM	2329.68	71.77
11/16	11:15:00	163.0000	END RATE #6 - 3.0 BPM	2392.28	67.75
11/16	11:15:15	163.2500	BEGIN RATE #7 - 3.5 BPM	2400.97	67.71
11/16	11:30:00	178.0000	END RATE #7 - 3.5 BPM	2468.59	65.79
11/16	11:30:15	178.2500	BEGIN RATE #8 - 4.0 BPM	2473.16	65.79
11/16	11:45:00	193.0000	END RATE #8 - 4.0 BPM	2539.86	64.98
11/16	11:45:15	193.2500	BEGIN RATE #9 - 4.5 BPM	2547.21	64.98
11/16	12:00:15	208.2500	END RATE #9 - 4.5 BPM	2611.58	64.48
11/16	12:00:30	208.5000	BEGIN RATE #10 - 5.0 BPM	2614.01	64.43
11/16	12:14:45	222.7500	END RATE #10 - 5.0 BPM	2662.89	61.82
11/16	12:15:00	223.0000	BEGIN RATE #11 - 5.5 BPM	2666.87	61.79
11/16	12:30:00	238.0000	END RATE #11 - 5.5 BPM	2713.58	61.54
11/16	12:31:00	239.0000	BEGIN RATE #12 - 6.0 BPM	2727.00	61.56
11/16	12:44:45	252.7500	END RATE #12 - 6.0 BPM	2751.26	61.94
11/16	12:45:00	253.0000	BEGIN RATE #13 - 6.5 BPM	2759.67	61.95
11/16	13:00:00	268.0000	END RATE #13 - 6.5 BPM	2791.82	62.59
11/16	13:00:15	268.2500	BEGIN RATE #14 - 7.0 BPM	2799.15	62.61
11/16	13:15:00	283.0000	END RATE #14 - 7.0 BPM	2805.36	64.63
11/16	13:15:30	283.5000	BEGIN RATE #15 - 7.5 BPM	2807.50	64.64
11/16	13:40:00	308.0000	END RATE #15 - 7.5 BPM	2880.80	62.93
11/16	13:40:15	308.2500	BEGIN RATE #16 - 8.0 BPM	2882.94	62.93
11/16	13:55:00	323.0000	END RATE #16 - 8.0 BPM	2906.19	63.78
11/16	13:55:15	323.2500	BEGIN FALL-OFF TEST	2880.69	63.80
11/16	14:00:00	328.0000	5 MINUTES	2761.98	64.62
11/16	14:05:00	333.0000	10 MINUTES	2710.26	66.91
11/16	14:10:00	338.0000	15 MINUTES	2673.34	68.56
11/16	14:12:00	340.0000	TANDEM ELEC. MEMORY INST. OFF BOTTOM	2660.33	69.02

COMPANY: ROSETTA RESOURCES, INC.

PAGE 1 OF 21

WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date	Time	Test Time	Pressure	Temp	deltap	Comment
MM/DD	hh:mm:ss	mmmmmm.mmmmm	Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Psi Atm.
11/16	08:32:00	.0000	.01	59.44		
11/16	08:34:15	2.2500	.01	59.44	.00	
11/16	08:34:30	2.5000	.01	59.49	.00	
11/16	08:34:45	2.7500	.01	59.54	.00	
11/16	08:35:00	3.0000	.01	59.59	.00	
11/16	08:35:15	3.2500	.01	59.64	.00	
11/16	08:35:30	3.5000	.01	59.69	.00	
11/16	08:35:45	3.7500	.01	59.75	.00	
11/16	08:36:00	4.0000	.01	59.82	.00	
11/16	08:36:15	4.2500	.01	59.88	.00	
11/16	08:36:30	4.5000	.01	59.93	.00	
11/16	08:36:45	4.7500	.01	59.98	.00	
11/16	08:37:00	5.0000	.01	60.04	.00	
11/16	08:38:00	6.0000	.01	60.31	.00	
11/16	08:39:00	7.0000	.01	60.55	.00	
11/16	08:40:00	8.0000	.01	60.79	.00	
11/16	08:41:00	9.0000	.01	61.03	.00	
11/16	08:42:00	10.0000	.01	61.18	.00	
11/16	08:43:00	11.0000	.01	61.19	.00	
11/16	08:44:00	12.0000	.01	61.21	.00	
11/16	08:45:00	13.0000	.01	61.22	.00	
11/16	08:46:00	14.0000	.01	61.17	.00	
11/16	08:47:00	15.0000	.01	61.04	.00	
11/16	08:48:00	16.0000	.01	60.91	.00	
11/16	08:49:00	17.0000	.01	60.77	.00	
11/16	08:50:00	18.0000	.01	60.64	.00	
11/16	08:51:00	19.0000	.01	60.49	.00	
11/16	08:52:00	20.0000	.01	60.33	.00	
11/16	08:53:00	21.0000	.01	60.19	.00	
11/16	08:54:00	22.0000	.01	60.05	.00	
11/16	08:55:00	23.0000	.01	59.92	.00	END RATE #10 - 5.0 BPM
11/16	08:56:00	24.0000	.01	59.80	.00	
11/16	08:57:00	25.0000	.01	59.67	.00	
11/16	08:58:00	26.0000	.01	59.59	.00	
11/16	08:59:00	27.0000	.01	59.50	.00	
11/16	09:00:00	28.0000	.01	59.40	.00	
11/16	09:01:00	29.0000	.01	59.30	.00	
11/16	09:02:00	30.0000	.01	59.19	.00	
11/16	09:03:00	31.0000	.01	59.04	.00	
11/16	09:04:00	32.0000	.01	58.87	.00	
11/16	09:05:00	33.0000	.01	58.71	.00	
11/16	09:06:00	34.0000	.01	58.59	.00	
11/16	09:07:00	35.0000	.01	58.48	.00	
11/16	09:08:00	36.0000	.01	58.38	.00	
11/16	09:09:00	37.0000	.01	58.27	.00	
11/16	09:10:00	38.0000	.01	58.20	.00	
11/16	09:11:00	39.0000	.01	58.12	.00	
11/16	09:12:00	40.0000	3.25	58.04	3.24	PRESSURED UP LUBRICATOR
11/16	09:12:15	40.2500	15.47	58.02	12.22	
11/16	09:12:30	40.5000	100.93	58.00	85.46	
11/16	09:12:45	40.7500	320.96	57.98	220.03	
11/16	09:13:00	41.0000	221.09	57.96	-99.86	
11/16	09:13:15	41.2500	71.33	57.95	-149.76	
11/16	09:13:30	41.5000	26.52	57.93	-44.80	
11/16	09:13:45	41.7500	13.86	57.91	-12.66	
11/16	09:14:00	42.0000	7.45	57.89	-6.41	
11/16	09:14:15	42.2500	3.47	57.88	-3.99	
11/16	09:14:30	42.5000	.61	57.85	-2.86	
11/16	09:14:45	42.7500	.01	57.83	-.60	
11/16	09:15:00	43.0000	.01	57.82	.00	
11/16	09:15:15	43.2500	.01	57.81	.00	
11/16	09:15:30	43.5000	.01	57.80	.00	
11/16	09:15:45	43.7500	.01	57.79	.00	
11/16	09:16:00	44.0000	.01	57.78	.00	
11/16	09:16:15	44.2500	.01	57.76	.00	

WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date	Time	Test Time	Pressure	Temp	deltaP	Comment
MM/DD	hh:mm:ss	mmmmmm.mmmm	Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Psi Atm.
11/16	09:16:30	44.5000	22.61	57.75	22.60	
11/16	09:16:45	44.7500	138.65	57.73	116.04	
11/16	09:17:00	45.0000	305.92	57.72	167.27	
11/16	09:17:15	45.2500	310.33	57.71	4.41	
11/16	09:17:30	45.5000	310.33	57.69	.00	
11/16	09:17:45	45.7500	310.33	57.68	.00	
11/16	09:18:00	46.0000	310.33	57.67	.00	
11/16	09:18:15	46.2500	310.34	57.65	.01	
11/16	09:18:30	46.5000	310.33	57.65	-.01	
11/16	09:18:45	46.7500	310.41	57.65	.08	
11/16	09:19:00	47.0000	310.52	57.64	.11	
11/16	09:19:15	47.2500	310.59	57.63	.07	
11/16	09:19:30	47.5000	92.82	57.63	-217.77	
11/16	09:19:45	47.7500	29.95	57.62	-62.86	
11/16	09:20:00	48.0000	15.16	57.61	-14.79	
11/16	09:20:15	48.2500	8.19	57.61	-6.97	
11/16	09:20:30	48.5000	1.93	57.60	-6.26	
11/16	09:20:45	48.7500	.01	57.59	-1.92	
11/16	09:21:00	49.0000	.01	57.59	.00	
11/16	09:21:15	49.2500	.01	57.58	.00	
11/16	09:21:30	49.5000	.01	57.55	.00	
11/16	09:21:45	49.7500	.01	57.53	.00	
11/16	09:22:00	50.0000	.01	57.51	.00	
11/16	09:22:15	50.2500	.01	57.49	.00	
11/16	09:22:30	50.5000	.01	57.47	.00	
11/16	09:22:45	50.7500	.01	57.45	.00	
11/16	09:23:00	51.0000	.01	57.43	.00	
11/16	09:23:15	51.2500	.01	57.41	.00	
11/16	09:23:30	51.5000	.01	57.39	.00	
11/16	09:23:45	51.7500	.01	57.37	.00	
11/16	09:24:00	52.0000	.01	57.35	.00	
11/16	09:24:15	52.2500	.01	57.33	.00	
11/16	09:24:30	52.5000	.01	57.32	.00	
11/16	09:24:45	52.7500	.01	57.30	.00	
11/16	09:25:00	53.0000	.01	57.29	.00	
11/16	09:25:15	53.2500	.01	57.28	.00	
11/16	09:25:30	53.5000	.01	57.26	.00	
11/16	09:25:45	53.7500	.37	57.26	.36	
11/16	09:26:00	54.0000	12.31	57.24	11.94	R.I.H. W/TANDEM ELEC. MEMORY INST.
11/16	09:26:15	54.2500	314.14	57.23	301.83	
11/16	09:26:30	54.5000	308.02	57.22	-6.12	
11/16	09:26:45	54.7500	312.00	57.20	3.98	
11/16	09:27:00	55.0000	331.63	57.19	19.63	
11/16	09:27:15	55.2500	347.57	57.21	15.94	
11/16	09:27:30	55.5000	362.82	57.29	15.25	
11/16	09:27:45	55.7500	386.76	57.38	23.93	
11/16	09:28:00	56.0000	411.68	57.47	24.93	
11/16	09:28:15	56.2500	431.49	57.55	19.81	
11/16	09:28:30	56.5000	453.58	57.64	22.09	
11/16	09:28:45	56.7500	482.21	57.73	28.63	
11/16	09:29:00	57.0000	514.82	57.81	32.61	
11/16	09:29:15	57.2500	549.57	57.90	34.75	
11/16	09:29:30	57.5000	585.89	57.99	36.32	
11/16	09:29:45	57.7500	621.50	58.08	35.61	
11/16	09:30:00	58.0000	657.96	58.16	36.46	
11/16	09:30:15	58.2500	694.74	58.37	36.78	
11/16	09:30:30	58.5000	735.42	58.75	40.68	
11/16	09:30:45	58.7500	776.23	59.13	40.82	
11/16	09:31:00	59.0000	816.91	59.52	40.67	
11/16	09:31:15	59.2500	855.58	59.90	38.68	
11/16	09:31:30	59.5000	895.40	60.29	39.81	
11/16	09:31:45	59.7500	934.07	60.67	38.67	
11/16	09:32:00	60.0000	972.59	61.06	38.53	
11/16	09:32:15	60.2500	1013.39	61.44	40.80	
11/16	09:32:30	60.5000	1054.05	61.83	40.65	

COMPANY: ROSETTA RESOURCES, INC.

PAGE 3 OF 21

WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date MM/DD	Time hh:mm:ss	Test Time mmmmmm.mmmmm	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
11/16	09:32:45	60.7500	1099.26	62.21	45.21	
11/16	09:33:00	61.0000	1144.74	62.60	45.49	
11/16	09:33:15	61.2500	1189.28	63.20	44.54	
11/16	09:33:30	61.5000	1232.17	64.09	42.88	
11/16	09:33:45	61.7500	1279.59	64.97	47.42	
11/16	09:34:00	62.0000	1328.00	65.86	48.41	
11/16	09:34:15	62.2500	1377.39	66.74	49.39	
11/16	09:34:30	62.5000	1428.19	67.63	50.80	
11/16	09:34:45	62.7500	1480.55	68.51	52.35	
11/16	09:35:00	63.0000	1533.60	69.40	53.05	
11/16	09:35:15	63.2500	1589.20	70.28	55.60	
11/16	09:35:30	63.5000	1640.24	71.17	51.04	
11/16	09:35:45	63.7500	1694.25	72.06	54.01	
11/16	09:36:00	64.0000	1748.81	72.95	54.56	
11/16	09:36:15	64.2500	1791.86	74.02	43.05	
11/16	09:36:30	64.5000	1837.02	74.99	45.16	
11/16	09:36:45	64.7500	1886.43	75.96	49.41	
11/16	09:37:00	65.0000	1934.97	76.93	48.54	
11/16	09:37:15	65.2500	1975.40	77.90	40.43	
11/16	09:37:30	65.5000	2005.02	78.88	29.62	TANDEM ELEC. MEMORY INST. @ 3879'
11/16	09:37:45	65.7500	2005.51	79.86	.49	
11/16	09:38:00	66.0000	2005.53	80.83	.02	
11/16	09:38:15	66.2500	2005.56	81.81	.03	
11/16	09:38:30	66.5000	2005.60	82.78	.04	
11/16	09:38:45	66.7500	2005.65	83.76	.05	
11/16	09:39:00	67.0000	2005.71	84.74	.06	
11/16	09:39:15	67.2500	2005.78	85.53	.07	
11/16	09:39:30	67.5000	2006.37	86.11	.59	
11/16	09:39:45	67.7500	2006.76	86.70	.38	
11/16	09:40:00	68.0000	2005.22	87.29	-1.54	
11/16	09:40:15	68.2500	2005.56	87.88	.33	
11/16	09:40:30	68.5000	2006.46	88.46	.91	
11/16	09:40:45	68.7500	2006.69	89.06	.22	
11/16	09:41:00	69.0000	2007.06	89.64	.37	
11/16	09:41:15	69.2500	2007.45	90.23	.39	
11/16	09:41:30	69.5000	2011.94	90.83	4.48	BEGIN RATE #1 - 0.5 BPM
11/16	09:41:45	69.7500	2018.49	91.41	6.55	
11/16	09:42:00	70.0000	2024.04	92.00	5.56	
11/16	09:42:15	70.2500	2024.44	92.42	.40	
11/16	09:42:30	70.5000	2026.63	92.74	2.19	
11/16	09:42:45	70.7500	2028.20	93.05	1.57	
11/16	09:43:00	71.0000	2029.49	93.37	1.29	
11/16	09:43:15	71.2500	2031.06	93.68	1.57	
11/16	09:43:30	71.5000	2032.35	93.99	1.29	
11/16	09:43:45	71.7500	2032.82	94.30	.46	
11/16	09:44:00	72.0000	2035.07	94.61	2.26	
11/16	09:44:15	72.2500	2035.39	94.93	.31	
11/16	09:44:30	72.5000	2037.37	95.24	1.98	
11/16	09:44:45	72.7500	2037.68	95.55	.31	
11/16	09:45:00	73.0000	2039.66	95.87	1.98	
11/16	09:45:15	73.2500	2039.97	96.07	.31	
11/16	09:45:30	73.5000	2041.66	96.22	1.69	
11/16	09:45:45	73.7500	2041.89	96.36	.23	
11/16	09:46:00	74.0000	2043.37	96.49	1.48	
11/16	09:46:15	74.2500	2043.60	96.63	.23	
11/16	09:46:30	74.5000	2045.22	96.77	1.62	
11/16	09:46:45	74.7500	2045.37	96.91	.16	
11/16	09:47:00	75.0000	2046.45	97.05	1.07	
11/16	09:47:15	75.2500	2046.80	97.19	.35	
11/16	09:47:30	75.5000	2047.54	97.33	.74	
11/16	09:47:45	75.7500	2048.60	97.47	1.06	
11/16	09:48:00	76.0000	2049.45	97.61	.85	
11/16	09:48:15	76.2500	2050.24	97.70	.79	
11/16	09:48:30	76.5000	2050.94	97.72	.70	
11/16	09:48:45	76.7500	2051.58	97.75	.64	

WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date MM/DD	Time hh:mm:ss	Test Time mmmmmm.mmmm	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
11/16	09:49:00	77.0000	2052.44	97.78	.86	
11/16	09:49:15	77.2500	2053.13	97.81	.69	
11/16	09:49:30	77.5000	2053.70	97.83	.57	
11/16	09:49:45	77.7500	2054.34	97.86	.63	
11/16	09:50:00	78.0000	2055.40	97.89	1.06	
11/16	09:50:15	78.2500	2055.67	97.92	.27	
11/16	09:50:30	78.5000	2056.35	97.95	.68	
11/16	09:50:45	78.7500	2056.60	97.97	.25	
11/16	09:51:00	79.0000	2057.11	98.00	.51	
11/16	09:51:15	79.2500	2058.34	98.00	1.23	
11/16	09:51:30	79.5000	2058.65	98.00	.31	
11/16	09:51:45	79.7500	2059.43	98.00	.78	
11/16	09:52:00	80.0000	2059.71	98.01	.28	
11/16	09:52:15	80.2500	2060.35	98.01	.64	
11/16	09:52:30	80.5000	2060.48	98.01	.13	
11/16	09:52:45	80.7500	2060.79	98.01	.31	
11/16	09:53:00	81.0000	2061.42	98.01	.63	
11/16	09:53:15	81.2500	2061.99	98.01	.57	
11/16	09:53:30	81.5000	2062.79	98.02	.81	
11/16	09:53:45	81.7500	2062.96	98.02	.17	
11/16	09:54:00	82.0000	2063.33	98.02	.37	
11/16	09:54:15	82.2500	2063.89	98.06	.56	
11/16	09:54:30	82.5000	2064.32	98.08	.43	
11/16	09:54:45	82.7500	2065.06	98.11	.74	
11/16	09:55:00	83.0000	2065.23	98.14	.17	
11/16	09:55:15	83.2500	2065.85	98.17	.62	
11/16	09:55:30	83.5000	2066.00	98.20	.16	
11/16	09:55:45	83.7500	2066.59	98.23	.58	
11/16	09:56:00	84.0000	2066.79	98.26	.20	
11/16	09:56:15	84.2500	2067.09	98.29	.30	
11/16	09:56:30	84.5000	2067.86	98.31	.77	
11/16	09:56:45	84.7500	2067.99	98.34	.13	
11/16	09:57:00	85.0000	2068.23	98.37	.23	
11/16	09:57:15	85.2500	2068.94	98.40	.72	
11/16	09:57:30	85.5000	2069.12	98.40	.18	
11/16	09:57:45	85.7500	2069.37	98.40	.25	
11/16	09:58:00	86.0000	2070.22	98.41	.85	
11/16	09:58:15	86.2500	2070.39	98.42	.18	
11/16	09:58:30	86.5000	2070.57	98.43	.17	
11/16	09:58:45	86.7500	2071.35	98.43	.78	
11/16	09:59:00	87.0000	2071.52	98.44	.17	
11/16	09:59:15	87.2500	2071.83	98.45	.31	
11/16	09:59:30	87.5000	2071.96	98.45	.12	
11/16	09:59:45	87.7500	2072.19	98.46	.23	
11/16	10:00:00	88.0000	2072.91	98.46	.72	END RATE #1 - 0.5 BPM
11/16	10:00:15	88.2500	2078.12	98.45	5.21	BEGIN RATE #2 - 1.0 BPM
11/16	10:00:30	88.5000	2081.37	98.44	3.25	
11/16	10:00:45	88.7500	2082.93	98.43	1.56	
11/16	10:01:00	89.0000	2084.77	98.41	1.84	
11/16	10:01:15	89.2500	2086.18	98.40	1.42	
11/16	10:01:30	89.5000	2088.45	98.38	2.26	
11/16	10:01:45	89.7500	2090.99	98.36	2.55	
11/16	10:02:00	90.0000	2092.69	98.35	1.70	
11/16	10:02:15	90.2500	2093.97	98.33	1.27	
11/16	10:02:30	90.5000	2095.38	98.32	1.41	
11/16	10:02:45	90.7500	2095.98	98.31	.60	
11/16	10:03:00	91.0000	2096.29	98.29	.31	
11/16	10:03:15	91.2500	2098.35	98.27	2.07	
11/16	10:03:30	91.5000	2097.98	98.25	-.38	
11/16	10:03:45	91.7500	2099.91	98.23	1.93	
11/16	10:04:00	92.0000	2099.76	98.21	-.15	
11/16	10:04:15	92.2500	2101.89	98.19	2.13	
11/16	10:04:30	92.5000	2101.81	98.17	-.08	
11/16	10:04:45	92.7500	2104.57	98.15	2.76	
11/16	10:05:00	93.0000	2104.56	98.13	-.01	

WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date	Time	Test Time	Pressure	Temp	deltaP	Comment
MM/DD	hh:mm:ss	mmmmmm.mmmmm	Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Psi Atm.
11/16	10:05:15	93.2500	2104.42	98.11	-.14	
11/16	10:05:30	93.5000	2107.26	98.09	2.84	
11/16	10:05:45	93.7500	2107.41	98.07	.15	
11/16	10:06:00	94.0000	2107.99	98.05	.58	
11/16	10:06:15	94.2500	2108.77	98.05	.77	
11/16	10:06:30	94.5000	2110.52	98.05	1.75	
11/16	10:06:45	94.7500	2109.99	98.05	-.53	
11/16	10:07:00	95.0000	2111.23	98.06	1.23	
11/16	10:07:15	95.2500	2111.30	98.06	.07	
11/16	10:07:30	95.5000	2111.82	98.06	.52	
11/16	10:07:45	95.7500	2114.06	98.06	2.24	
11/16	10:08:00	96.0000	2113.46	98.06	-.60	
11/16	10:08:15	96.2500	2115.19	98.06	1.73	
11/16	10:08:30	96.5000	2114.74	98.07	-.45	
11/16	10:08:45	96.7500	2116.89	98.07	2.15	
11/16	10:09:00	97.0000	2116.51	98.07	-.38	
11/16	10:09:15	97.2500	2117.88	98.08	1.37	
11/16	10:09:30	97.5000	2118.03	98.09	.15	
11/16	10:09:45	97.7500	2118.01	98.10	-.02	
11/16	10:10:00	98.0000	2120.00	98.11	1.99	
11/16	10:10:15	98.2500	2119.93	98.11	-.07	
11/16	10:10:30	98.5000	2121.13	98.12	1.21	
11/16	10:10:45	98.7500	2121.21	98.13	.07	
11/16	10:11:00	99.0000	2120.75	98.13	-.46	
11/16	10:11:15	99.2500	2120.74	98.14	-.02	
11/16	10:11:30	99.5000	2122.55	98.15	1.81	
11/16	10:11:45	99.7500	2123.82	98.15	1.27	
11/16	10:12:00	100.0000	2123.23	98.16	-.60	
11/16	10:12:15	100.2500	2122.92	98.15	-.31	
11/16	10:12:30	100.5000	2124.67	98.14	1.76	
11/16	10:12:45	100.7500	2124.97	98.13	.30	
11/16	10:13:00	101.0000	2124.79	98.11	-.18	
11/16	10:13:15	101.2500	2126.23	98.10	1.44	
11/16	10:13:30	101.5000	2126.34	98.08	.11	
11/16	10:13:45	101.7500	2126.34	98.07	.01	
11/16	10:14:00	102.0000	2128.35	98.06	2.01	
11/16	10:14:15	102.2500	2127.83	98.04	-.53	
11/16	10:14:30	102.5000	2129.34	98.03	1.52	
11/16	10:14:45	102.7500	2129.08	98.01	-.26	
11/16	10:15:00	103.0000	2129.08	98.00	-.00	END RATE #2 - 1.0 BPM
11/16	10:15:15	103.2500	2134.86	97.97	5.78	BEGIN RATE #3 - 1.5 BPM
11/16	10:15:30	103.5000	2138.82	97.93	3.96	
11/16	10:15:45	103.7500	2142.65	97.88	3.82	
11/16	10:16:00	104.0000	2145.62	97.83	2.97	
11/16	10:16:15	104.2500	2148.02	97.79	2.41	
11/16	10:16:30	104.5000	2149.58	97.74	1.56	
11/16	10:16:45	104.7500	2147.45	97.70	-2.13	
11/16	10:17:00	105.0000	2152.69	97.65	5.24	
11/16	10:17:15	105.2500	2149.86	97.61	-2.83	
11/16	10:17:30	105.5000	2155.24	97.56	5.38	
11/16	10:17:45	105.7500	2152.83	97.52	-2.41	
11/16	10:18:00	106.0000	2157.93	97.47	5.09	
11/16	10:18:15	106.2500	2156.08	97.40	-1.84	
11/16	10:18:30	106.5000	2157.36	97.31	1.27	
11/16	10:18:45	106.7500	2161.32	97.22	3.96	
11/16	10:19:00	107.0000	2158.34	97.13	-2.98	
11/16	10:19:15	107.2500	2163.44	97.03	5.10	
11/16	10:19:30	107.5000	2161.46	96.94	-1.98	
11/16	10:19:45	107.7500	2161.98	96.84	.52	
11/16	10:20:00	108.0000	2162.90	96.75	.92	
11/16	10:20:15	108.2500	2160.75	96.65	-2.15	
11/16	10:20:30	108.5000	2164.85	96.56	4.10	
11/16	10:20:45	108.7500	2161.88	96.47	-2.98	
11/16	10:21:00	109.0000	2164.85	96.38	2.97	
11/16	10:21:15	109.2500	2166.12	96.26	1.27	

COMPANY: ROSETTA RESOURCES, INC.

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WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date MM/DD	Time hh:mm:ss	Test Time mmmmmm.mmmmm	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
11/16	10:21:30	109.5000	2164.56	96.13	-1.56	
11/16	10:21:45	109.7500	2164.63	96.00	.07	
11/16	10:22:00	110.0000	2168.52	95.87	3.89	
11/16	10:22:15	110.2500	2167.92	95.74	-.60	
11/16	10:22:30	110.5000	2167.01	95.61	-.91	
11/16	10:22:45	110.7500	2170.64	95.47	3.63	
11/16	10:23:00	111.0000	2170.19	95.34	-.45	
11/16	10:23:15	111.2500	2169.41	95.21	-.78	
11/16	10:23:30	111.5000	2170.49	95.08	1.08	
11/16	10:23:45	111.7500	2173.18	94.95	2.69	
11/16	10:24:00	112.0000	2173.48	94.82	.30	
11/16	10:24:15	112.2500	2173.29	94.68	-.19	
11/16	10:24:30	112.5000	2174.73	94.53	1.44	
11/16	10:24:45	112.7500	2175.02	94.38	.29	
11/16	10:25:00	113.0000	2175.02	94.22	-.00	
11/16	10:25:15	113.2500	2174.89	94.07	-.13	
11/16	10:25:30	113.5000	2174.89	93.92	-.00	
11/16	10:25:45	113.7500	2174.88	93.78	-.01	
11/16	10:26:00	114.0000	2175.08	93.61	.20	
11/16	10:26:15	114.2500	2175.58	93.46	.50	
11/16	10:26:30	114.5000	2176.22	93.31	.64	
11/16	10:26:45	114.7500	2176.93	93.16	.71	
11/16	10:27:00	115.0000	2177.63	93.01	.71	
11/16	10:27:15	115.2500	2178.49	92.85	.86	
11/16	10:27:30	115.5000	2180.51	92.69	2.02	
11/16	10:27:45	115.7500	2182.21	92.53	1.70	
11/16	10:28:00	116.0000	2181.83	92.36	-.38	
11/16	10:28:15	116.2500	2180.56	92.20	-1.27	
11/16	10:28:30	116.5000	2180.21	92.04	-.35	
11/16	10:28:45	116.7500	2180.52	91.87	.31	END RATE #3 - 1.5 BPM
11/16	10:29:00	117.0000	2183.19	91.70	2.67	
11/16	10:29:15	117.2500	2185.74	91.54	2.55	
11/16	10:29:30	117.5000	2185.51	91.38	-.23	
11/16	10:29:45	117.7500	2183.18	91.21	-2.33	
11/16	10:30:00	118.0000	2187.15	91.05	3.97	BEGIN RATE #4 - 2.0 BPM
11/16	10:30:15	118.2500	2192.25	90.88	5.10	
11/16	10:30:30	118.5000	2195.65	90.69	3.40	
11/16	10:30:45	118.7500	2198.77	90.51	3.12	
11/16	10:31:00	119.0000	2200.47	90.32	1.70	
11/16	10:31:15	119.2500	2202.73	90.14	2.27	
11/16	10:31:30	119.5000	2204.01	89.95	1.27	
11/16	10:31:45	119.7500	2205.85	89.76	1.84	
11/16	10:32:00	120.0000	2207.55	89.57	1.70	
11/16	10:32:15	120.2500	2209.10	89.39	1.56	
11/16	10:32:30	120.5000	2210.38	89.20	1.27	
11/16	10:32:45	120.7500	2210.98	89.02	.60	
11/16	10:33:00	121.0000	2212.79	88.83	1.81	
11/16	10:33:15	121.2500	2214.63	88.62	1.84	
11/16	10:33:30	121.5000	2216.04	88.42	1.42	
11/16	10:33:45	121.7500	2216.42	88.21	.37	
11/16	10:34:00	122.0000	2218.02	88.01	1.61	
11/16	10:34:15	122.2500	2219.73	87.81	1.70	
11/16	10:34:30	122.5000	2220.25	87.61	.52	
11/16	10:34:45	122.7500	2221.09	87.40	.84	
11/16	10:35:00	123.0000	2223.12	87.20	2.03	
11/16	10:35:15	123.2500	2223.57	86.99	.45	
11/16	10:35:30	123.5000	2224.50	86.79	.92	
11/16	10:35:45	123.7500	2226.38	86.59	1.88	
11/16	10:36:00	124.0000	2226.75	86.39	.37	
11/16	10:36:15	124.2500	2227.61	86.17	.86	
11/16	10:36:30	124.5000	2229.64	85.98	2.03	
11/16	10:36:45	124.7500	2229.86	85.79	.22	
11/16	10:37:00	125.0000	2231.48	85.60	1.62	
11/16	10:37:15	125.2500	2231.85	85.40	.37	
11/16	10:37:30	125.5000	2232.79	85.21	.93	

WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date MM/DD	Time hh:mm:ss	Test Time mmmmmm.mmmmm	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
11/16	10:37:45	125.7500	2233.92	85.01	1.13	
11/16	10:38:00	126.0000	2234.68	84.82	.76	
11/16	10:38:15	126.2500	2236.44	84.62	1.76	
11/16	10:38:30	126.5000	2236.81	84.43	.37	
11/16	10:38:45	126.7500	2237.45	84.24	.63	
11/16	10:39:00	127.0000	2239.13	84.05	1.69	
11/16	10:39:15	127.2500	2239.28	83.87	.15	
11/16	10:39:30	127.5000	2239.86	83.68	.58	
11/16	10:39:45	127.7500	2241.54	83.50	1.68	
11/16	10:40:00	128.0000	2242.07	83.32	.52	
11/16	10:40:15	128.2500	2243.13	83.13	1.07	
11/16	10:40:30	128.5000	2244.19	82.95	1.06	
11/16	10:40:45	128.7500	2245.11	82.77	.92	
11/16	10:41:00	129.0000	2245.96	82.58	.85	
11/16	10:41:15	129.2500	2246.83	82.40	.87	
11/16	10:41:30	129.5000	2247.00	82.22	.17	
11/16	10:41:45	129.7500	2247.44	82.03	.44	
11/16	10:42:00	130.0000	2248.00	81.85	.56	
11/16	10:42:15	130.2500	2248.43	81.66	.43	
11/16	10:42:30	130.5000	2249.08	81.49	.65	
11/16	10:42:45	130.7500	2250.00	81.31	.93	
11/16	10:43:00	131.0000	2250.77	81.14	.77	
11/16	10:43:15	131.2500	2251.26	80.96	.49	
11/16	10:43:30	131.5000	2252.88	80.79	1.62	
11/16	10:43:45	131.7500	2253.03	80.61	.15	
11/16	10:44:00	132.0000	2253.62	80.44	.58	
11/16	10:44:15	132.2500	2254.39	80.26	.78	
11/16	10:44:30	132.5000	2254.95	80.09	.56	
11/16	10:44:45	132.7500	2255.75	79.91	.80	
11/16	10:45:00	133.0000	2258.56	79.74	2.81	END RATE #4 - 2.0 BPM
11/16	10:45:15	133.2500	2263.82	79.58	5.26	BEGIN RATE #5 - 2.5 BPM
11/16	10:45:30	133.5000	2266.66	79.42	2.84	
11/16	10:45:45	133.7500	2268.79	79.26	2.13	
11/16	10:46:00	134.0000	2270.92	79.10	2.13	
11/16	10:46:15	134.2500	2272.77	78.95	1.85	
11/16	10:46:30	134.5000	2274.76	78.79	1.99	
11/16	10:46:45	134.7500	2276.18	78.62	1.42	
11/16	10:47:00	135.0000	2277.89	78.47	1.71	
11/16	10:47:15	135.2500	2279.17	78.31	1.28	
11/16	10:47:30	135.5000	2280.73	78.15	1.56	
11/16	10:47:45	135.7500	2282.29	77.99	1.56	
11/16	10:48:00	136.0000	2282.89	77.84	.60	
11/16	10:48:15	136.2500	2284.85	77.69	1.96	
11/16	10:48:30	136.5000	2285.30	77.54	.45	
11/16	10:48:45	136.7500	2287.13	77.40	1.82	
11/16	10:49:00	137.0000	2288.41	77.25	1.28	
11/16	10:49:15	137.2500	2288.86	77.10	.45	
11/16	10:49:30	137.5000	2290.68	76.96	1.82	
11/16	10:49:45	137.7500	2291.28	76.82	.60	
11/16	10:50:00	138.0000	2293.10	76.67	1.81	
11/16	10:50:15	138.2500	2293.70	76.52	.60	
11/16	10:50:30	138.5000	2294.69	76.38	.99	
11/16	10:50:45	138.7500	2296.37	76.24	1.68	
11/16	10:51:00	139.0000	2296.82	76.08	.45	
11/16	10:51:15	139.2500	2297.60	75.96	.78	
11/16	10:51:30	139.5000	2298.31	75.83	.71	
11/16	10:51:45	139.7500	2299.17	75.70	.86	
11/16	10:52:00	140.0000	2300.36	75.57	1.19	
11/16	10:52:15	140.2500	2300.65	75.44	.28	
11/16	10:52:30	140.5000	2301.16	75.31	.51	
11/16	10:52:45	140.7500	2302.02	75.19	.86	
11/16	10:53:00	141.0000	2302.79	75.06	.77	
11/16	10:53:15	141.2500	2303.51	74.93	.72	
11/16	10:53:30	141.5000	2304.29	74.80	.78	
11/16	10:53:45	141.7500	2305.00	74.67	.71	

COMPANY: ROSETTA RESOURCES, INC.

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WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date MM/DD	Time hh:mm:ss	Test Time mmmmmm.mmmm	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
11/16	10:54:00	142.0000	2305.86	74.54	.86	
11/16	10:54:15	142.2500	2306.63	74.43	.77	
11/16	10:54:30	142.5000	2307.27	74.30	.64	
11/16	10:54:45	142.7500	2308.14	74.19	.86	
11/16	10:55:00	143.0000	2308.98	74.06	.85	
11/16	10:55:15	143.2500	2309.85	73.95	.86	
11/16	10:55:30	143.5000	2310.69	73.82	.85	
11/16	10:55:45	143.7500	2311.40	73.71	.71	
11/16	10:56:00	144.0000	2312.46	73.59	1.05	
11/16	10:56:15	144.2500	2312.74	73.47	.28	
11/16	10:56:30	144.5000	2313.25	73.35	.51	
11/16	10:56:45	144.7500	2314.04	73.23	.79	
11/16	10:57:00	145.0000	2314.67	73.11	.63	
11/16	10:57:15	145.2500	2315.32	73.00	.65	
11/16	10:57:30	145.5000	2315.95	72.90	.63	
11/16	10:57:45	145.7500	2316.68	72.79	.73	
11/16	10:58:00	146.0000	2317.53	72.69	.85	
11/16	10:58:15	146.2500	2318.17	72.59	.64	
11/16	10:58:30	146.5000	2318.73	72.49	.57	
11/16	10:58:45	146.7500	2319.38	72.38	.65	
11/16	10:59:00	147.0000	2320.24	72.28	.86	
11/16	10:59:15	147.2500	2321.01	72.18	.77	
11/16	10:59:30	147.5000	2321.89	72.07	.88	
11/16	10:59:45	147.7500	2322.15	71.97	.25	
11/16	11:00:00	148.0000	2323.85	71.87	1.70	END RATE #5 - 2.5 BPM
11/16	11:00:15	148.2500	2329.68	71.77	5.84	BEGIN RATE #6 - 3.0 BPM
11/16	11:00:30	148.5000	2332.39	71.68	2.71	
11/16	11:00:45	148.7500	2334.81	71.60	2.42	
11/16	11:01:00	149.0000	2336.80	71.51	1.99	
11/16	11:01:15	149.2500	2338.51	71.43	1.71	
11/16	11:01:30	149.5000	2340.37	71.34	1.85	
11/16	11:01:45	149.7500	2342.08	71.26	1.71	
11/16	11:02:00	150.0000	2343.50	71.17	1.43	
11/16	11:02:15	150.2500	2344.93	71.08	1.43	
11/16	11:02:30	150.5000	2346.49	71.00	1.57	
11/16	11:02:45	150.7500	2347.10	70.91	.60	
11/16	11:03:00	151.0000	2349.20	70.82	2.10	
11/16	11:03:15	151.2500	2350.48	70.75	1.28	
11/16	11:03:30	151.5000	2351.09	70.66	.60	
11/16	11:03:45	151.7500	2353.05	70.59	1.96	
11/16	11:04:00	152.0000	2354.47	70.51	1.43	
11/16	11:04:15	152.2500	2355.00	70.44	.53	
11/16	11:04:30	152.5000	2356.75	70.36	1.75	
11/16	11:04:45	152.7500	2357.21	70.29	.45	
11/16	11:05:00	153.0000	2359.03	70.21	1.83	
11/16	11:05:15	153.2500	2359.49	70.14	.45	
11/16	11:05:30	153.5000	2360.34	70.07	.85	
11/16	11:05:45	153.7500	2362.17	69.99	1.83	
11/16	11:06:00	154.0000	2362.63	69.91	.45	
11/16	11:06:15	154.2500	2363.63	69.84	1.01	
11/16	11:06:30	154.5000	2364.70	69.78	1.06	
11/16	11:06:45	154.7500	2365.62	69.71	.92	
11/16	11:07:00	155.0000	2366.63	69.64	1.01	
11/16	11:07:15	155.2500	2367.62	69.58	.99	
11/16	11:07:30	155.5000	2368.62	69.51	1.01	
11/16	11:07:45	155.7500	2369.76	69.44	1.14	
11/16	11:08:00	156.0000	2370.75	69.37	.99	
11/16	11:08:15	156.2500	2371.76	69.30	1.01	
11/16	11:08:30	156.5000	2372.60	69.24	.84	
11/16	11:08:45	156.7500	2373.40	69.17	.80	
11/16	11:09:00	157.0000	2374.47	69.11	1.07	
11/16	11:09:15	157.2500	2375.31	69.04	.84	
11/16	11:09:30	157.5000	2376.03	68.97	.72	
11/16	11:09:45	157.7500	2376.89	68.91	.85	
11/16	11:10:00	158.0000	2377.74	68.85	.86	

COMPANY: ROSETTA RESOURCES, INC.

