



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

May 3, 2002

Lori Wrotenbery
Director
Oil Conservation Division

Pogo Producing Company
300 North Marienfeld
Suite 600, PO Box 10340
Midland, Texas 79702-7340

Attn: Mr. Barrett L. Smith

Re: Injection Pressure Increase -174
Lost Tank 33 Federal Well No.2 SWD
Eddy County, New Mexico

Dear Mr. Smith:

Reference is made to your request dated March 22, 2002 (received in this office April 9, 2002), to increase the surface injection pressure on the above referenced SWD well. This request is based on a step rate test conducted on the well on January 29, 2002. After reviewing test results, we feel an increase in injection pressure is justified at this time.

This well is equipped with 2 7/8" coated tubing and injection packer. With size and type of tubing remaining the same, you are authorized to increase the surface injection pressure to the following:

Well and Location	Maximum Surface Injection Pressure
Lost Tank 33 Federal Well No. 2 SWD (API: 30-015-29330) 330 FSL, 510 FWL, Sec 33, T21S, R31E, NMPM, Eddy County	900 PSIG Water

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

Lori Wrotenbery
Lori Wrotenbery
Director

cc: Oil Conservation Division – Artesia
Bureau of Land Management - Carlsbad
Files: SWD-708; IPI 2002

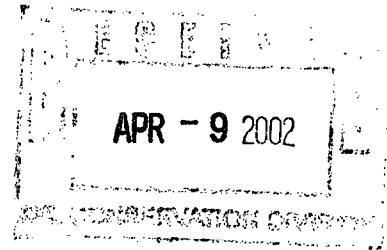
PKRVO210531940

1P1-174 NA



POGO PRODUCING COMPANY

March 22, 2002



New Mexico Oil Conservation Division
Attn: Mr. David Catarach
2040 S. Pacheco
Santa Fe, NM 87505

Re: Lost Tank 33 Federal #2 SWD (30-015-29330)
Step-Rate Test

Gentlemen:

Pogo Producing Company respectfully requests an increase in the maximum allowable surface injection pressure from the current 833 PSI to 940 PSI.

This is based on a step-rate test performed on January 29, 2002 by Arc Pressure Data. A copy of the test results are attached.

If you have any questions, please contact me at (915) 685-8100.