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WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date	Time	Test Time	Pressure	Temp	deltaP	Comment
MM/DD	hh:mm:ss	mmmmmm.mmmmm	Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Psi Atm.
11/16	11:10:15	158.2500	2378.60	68.79	.86	
11/16	11:10:30	158.5000	2379.30	68.73	.71	
11/16	11:10:45	158.7500	2379.88	68.67	.57	
11/16	11:11:00	159.0000	2380.52	68.60	.65	
11/16	11:11:15	159.2500	2381.46	68.54	.94	
11/16	11:11:30	159.5000	2382.30	68.48	.84	
11/16	11:11:45	159.7500	2382.95	68.42	.65	
11/16	11:12:00	160.0000	2383.74	68.35	.79	
11/16	11:12:15	160.2500	2384.59	68.30	.86	
11/16	11:12:30	160.5000	2385.37	68.24	.78	
11/16	11:12:45	160.7500	2386.08	68.20	.71	
11/16	11:13:00	161.0000	2386.87	68.15	.79	
11/16	11:13:15	161.2500	2387.58	68.10	.71	
11/16	11:13:30	161.5000	2388.15	68.05	.57	
11/16	11:13:45	161.7500	2388.87	68.00	.72	
11/16	11:14:00	162.0000	2389.73	67.95	.86	
11/16	11:14:15	162.2500	2390.43	67.90	.71	
11/16	11:14:30	162.5000	2391.16	67.85	.72	
11/16	11:14:45	162.7500	2392.06	67.80	.91	
11/16	11:15:00	163.0000	2392.28	67.75	.22	END RATE #6 - 3.0 BPM
11/16	11:15:15	163.2500	2400.97	67.71	8.69	BEGIN RATE #7 - 3.5 BPM
11/16	11:15:30	163.5000	2402.82	67.67	1.85	
11/16	11:15:45	163.7500	2404.96	67.63	2.14	
11/16	11:16:00	164.0000	2406.81	67.60	1.85	
11/16	11:16:15	164.2500	2408.38	67.56	1.57	
11/16	11:16:30	164.5000	2409.95	67.52	1.57	
11/16	11:16:45	164.7500	2411.52	67.48	1.57	
11/16	11:17:00	165.0000	2413.37	67.44	1.85	
11/16	11:17:15	165.2500	2414.66	67.40	1.28	
11/16	11:17:30	165.5000	2416.23	67.37	1.57	
11/16	11:17:45	165.7500	2417.65	67.33	1.43	
11/16	11:18:00	166.0000	2418.94	67.29	1.28	
11/16	11:18:15	166.2500	2419.39	67.25	.45	
11/16	11:18:30	166.5000	2420.40	67.21	1.01	
11/16	11:18:45	166.7500	2421.54	67.18	1.14	
11/16	11:19:00	167.0000	2422.60	67.14	1.07	
11/16	11:19:15	167.2500	2424.50	67.11	1.90	
11/16	11:19:30	167.5000	2425.78	67.08	1.28	
11/16	11:19:45	167.7500	2427.07	67.04	1.28	
11/16	11:20:00	168.0000	2427.60	67.01	.53	
11/16	11:20:15	168.2500	2428.52	66.97	.92	
11/16	11:20:30	168.5000	2429.45	66.94	.93	
11/16	11:20:45	168.7500	2430.37	66.91	.92	
11/16	11:21:00	169.0000	2431.31	66.87	.93	
11/16	11:21:15	169.2500	2432.15	66.83	.85	
11/16	11:21:30	169.5000	2433.09	66.80	.94	
11/16	11:21:45	169.7500	2434.24	66.76	1.14	
11/16	11:22:00	170.0000	2435.38	66.73	1.14	
11/16	11:22:15	170.2500	2437.77	66.70	2.39	
11/16	11:22:30	170.5000	2437.62	66.66	.15	
11/16	11:22:45	170.7500	2438.91	66.63	1.29	
11/16	11:23:00	171.0000	2439.51	66.60	.60	
11/16	11:23:15	171.2500	2441.34	66.56	1.82	
11/16	11:23:30	171.5000	2441.86	66.53	.53	
11/16	11:23:45	171.7500	2442.94	66.49	1.07	
11/16	11:24:00	172.0000	2444.01	66.46	1.07	
11/16	11:24:15	172.2500	2445.76	66.43	1.75	
11/16	11:24:30	172.5000	2446.29	66.40	.53	
11/16	11:24:45	172.7500	2447.36	66.37	1.07	
11/16	11:25:00	173.0000	2448.50	66.34	1.14	
11/16	11:25:15	173.2500	2450.33	66.31	1.82	
11/16	11:25:30	173.5000	2450.55	66.28	.23	
11/16	11:25:45	173.7500	2451.28	66.25	.73	
11/16	11:26:00	174.0000	2452.06	66.21	.77	
11/16	11:26:15	174.2500	2453.61	66.19	1.55	

WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date MM/DD	Time hh:mm:ss	Test Time mmmmmm.mmmmm	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
11/16	11:26:30	174.5000	2454.06	66.15	.45	
11/16	11:26:45	174.7500	2455.00	66.13	.93	
11/16	11:27:00	175.0000	2455.84	66.09	.85	
11/16	11:27:15	175.2500	2456.63	66.07	.79	
11/16	11:27:30	175.5000	2457.49	66.05	.86	
11/16	11:27:45	175.7500	2458.42	66.02	.93	
11/16	11:28:00	176.0000	2459.19	66.00	.77	
11/16	11:28:15	176.2500	2459.99	65.97	.80	
11/16	11:28:30	176.5000	2460.99	65.94	1.00	
11/16	11:28:45	176.7500	2461.84	65.92	.85	
11/16	11:29:00	177.0000	2462.70	65.90	.86	
11/16	11:29:15	177.2500	2463.55	65.87	.85	
11/16	11:29:30	177.5000	2464.26	65.85	.71	
11/16	11:29:45	177.7500	2465.21	65.82	.94	
11/16	11:30:00	178.0000	2468.59	65.79	3.39	END RATE #7 - 3.5 BPM
11/16	11:30:15	178.2500	2473.16	65.79	4.56	BEGIN RATE #8 - 4.0 BPM
11/16	11:30:30	178.5000	2475.73	65.77	2.57	
11/16	11:30:45	178.7500	2477.44	65.75	1.71	
11/16	11:31:00	179.0000	2479.29	65.73	1.85	
11/16	11:31:15	179.2500	2481.00	65.71	1.71	
11/16	11:31:30	179.5000	2482.57	65.69	1.57	
11/16	11:31:45	179.7500	2484.14	65.67	1.57	
11/16	11:32:00	180.0000	2485.43	65.65	1.28	
11/16	11:32:15	180.2500	2487.00	65.63	1.57	
11/16	11:32:30	180.5000	2488.28	65.61	1.28	
11/16	11:32:45	180.7500	2489.71	65.59	1.43	
11/16	11:33:00	181.0000	2491.28	65.57	1.57	
11/16	11:33:15	181.2500	2492.56	65.54	1.28	
11/16	11:33:30	181.5000	2493.85	65.53	1.28	
11/16	11:33:45	181.7500	2495.13	65.51	1.28	
11/16	11:34:00	182.0000	2496.41	65.49	1.28	
11/16	11:34:15	182.2500	2497.02	65.48	.60	
11/16	11:34:30	182.5000	2498.16	65.46	1.14	
11/16	11:34:45	182.7500	2499.08	65.44	.92	
11/16	11:35:00	183.0000	2499.94	65.42	.86	
11/16	11:35:15	183.2500	2500.94	65.40	1.00	
11/16	11:35:30	183.5000	2501.79	65.38	.85	
11/16	11:35:45	183.7500	2503.55	65.36	1.76	
11/16	11:36:00	184.0000	2505.26	65.35	1.71	
11/16	11:36:15	184.2500	2506.69	65.33	1.43	
11/16	11:36:30	184.5000	2508.12	65.31	1.43	
11/16	11:36:45	184.7500	2509.54	65.29	1.43	
11/16	11:37:00	185.0000	2510.15	65.27	.60	
11/16	11:37:15	185.2500	2511.22	65.26	1.07	
11/16	11:37:30	185.5000	2512.29	65.24	1.07	
11/16	11:37:45	185.7500	2513.43	65.23	1.14	
11/16	11:38:00	186.0000	2515.25	65.21	1.82	
11/16	11:38:15	186.2500	2515.86	65.19	.60	
11/16	11:38:30	186.5000	2516.77	65.17	.92	
11/16	11:38:45	186.7500	2517.64	65.16	.86	
11/16	11:39:00	187.0000	2518.71	65.14	1.07	
11/16	11:39:15	187.2500	2519.70	65.13	.99	
11/16	11:39:30	187.5000	2520.64	65.12	.93	
11/16	11:39:45	187.7500	2521.56	65.11	.92	
11/16	11:40:00	188.0000	2522.41	65.10	.86	
11/16	11:40:15	188.2500	2523.27	65.09	.86	
11/16	11:40:30	188.5000	2524.96	65.08	1.69	
11/16	11:40:45	188.7500	2525.41	65.08	.45	
11/16	11:41:00	189.0000	2526.27	65.07	.86	
11/16	11:41:15	189.2500	2527.20	65.06	.93	
11/16	11:41:30	189.5000	2528.27	65.05	1.07	
11/16	11:41:45	189.7500	2529.26	65.04	.99	
11/16	11:42:00	190.0000	2530.04	65.03	.78	
11/16	11:42:15	190.2500	2530.91	65.03	.86	
11/16	11:42:30	190.5000	2531.83	65.03	.92	

COMPANY: ROSETTA RESOURCES, INC.

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WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date	Time	Test Time	Pressure	Temp	deltaP	Comment
MM/DD	hh:mm:ss	mmmmmm.mmmm	Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Psi Atm.
11/16	11:42:45	190.7500	2532.69	65.02	.86	
11/16	11:43:00	191.0000	2533.54	65.02	.86	
11/16	11:43:15	191.2500	2534.40	65.02	.86	
11/16	11:43:30	191.5000	2535.26	65.01	.86	
11/16	11:43:45	191.7500	2536.04	65.00	.78	
11/16	11:44:00	192.0000	2536.90	65.00	.86	
11/16	11:44:15	192.2500	2537.75	65.00	.85	
11/16	11:44:30	192.5000	2538.61	64.99	.86	
11/16	11:44:45	192.7500	2539.70	64.98	1.09	
11/16	11:45:00	193.0000	2539.86	64.98	.16	END RATE #8 - 4.0 BPM
11/16	11:45:15	193.2500	2547.21	64.98	7.35	BEGIN RATE #9 - 4.5 BPM
11/16	11:45:30	193.5000	2548.78	64.98	1.57	
11/16	11:45:45	193.7500	2550.50	64.97	1.71	
11/16	11:46:00	194.0000	2552.49	64.97	2.00	
11/16	11:46:15	194.2500	2554.21	64.96	1.71	
11/16	11:46:30	194.5000	2555.49	64.96	1.28	
11/16	11:46:45	194.7500	2557.20	64.96	1.71	
11/16	11:47:00	195.0000	2557.73	64.96	.53	
11/16	11:47:15	195.2500	2559.48	64.95	1.75	
11/16	11:47:30	195.5000	2560.77	64.95	1.28	
11/16	11:47:45	195.7500	2561.30	64.94	.53	
11/16	11:48:00	196.0000	2563.05	64.94	1.75	
11/16	11:48:15	196.2500	2563.58	64.93	.53	
11/16	11:48:30	196.5000	2564.58	64.93	1.00	
11/16	11:48:45	196.7500	2565.50	64.93	.92	
11/16	11:49:00	197.0000	2567.19	64.92	1.69	
11/16	11:49:15	197.2500	2567.72	64.92	.53	
11/16	11:49:30	197.5000	2568.72	64.91	1.00	
11/16	11:49:45	197.7500	2569.41	64.90	.70	
11/16	11:50:00	198.0000	2569.24	64.89	-.18	
11/16	11:50:15	198.2500	2571.04	64.89	1.80	
11/16	11:50:30	198.5000	2572.33	64.88	1.28	
11/16	11:50:45	198.7500	2572.93	64.87	.60	
11/16	11:51:00	199.0000	2574.75	64.87	1.82	
11/16	11:51:15	199.2500	2575.21	64.85	.45	
11/16	11:51:30	199.5000	2576.14	64.85	.93	
11/16	11:51:45	199.7500	2578.18	64.84	2.04	
11/16	11:52:00	200.0000	2578.48	64.83	.30	
11/16	11:52:15	200.2500	2579.35	64.82	.87	
11/16	11:52:30	200.5000	2580.42	64.81	1.07	
11/16	11:52:45	200.7500	2581.49	64.80	1.07	
11/16	11:53:00	201.0000	2582.64	64.79	1.14	
11/16	11:53:15	201.2500	2583.48	64.79	.84	
11/16	11:53:30	201.5000	2584.27	64.77	.80	
11/16	11:53:45	201.7500	2585.12	64.77	.85	
11/16	11:54:00	202.0000	2585.83	64.76	.71	
11/16	11:54:15	202.2500	2587.46	64.75	1.62	
11/16	11:54:30	202.5000	2587.91	64.74	.45	
11/16	11:54:45	202.7500	2588.77	64.73	.86	
11/16	11:55:00	203.0000	2589.70	64.72	.93	
11/16	11:55:15	203.2500	2590.77	64.72	1.07	
11/16	11:55:30	203.5000	2591.69	64.71	.92	
11/16	11:55:45	203.7500	2592.40	64.71	.71	
11/16	11:56:00	204.0000	2593.19	64.70	.79	
11/16	11:56:15	204.2500	2594.88	64.69	1.69	
11/16	11:56:30	204.5000	2595.48	64.68	.60	
11/16	11:56:45	204.7500	2596.62	64.68	1.14	
11/16	11:57:00	205.0000	2597.67	64.67	1.04	
11/16	11:57:15	205.2500	2597.88	64.66	.22	
11/16	11:57:30	205.5000	2598.62	64.65	.74	
11/16	11:57:45	205.7500	2599.46	64.64	.84	
11/16	11:58:00	206.0000	2600.11	64.62	.65	
11/16	11:58:15	206.2500	2600.90	64.61	.79	
11/16	11:58:30	206.5000	2601.68	64.60	.78	
11/16	11:58:45	206.7500	2602.25	64.58	.56	

WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date	Time	Test Time	Pressure	Temp	deltaP	Comment
MM/DD	hh:mm:ss	mmmmmm.mmmmm	Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Psi Atm.
11/16	11:59:00	207.0000	2602.98	64.57	.73	
11/16	11:59:15	207.2500	2603.75	64.56	.77	
11/16	11:59:30	207.5000	2604.55	64.54	.80	
11/16	11:59:45	207.7500	2605.47	64.53	.92	
11/16	12:00:00	208.0000	2607.16	64.51	1.69	
11/16	12:00:15	208.2500	2611.58	64.48	4.43	END RATE #9 - 4.5 BPM
11/16	12:00:30	208.5000	2614.01	64.43	2.43	BEGIN RATE #10 - 5.0 BPM
11/16	12:00:45	208.7500	2615.44	64.37	1.43	
11/16	12:01:00	209.0000	2616.87	64.33	1.43	
11/16	12:01:15	209.2500	2618.45	64.27	1.57	
11/16	12:01:30	209.5000	2619.05	64.22	.61	
11/16	12:01:45	209.7500	2621.02	64.17	1.97	
11/16	12:02:00	210.0000	2621.63	64.12	.61	
11/16	12:02:15	210.2500	2622.70	64.06	1.07	
11/16	12:02:30	210.5000	2623.78	64.01	1.08	
11/16	12:02:45	210.7500	2624.85	63.96	1.07	
11/16	12:03:00	211.0000	2625.92	63.91	1.08	
11/16	12:03:15	211.2500	2626.99	63.85	1.07	
11/16	12:03:30	211.5000	2628.07	63.78	1.08	
11/16	12:03:45	211.7500	2629.14	63.72	1.07	
11/16	12:04:00	212.0000	2630.15	63.66	1.00	
11/16	12:04:15	212.2500	2631.15	63.60	1.00	
11/16	12:04:30	212.5000	2632.15	63.53	1.00	
11/16	12:04:45	212.7500	2633.23	63.47	1.08	
11/16	12:05:00	213.0000	2634.15	63.41	.92	
11/16	12:05:15	213.2500	2635.02	63.35	.87	
11/16	12:05:30	213.5000	2635.95	63.28	.93	
11/16	12:05:45	213.7500	2636.89	63.22	.94	
11/16	12:06:00	214.0000	2637.89	63.16	1.00	
11/16	12:06:15	214.2500	2638.74	63.10	.85	
11/16	12:06:30	214.5000	2639.61	63.05	.87	
11/16	12:06:45	214.7500	2640.54	62.99	.93	
11/16	12:07:00	215.0000	2641.40	62.94	.86	
11/16	12:07:15	215.2500	2642.11	62.88	.71	
11/16	12:07:30	215.5000	2642.76	62.83	.65	
11/16	12:07:45	215.7500	2643.47	62.78	.72	
11/16	12:08:00	216.0000	2644.27	62.73	.79	
11/16	12:08:15	216.2500	2645.05	62.68	.78	
11/16	12:08:30	216.5000	2645.77	62.62	.72	
11/16	12:08:45	216.7500	2646.49	62.57	.72	
11/16	12:09:00	217.0000	2647.13	62.51	.64	
11/16	12:09:15	217.2500	2647.70	62.47	.57	
11/16	12:09:30	217.5000	2648.43	62.43	.72	
11/16	12:09:45	217.7500	2649.21	62.40	.78	
11/16	12:10:00	218.0000	2650.00	62.36	.79	
11/16	12:10:15	218.2500	2650.79	62.33	.78	
11/16	12:10:30	218.5000	2651.50	62.28	.72	
11/16	12:10:45	218.7500	2652.30	62.25	.79	
11/16	12:11:00	219.0000	2653.00	62.21	.71	
11/16	12:11:15	219.2500	2653.73	62.18	.72	
11/16	12:11:30	219.5000	2654.59	62.13	.86	
11/16	12:11:45	219.7500	2655.37	62.10	.78	
11/16	12:12:00	220.0000	2656.09	62.06	.72	
11/16	12:12:15	220.2500	2656.80	62.04	.71	
11/16	12:12:30	220.5000	2657.37	62.01	.57	
11/16	12:12:45	220.7500	2657.88	61.99	.50	
11/16	12:13:00	221.0000	2658.45	61.97	.57	
11/16	12:13:15	221.2500	2659.10	61.95	.65	
11/16	12:13:30	221.5000	2659.74	61.93	.64	
11/16	12:13:45	221.7500	2660.38	61.91	.65	
11/16	12:14:00	222.0000	2661.18	61.89	.79	
11/16	12:14:15	222.2500	2661.81	61.86	.63	
11/16	12:14:30	222.5000	2662.31	61.84	.51	
11/16	12:14:45	222.7500	2662.89	61.82	.57	END RATE #16 - 5.0 BPM
11/16	12:15:00	223.0000	2666.87	61.79	3.98	BEGIN RATE #11 - 5.5 BPM

COMPANY: ROSETTA RESOURCES, INC.

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WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date	Time	Test Time	Pressure	Temp	deltaP	Comment
MM/DD	hh:mm:ss	mmmmmm.mmmmm	Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Psi Atm.
11/16	12:15:15	223.2500	2668.87	61.78	2.00	
11/16	12:15:30	223.5000	2670.58	61.76	1.72	
11/16	12:15:45	223.7500	2672.15	61.75	1.57	
11/16	12:16:00	224.0000	2673.44	61.74	1.29	
11/16	12:16:15	224.2500	2673.97	61.72	.53	
11/16	12:16:30	224.5000	2675.87	61.71	1.90	
11/16	12:16:45	224.7500	2677.16	61.70	1.29	
11/16	12:17:00	225.0000	2677.46	61.69	.30	
11/16	12:17:15	225.2500	2678.26	61.68	.80	
11/16	12:17:30	225.5000	2679.33	61.66	1.08	
11/16	12:17:45	225.7500	2680.48	61.65	1.14	
11/16	12:18:00	226.0000	2681.62	61.64	1.14	
11/16	12:18:15	226.2500	2682.61	61.63	.99	
11/16	12:18:30	226.5000	2683.62	61.62	1.01	
11/16	12:18:45	226.7500	2685.44	61.62	1.82	
11/16	12:19:00	227.0000	2686.05	61.61	.60	
11/16	12:19:15	227.2500	2687.12	61.60	1.07	
11/16	12:19:30	227.5000	2688.11	61.60	1.00	
11/16	12:19:45	227.7500	2689.19	61.58	1.08	
11/16	12:20:00	228.0000	2690.26	61.58	1.07	
11/16	12:20:15	228.2500	2691.18	61.57	.92	
11/16	12:20:30	228.5000	2692.12	61.56	.93	
11/16	12:20:45	228.7500	2693.12	61.56	1.00	
11/16	12:21:00	229.0000	2694.12	61.55	1.00	
11/16	12:21:15	229.2500	2695.31	61.54	1.19	
11/16	12:21:30	229.5000	2695.60	61.53	.29	
11/16	12:21:45	229.7500	2696.11	61.53	.51	
11/16	12:22:00	230.0000	2696.98	61.52	.87	
11/16	12:22:15	230.2500	2697.90	61.51	.92	
11/16	12:22:30	230.5000	2698.76	61.51	.86	
11/16	12:22:45	230.7500	2699.61	61.51	.86	
11/16	12:23:00	231.0000	2700.40	61.50	.78	
11/16	12:23:15	231.2500	2701.11	61.49	.72	
11/16	12:23:30	231.5000	2701.75	61.49	.64	
11/16	12:23:45	231.7500	2702.32	61.48	.57	
11/16	12:24:00	232.0000	2702.89	61.47	.57	
11/16	12:24:15	232.2500	2703.61	61.48	.72	
11/16	12:24:30	232.5000	2704.40	61.48	.78	
11/16	12:24:45	232.7500	2705.03	61.48	.64	
11/16	12:25:00	233.0000	2705.76	61.48	.72	
11/16	12:25:15	233.2500	2706.61	61.48	.86	
11/16	12:25:30	233.5000	2707.32	61.48	.71	
11/16	12:25:45	233.7500	2707.96	61.49	.65	
11/16	12:26:00	234.0000	2708.91	61.49	.95	
11/16	12:26:15	234.2500	2709.17	61.49	.25	
11/16	12:26:30	234.5000	2709.60	61.49	.44	
11/16	12:26:45	234.7500	2710.17	61.49	.57	
11/16	12:27:00	235.0000	2710.90	61.49	.72	
11/16	12:27:15	235.2500	2711.68	61.49	.78	
11/16	12:27:30	235.5000	2712.31	61.49	.64	
11/16	12:27:45	235.7500	2713.27	61.50	.96	
11/16	12:28:00	236.0000	2713.51	61.50	.24	
11/16	12:28:15	236.2500	2713.81	61.51	.29	
11/16	12:28:30	236.5000	2714.24	61.51	.43	
11/16	12:28:45	236.7500	2714.74	61.51	.50	
11/16	12:29:00	237.0000	2715.31	61.52	.57	
11/16	12:29:15	237.2500	2715.88	61.53	.57	
11/16	12:29:30	237.5000	2716.45	61.53	.57	
11/16	12:29:45	237.7500	2717.10	61.53	.65	
11/16	12:30:00	238.0000	2713.58	61.54	-3.52	END RATE #11 - 5.5 BPM
11/16	12:31:00	239.0000	2727.00	61.56	13.42	BEGIN RATE #12 - 6.0 BPM
11/16	12:31:15	239.2500	2728.43	61.57	1.43	
11/16	12:31:30	239.5000	2729.85	61.57	1.43	
11/16	12:31:45	239.7500	2728.57	61.58	-1.28	
11/16	12:32:00	240.0000	2725.71	61.58	-2.86	

WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date	Time	Test Time	Pressure	Temp	deltaP	Comment
MM/DD	hh:mm:ss	mmmmmm.mmmmm	Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Psi Atm.
11/16	12:32:15	240.2500	2725.79	61.59	.08	
11/16	12:32:30	240.5000	2726.31	61.60	.52	
11/16	12:32:45	240.7500	2727.17	61.60	.86	
11/16	12:33:00	241.0000	2728.02	61.61	.86	
11/16	12:33:15	241.2500	2728.80	61.62	.78	
11/16	12:33:30	241.5000	2729.68	61.62	.88	
11/16	12:33:45	241.7500	2729.85	61.63	.17	
11/16	12:34:00	242.0000	2730.15	61.63	.30	
11/16	12:34:15	242.2500	2730.80	61.64	.65	
11/16	12:34:30	242.5000	2731.51	61.64	.71	
11/16	12:34:45	242.7500	2732.30	61.65	.79	
11/16	12:35:00	243.0000	2733.21	61.66	.91	
11/16	12:35:15	243.2500	2733.43	61.66	.22	
11/16	12:35:30	243.5000	2733.86	61.67	.44	
11/16	12:35:45	243.7500	2734.51	61.67	.65	
11/16	12:36:00	244.0000	2735.24	61.68	.73	
11/16	12:36:15	244.2500	2735.40	61.68	.16	
11/16	12:36:30	244.5000	2735.71	61.69	.31	
11/16	12:36:45	244.7500	2736.22	61.70	.51	
11/16	12:37:00	245.0000	2736.78	61.70	.56	
11/16	12:37:15	245.2500	2737.36	61.70	.58	
11/16	12:37:30	245.5000	2738.00	61.71	.64	
11/16	12:37:45	245.7500	2738.57	61.72	.57	
11/16	12:38:00	246.0000	2739.14	61.72	.57	
11/16	12:38:15	246.2500	2739.80	61.73	.66	
11/16	12:38:30	246.5000	2739.99	61.74	.18	
11/16	12:38:45	246.7500	2740.42	61.75	.44	
11/16	12:39:00	247.0000	2741.27	61.76	.85	
11/16	12:39:15	247.2500	2741.48	61.76	.21	
11/16	12:39:30	247.5000	2741.85	61.77	.37	
11/16	12:39:45	247.7500	2742.42	61.78	.57	
11/16	12:40:00	248.0000	2742.99	61.78	.57	
11/16	12:40:15	248.2500	2743.48	61.80	.49	
11/16	12:40:30	248.5000	2743.91	61.81	.43	
11/16	12:40:45	248.7500	2744.51	61.82	.60	
11/16	12:41:00	249.0000	2744.67	61.83	.16	
11/16	12:41:15	249.2500	2744.98	61.83	.31	
11/16	12:41:30	249.5000	2745.41	61.84	.44	
11/16	12:41:45	249.7500	2745.98	61.85	.57	
11/16	12:42:00	250.0000	2746.48	61.85	.50	
11/16	12:42:15	250.2500	2747.15	61.86	.67	
11/16	12:42:30	250.5000	2747.32	61.87	.18	
11/16	12:42:45	250.7500	2747.62	61.87	.29	
11/16	12:43:00	251.0000	2748.04	61.89	.43	
11/16	12:43:15	251.2500	2748.55	61.90	.50	
11/16	12:43:30	251.5000	2749.04	61.91	.49	
11/16	12:43:45	251.7500	2749.62	61.91	.58	
11/16	12:44:00	252.0000	2750.46	61.92	.84	
11/16	12:44:15	252.2500	2750.62	61.93	.16	
11/16	12:44:30	252.5000	2750.89	61.93	.27	
11/16	12:44:45	252.7500	2751.26	61.94	.37	
11/16	12:45:00	253.0000	2759.67	61.95	8.41	END RATE #12 - 6.0 BPM
11/16	12:45:15	253.2500	2760.12	61.95	.45	BEGIN RATE #13 - 6.5 BPM
11/16	12:45:30	253.5000	2756.81	61.96	-3.31	
11/16	12:45:45	253.7500	2757.03	61.97	.22	
11/16	12:46:00	254.0000	2763.95	61.97	6.91	
11/16	12:46:15	254.2500	2746.10	61.98	-17.85	
11/16	12:46:30	254.5000	2761.23	61.98	15.14	
11/16	12:46:45	254.7500	2762.52	61.99	1.29	
11/16	12:47:00	255.0000	2763.12	61.99	.60	
11/16	12:47:15	255.2500	2764.19	62.00	1.07	
11/16	12:47:30	255.5000	2765.11	62.01	.92	
11/16	12:47:45	255.7500	2766.04	62.01	.93	
11/16	12:48:00	256.0000	2766.89	62.02	.85	
11/16	12:48:15	256.2500	2767.60	62.03	.71	

WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date	Time	Test Time	Pressure	Temp	deltaP	Comment
MM/DD	hh:mm:ss	mmmmmm.mmmmm	Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Psi Atm.
11/16	12:48:30	256.5000	2768.39	62.03	.79	
11/16	12:48:45	256.7500	2769.02	62.04	.63	
11/16	12:49:00	257.0000	2769.68	62.04	.66	
11/16	12:49:15	257.2500	2770.46	62.05	.78	
11/16	12:49:30	257.5000	2771.25	62.06	.79	
11/16	12:49:45	257.7500	2772.03	62.07	.78	
11/16	12:50:00	258.0000	2772.74	62.08	.71	
11/16	12:50:15	258.2500	2773.53	62.09	.79	
11/16	12:50:30	258.5000	2774.23	62.10	.71	
11/16	12:50:45	258.7500	2775.00	62.11	.77	
11/16	12:51:00	259.0000	2775.22	62.12	.22	
11/16	12:51:15	259.2500	2775.73	62.12	.51	
11/16	12:51:30	259.5000	2776.45	62.13	.71	
11/16	12:51:45	259.7500	2777.01	62.14	.56	
11/16	12:52:00	260.0000	2777.59	62.15	.58	
11/16	12:52:15	260.2500	2778.64	62.17	1.06	
11/16	12:52:30	260.5000	2778.93	62.18	.28	
11/16	12:52:45	260.7500	2779.53	62.19	.60	
11/16	12:53:00	261.0000	2779.63	62.20	.10	
11/16	12:53:15	261.2500	2779.64	62.21	.01	
11/16	12:53:30	261.5000	2779.66	62.22	.02	
11/16	12:53:45	261.7500	2779.68	62.23	.02	
11/16	12:54:00	262.0000	2779.70	62.24	.02	
11/16	12:54:15	262.2500	2780.43	62.25	.73	
11/16	12:54:30	262.5000	2781.15	62.26	.71	
11/16	12:54:45	262.7500	2781.78	62.27	.64	
11/16	12:55:00	263.0000	2782.35	62.28	.57	
11/16	12:55:15	263.2500	2782.92	62.30	.57	
11/16	12:55:30	263.5000	2783.64	62.31	.72	
11/16	12:55:45	263.7500	2784.66	62.33	1.01	
11/16	12:56:00	264.0000	2784.85	62.34	.19	
11/16	12:56:15	264.2500	2785.19	62.35	.34	
11/16	12:56:30	264.5000	2785.55	62.37	.36	
11/16	12:56:45	264.7500	2786.05	62.38	.50	
11/16	12:57:00	265.0000	2786.63	62.40	.57	
11/16	12:57:15	265.2500	2787.20	62.41	.57	
11/16	12:57:30	265.5000	2787.93	62.43	.74	
11/16	12:57:45	265.7500	2788.06	62.44	.13	
11/16	12:58:00	266.0000	2788.26	62.45	.19	
11/16	12:58:15	266.2500	2788.61	62.47	.35	
11/16	12:58:30	266.5000	2789.12	62.49	.51	
11/16	12:58:45	266.7500	2789.96	62.51	.84	
11/16	12:59:00	267.0000	2790.17	62.52	.22	
11/16	12:59:15	267.2500	2790.61	62.54	.43	
11/16	12:59:30	267.5000	2791.18	62.55	.57	
11/16	12:59:45	267.7500	2791.82	62.58	.64	
11/16	13:00:00	268.0000	2791.82	62.59	-.01	END RATE #13 - 6.5 BPM
11/16	13:00:15	268.2500	2799.15	62.61	7.34	BEGIN RATE #14 - 7.0 BPM
11/16	13:00:30	268.5000	2799.68	62.62	.53	
11/16	13:00:45	268.7500	2800.53	62.64	.85	
11/16	13:01:00	269.0000	2801.47	62.66	.94	
11/16	13:01:15	269.2500	2802.53	62.67	1.07	
11/16	13:01:30	269.5000	2803.60	62.69	1.07	
11/16	13:01:45	269.7500	2804.67	62.70	1.06	
11/16	13:02:00	270.0000	2805.59	62.72	.92	
11/16	13:02:15	270.2500	2806.50	62.74	.91	
11/16	13:02:30	270.5000	2806.71	62.75	.22	
11/16	13:02:45	270.7500	2807.30	62.76	.59	
11/16	13:03:00	271.0000	2808.16	62.78	.85	
11/16	13:03:15	271.2500	2809.01	62.80	.85	
11/16	13:03:30	271.5000	2809.64	62.81	.63	
11/16	13:03:45	271.7500	2810.44	62.83	.81	
11/16	13:04:00	272.0000	2811.28	62.85	.84	
11/16	13:04:15	272.2500	2812.00	62.86	.72	
11/16	13:04:30	272.5000	2812.63	62.89	.63	

WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date MM/DD	Time hh:mm:ss	Test Time mmmmmm.mmmm	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
11/16	13:04:45	272.7500	2801.55	62.92	-11.08	
11/16	13:05:00	273.0000	2769.99	62.95	-31.56	
11/16	13:05:15	273.2500	2753.86	62.97	-16.13	
11/16	13:05:30	273.5000	2742.72	63.00	-11.14	
11/16	13:05:45	273.7500	2733.86	63.03	-8.85	
11/16	13:06:00	274.0000	2726.15	63.05	-7.71	
11/16	13:06:15	274.2500	2719.16	63.08	-7.00	
11/16	13:06:30	274.5000	2712.73	63.11	-6.43	
11/16	13:06:45	274.7500	2706.87	63.13	-5.85	
11/16	13:07:00	275.0000	2701.16	63.17	-5.71	
11/16	13:07:15	275.2500	2695.88	63.21	-5.28	
11/16	13:07:30	275.5000	2691.02	63.27	-4.86	
11/16	13:07:45	275.7500	2686.30	63.33	-4.72	
11/16	13:08:00	276.0000	2681.73	63.39	-4.57	
11/16	13:08:15	276.2500	2677.44	63.45	-4.29	
11/16	13:08:30	276.5000	2673.30	63.51	-4.14	
11/16	13:08:45	276.7500	2666.16	63.58	-7.14	
11/16	13:09:00	277.0000	2669.58	63.64	3.42	
11/16	13:09:15	277.2500	2663.01	63.70	-6.57	
11/16	13:09:30	277.5000	2658.72	63.76	-4.29	
11/16	13:09:45	277.7500	2677.13	63.83	18.40	
11/16	13:10:00	278.0000	2711.09	63.89	33.96	
11/16	13:10:15	278.2500	2726.36	63.97	15.26	
11/16	13:10:30	278.5000	2736.34	64.02	9.99	
11/16	13:10:45	278.7500	2744.61	64.07	8.27	
11/16	13:11:00	279.0000	2751.46	64.13	6.85	
11/16	13:11:15	279.2500	2765.45	64.18	13.98	
11/16	13:11:30	279.5000	2776.00	64.23	10.56	
11/16	13:11:45	279.7500	2783.99	64.29	7.99	
11/16	13:12:00	280.0000	2784.25	64.34	.26	
11/16	13:12:15	280.2500	2784.26	64.39	.01	
11/16	13:12:30	280.5000	2785.69	64.44	1.43	
11/16	13:12:45	280.7500	2787.82	64.50	2.14	
11/16	13:13:00	281.0000	2789.96	64.54	2.14	
11/16	13:13:15	281.2500	2792.10	64.58	2.14	
11/16	13:13:30	281.5000	2794.67	64.58	2.57	
11/16	13:13:45	281.7500	2796.52	64.59	1.85	
11/16	13:14:00	282.0000	2798.52	64.60	2.00	
11/16	13:14:15	282.2500	2800.51	64.60	2.00	
11/16	13:14:30	282.5000	2803.08	64.61	2.57	
11/16	13:14:45	282.7500	2803.61	64.62	.53	
11/16	13:15:00	283.0000	2805.36	64.63	1.75	END RATE #14 - 7.0 BPM
11/16	13:15:15	283.2500	2805.82	64.64	.45	
11/16	13:15:30	283.5000	2807.50	64.64	1.69	BEGIN RATE #15 - 7.5 BPM
11/16	13:15:45	283.7500	2808.79	64.65	1.28	
11/16	13:16:00	284.0000	2810.07	64.66	1.28	
11/16	13:16:15	284.2500	2810.60	64.63	.53	
11/16	13:16:30	284.5000	2812.36	64.58	1.76	
11/16	13:16:45	284.7500	2812.67	64.52	.31	
11/16	13:17:00	285.0000	2814.52	64.46	1.84	
11/16	13:17:15	285.2500	2815.81	64.41	1.29	
11/16	13:17:30	285.5000	2817.10	64.35	1.29	
11/16	13:17:45	285.7500	2817.56	64.29	.46	
11/16	13:18:00	286.0000	2818.57	64.24	1.01	
11/16	13:18:15	286.2500	2819.72	64.18	1.15	
11/16	13:18:30	286.5000	2820.79	64.12	1.07	
11/16	13:18:45	286.7500	2821.72	64.07	.93	
11/16	13:19:00	287.0000	2823.42	64.01	1.69	
11/16	13:19:15	287.2500	2823.95	63.95	.54	
11/16	13:19:30	287.5000	2824.90	63.88	.95	
11/16	13:19:45	287.7500	2825.08	63.82	.18	
11/16	13:20:00	288.0000	2825.53	63.76	.45	
11/16	13:20:15	288.2500	2826.33	63.70	.80	
11/16	13:20:30	288.5000	2827.27	63.64	.94	
11/16	13:20:45	288.7500	2828.13	63.58	.86	

COMPANY: ROSETTA RESOURCES, INC.

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WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date	Time	Test Time	Pressure	Temp	deltaP	Comment
MM/DD	hh:mm:ss	mmmmmm.mmmmm	Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Psi Atm.
11/16	13:21:00	289.0000	2828.85	63.51	.72	
11/16	13:21:15	289.2500	2829.80	63.45	.96	
11/16	13:21:30	289.5000	2830.06	63.39	.26	
11/16	13:21:45	289.7500	2830.73	63.33	.67	
11/16	13:22:00	290.0000	2831.51	63.26	.78	
11/16	13:22:15	290.2500	2832.16	63.22	.65	
11/16	13:22:30	290.5000	2832.88	63.18	.72	
11/16	13:22:45	290.7500	2833.52	63.14	.64	
11/16	13:23:00	291.0000	2834.02	63.10	.50	
11/16	13:23:15	291.2500	2834.61	63.07	.58	
11/16	13:23:30	291.5000	2835.32	63.03	.72	
11/16	13:23:45	291.7500	2836.04	62.99	.72	
11/16	13:24:00	292.0000	2836.61	62.95	.57	
11/16	13:24:15	292.2500	2837.12	62.92	.51	
11/16	13:24:30	292.5000	2837.77	62.88	.65	
11/16	13:24:45	292.7500	2838.34	62.85	.57	
11/16	13:25:00	293.0000	2840.68	62.80	2.35	
11/16	13:25:15	293.2500	2843.40	62.78	2.72	
11/16	13:25:30	293.5000	2844.01	62.76	.61	
11/16	13:25:45	293.7500	2845.08	62.74	1.07	
11/16	13:26:00	294.0000	2846.15	62.72	1.08	
11/16	13:26:15	294.2500	2847.22	62.71	1.07	
11/16	13:26:30	294.5000	2848.15	62.69	.93	
11/16	13:26:45	294.7500	2849.08	62.68	.93	
11/16	13:27:00	295.0000	2850.01	62.66	.93	
11/16	13:27:15	295.2500	2850.79	62.64	.78	
11/16	13:27:30	295.5000	2851.43	62.62	.64	
11/16	13:27:45	295.7500	2852.23	62.61	.80	
11/16	13:28:00	296.0000	2853.23	62.59	1.00	
11/16	13:28:15	296.2500	2854.08	62.58	.85	
11/16	13:28:30	296.5000	2854.80	62.58	.71	
11/16	13:28:45	296.7500	2855.59	62.58	.79	
11/16	13:29:00	297.0000	2856.44	62.58	.86	
11/16	13:29:15	297.2500	2857.15	62.57	.71	
11/16	13:29:30	297.5000	2857.87	62.57	.72	
11/16	13:29:45	297.7500	2858.73	62.56	.86	
11/16	13:30:00	298.0000	2859.59	62.56	.86	
11/16	13:30:15	298.2500	2860.37	62.55	.78	
11/16	13:30:30	298.5000	2861.01	62.55	.64	
11/16	13:30:45	298.7500	2861.66	62.55	.65	
11/16	13:31:00	299.0000	2862.22	62.55	.56	
11/16	13:31:15	299.2500	2862.65	62.54	.43	
11/16	13:31:30	299.5000	2863.23	62.55	.58	
11/16	13:31:45	299.7500	2863.94	62.56	.71	
11/16	13:32:00	300.0000	2864.89	62.57	.95	
11/16	13:32:15	300.2500	2865.08	62.58	.19	
11/16	13:32:30	300.5000	2865.42	62.58	.34	
11/16	13:32:45	300.7500	2865.78	62.59	.36	
11/16	13:33:00	301.0000	2866.36	62.60	.58	
11/16	13:33:15	301.2500	2866.93	62.60	.56	
11/16	13:33:30	301.5000	2867.50	62.61	.58	
11/16	13:33:45	301.7500	2868.14	62.62	.64	
11/16	13:34:00	302.0000	2868.71	62.63	.57	
11/16	13:34:15	302.2500	2869.28	62.64	.57	
11/16	13:34:30	302.5000	2869.77	62.66	.49	
11/16	13:34:45	302.7500	2870.20	62.67	.43	
11/16	13:35:00	303.0000	2870.63	62.68	.43	
11/16	13:35:15	303.2500	2871.05	62.69	.43	
11/16	13:35:30	303.5000	2871.56	62.70	.50	
11/16	13:35:45	303.7500	2872.13	62.71	.57	
11/16	13:36:00	304.0000	2872.77	62.72	.65	
11/16	13:36:15	304.2500	2873.41	62.74	.64	
11/16	13:36:30	304.5000	2874.26	62.74	.85	
11/16	13:36:45	304.7500	2874.47	62.76	.21	
11/16	13:37:00	305.0000	2874.76	62.77	.29	

COMPANY: ROSETTA RESOURCES, INC.

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WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date	Time	Test Time	Pressure	Temp	deltaP	Comment
MM/DD	hh:mm:ss	mmmmmm.mmmm	Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Psi Atm.
11/16	13:37:15	305.2500	2875.26	62.78	.50	
11/16	13:37:30	305.5000	2875.92	62.79	.66	
11/16	13:37:45	305.7500	2876.11	62.80	.18	
11/16	13:38:00	306.0000	2876.47	62.82	.36	
11/16	13:38:15	306.2500	2876.89	62.83	.43	
11/16	13:38:30	306.5000	2877.49	62.85	.59	
11/16	13:38:45	306.7500	2877.61	62.86	.12	
11/16	13:39:00	307.0000	2877.72	62.87	.11	
11/16	13:39:15	307.2500	2877.84	62.88	.12	
11/16	13:39:30	307.5000	2878.09	62.90	.25	
11/16	13:39:45	307.7500	2878.53	62.91	.44	
11/16	13:40:00	308.0000	2880.80	62.93	2.26	END RATE #15 - 7.5 BPM
11/16	13:40:15	308.2500	2882.94	62.93	2.14	BEGIN RATE #16 - 8.0 BPM
11/16	13:40:30	308.5000	2869.37	62.95	-13.57	
11/16	13:40:45	308.7500	2838.52	62.97	-30.85	
11/16	13:41:00	309.0000	2825.10	62.98	-13.42	
11/16	13:41:15	309.2500	2821.96	62.99	-3.14	
11/16	13:41:30	309.5000	2846.66	63.01	24.70	
11/16	13:41:45	309.7500	2857.94	63.02	11.28	
11/16	13:42:00	310.0000	2864.36	63.03	6.42	
11/16	13:42:15	310.2500	2868.22	63.05	3.85	
11/16	13:42:30	310.5000	2871.50	63.06	3.28	
11/16	13:42:45	310.7500	2874.07	63.08	2.57	
11/16	13:43:00	311.0000	2876.35	63.10	2.28	
11/16	13:43:15	311.2500	2878.21	63.10	1.85	
11/16	13:43:30	311.5000	2879.92	63.12	1.71	
11/16	13:43:45	311.7500	2881.49	63.14	1.57	
11/16	13:44:00	312.0000	2882.77	63.16	1.28	
11/16	13:44:15	312.2500	2883.37	63.18	.60	
11/16	13:44:30	312.5000	2885.19	63.20	1.82	
11/16	13:44:45	312.7500	2885.64	63.22	.45	
11/16	13:45:00	313.0000	2886.42	63.24	.78	
11/16	13:45:15	313.2500	2887.13	63.26	.71	
11/16	13:45:30	313.5000	2887.77	63.28	.64	
11/16	13:45:45	313.7500	2888.41	63.30	.64	
11/16	13:46:00	314.0000	2889.12	63.32	.71	
11/16	13:46:15	314.2500	2889.84	63.33	.71	
11/16	13:46:30	314.5000	2890.47	63.35	.64	
11/16	13:46:45	314.7500	2891.04	63.37	.57	
11/16	13:47:00	315.0000	2891.69	63.39	.65	
11/16	13:47:15	315.2500	2892.25	63.41	.56	
11/16	13:47:30	315.5000	2892.82	63.43	.58	
11/16	13:47:45	315.7500	2893.54	63.44	.71	
11/16	13:48:00	316.0000	2894.25	63.46	.71	
11/16	13:48:15	316.2500	2895.03	63.48	.79	
11/16	13:48:30	316.5000	2895.74	63.49	.71	
11/16	13:48:45	316.7500	2896.31	63.51	.57	
11/16	13:49:00	317.0000	2896.88	63.53	.57	
11/16	13:49:15	317.2500	2897.45	63.55	.57	
11/16	13:49:30	317.5000	2897.94	63.56	.49	
11/16	13:49:45	317.7500	2898.37	63.57	.43	
11/16	13:50:00	318.0000	2898.87	63.58	.50	
11/16	13:50:15	318.2500	2899.50	63.59	.63	
11/16	13:50:30	318.5000	2899.64	63.60	.14	
11/16	13:50:45	318.7500	2899.93	63.61	.29	
11/16	13:51:00	319.0000	2900.60	63.62	.67	
11/16	13:51:15	319.2500	2900.78	63.63	.18	
11/16	13:51:30	319.5000	2901.24	63.64	.46	
11/16	13:51:45	319.7500	2901.42	63.65	.18	
11/16	13:52:00	320.0000	2901.78	63.66	.36	
11/16	13:52:15	320.2500	2902.21	63.68	.43	
11/16	13:52:30	320.5000	2902.64	63.69	.43	
11/16	13:52:45	320.7500	2903.20	63.70	.56	
11/16	13:53:00	321.0000	2903.34	63.71	.14	
11/16	13:53:15	321.2500	2903.80	63.72	.46	

WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date MM/DD	Time hh:mm:ss	Test Time mmmmmm.mmmmm	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
11/16	13:53:30	321.5000	2903.98	63.72	.18	
11/16	13:53:45	321.7500	2904.51	63.74	.53	
11/16	13:54:00	322.0000	2904.70	63.74	.19	
11/16	13:54:15	322.2500	2905.05	63.75	.36	
11/16	13:54:30	322.5000	2905.48	63.76	.43	
11/16	13:54:45	322.7500	2906.04	63.77	.56	
11/16	13:55:00	323.0000	2906.19	63.78	.14	END RATE #16 - 8.0 BPM
11/16	13:55:15	323.2500	2880.69	63.80	-25.49	BEGIN FALL-OFF TEST
11/16	13:55:30	323.5000	2858.70	63.81	-21.99	
11/16	13:55:45	323.7500	2846.99	63.83	-11.71	
11/16	13:56:00	324.0000	2837.57	63.85	-9.42	
11/16	13:56:15	324.2500	2829.86	63.86	-7.71	
11/16	13:56:30	324.5000	2822.72	63.87	-7.14	
11/16	13:56:45	324.7500	2816.44	63.89	-6.28	
11/16	13:57:00	325.0000	2810.58	63.91	-5.85	
11/16	13:57:15	325.2500	2805.44	63.92	-5.14	
11/16	13:57:30	325.5000	2800.58	63.94	-4.85	
11/16	13:57:45	325.7500	2795.87	63.95	-4.71	
11/16	13:58:00	326.0000	2791.59	63.97	-4.29	
11/16	13:58:15	326.2500	2787.44	64.01	-4.14	
11/16	13:58:30	326.5000	2783.44	64.10	-4.01	
11/16	13:58:45	326.7500	2779.58	64.18	-3.86	
11/16	13:59:00	327.0000	2775.86	64.27	-3.72	
11/16	13:59:15	327.2500	2772.28	64.36	-3.58	
11/16	13:59:30	327.5000	2768.70	64.45	-3.58	
11/16	13:59:45	327.7500	2765.27	64.53	-3.43	
11/16	14:00:00	328.0000	2761.98	64.62	-3.29	5 MINUTES
11/16	14:00:15	328.2500	2758.69	64.71	-3.29	
11/16	14:00:30	328.5000	2755.54	64.79	-3.15	
11/16	14:00:45	328.7500	2752.68	64.88	-2.86	
11/16	14:01:00	329.0000	2749.67	64.97	-3.01	
11/16	14:01:15	329.2500	2746.80	65.10	-2.87	
11/16	14:01:30	329.5000	2743.80	65.22	-3.01	
11/16	14:01:45	329.7500	2741.07	65.35	-2.72	
11/16	14:02:00	330.0000	2738.35	65.48	-2.72	
11/16	14:02:15	330.2500	2735.77	65.60	-2.58	
11/16	14:02:30	330.5000	2733.19	65.73	-2.58	
11/16	14:02:45	330.7500	2730.61	65.86	-2.58	
11/16	14:03:00	331.0000	2728.18	65.99	-2.44	
11/16	14:03:15	331.2500	2725.88	66.11	-2.29	
11/16	14:03:30	331.5000	2723.44	66.24	-2.44	
11/16	14:03:45	331.7500	2721.15	66.36	-2.29	
11/16	14:04:00	332.0000	2718.86	66.49	-2.29	
11/16	14:04:15	332.2500	2716.71	66.61	-2.15	
11/16	14:04:30	332.5000	2714.56	66.71	-2.15	
11/16	14:04:45	332.7500	2712.27	66.81	-2.29	
11/16	14:05:00	333.0000	2710.26	66.91	-2.01	10 MINUTES
11/16	14:05:15	333.2500	2708.11	67.01	-2.15	
11/16	14:05:30	333.5000	2706.25	67.10	-1.86	
11/16	14:05:45	333.7500	2704.10	67.21	-2.15	
11/16	14:06:00	334.0000	2702.24	67.30	-1.86	
11/16	14:06:15	334.2500	2700.24	67.40	-2.00	
11/16	14:06:30	334.5000	2698.23	67.50	-2.01	
11/16	14:06:45	334.7500	2696.23	67.60	-2.00	
11/16	14:07:00	335.0000	2694.51	67.69	-1.72	
11/16	14:07:15	335.2500	2692.65	67.78	-1.86	
11/16	14:07:30	335.5000	2690.79	67.85	-1.86	
11/16	14:07:45	335.7500	2688.93	67.92	-1.86	
11/16	14:08:00	336.0000	2687.21	67.99	-1.72	
11/16	14:08:15	336.2500	2685.35	68.06	-1.86	
11/16	14:08:30	336.5000	2683.49	68.14	-1.86	
11/16	14:08:45	336.7500	2681.92	68.20	-1.57	
11/16	14:09:00	337.0000	2680.20	68.28	-1.72	
11/16	14:09:15	337.2500	2678.34	68.35	-1.86	
11/16	14:09:30	337.5000	2676.63	68.42	-1.72	

WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date	Time	Test Time	Pressure	Temp	deltaP	Comment
MM/DD	hh:mm:ss	mmmmmm.mmmmm	Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Psi Atm.
11/16	14:09:45	337.7500	2674.91	68.49	-1.72	
11/16	14:10:00	338.0000	2673.34	68.56	-1.57	15 MINUTES
11/16	14:10:15	338.2500	2671.62	68.62	-1.72	
11/16	14:10:30	338.5000	2670.05	68.68	-1.57	
11/16	14:10:45	338.7500	2668.19	68.74	-1.86	
11/16	14:11:00	339.0000	2666.62	68.79	-1.57	
11/16	14:11:15	339.2500	2665.04	68.86	-1.57	
11/16	14:11:30	339.5000	2663.47	68.91	-1.57	
11/16	14:11:45	339.7500	2661.90	68.96	-1.57	
11/16	14:12:00	340.0000	2660.33	69.02	-1.57	TANDEM ELEC. MEMORY INST. OFF BOTTOM
11/16	14:12:15	340.2500	2655.90	69.08	-4.42	
11/16	14:12:30	340.5000	2637.79	69.13	-18.11	
11/16	14:12:45	340.7500	2615.27	69.19	-22.53	
11/16	14:13:00	341.0000	2589.89	69.25	-25.38	
11/16	14:13:15	341.2500	2554.40	69.31	-35.49	
11/16	14:13:30	341.5000	2518.20	69.29	-36.20	
11/16	14:13:45	341.7500	2481.01	69.28	-37.19	
11/16	14:14:00	342.0000	2441.40	69.26	-39.61	
11/16	14:14:15	342.2500	2398.37	69.24	-43.03	
11/16	14:14:30	342.5000	2338.82	69.23	-59.55	
11/16	14:14:45	342.7500	2277.99	69.21	-60.83	
11/16	14:15:00	343.0000	2216.03	69.20	-61.96	
11/16	14:15:15	343.2500	2154.08	69.18	-61.95	
11/16	14:15:30	343.5000	2091.43	69.17	-62.66	
11/16	14:15:45	343.7500	2028.35	69.15	-63.07	
11/16	14:16:00	344.0000	1965.00	69.13	-63.35	
11/16	14:16:15	344.2500	1901.08	69.08	-63.92	
11/16	14:16:30	344.5000	1837.17	68.94	-63.92	
11/16	14:16:45	344.7500	1772.40	68.79	-64.77	
11/16	14:17:00	345.0000	1707.77	68.64	-64.62	
11/16	14:17:15	345.2500	1642.87	68.49	-64.90	
11/16	14:17:30	345.5000	1577.26	68.34	-65.61	
11/16	14:17:45	345.7500	1512.08	68.19	-65.18	
11/16	14:18:00	346.0000	1445.76	68.04	-66.32	
11/16	14:18:15	346.2500	1378.74	67.89	-67.02	
11/16	14:18:30	346.5000	1312.29	67.74	-66.45	
11/16	14:18:45	346.7500	1245.70	67.59	-66.59	
11/16	14:19:00	347.0000	1178.55	67.45	-67.15	
11/16	14:19:15	347.2500	1110.95	67.20	-67.60	
11/16	14:19:30	347.5000	1047.34	66.98	-63.61	
11/16	14:19:45	347.7500	992.26	66.76	-55.08	
11/16	14:20:00	348.0000	957.94	66.53	-34.32	
11/16	14:20:15	348.2500	926.03	66.32	-31.90	
11/16	14:20:30	348.5000	909.05	66.09	-16.98	
11/16	14:20:45	348.7500	904.44	65.87	-4.61	
11/16	14:21:00	349.0000	903.93	65.65	-.51	
11/16	14:21:15	349.2500	8.34	65.43	-895.59	
11/16	14:21:30	349.5000	.01	65.21	-8.33	
11/16	14:21:45	349.7500	.01	64.98	.00	
11/16	14:22:00	350.0000	.01	64.77	.00	
11/16	14:22:15	350.2500	.01	64.71	.00	
11/16	14:22:30	350.5000	.01	64.72	.00	
11/16	14:22:45	350.7500	.01	64.74	.00	
11/16	14:23:00	351.0000	.01	64.77	.00	
11/16	14:23:15	351.2500	.01	64.79	.00	
11/16	14:23:30	351.5000	.01	64.81	.00	
11/16	14:23:45	351.7500	.01	64.82	.00	
11/16	14:24:00	352.0000	.01	64.84	.00	
11/16	14:24:15	352.2500	.01	64.86	.00	
11/16	14:24:30	352.5000	.01	64.88	.00	
11/16	14:24:45	352.7500	.01	64.90	.00	
11/16	14:25:00	353.0000	.01	64.92	.00	
11/16	14:26:00	354.0000	.01	64.81	.00	
11/16	14:27:00	355.0000	.01	64.51	.00	
11/16	14:28:00	356.0000	.01	64.22	.00	

COMPANY: ROSETTA RESOURCES, INC.

PAGE 21 OF 21

WELL NAME : TSAH TAH SWD NO. 36

DATE : 11/20/07

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F227B19.DAT

Date MM/DD	Time hh:mm:ss	Test Time mmmmmm.mmmm	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
11/16	14:29:00	357.0000	.01	63.93	.00	
11/16	14:30:00	358.0000	.01	63.64	.00	
11/16	14:31:00	359.0000	.01	63.42	.00	
11/16	14:32:00	360.0000	.01	63.20	.00	
11/16	14:33:00	361.0000	.01	62.97	.00	
11/16	14:34:00	362.0000	.01	62.81	.00	
11/16	14:35:00	363.0000	.01	62.70	.00	
11/16	14:36:00	364.0000	.01	62.58	.00	
11/16	14:37:00	365.0000	.01	62.47	.00	
11/16	14:38:00	366.0000	.01	62.40	.00	
11/16	14:39:00	367.0000	.01	62.42	.00	
11/16	14:40:00	368.0000	.01	62.45	.00	
11/16	14:41:00	369.0000	.01	62.47	.00	

ROSETTA RESOURCES, INC.

TSAH TAH SHD NO. 36
SAN JUAN COUNTY, NM
F227B19.DAT

TEFTIELLER, INC.
11-16-87
STEP RATE & FALL-OFF (15 MINUTE) TESTS

Pressure vs dt

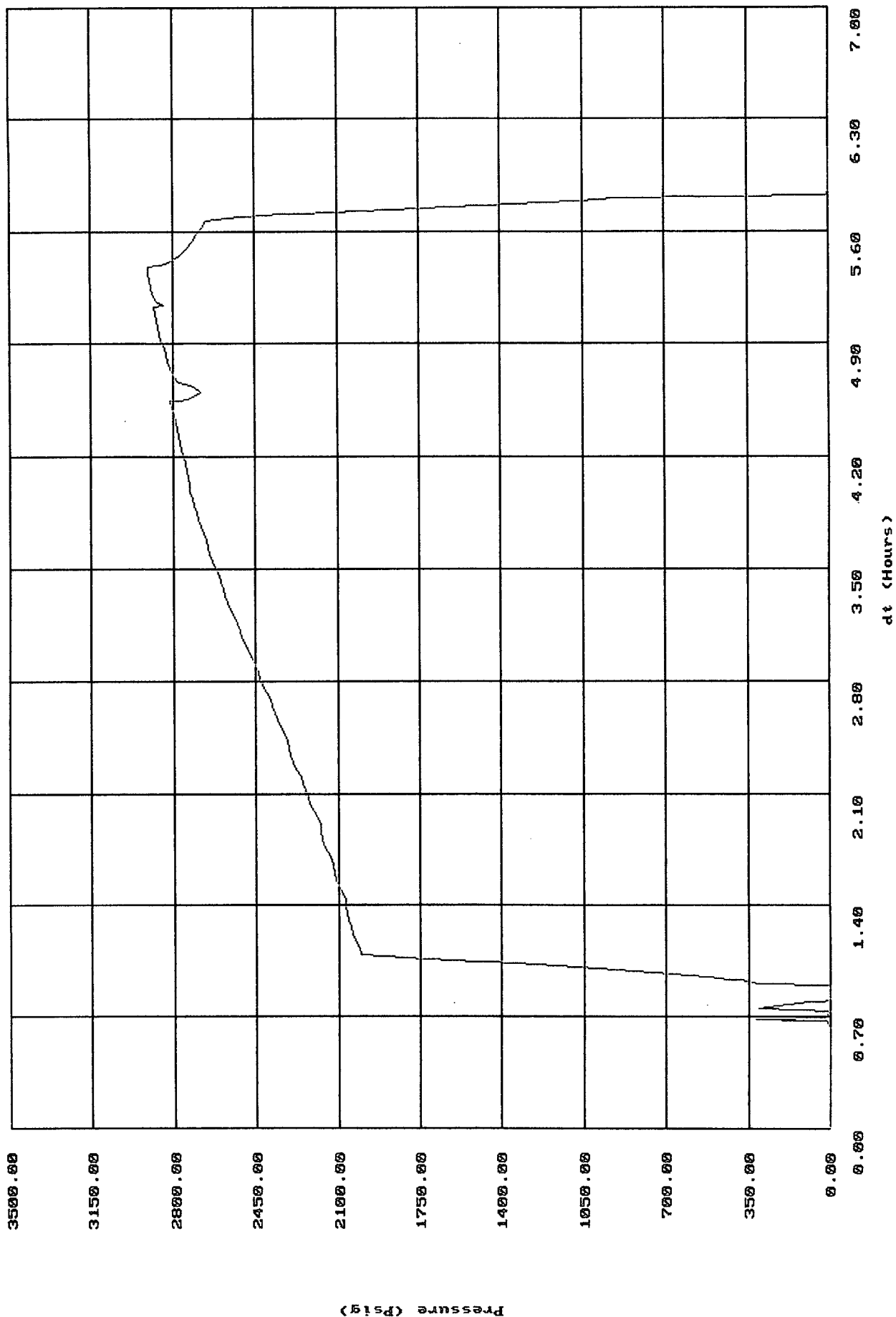
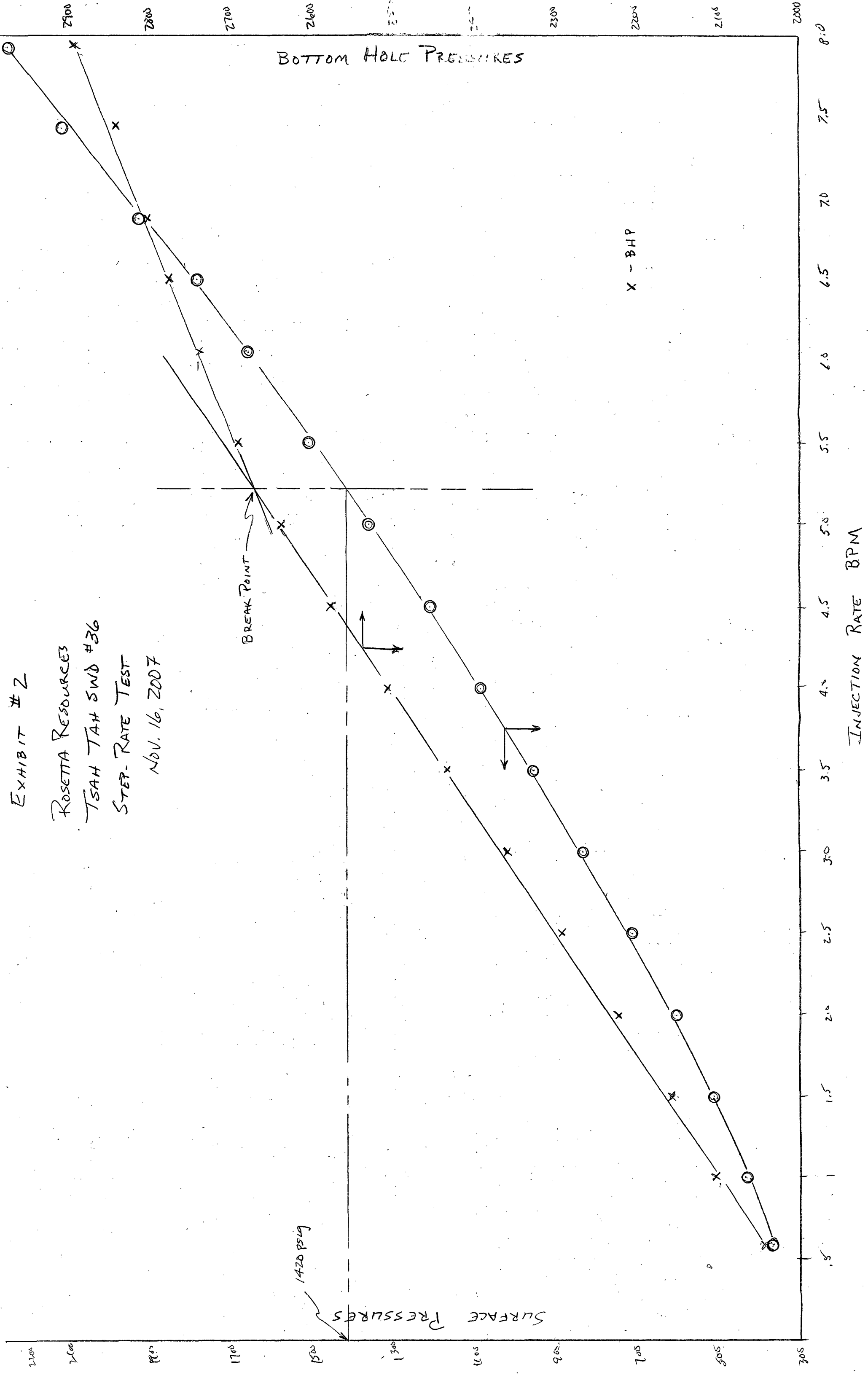


EXHIBIT #2

ROSETTA RESOURCES
TSAH T4H SWD #36
STEP-RATE TEST
NOV. 16, 2007



WORKOVER AND COMPLETION REPORT

Operator: **Rosetta Resources** Well Name: **Tsah Tah SWD #36**
Date: **16-Nov-07** Report #: **1**
Field: **Mesa Verde** Location: **36/25N/10W** County: **San Juan** State: **NM**
Contractor: **Halliburton** Supervisor: **Paul Thompson**

Work Summary:

Rigged up Tefteller and set a bottom hole pressure gauge at the mid-point of the perfs at 3879' KB. Rigged up Halliburton and pressure tested the lines to 3,500 psi. Initial tubing pressure was 325 psi and the initial casing pressure was 49 psi. Started injecting filtered produced water at 0.5 BPM at 9:45 hrs. Increased the injection rate in 0.5 BPM increments to a maximum of 8.0 BPM every 15 minutes. Maximum injection pressure was 2260 psi. SD at 1355 hrs. 11/16/07. ISIP = 1150 psi, 5 min. = 1044 psi, 10 min. = 992 psi, 15 min. = 956 psi. SI the well and rigged down Halliburton.