Thank you,

POGO PRODUCING COMPANY

Barrett L. Smith
Division Operations Engineer

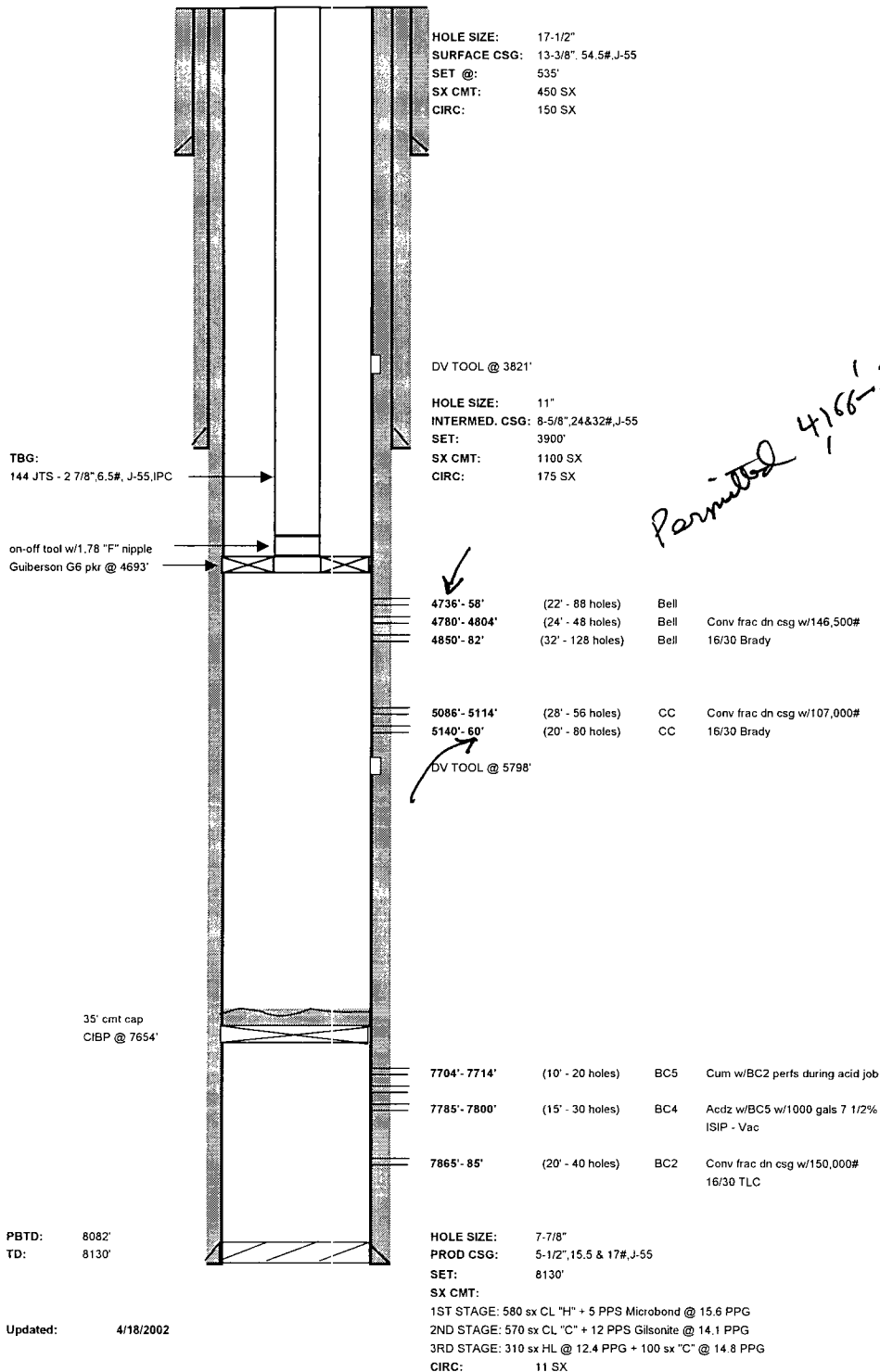
Attachment

SWD-708
(833 MAX PSI)

CURRENT **WELLBORE DIAGRAM**

LEASE:	LOST TANK 33 FEDERAL	WELL:	#2 SWD FIELD:	LOST TANK DELAWARE W.	API:	30-015-29330	
LOC:	330' FSL & 510' FWL	SEC:	33	TWN:	21S	ID NO:	1847
RANGE:	31E	GL:	3436'	CTY/ST	EDDY/NEW MEXICO	SPUD:	10/21/1996
CURRENT STATUS:	INJECTING	KB:	12.5'	DF:	3447.5'	TD DATE:	11/6/1996

*Received
4/18/02
after
Report on 4/17/02
(WVST)*



Permitted 4166'-5160'



OPERATIONS LOG

COMPANY: POGO PRODUCING CO.
 LEASE: LOST TANK 33 FED # 2 SWD
 FIELD (FORMATION): LOST TANK DELAWARE W. (BELL)
 COUNTY: EDDY
 STATE: NM