Daily Costs:

Road & Location
Rig Costs
Equipment Rental
Logging & Perforating
Stimulation
Testing
Cementing
Completion Fluids
Contract Services(BHPB)
Miscellaneous Supplies(Pkr Fluid)
Engr. & Supervision
Trucking
Other Slickline plug

\$3,840
\$2,500
\$800

Tubulars
Wellhead Equipment
Subsurface Equipment
Artificial Lift Equipment
Sucker Rods
Tanks
Packer
Flowlines
Installation/Labor
Fittings, Valves, Etc..
Meters, Lact, Etc..
Electrical Equipment

\$1,250

Total Daily Costs **\$8,390**
Cumulative Costs **\$8,390**

Well Record

TD:	4490' KB
PBTD:	4446' KB
Casing Size:	5-1/2", 15.5#
DV @ 1875' 14' KB	
Perforations	PL: 4197'- 4381' @ 2spf 376 holes
Men:3376'-3416'; 3506'-20'; 3686'-92'; 3698'-3712'; 3716'-26'	
3750'-58'; 3765'-72'; 3776'-94';3820'-24'; 3828'-48'; 3882'-90'	
3954'-78'; 3996'-4003'; 4025'-30'; 4033'-38'; 4106'-36'	
2 SPF total of 440 holes (0.34") prev. perfs 3378 - 4134 43 holes	
Pulled from well	
Tubing	
Packer	
Rods	
Pump	

Run in well					
Tubing	2-7/8"	Joints	106	Grade	J-55
Wt	6.5	Thread	EUE8rd	Length	3293.51
Packer	Weather Arrow set 1-X nickel coated			Length	8.98
	GL to Tubing Hanger			Length	-1.50
	Top of tbg to KB				12.00
	Bottom of Tubing/Production String Landed at:				3312.99
Rods		Size			
Rods		Size			
Pony subs					
Pump					
Packer Depth	3312.99'				
Type	Weather Arrow set 1-X nickel coated				
How set	13K Compression				

ROSETTA RESOURCES INC
Tsah Tah SWD #36
Step Rate Test

S: 36 T:25N R:10W

Interval 1
San Juan County, NM

Sales Order: 5496618

Post Job Report

For: Paul Thompson
Date: Friday, November 16, 2007

Notice: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

HALLIBURTON

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1.0 WELL INFORMATION

1.1 Customer Information

Customer	ROSETTA RESOURCES INC
Sales Order	5496618
Well Name	TAH TAH SWD
Interval	1
Well Number	#36
Start Time	16-Nov-07 08:08:19
UWI/API	AFEYKLXZQ2I1B3AFAAA
Country	United States of America
H2S Present	No
CO2 Present	No
Customer Representative	Paul Thompson
Halliburton Representative	Jay Davis

1.2 Wellbore Geometry

Equipment	Top MD ft	Bottom MD ft	OD in	ID in	Grade	Weight lb/ft
Casing	0.0	4850.0	5.500	4.892	J-55	17.00
Tubing	0.0	3351.0	2.375	1.995	J-55	4.60
Surface Pipe	0.0	1.0	2.620	1.870		

1.3 Perforation Intervals

Top MD ft	Bottom MD ft	Number of Shots	Perf Density spf	Perf Diameter in
3376.0	4381.0	200	0.2	0.440

1.4 Initial Fluid Position Pressures

Expected Bottom Hole Pressure	1948.000	psi
Reservoir Pressure	1469.677	psi
Fluid in Tubing	Brine	

1.5 Temperature Profile Information

Ambient Temperature	60.0	°F
Injected Fluid	60.0	°F
Proppant	60.0	°F
Earth Surface	60.0	°F
BH Static	112.0	°F
Gradient	1.07	°F/(100*ft)

HALLIBURTON

2.0 PUMPING SCHEDULE

2.1 Designed Pumping Schedule

Stage Number	Description	Fluid System	Clean Volume gal	Slurry Volume gal	Rate Stage Start bpm	Rate Stage End bpm	Stage Time min
1	.5 bpm	FRESH WATER	320	320	0.5	0.5	15.24
2	1 bpm	FRESH WATER	630	630	1.0	1.0	15.00
3	1.5 bpm	FRESH WATER	945	945	1.5	1.5	15.00
4	2 bpm	FRESH WATER	1260	1260	2.0	2.0	15.00
5	2.5 bpm	FRESH WATER	1575	1575	2.5	2.5	15.00
6	3 bpm	FRESH WATER	1890	1890	3.0	3.0	15.00
7	3.5 bpm	FRESH WATER	2205	2205	3.5	3.5	15.00
8	4 bpm	FRESH WATER	2520	2520	4.0	4.0	15.00
9	4.5 bpm	FRESH WATER	2835	2835	4.5	4.5	15.00
10	5 bpm	FRESH WATER	3150	3150	5.0	5.0	15.00
11	5.5 bpm	FRESH WATER	3465	3465	5.5	5.5	15.00
12	6 bpm	FRESH WATER	3780	3780	6.0	6.0	15.00
13	6.5 bpm	FRESH WATER	4095	4095	6.5	6.5	15.00
14	7 bpm	FRESH WATER	4410	4410	7.0	7.0	15.00
15	7.5 bpm	FRESH WATER	4725	4725	7.5	7.5	15.00
16	8 bpm	FRESH WATER	5040	5040	8.0	8.0	15.00
17	Shut-In	HCL ACID 15% - SBM (27012)	0	0			0.00
Total			42845	42845			240.24

3.0 ACTUAL STAGE SUMMARY

3.1 Stage Summary

Stage Number	Start Time	Max Treating Pressure psi	Avg Treating Pressure psi	Max Slurry Rate bpm	Avg Slurry Rate bpm	Avg Clean Rate bpm	Slurry Volume gal
1	09:41:18	410	368	1.0	0.6	0.6	447
2	10:00:36	476	436	1.5	1.0	1.0	632
3	10:15:19	558	511	2.0	1.5	1.5	950
4	10:30:19	669	606	2.5	2.0	2.0	1261
5	10:45:16	778	715	3.0	2.5	2.5	1574
6	11:00:15	1009	832	4.0	3.0	3.0	1920
7	11:15:22	1028	953	4.0	3.5	3.5	2164
8	11:30:10	1253	1087	4.9	4.0	4.0	2570
9	11:45:27	1325	1212	5.0	4.5	4.5	2805
10	12:00:18	1471	1362	5.5	5.0	5.0	3101
11	12:15:05	1603	1509	6.0	5.5	5.5	3527
12	12:30:20	2029	1658	7.6	6.1	6.1	4162
13	12:46:40	2132	1783	7.8	6.5	6.5	3868
14	13:00:47	2258	1925	8.2	6.8	6.8	5764
15	13:25:19	2324	2122	8.1	7.4	7.4	4920
16	13:41:41	2272	2249	8.1	7.9	7.9	4533
Total							44197

Stage Number	Start Time	Clean Volume gal	Avg HHP hp
1	09:41:18	447	5
2	10:00:36	632	11
3	10:15:19	950	19
4	10:30:19	1261	30
5	10:45:16	1574	44
6	11:00:15	1920	62
7	11:15:22	2164	81
8	11:30:10	2570	107
9	11:45:27	2805	134
10	12:00:18	3101	167
11	12:15:05	3527	204
12	12:30:20	4162	247
13	12:46:40	3868	285
14	13:00:47	5764	323
15	13:25:19	4920	384
16	13:41:41	4533	438
Total		44197	

3.2 Bottom Hole Stage Summary

Stage Number	Start Time	Max BH Pressure psi	Avg BH Pressure psi	Max BH Rate bpm	Avg BH Rate bpm
WB/SL	09:41:18	1184	1184	0.0	0.0
WB/SL	09:41:29	1884	1298	0.0	0.0
1	10:02:48	1861	1848	1.0	1.0
2	10:13:20	1920	1857	1.5	1.4
3	10:23:52	1882	1868	2.0	1.7
4	10:36:49	1905	1884	2.5	2.2
5	10:50:27	1914	1886	3.0	2.7
6	11:04:33	1908	1878	4.0	3.1
7	11:19:04	2086	1867	4.0	3.6
8	11:33:25	2006	1831	4.9	4.1
9	11:48:20	1860	1776	5.0	4.6
10	12:02:54	1757	1726	5.5	5.1
11	12:17:26	1730	1646	6.1	5.6
12	12:32:29	1893	1535	7.6	6.1
13	12:48:39	1780	1424	7.8	6.6
14	13:02:38	2588	1711	8.3	5.6
15	13:27:02	2638	1309	8.1	7.2
16	13:43:18	2802	1816	8.1	4.3

4.0 PERFORMANCE HIGHLIGHTS

4.1 Job Summary

Start Time	16-Nov-07 09:41:18	
End Time	16-Nov-07 14:11:15	
Time	269.94	min
Pump Time	248.79	min
Max Treating Pressure	2324	psi
Avg Treating Pressure	1208	psi
Avg Clean Rate	4.2	bpm
Clean Volume	44197	gal
Max Slurry Rate	8.2	bpm
Avg Slurry Rate	4.2	bpm
Slurry Volume	44197	gal
Max WH Rate	8.2	bpm
Avg WH Rate	4.2	bpm
WH Volume	44197	gal
Avg HHP	125	hp
BH Max Treating Pressure	2802	psi
BH Avg Treating Pressure	1698	psi
BH Max Rate	8.3	bpm
BH Avg Rate	3.9	bpm
BH Slurry Volume	45481	gal
BH Clean Volume	45481	gal
Load to Recover	44197	gal

4.2 Job Stage Log

Time	Description	Comment	Treating Pressure psi	Calc'd BH Pres psi	Slurry Rate bpm	Job Slurry Vol gal	Hydraulic Power hp
16-Nov-07 09:41:19	Stage 1	.5 bpm	319	1184	0.0	0	0
10:00:36	Stage 2	1 bpm	410	1613	1.0	447	10
10:15:20	Stage 3	1.5 bpm	476	1836	1.5	1079	17
10:30:20	Stage 4	2 bpm	559	1837	2.0	2031	27
10:45:16	Stage 5	2.5 bpm	669	1849	2.5	3290	41
11:00:16	Stage 6	3 bpm	778	1843	3.0	4864	56
11:15:23	Stage 7	3.5 bpm	930	1844	3.5	6785	80
11:30:11	Stage 8	4 bpm	1028	1792	4.0	8949	100
11:45:27	Stage 9	4.5 bpm	1213	1776	4.5	11519	135
12:00:19	Stage 10	5 bpm	1325	1701	5.0	14323	162
12:15:05	Stage 11	5.5 bpm	1471	1610	5.5	17424	199
12:30:21	Stage 12	6 bpm	1603	1526	6.0	20955	235
12:46:41	Stage 13	6.5 bpm	1742	1530	6.5	25113	276
13:00:48	Stage 14	7 bpm	1937	1472	7.0	28981	332
13:25:20	Stage 15	7.5 bpm	2104	1481	7.5	34744	387
13:41:41	Stage 16	8 bpm	2219	1184	8.0	39664	433

4.3 Job Event Log

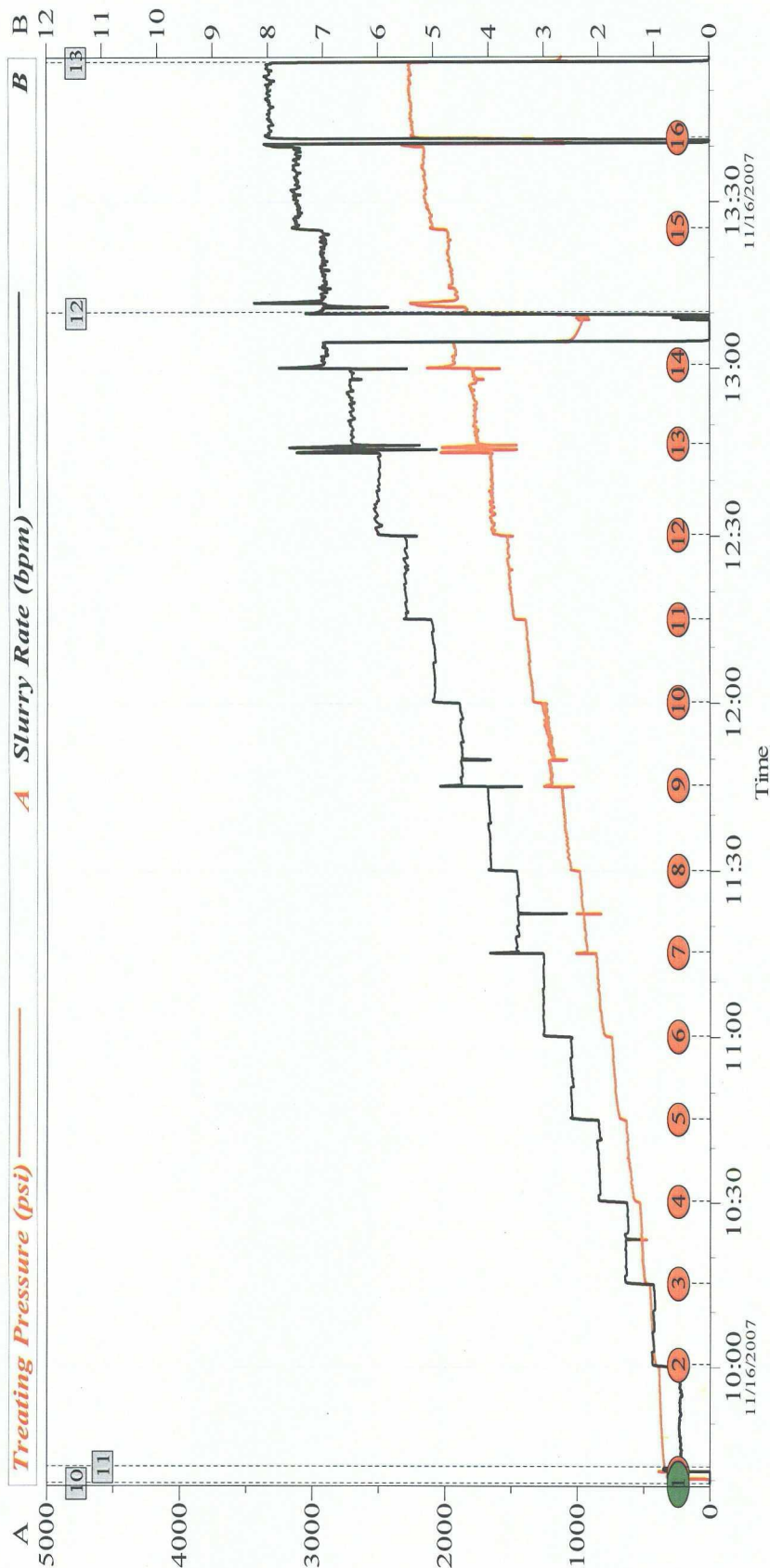
Time	Description	Comment	Treating Pressure psi	Calc'd BH Pres psi	Slurry Rate bpm	Job Slurry Vol gal	Hydraulic Power hp
16-Nov-07 06:00:00	Depart Yard Safety Meeting						
07:10:00	Arrive at Location from Service Center						
07:15:00	Pre-Rig Up Safety Meeting						
07:20:00	Rig-Up Equipment						
08:01:00	Rig-Up Completed						
08:01:30	Other	Waiting to change wellhead over					
08:45:00	Pre-Job Safety Meeting						
09:25:00	Pressure Test						
09:30:37	Other	Slickline going into hole					
09:39:22	Start Job	Starting Job					
09:39:22	Next Treatment	Treatment Interval 1					
09:41:19	Stage 1	.5 bpm	319	1184	0.0	0	0
09:42:21	Other	start time .5 bbl.	344	1184	0.5	27	4
10:00:36	Stage 2	1 bpm	410	1613	1.0	447	10
10:15:20	Stage 3	1.5 bpm	476	1836	1.5	1079	17
10:30:20	Stage 4	2 bpm	559	1837	2.0	2031	27
10:45:16	Stage 5	2.5 bpm	669	1849	2.5	3290	41
11:00:16	Stage 6	3 bpm	778	1843	3.0	4864	56
11:15:23	Stage 7	3.5 bpm	930	1844	3.5	6785	80
11:30:11	Stage 8	4 bpm	1028	1792	4.0	8949	100
11:45:27	Stage 9	4.5 bpm	1213	1776	4.5	11519	135
12:00:19	Stage 10	5 bpm	1325	1701	5.0	14323	162
12:15:05	Stage 11	5.5 bpm	1471	1610	5.5	17424	199
12:30:21	Stage 12	6 bpm	1603	1526	6.0	20955	235
12:46:41	Stage 13	6.5 bpm	1742	1530	6.5	25113	276
13:00:48	Stage 14	7 bpm	1937	1472	7.0	28981	332
13:10:14	Other		1852	1235	7.1	30306	322
13:25:20	Stage 15	7.5 bpm	2104	1481	7.5	34744	387
13:41:41	Stage 16	8 bpm	2219	1184	8.0	39664	433
13:55:21	Other	ISIP	1130	2601	0.1	44197	2
14:00:21	Other	Pressure @ 5 min.	1042	2512	0.0	44197	0
14:05:21	Other	Pressure @10 min.	992	2462	0.0	44197	0
14:10:21	Other	Pressure @ 15 min.	956	2425	0.0	44197	0

HALLIBURTON

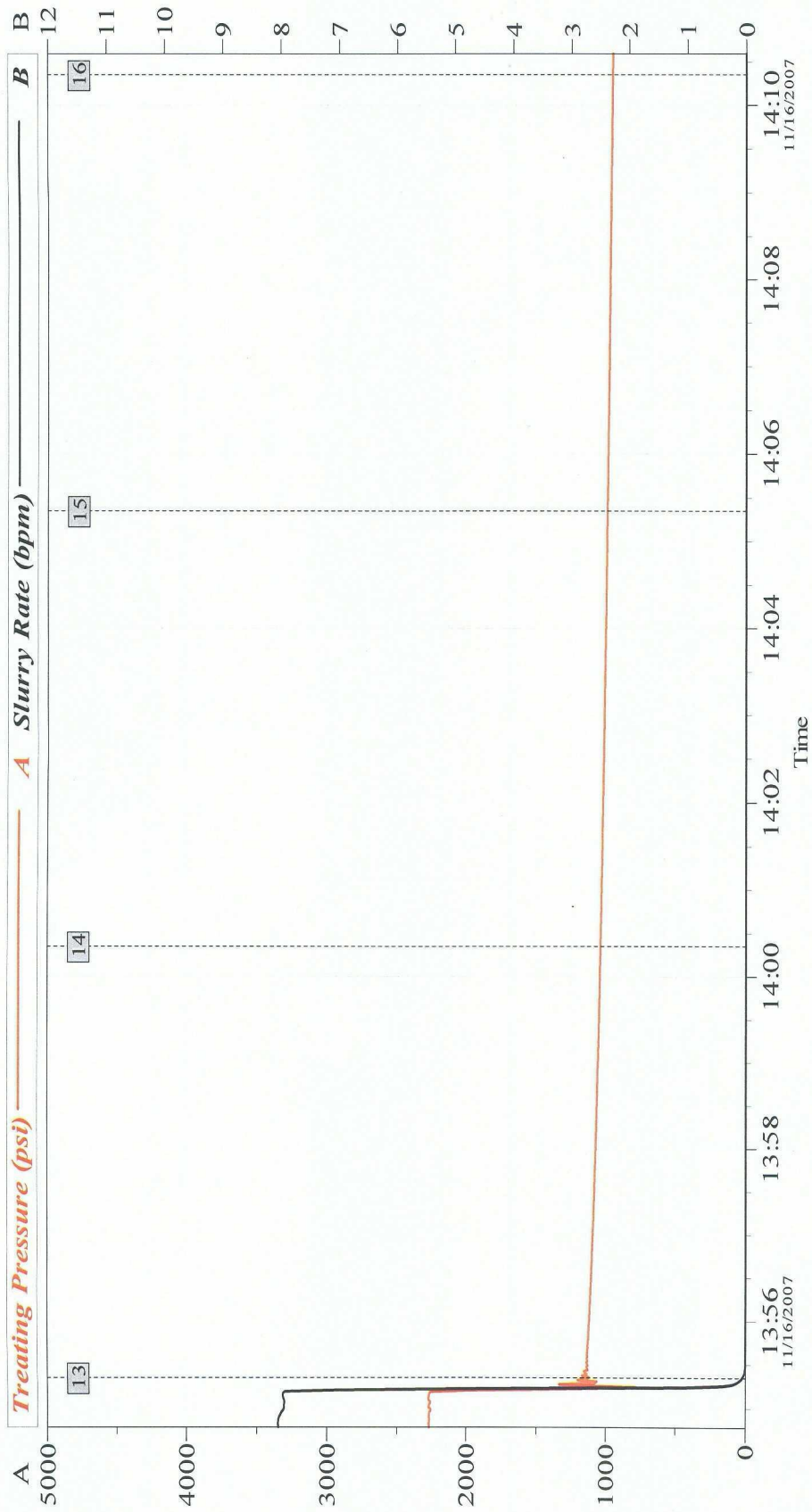
Time	Description	Comment	Treating Pressure psi	Calc'd BH Pres psi	Slurry Rate bpm	Job Slurry Vol gal	Hydraulic Power hp
14:10:55	Post-Job Safety Meeting (Pre Rig-Down)		953	2422	0.0	44197	0
14:11:15	End Job	Ending Job	950	2420	0.0	44197	0
14:13:46	Rig-Down Equipment		950	2420	0.0	44197	0
14:45:00	Depart Location Safety Meeting		950	2420	0.0	44197	0
14:50:00	Depart Location for Service Center or Other Site		950	2420	0.0	44197	0