TEST TYPE: STEP-RATE

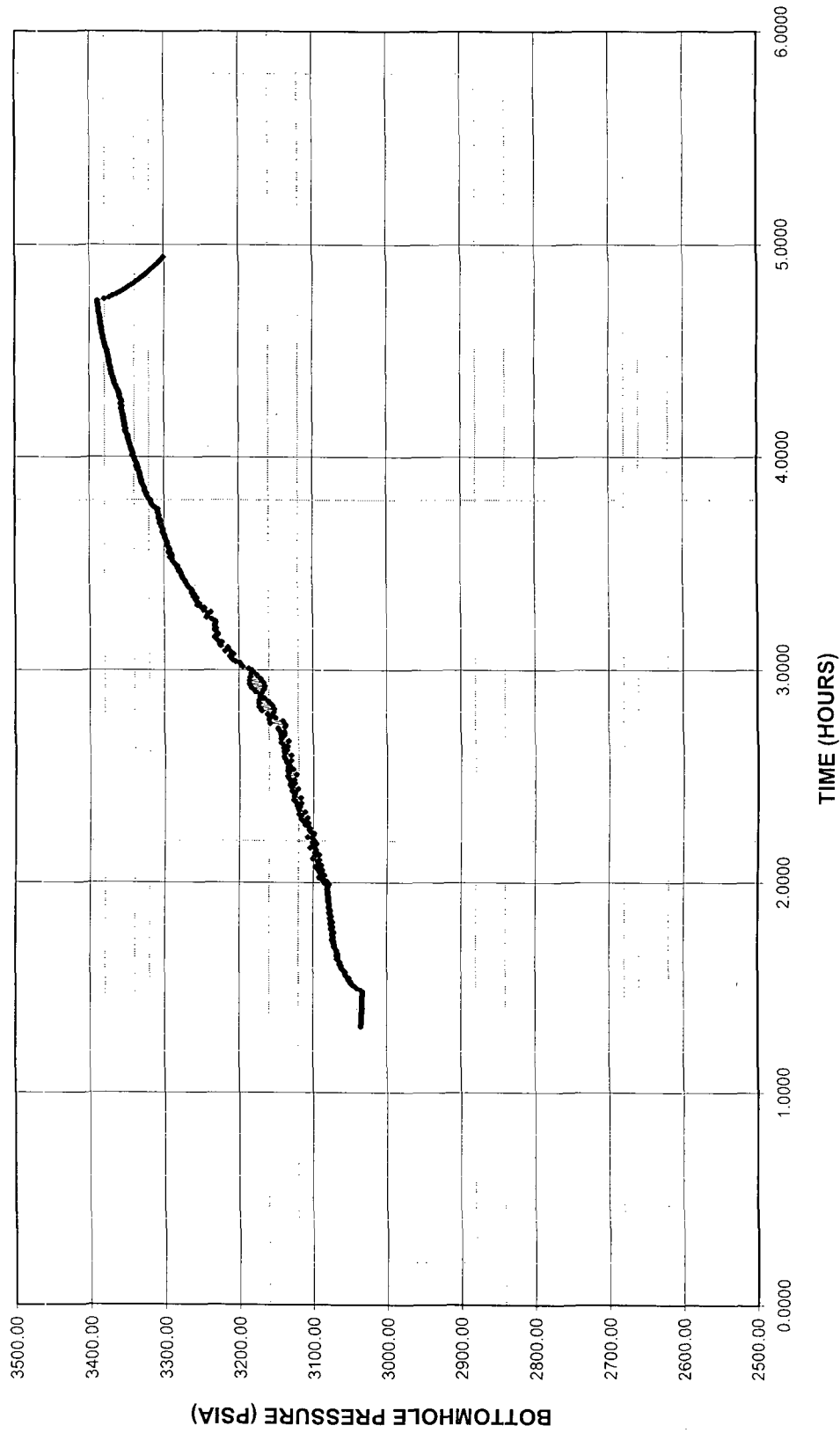
ENGINEER: BARRETT SMITH
 FIELD REP: DAVID THOMAS
 JOB RUN BY: EDDIE MOORE
 DATA PREPARED BY: JAMES MOOMAW
 INSTRUMENT: Z7

DATE	TIME	DWG	OPERATIONS LOG - JOB NUMBER: 51938
1/29/02	07:45:00 AM		ON LOCATION
1/29/02	07:58:00 AM		START ELECTRONIC GAUGE #Z7
1/29/02	08:45:00 AM	429	IN LUBRICATOR W/ GAUGE
1/29/02	09:17:00 AM		ON BOTTOM W/ GAUGE @ 4948'
1/29/02	09:27:00 AM	429	START FIRST RATE @ 200 BPD
1/29/02	09:42:00 AM	461	END 200 BPD, START 400 BPD
1/29/02	09:57:00 AM	492	END 400 BPD, START 600 BPD
1/29/02	10:12:00 AM	521	END 600 BPD, START 800 BPD
1/29/02	10:27:00 AM	552	END 800 BPD, START 1000 BPD
1/29/02	10:42:00 AM	584	END 1000 BPD, START 1200 BPD
1/29/02	10:57:00 AM	626	END 1200 BPD, START 1400 BPD
1/29/02	11:12:00 AM	671	END 1400 BPD, START 1600 BPD
1/29/02	11:27:00 AM	758	END 1600 BPD, START 1800 BPD
1/29/02	11:42:00 AM	851	END 1800 BPD, START 2000 BPD
1/29/02	11:57:00 AM	946	END 2000 BPD, START 2200 BPD
1/29/02	12:12:00 PM	972	END 2200 BPD, START 2400 BPD
1/29/02	12:27:00 PM	998	END 2400 BPD, START 2600 BPD
1/29/02	12:42:00 PM	1022	END 2600 BPD
1/29/02	12:47:00 PM	936	5 MINUTE FALL OFF
1/29/02	12:54:30 PM		OFF BOTTOM W/ GAUGE @ 4948'