5.0 ATTACHMENTS

5.1 Step test



5.2 Shut-in plot



Time (hh:mm:ss)	Treating Pressure (psi)	Calc'd BH Pres (psi)	Slurry Rate (bpm)	Job Slurry Vol (gal)	Hydraulic Power (hp)
09:39:22	Event	Starting Job			
09:39:22	Treatment 1	Treatment Interval 1			
09:39:40	2	1184	0.0	0	0
09:40:00	2	1184	0.0	0	0
09:40:20	290	1184	0.0	0	0
09:40:40	324	1184	0.0	0	0
09:41:00	321	1184	0.0	0	0
09:41:19	Stage 1	.5 bpm			
09:41:20	319	1184	0.0	0	0
09:41:40	342	1184	0.8	5	7
09:42:00	351	1184	0.8	17	7
09:42:20	344	1184	0.5	27	4
09:42:21	Event	start time .5 bbl.			
09:42:40	344	1184	0.5	34	4
09:43:00	346	1184	0.5	41	4
09:43:20	347	1184	0.5	48	4
09:43:40	349	1184	0.5	55	4
09:44:00	350	1184	0.5	62	5
09:44:20	352	1184	0.5	70	5
09:44:40	353	1184	0.5	77	5
09:45:00	355	1184	0.5	84	5
09:45:20	356	1184	0.5	92	5
09:45:40	357	1184	0.5	99	5
09:46:00	358	1184	0.5	107	5
09:46:20	359	1184	0.5	114	5
09:46:40	360	1184	0.5	121	5
09:47:00	361	1184	0.5	129	5
09:47:20	362	1184	0.5	136	5
09:47:40	363	1184	0.5	144	5
09:48:00	364	1184	0.5	152	5
09:48:20	364	1184	0.5	159	5
09:48:40	365	1184	0.6	167	5
09:49:00	366	1184	0.6	175	5
09:49:20	367	1184	0.6	183	5
09:49:40	368	1184	0.6	190	5
09:50:00	368	1184	0.6	198	5
09:50:20	369	1184	0.6	206	5
09:50:40	369	1184	0.5	214	5
09:51:00	370	1184	0.6	221	5
09:51:20	371	1184	0.5	229	5
09:51:40	371	1184	0.5	237	5
09:52:00	372	1184	0.5	244	5
09:52:20	373	1184	0.6	252	5
09:52:40	373	1184	0.5	259	5
09:53:00	374	1184	0.6	267	5
09:53:20	374	1184	0.5	275	5
09:53:40	375	1184	0.5	282	5
09:54:00	375	1184	0.5	290	5
09:54:20	376	1184	0.5	297	5
09:54:40	376	1184	0.5	305	5
09:55:00	377	1220	0.5	312	5
09:55:20	377	1240	0.5	319	5
09:55:40	378	1260	0.5	327	5
09:56:00	378	1280	0.5	334	5
09:56:20	379	1301	0.5	342	5
09:56:40	380	1322	0.5	349	5

Time (hh:mm:ss)	Treating Pressure (psi)	Calc'd BH Pres (psi)	Slurry Rate (bpm)	Job Slurry Vol (gal)	Hydraulic Power (hp)
09:57:00	380	1343	0.5	357	5
09:57:20	381	1364	0.5	365	5
09:57:40	381	1384	0.6	372	5
09:58:00	382	1406	0.5	380	5
09:58:20	382	1427	0.5	388	5
09:58:40	382	1448	0.6	395	5
09:59:00	383	1468	0.5	403	5
09:59:20	383	1488	0.5	410	5
09:59:40	383	1509	0.5	418	5
10:00:00	384	1529	0.5	425	5
10:00:20	403	1576	1.0	436	10
10:00:36	Stage 2 1 bpm				
10:00:40	410	1620	1.0	450	10
10:01:00	413	1661	1.0	465	11
10:01:20	415	1704	1.0	479	11
10:01:40	417	1746	1.0	494	11
10:02:00	420	1787	1.0	508	11
10:02:20	420	1825	1.0	523	11
10:02:40	423	1869	1.1	538	11
10:03:00	422	1833	1.0	552	10
10:03:20	423	1835	1.0	566	10
10:03:40	424	1836	1.0	581	10
10:04:00	425	1836	1.0	595	11
10:04:20	426	1837	1.0	609	11
10:04:40	428	1838	1.0	623	11
10:05:00	429	1839	1.0	638	11
10:05:20	430	1839	1.0	652	11
10:05:40	433	1842	1.0	666	11
10:06:00	433	1842	1.0	681	11
10:06:20	434	1843	1.0	695	11
10:06:40	435	1847	1.0	709	11
10:07:00	435	1847	1.0	724	11
10:07:20	436	1847	1.0	738	11
10:07:40	437	1848	1.0	752	11
10:08:00	437	1849	1.0	766	11
10:08:20	438	1849	1.0	780	11
10:08:40	439	1850	1.0	794	11
10:09:00	441	1852	1.0	808	11
10:09:20	442	1852	1.0	823	11
10:09:40	443	1853	1.0	837	11
10:10:00	444	1854	1.0	851	11
10:10:20	444	1855	1.0	866	11
10:10:40	444	1857	1.0	880	11
10:11:00	444	1857	1.0	894	11
10:11:20	445	1858	1.0	908	11
10:11:40	445	1858	1.0	922	11
10:12:00	446	1859	1.0	936	11
10:12:20	447	1859	1.0	950	11
10:12:40	447	1860	1.0	964	11
10:13:00	448	1860	1.0	978	11
10:13:20	449	1861	1.0	992	11
10:13:40	450	1862	1.0	1006	11
10:14:00	451	1862	1.0	1020	11
10:14:20	452	1863	1.0	1034	11
10:14:40	451	1862	1.0	1048	11
10:15:00	453	1863	1.0	1062	11

Time (hh:mm:ss)	Treating Pressure (psi)	Calc'd BH Pres (psi)	Slurry Rate (bpm)	Job Slurry Vol (gal)	Hydraulic Power (hp)
10:15:20	479	1837	1.5	1080	17
10:15:20 Stage 3		1.5 bpm			
10:15:40	492	1841	1.5	1101	18
10:16:00	490	1839	1.5	1123	18
10:16:20	493	1842	1.5	1144	18
10:16:40	497	1849	1.5	1166	18
10:17:00	498	1851	1.5	1187	18
10:17:20	498	1851	1.5	1208	18
10:17:40	498	1851	1.5	1229	18
10:18:00	499	1850	1.5	1250	19
10:18:20	503	1854	1.5	1271	19
10:18:40	503	1855	1.5	1293	19
10:19:00	503	1855	1.5	1314	19
10:19:20	506	1858	1.5	1335	19
10:19:40	510	1862	1.5	1356	19
10:20:00	507	1858	1.5	1377	19
10:20:20	505	1857	1.5	1399	19
10:20:40	508	1859	1.5	1420	19
10:21:00	508	1860	1.5	1441	19
10:21:20	506	1856	1.5	1462	19
10:21:40	512	1862	1.5	1484	19
10:22:00	508	1859	1.5	1505	19
10:22:20	511	1862	1.5	1526	19
10:22:40	512	1863	1.5	1548	19
10:23:00	513	1864	1.5	1569	19
10:23:20	531	1896	1.4	1589	18
10:23:40	515	1866	1.5	1610	19
10:24:00	516	1866	1.5	1632	19
10:24:20	517	1871	1.5	1653	19
10:24:40	514	1870	1.5	1674	19
10:25:00	516	1873	1.5	1695	19
10:25:20	515	1873	1.5	1715	19
10:25:40	517	1874	1.5	1736	19
10:26:00	517	1873	1.5	1757	19
10:26:20	518	1875	1.5	1777	19
10:26:40	518	1875	1.5	1798	19
10:27:00	519	1875	1.5	1819	19
10:27:20	519	1876	1.5	1840	19
10:27:40	522	1877	1.5	1861	19
10:28:00	522	1877	1.5	1881	19
10:28:20	522	1878	1.5	1902	19
10:28:40	525	1880	1.5	1923	19
10:29:00	524	1880	1.5	1944	19
10:29:20	524	1879	1.5	1965	19
10:29:40	526	1880	1.5	1986	19
10:30:00	527	1881	1.5	2007	19
10:30:20	559	1837	2.0	2031	27
10:30:20 Stage 4		2 bpm			
10:30:40	570	1843	2.0	2059	28
10:31:00	573	1845	2.0	2087	28
10:31:20	577	1849	2.0	2115	28
10:31:40	576	1854	2.0	2143	28
10:32:00	582	1859	2.0	2171	28
10:32:20	580	1857	2.0	2199	28
10:32:40	585	1862	2.0	2227	28
10:33:00	586	1863	2.0	2255	29

Time (hh:mm:ss)	Treating Pressure (psi)	Calc'd BH Pres (psi)	Slurry Rate (bpm)	Job Slurry Vol (gal)	Hydraulic Power (hp)
10:33:20	590	1866	2.0	2282	29
10:33:40	594	1871	2.0	2310	29
10:34:00	592	1869	2.0	2338	29
10:34:20	589	1865	2.0	2366	29
10:34:40	593	1868	2.0	2394	29
10:35:00	594	1869	2.0	2422	29
10:35:20	595	1870	2.0	2450	29
10:35:40	595	1871	2.0	2478	29
10:36:00	598	1873	2.0	2505	29
10:36:20	600	1875	2.0	2533	29
10:36:40	601	1875	2.0	2561	30
10:37:00	608	1882	2.0	2590	30
10:37:20	604	1877	2.0	2618	30
10:37:40	612	1885	2.0	2646	30
10:38:00	609	1881	2.0	2674	30
10:38:20	615	1887	2.0	2702	30
10:38:40	613	1885	2.0	2730	30
10:39:00	616	1888	2.0	2758	30
10:39:20	615	1887	2.0	2787	30
10:39:40	617	1888	2.0	2815	31
10:40:00	617	1886	2.0	2843	31
10:40:20	620	1888	2.0	2872	31
10:40:40	619	1887	2.0	2900	31
10:41:00	620	1888	2.0	2929	31
10:41:20	622	1891	2.0	2957	31
10:41:40	617	1897	2.0	2985	30
10:42:00	621	1898	2.0	3012	30
10:42:20	619	1896	2.0	3040	30
10:42:40	624	1901	2.0	3068	30
10:43:00	626	1902	2.0	3096	31
10:43:20	629	1904	2.0	3124	31
10:43:40	629	1903	2.0	3152	31
10:44:00	629	1902	2.0	3180	31
10:44:20	627	1900	2.0	3208	31
10:44:40	631	1904	2.0	3236	31
10:45:00	633	1905	2.0	3264	31
10:45:16	Stage 5	2.5 bpm			
10:45:20	675	1847	2.5	3297	41
10:45:40	681	1858	2.5	3332	42
10:46:00	684	1861	2.5	3367	42
10:46:20	686	1863	2.5	3402	42
10:46:40	689	1865	2.5	3437	42
10:47:00	691	1868	2.5	3471	42
10:47:20	695	1870	2.5	3506	42
10:47:40	696	1872	2.5	3541	43
10:48:00	697	1874	2.5	3576	43
10:48:20	699	1875	2.5	3611	43
10:48:40	701	1876	2.5	3646	43
10:49:00	703	1878	2.5	3681	43
10:49:20	704	1878	2.5	3716	43
10:49:40	706	1880	2.5	3751	43
10:50:00	707	1880	2.5	3786	43
10:50:20	710	1883	2.5	3821	44
10:50:40	711	1883	2.5	3856	44
10:51:00	712	1885	2.5	3892	44
10:51:20	710	1891	2.5	3926	43

Time (hh:mm:ss)	Treating Pressure (psi)	Calc'd BH Pres (psi)	Slurry Rate (bpm)	Job Slurry Vol (gal)	Hydraulic Power (hp)
10:51:40	712	1892	2.5	3961	43
10:52:00	712	1892	2.5	3995	43
10:52:20	713	1892	2.5	4030	43
10:52:40	714	1891	2.5	4065	44
10:53:00	716	1892	2.5	4100	44
10:53:20	717	1893	2.5	4134	44
10:53:40	719	1894	2.5	4169	44
10:54:00	720	1895	2.5	4204	44
10:54:20	722	1895	2.5	4239	44
10:54:40	722	1896	2.5	4274	44
10:55:00	724	1897	2.5	4310	44
10:55:20	725	1897	2.5	4345	45
10:55:40	728	1899	2.5	4380	45
10:56:00	729	1900	2.5	4415	45
10:56:20	728	1901	2.5	4450	45
10:56:40	728	1905	2.5	4485	44
10:57:00	729	1904	2.5	4520	45
10:57:20	729	1905	2.5	4555	45
10:57:40	730	1905	2.5	4590	45
10:58:00	731	1906	2.5	4625	45
10:58:20	733	1906	2.5	4660	45
10:58:40	734	1908	2.5	4695	45
10:59:00	736	1909	2.5	4730	45
10:59:20	736	1907	2.5	4765	45
10:59:40	738	1910	2.5	4801	45
11:00:00	736	1913	2.5	4835	45
11:00:16	Stage 6		3 bpm		
11:00:20	786	1838	3.0	4875	58
11:00:40	794	1846	3.0	4917	59
11:01:00	800	1853	3.0	4959	59
11:01:20	800	1853	3.0	5001	59
11:01:40	802	1856	3.0	5043	59
11:02:00	809	1862	3.0	5085	60
11:02:20	806	1858	3.0	5127	59
11:02:40	812	1865	3.0	5169	60
11:03:00	815	1865	3.0	5211	60
11:03:20	813	1864	3.0	5254	60
11:03:40	813	1864	3.0	5296	60
11:04:00	816	1867	3.0	5338	60
11:04:20	816	1867	3.0	5380	60
11:04:40	821	1872	3.0	5422	61
11:05:00	826	1876	3.0	5464	61
11:05:20	825	1875	3.0	5507	61
11:05:40	828	1877	3.0	5549	61
11:06:00	828	1879	3.0	5591	61
11:06:20	829	1881	3.0	5633	61
11:06:40	827	1879	3.0	5675	61
11:07:00	829	1880	3.0	5718	61
11:07:20	830	1881	3.0	5760	61
11:07:40	830	1881	3.0	5802	61
11:08:00	831	1881	3.0	5844	61
11:08:20	835	1884	3.0	5886	62
11:08:40	839	1887	3.0	5929	62
11:09:00	839	1892	3.0	5971	62
11:09:20	836	1889	3.0	6013	62
11:09:40	840	1892	3.0	6055	62

Time (hh:mm:ss)	Treating Pressure (psi)	Calc'd BH Pres (psi)	Slurry Rate (bpm)	Job Slurry Vol (gal)	Hydraulic Power (hp)
11:10:00	839	1892	3.0	6097	62
11:10:20	841	1892	3.0	6139	62
11:10:40	843	1895	3.0	6181	62
11:11:00	846	1896	3.0	6224	62
11:11:20	845	1896	3.0	6266	62
11:11:40	843	1894	3.0	6308	62
11:12:00	846	1896	3.0	6350	62
11:12:20	844	1895	3.0	6392	62
11:12:40	848	1899	3.0	6434	63
11:13:00	849	1899	3.0	6477	63
11:13:20	848	1901	3.0	6519	62
11:13:40	852	1905	3.0	6561	63
11:14:00	850	1902	3.0	6603	63
11:14:20	852	1904	3.0	6645	63
11:14:40	856	1908	3.0	6687	63
11:15:00	855	1906	3.0	6729	63
11:15:20	935	1835	3.5	6780	81
11:15:23 Stage 7	3.5 bpm				
11:15:40	922	1835	3.5	6829	79
11:16:00	925	1835	3.5	6878	80
11:16:20	924	1842	3.5	6927	79
11:16:40	927	1842	3.5	6975	79
11:17:00	929	1842	3.5	7024	80
11:17:20	934	1846	3.5	7073	80
11:17:40	935	1844	3.5	7123	80
11:18:00	938	1848	3.5	7172	81
11:18:20	933	1861	3.5	7221	79
11:18:40	934	1860	3.5	7269	79
11:19:00	934	1857	3.5	7317	79
11:19:20	940	1860	3.5	7366	80
11:19:40	943	1860	3.5	7415	81
11:20:00	944	1860	3.5	7464	81
11:20:20	941	1866	3.5	7512	80
11:20:40	945	1869	3.5	7561	80
11:21:00	945	1867	3.5	7609	80
11:21:20	948	1869	3.5	7658	81
11:21:40	948	1869	3.5	7707	81
11:22:00	948	1870	3.5	7755	81
11:22:20	958	1932	3.3	7802	77
11:22:40	952	1872	3.5	7850	81
11:23:00	953	1873	3.5	7899	81
11:23:20	956	1875	3.5	7948	82
11:23:40	961	1879	3.5	7996	82
11:24:00	962	1881	3.5	8045	82
11:24:20	963	1881	3.5	8094	82
11:24:40	964	1880	3.5	8143	82
11:25:00	966	1882	3.5	8192	83
11:25:20	968	1882	3.5	8241	83
11:25:40	962	1886	3.5	8289	82
11:26:00	964	1889	3.5	8338	82
11:26:20	966	1891	3.5	8386	82
11:26:40	966	1889	3.5	8435	82
11:27:00	969	1892	3.5	8483	82
11:27:20	968	1890	3.5	8532	82
11:27:40	974	1896	3.5	8581	83
11:28:00	972	1893	3.5	8629	83

Time (hh:mm:ss)	Treating Pressure (psi)	Calc'd BH Pres (psi)	Slurry Rate (bpm)	Job Slurry Vol (gal)	Hydraulic Power (hp)
11:28:20	973	1893	3.5	8678	83
11:28:40	976	1895	3.5	8727	83
11:29:00	977	1895	3.5	8775	84
11:29:20	978	1895	3.5	8824	84
11:29:40	978	1893	3.5	8873	84
11:30:00	982	1890	3.5	8922	85
11:30:11	Stage 8		4 bpm		
11:30:20	1047	1802	4.0	8977	103
11:30:40	1047	1813	4.0	9032	102
11:31:00	1049	1816	4.0	9088	102
11:31:20	1050	1815	4.0	9143	102
11:31:40	1054	1818	4.0	9199	102
11:32:00	1057	1819	4.0	9255	103
11:32:20	1066	1828	4.0	9310	104
11:32:40	1066	1827	4.0	9366	104
11:33:00	1061	1824	4.0	9422	103
11:33:20	1068	1831	4.0	9477	104
11:33:40	1073	1835	4.0	9533	105
11:34:00	1066	1827	4.0	9589	104
11:34:20	1069	1831	4.0	9644	104
11:34:40	1078	1839	4.0	9700	105
11:35:00	1071	1831	4.0	9756	105
11:35:20	1075	1835	4.0	9811	105
11:35:40	1077	1838	4.0	9867	105
11:36:00	1075	1833	4.0	9923	105
11:36:20	1085	1844	4.0	9979	106
11:36:40	1077	1836	4.0	10034	105
11:37:00	1088	1844	4.0	10090	106
11:37:20	1089	1842	4.0	10146	107
11:37:40	1089	1841	4.0	10202	107
11:38:00	1092	1842	4.0	10258	107
11:38:20	1096	1845	4.0	10314	108
11:38:40	1088	1853	4.0	10370	106
11:39:00	1095	1856	4.0	10426	107
11:39:20	1088	1848	4.0	10482	106
11:39:40	1096	1855	4.0	10538	107
11:40:00	1091	1849	4.0	10593	107
11:40:20	1095	1852	4.0	10649	107
11:40:40	1102	1858	4.0	10705	108
11:41:00	1095	1851	4.0	10761	107
11:41:20	1097	1852	4.0	10817	107
11:41:40	1101	1855	4.0	10873	108
11:42:00	1103	1856	4.0	10929	108
11:42:20	1106	1857	4.0	10985	109
11:42:40	1106	1857	4.0	11041	109
11:43:00	1105	1854	4.0	11097	109
11:43:20	1105	1853	4.0	11153	109
11:43:40	1107	1856	4.0	11210	109
11:44:00	1114	1862	4.0	11266	110
11:44:20	1116	1864	4.0	11322	110
11:44:40	1112	1859	4.0	11378	109
11:45:00	1113	1859	4.0	11435	110
11:45:20	1230	1731	4.7	11496	141
11:45:27	Stage 9		4.5 bpm		
11:45:40	1187	1763	4.5	11560	131
11:46:00	1190	1764	4.5	11623	131

Time (hh:mm:ss)	Treating Pressure (psi)	Calc'd BH Pres (psi)	Slurry Rate (bpm)	Job Slurry Vol (gal)	Hydraulic Power (hp)
11:46:20	1195	1767	4.5	11686	132
11:46:40	1195	1763	4.5	11749	132
11:47:00	1198	1779	4.5	11812	132
11:47:20	1195	1774	4.5	11874	131
11:47:40	1194	1772	4.5	11937	131
11:48:00	1206	1783	4.5	12000	133
11:48:20	1196	1776	4.5	12063	131
11:48:40	1202	1781	4.5	12126	132
11:49:00	1209	1786	4.5	12188	133
11:49:20	1212	1787	4.5	12251	134
11:49:40	1209	1780	4.5	12314	134
11:50:00	1185	1835	4.3	12375	125
11:50:20	1187	1767	4.5	12437	130
11:50:40	1188	1769	4.5	12500	130
11:51:00	1187	1767	4.5	12563	130
11:51:20	1186	1766	4.5	12625	130
11:51:40	1203	1781	4.5	12688	132
11:52:00	1192	1770	4.5	12751	131
11:52:20	1196	1771	4.5	12814	132
11:52:40	1219	1793	4.5	12877	134
11:53:00	1195	1764	4.5	12940	132
11:53:20	1204	1788	4.5	13002	132
11:53:40	1200	1782	4.5	13065	132
11:54:00	1201	1783	4.5	13128	132
11:54:20	1209	1785	4.5	13190	133
11:54:40	1225	1799	4.5	13253	135
11:55:00	1229	1801	4.5	13316	136
11:55:20	1231	1801	4.5	13380	136
11:55:40	1241	1811	4.5	13443	137
11:56:00	1218	1786	4.5	13506	135
11:56:20	1226	1793	4.5	13569	136
11:56:40	1214	1786	4.5	13632	134
11:57:00	1252	1820	4.5	13695	139
11:57:20	1217	1803	4.5	13758	133
11:57:40	1228	1809	4.5	13821	135
11:58:00	1244	1819	4.5	13884	137
11:58:20	1235	1807	4.5	13947	136
11:58:40	1244	1811	4.5	14010	138
11:59:00	1246	1812	4.5	14073	138
11:59:20	1241	1807	4.5	14136	137
11:59:40	1237	1801	4.5	14200	137
12:00:00	1247	1808	4.5	14263	138
12:00:19	Stage 10		5 bpm		
12:00:20	1329	1700	5.0	14330	163
12:00:40	1335	1704	5.0	14401	164
12:01:00	1333	1710	5.0	14471	163
12:01:20	1335	1716	5.0	14540	163
12:01:40	1339	1719	5.0	14610	163
12:02:00	1336	1720	5.0	14680	163
12:02:20	1340	1725	5.0	14749	163
12:02:40	1338	1722	5.0	14819	163
12:03:00	1342	1728	5.0	14889	163
12:03:20	1343	1725	5.0	14958	164
12:03:40	1347	1731	5.0	15028	164
12:04:00	1346	1730	5.0	15098	164
12:04:20	1350	1732	5.0	15167	165