COMPANY: POGO PRODUCING CO. FIELD: LOST TANK DELAWARE W. JOB # 51938
LEASE: LOST TANK 33 FED COUNTY: EDDY TEST DATE: 1/29/02
WELL NUMBER: 2 SWD STATE: NM

BHP VS TIME



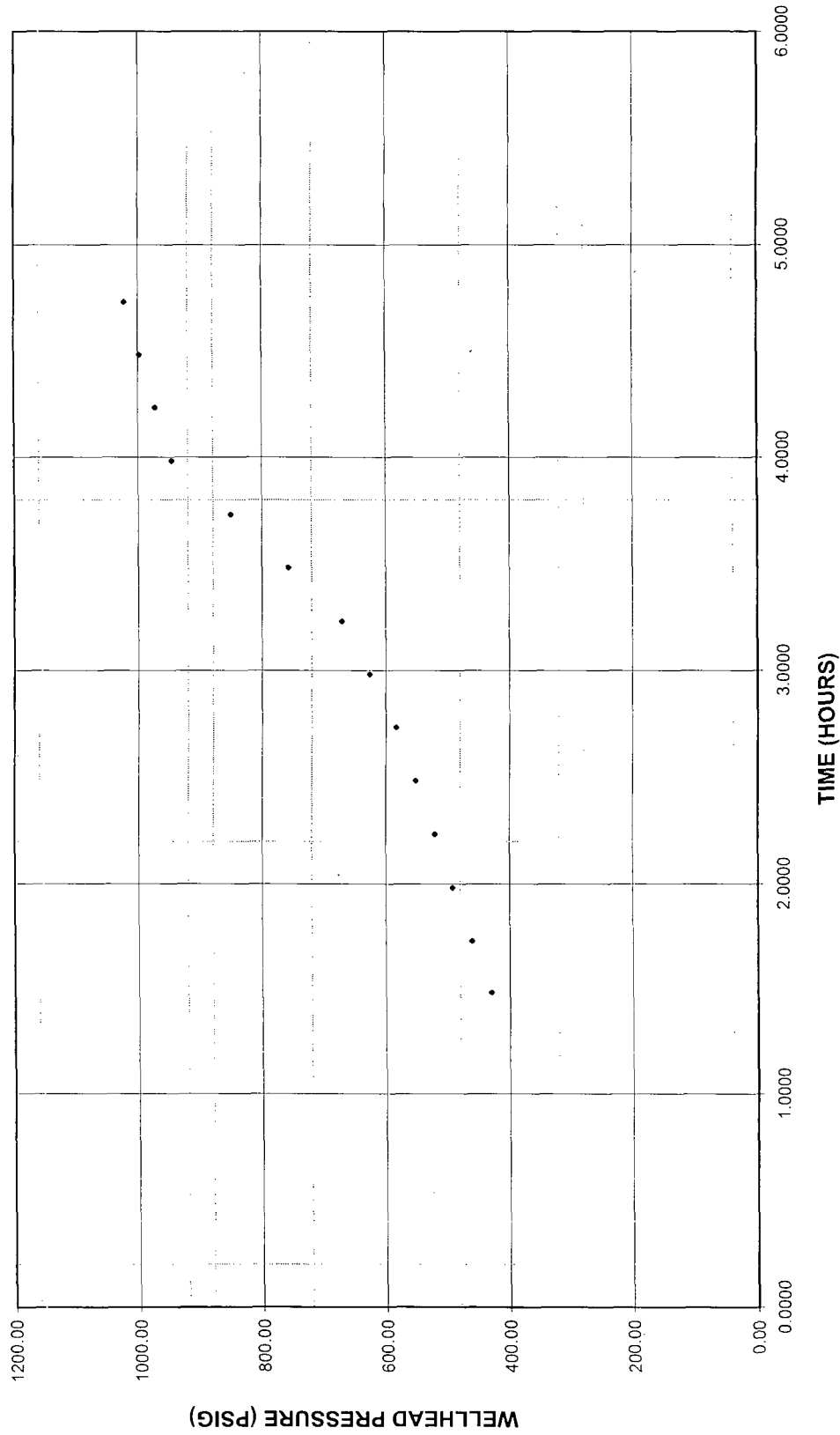


COMPANY: POGO PRODUCING CO.
LEASE: LOST TANK 33 FED
WELL NUMBER: 2 SWD

FIELD: LOST TANK DELAWARE W.