Time (hh:mm:ss)	Treating Pressure (psi)	Calc'd BH Pres (psi)	Slurry Rate (bpm)	Job Slurry Vol (gal)	Hydraulic Power (hp)
12:04:40	1353	1734	5.0	15237	165
12:05:00	1351	1732	5.0	15307	165
12:05:20	1353	1732	5.0	15376	165
12:05:40	1355	1734	5.0	15446	166
12:06:00	1358	1735	5.0	15516	166
12:06:20	1358	1734	5.0	15586	166
12:06:40	1362	1735	5.0	15656	167
12:07:00	1368	1740	5.0	15726	168
12:07:20	1363	1750	5.0	15796	166
12:07:40	1358	1746	5.0	15865	165
12:08:00	1360	1745	5.0	15935	166
12:08:20	1362	1746	5.0	16004	166
12:08:40	1361	1744	5.0	16074	166
12:09:00	1364	1747	5.0	16144	166
12:09:20	1368	1752	5.0	16213	167
12:09:40	1368	1752	5.0	16283	167
12:10:00	1370	1751	5.0	16353	167
12:10:20	1372	1751	5.0	16423	168
12:10:40	1376	1748	5.0	16492	169
12:11:00	1375	1746	5.0	16563	169
12:11:20	1378	1747	5.0	16633	169
12:11:40	1382	1749	5.0	16703	170
12:12:00	1381	1745	5.0	16773	170
12:12:20	1379	1743	5.0	16843	170
12:12:40	1380	1741	5.0	16914	170
12:13:00	1381	1754	5.0	16984	169
12:13:20	1381	1752	5.0	17054	169
12:13:40	1383	1751	5.0	17124	170
12:14:00	1389	1755	5.0	17194	171
12:14:20	1388	1751	5.0	17264	171
12:14:40	1388	1748	5.0	17335	171
12:15:00	1396	1749	5.0	17405	173
12:15:05	Stage 11		5.5 bpm		
12:15:20	1476	1628	5.5	17482	199
12:15:40	1484	1640	5.5	17559	200
12:16:00	1484	1638	5.5	17636	200
12:16:20	1484	1657	5.5	17713	198
12:16:40	1485	1644	5.5	17790	200
12:17:00	1488	1646	5.5	17866	200
12:17:20	1490	1644	5.5	17943	201
12:17:40	1491	1643	5.5	18020	201
12:18:00	1495	1642	5.5	18098	202
12:18:20	1491	1652	5.5	18174	200
12:18:40	1492	1650	5.5	18251	201
12:19:00	1497	1652	5.5	18328	202
12:19:20	1496	1650	5.5	18405	202
12:19:40	1501	1653	5.5	18482	202
12:20:00	1503	1652	5.5	18559	203
12:20:20	1509	1654	5.5	18636	204
12:20:40	1511	1660	5.5	18714	204
12:21:00	1505	1647	5.5	18791	204
12:21:20	1514	1653	5.5	18868	205
12:21:40	1507	1662	5.5	18945	203
12:22:00	1506	1657	5.5	19022	203
12:22:20	1511	1658	5.5	19099	204
12:22:40	1513	1655	5.5	19177	205

Time (hh:mm:ss)	Treating Pressure (psi)	Calc'd BH Pres (psi)	Slurry Rate (bpm)	Job Slurry Vol (gal)	Hydraulic Power (hp)
12:23:00	1515	1657	5.5	19254	205
12:23:20	1514	1659	5.5	19331	205
12:23:40	1514	1668	5.5	19408	204
12:24:00	1491	1658	5.5	19485	200
12:24:20	1517	1664	5.5	19562	205
12:24:40	1521	1693	5.5	19639	203
12:25:00	1521	1680	5.5	19716	205
12:25:20	1524	1675	5.5	19793	206
12:25:40	1525	1667	5.5	19870	206
12:26:00	1531	1662	5.5	19948	208
12:26:20	1514	1680	5.5	20024	203
12:26:40	1515	1675	5.5	20101	203
12:27:00	1525	1679	5.5	20178	205
12:27:20	1526	1672	5.5	20255	206
12:27:40	1524	1667	5.5	20332	206
12:28:00	1523	1681	5.5	20410	205
12:28:20	1518	1676	5.5	20486	204
12:28:40	1522	1681	5.5	20563	205
12:29:00	1528	1688	5.5	20640	205
12:29:20	1524	1681	5.5	20717	205
12:29:40	1526	1674	5.5	20794	206
12:30:00	1531	1673	5.5	20871	207
12:30:20	1603	1534	6.0	20951	234
12:30:21	Stage 12 6 bpm				
12:30:40	1627	1542	6.0	21035	239
12:31:00	1627	1528	6.0	21119	240
12:31:20	1648	1539	6.0	21203	244
12:31:40	1640	1544	6.0	21288	242
12:32:00	1625	1572	5.9	21372	236
12:32:20	1626	1540	6.0	21455	239
12:32:40	1642	1537	6.0	21539	243
12:33:00	1647	1533	6.1	21624	244
12:33:20	1658	1538	6.1	21709	246
12:33:40	1648	1546	6.0	21793	243
12:34:00	1621	1525	6.0	21878	239
12:34:20	1652	1544	6.0	21962	245
12:34:40	1654	1534	6.1	22047	246
12:35:00	1643	1514	6.1	22132	245
12:35:20	1633	1520	6.0	22217	242
12:35:40	1655	1536	6.1	22301	246
12:36:00	1652	1554	6.0	22386	244
12:36:20	1660	1559	6.0	22470	245
12:36:40	1634	1552	6.0	22554	240
12:37:00	1647	1555	6.0	22638	243
12:37:20	1652	1558	6.0	22722	243
12:37:40	1641	1544	6.0	22807	242
12:38:00	1648	1547	6.0	22891	243
12:38:20	1647	1570	6.0	22975	241
12:38:40	1640	1555	6.0	23059	241
12:39:00	1646	1552	6.0	23143	243
12:39:20	1641	1564	6.0	23227	240
12:39:40	1640	1557	6.0	23311	241
12:40:00	1647	1562	6.0	23395	242
12:40:20	1646	1559	6.0	23479	242
12:40:40	1641	1567	6.0	23562	240
12:41:00	1644	1571	6.0	23646	241

Time (hh:mm:ss)	Treating Pressure (psi)	Calc'd BH Pres (psi)	Slurry Rate (bpm)	Job Slurry Vol (gal)	Hydraulic Power (hp)
12:41:20	1643	1568	6.0	23730	241
12:41:40	1648	1567	6.0	23813	242
12:42:00	1646	1562	6.0	23897	242
12:42:20	1651	1572	6.0	23981	242
12:42:40	1648	1577	6.0	24065	241
12:43:00	1650	1576	6.0	24148	241
12:43:20	1647	1572	6.0	24232	241
12:43:40	1651	1572	6.0	24316	242
12:44:00	1660	1574	6.0	24399	244
12:44:20	1649	1559	6.0	24483	243
12:44:40	1649	1579	6.0	24567	241
12:45:00	1673	1554	6.1	24651	249
12:45:20	1826	1344	6.9	24751	307
12:45:40	1589	1674	5.7	24837	224
12:46:00	2020	1177	7.6	24929	377
12:46:20	1455	1801	5.2	25026	187
12:46:40	1742	1530	6.5	25113	276
12:46:41	Stage 13		6.5 bpm		
12:47:00	1758	1521	6.5	25204	279
12:47:20	1759	1491	6.5	25294	280
12:47:40	1750	1475	6.5	25385	278
12:48:00	1763	1475	6.5	25476	279
12:48:20	1756	1429	6.5	25566	280
12:48:40	1758	1422	6.5	25657	279
12:49:00	1749	1409	6.5	25748	278
12:49:20	1760	1435	6.5	25838	279
12:49:40	1762	1427	6.5	25929	280
12:50:00	1784	1430	6.5	26020	285
12:50:20	1780	1424	6.5	26111	284
12:50:40	1769	1405	6.5	26202	283
12:51:00	1775	1445	6.5	26293	281
12:51:20	1773	1455	6.4	26383	280
12:51:40	1779	1445	6.5	26474	282
12:52:00	1773	1429	6.5	26565	282
12:52:20	1767	1409	6.5	26656	282
12:52:40	1774	1452	6.5	26747	280
12:53:00	1758	1431	6.5	26837	278
12:53:20	1773	1430	6.5	26928	282
12:53:40	1772	1421	6.5	27019	283
12:54:00	1756	1443	6.4	27109	277
12:54:20	1771	1432	6.5	27200	281
12:54:40	1775	1435	6.5	27291	282
12:55:00	1783	1434	6.5	27381	284
12:55:20	1785	1424	6.5	27473	285
12:55:40	1790	1404	6.6	27564	288
12:56:00	1791	1425	6.5	27656	287
12:56:20	1792	1456	6.5	27747	285
12:56:40	1801	1448	6.5	27838	287
12:57:00	1815	1469	6.5	27929	289
12:57:20	1797	1440	6.5	28020	287
12:57:40	1763	1408	6.5	28112	281
12:58:00	1756	1398	6.5	28203	280
12:58:20	1755	1429	6.5	28293	278
12:58:40	1774	1440	6.5	28383	282
12:59:00	1778	1442	6.5	28474	282
12:59:20	1784	1463	6.5	28565	282

Time (hh:mm:ss)	Treating Pressure (psi)	Calc'd BH Pres (psi)	Slurry Rate (bpm)	Job Slurry Vol (gal)	Hydraulic Power (hp)
12:59:40	1780	1424	6.5	28656	284
13:00:00	1802	1441	6.5	28747	288
13:00:20	2005	1297	7.4	28845	365
13:00:40	1948	1434	7.1	28946	338
13:00:48	Stage 14	7 bpm			
13:01:00	1925	1444	7.0	29044	330
13:01:20	1930	1416	7.0	29142	331
13:01:40	1931	1385	7.0	29240	331
13:02:00	1929	1350	7.0	29338	331
13:02:20	1930	1332	7.0	29436	331
13:02:40	1913	1332	6.9	29533	324
13:03:00	1919	1334	6.9	29630	326
13:03:20	1913	1328	6.9	29728	325
13:03:40	1918	1334	6.9	29825	325
13:04:00	1925	1297	7.0	29922	330
13:04:20	1929	1311	7.0	30020	330
13:04:40	1929	1298	7.0	30118	331
13:05:00	1044	2514	0.1	30168	1
13:05:20	1033	2503	0.0	30168	0
13:05:40	1020	2489	0.0	30168	0
13:06:00	1010	2479	0.0	30168	0
13:06:20	1002	2471	0.0	30168	0
13:06:40	994	2463	0.0	30168	0
13:07:00	986	2456	0.0	30168	0
13:07:20	980	2449	0.0	30168	0
13:07:40	973	2443	0.0	30168	0
13:08:00	967	2437	0.0	30168	0
13:08:20	961	2431	0.0	30168	0
13:08:40	956	2425	0.0	30168	0
13:09:00	947	2417	0.0	30170	0
13:09:20	945	2415	0.0	30173	1
13:09:40	989	2427	0.7	30175	18
13:10:00	1896	1185	7.3	30241	337
13:10:14	Event	Other			
13:10:20	1835	1250	7.0	30340	317
13:10:40	1826	1273	7.0	30438	312
13:11:00	1841	1824	6.0	30535	269
13:11:20	2148	1677	6.8	30624	360
13:11:40	2224	1681	7.0	30721	380
13:12:00	2085	1307	7.8	30827	398
13:12:20	1919	1533	7.1	30930	332
13:12:40	1899	1540	7.0	31028	326
13:13:00	1898	1560	7.0	31127	324
13:13:20	1918	1548	7.0	31225	330
13:13:40	1908	1558	7.0	31323	327
13:14:00	1915	1595	6.9	31417	325
13:14:20	1922	1553	7.0	31515	331
13:14:40	1967	1574	7.1	31612	340
13:15:00	1963	1604	7.0	31710	337
13:15:20	1939	1617	6.9	31808	329
13:15:40	1941	1611	6.9	31905	330
13:16:00	1936	1589	7.0	32003	331
13:16:20	1938	1595	7.0	32100	331
13:16:40	1944	1596	7.0	32198	332
13:17:00	1940	1608	6.9	32295	330
13:17:20	1949	1582	7.0	32393	335

Time (hh:mm:ss)	Treating Pressure (psi)	Calc'd BH Pres (psi)	Slurry Rate (bpm)	Job Slurry Vol (gal)	Hydraulic Power (hp)
13:17:40	1955	1581	7.0	32491	337
13:18:00	1948	1587	7.0	32588	334
13:18:20	1955	1586	7.0	32687	336
13:18:40	1953	1612	7.0	32785	333
13:19:00	1959	1592	7.0	32883	337
13:19:20	1963	1622	7.0	32981	335
13:19:40	1966	1614	7.0	33079	337
13:20:00	1962	1610	7.0	33176	336
13:20:20	1968	1605	7.0	33275	338
13:20:40	1975	1593	7.0	33373	341
13:21:00	1974	1612	7.0	33471	339
13:21:20	1971	1598	7.0	33570	339
13:21:40	1966	1620	7.0	33668	336
13:22:00	1970	1600	7.0	33766	339
13:22:20	1966	1629	7.0	33863	335
13:22:40	1966	1617	7.0	33961	336
13:23:00	1960	1617	7.0	34059	335
13:23:20	1965	1596	7.0	34157	338
13:23:40	1973	1590	7.0	34255	341
13:24:00	1969	1625	7.0	34353	336
13:24:20	1971	1637	6.9	34450	336
13:24:40	1977	1615	7.0	34548	339
13:25:00	1999	1577	7.1	34646	349
13:25:20	2104	1478	7.5	34749	387
13:25:20 Stage 15		7.5 bpm			
13:25:40	2085	1414	7.5	34855	382
13:26:00	2091	1371	7.5	34959	382
13:26:20	2099	1318	7.5	35064	384
13:26:40	2103	1241	7.5	35169	387
13:27:00	2107	1181	7.5	35274	388
13:27:20	2099	1229	7.4	35379	382
13:27:40	2095	1243	7.4	35483	380
13:28:00	2109	1231	7.4	35587	385
13:28:20	2113	1236	7.4	35691	386
13:28:40	2118	1239	7.5	35795	387
13:29:00	2126	1278	7.4	35899	385
13:29:20	2127	1238	7.5	36003	389
13:29:40	2131	1245	7.5	36107	390
13:30:00	2139	1252	7.5	36212	391
13:30:20	2142	1256	7.5	36316	392
13:30:40	2144	1227	7.5	36421	395
13:31:00	2153	1226	7.5	36527	397
13:31:20	2143	1297	7.4	36632	388
13:31:40	2142	1230	7.5	36736	394
13:32:00	2144	1201	7.6	36842	397
13:32:20	2140	1227	7.5	36947	394
13:32:40	2137	1278	7.4	37052	389
13:33:00	2135	1252	7.5	37156	390
13:33:20	2139	1249	7.5	37261	392
13:33:40	2141	1271	7.4	37365	390
13:34:00	2148	1250	7.5	37470	394
13:34:20	2152	1260	7.5	37574	394
13:34:40	2155	1261	7.5	37679	395
13:35:00	2146	1254	7.5	37784	393
13:35:20	2146	1282	7.4	37888	391
13:35:40	2150	1247	7.5	37993	395

Time (hh:mm:ss)	Treating Pressure (psi)	Calc'd BH Pres (psi)	Slurry Rate (bpm)	Job Slurry Vol (gal)	Hydraulic Power (hp)
13:36:00	2161	1230	7.5	38098	399
13:36:20	2168	1241	7.5	38203	400
13:36:40	2171	1235	7.5	38309	401
13:37:00	2155	1268	7.5	38413	394
13:37:20	2155	1264	7.5	38518	395
13:37:40	2157	1226	7.5	38623	398
13:38:00	2153	1291	7.4	38728	392
13:38:20	2152	1308	7.4	38832	390
13:38:40	2150	1245	7.5	38936	395
13:39:00	2152	1260	7.5	39041	394
13:39:20	2149	1277	7.4	39145	392
13:39:40	2152	1240	7.5	39250	396
13:40:00	2199	1173	7.7	39354	414
13:40:20	2316	1181	8.0	39465	454
13:40:40	1140	2608	0.2	39553	5
13:41:00	1111	2581	0.0	39553	0
13:41:20	1292	2326	3.2	39564	102
13:41:40	2218	1190	8.0	39658	432
13:41:41	Stage 16	8 bpm			
13:42:00	2246	1169	8.0	39770	443
13:42:20	2234	1209	8.0	39882	436
13:42:40	2233	1213	8.0	39994	435
13:43:00	2234	1221	7.9	40105	435
13:43:20	2243	1213	8.0	40217	438
13:43:40	2242	1203	8.0	40328	438
13:44:00	2246	1260	7.9	40440	434
13:44:20	2239	1243	7.9	40550	434
13:44:40	2245	1216	8.0	40662	438
13:45:00	2252	1210	8.0	40773	441
13:45:20	2257	1228	8.0	40885	441
13:45:40	2248	1213	8.0	40997	439
13:46:00	2258	1220	8.0	41108	442
13:46:20	2250	1227	8.0	41220	439
13:46:40	2252	1221	8.0	41331	440
13:47:00	2253	1235	7.9	41443	439
13:47:20	2251	1229	8.0	41554	439
13:47:40	2252	1216	8.0	41665	440
13:48:00	2253	1227	8.0	41777	440
13:48:20	2258	1232	8.0	41888	441
13:48:40	2263	1190	8.0	42000	446
13:49:00	2260	1219	8.0	42113	442
13:49:20	2265	1239	8.0	42224	442
13:49:40	2264	1208	8.0	42336	444
13:50:00	2268	1233	8.0	42448	443
13:50:20	2267	1217	8.0	42560	444
13:50:40	2266	1209	8.0	42672	445
13:51:00	2264	1206	8.0	42783	445
13:51:20	2254	1245	7.9	42895	438
13:51:40	2261	1241	8.0	43007	441
13:52:00	2265	1244	8.0	43118	441
13:52:20	2265	1206	8.0	43230	445
13:52:40	2268	1179	8.1	43343	448
13:53:00	2258	1224	8.0	43455	441
13:53:20	2257	1224	8.0	43567	441
13:53:40	2265	1248	7.9	43678	441
13:54:00	2268	1221	8.0	43790	444

Time (hh:mm:ss)	Treating Pressure (psi)	Calc'd BH Pres (psi)	Slurry Rate (bpm)	Job Slurry Vol (gal)	Hydraulic Power (hp)
13:54:20	2264	1213	8.0	43902	444
13:54:40	2270	1213	8.0	44014	446
13:55:00	2268	1261	7.9	44126	441
13:55:20	1130	2601	0.1	44197	2
13:55:21 Event	ISIP				
13:55:40	1132	2602	0.0	44197	0
13:56:00	1119	2589	0.0	44197	0
13:56:20	1110	2579	0.0	44197	0
13:56:40	1101	2571	0.0	44197	0
13:57:00	1094	2564	0.0	44197	0
13:57:20	1087	2557	0.0	44197	0
13:57:40	1081	2551	0.0	44197	0
13:58:00	1075	2545	0.0	44197	0
13:58:20	1070	2540	0.0	44197	0
13:58:40	1065	2534	0.0	44197	0
13:59:00	1060	2530	0.0	44197	0
13:59:20	1055	2525	0.0	44197	0
13:59:40	1051	2520	0.0	44197	0
14:00:00	1046	2516	0.0	44197	0
14:00:20	1042	2512	0.0	44197	0
14:00:21 Event	Pressure @ 5 min.				
14:00:40	1038	2508	0.0	44197	0
14:01:00	1034	2504	0.0	44197	0
14:01:20	1030	2500	0.0	44197	0
14:01:40	1027	2496	0.0	44197	0
14:02:00	1023	2493	0.0	44197	0
14:02:20	1020	2489	0.0	44197	0
14:02:40	1016	2486	0.0	44197	0
14:03:00	1013	2483	0.0	44197	0
14:03:20	1010	2479	0.0	44197	0
14:03:40	1007	2477	0.0	44197	0
14:04:00	1004	2473	0.0	44197	0
14:04:20	1001	2470	0.0	44197	0
14:04:40	998	2467	0.0	44197	0
14:05:00	995	2464	0.0	44197	0
14:05:20	992	2462	0.0	44197	0
14:05:21 Event	Pressure @ 10 min.				
14:05:40	990	2459	0.0	44197	0
14:06:00	987	2457	0.0	44197	0
14:06:20	985	2454	0.0	44197	0
14:06:40	982	2451	0.0	44197	0
14:07:00	980	2449	0.0	44197	0
14:07:20	977	2447	0.0	44197	0
14:07:40	975	2444	0.0	44197	0
14:08:00	972	2442	0.0	44197	0
14:08:20	970	2439	0.0	44197	0
14:08:40	968	2437	0.0	44197	0
14:09:00	966	2435	0.0	44197	0
14:09:20	963	2432	0.0	44197	0
14:09:40	960	2430	0.0	44197	0
14:10:00	959	2428	0.0	44197	0
14:10:20	956	2425	0.0	44197	0
14:10:21 Event	Pressure @ 15 min.				
14:10:40	954	2423	0.0	44197	0
14:10:55 Event	Post-Job Safety Meeting (Pre Rig-Down)				
14:11:00	952	2421	0.0	44197	0