COUNTY: EDDY
STATE: NM

JOB # 51938
TEST DATE: 1/29/02 - 1/29/02

WELLHEAD PRESSURE VS TIME



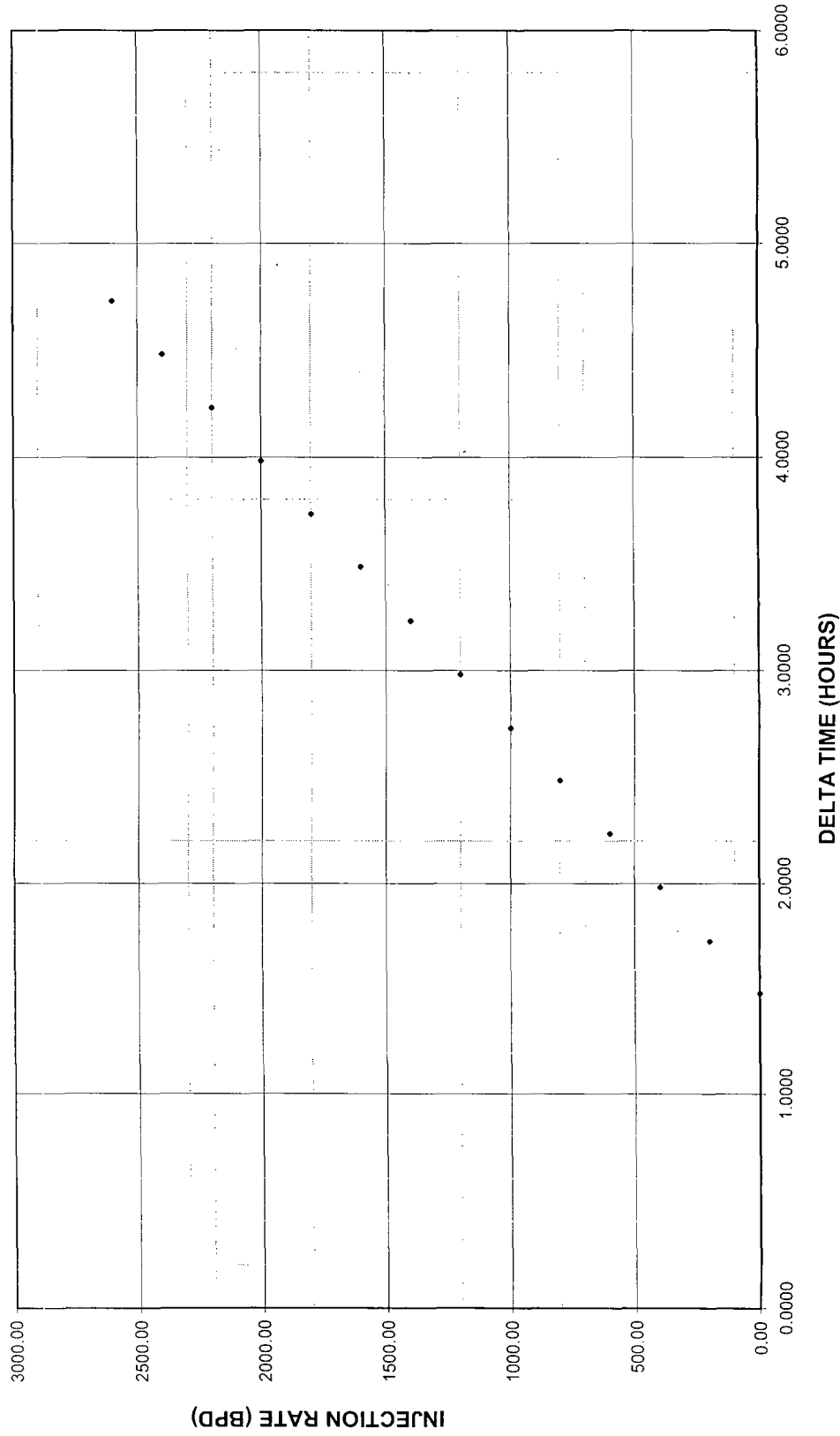


COMPANY: POGO PRODUCING CO.
LEASE: LOST TANK 33 FED
WELL NUMBER: 2 SWD

FIELD: LOST TANK DELAWARE W.
COUNTY: EDDY
STATE: NM

JOB # 51938
TEST DATE: 1/29/02 - 1/29/02

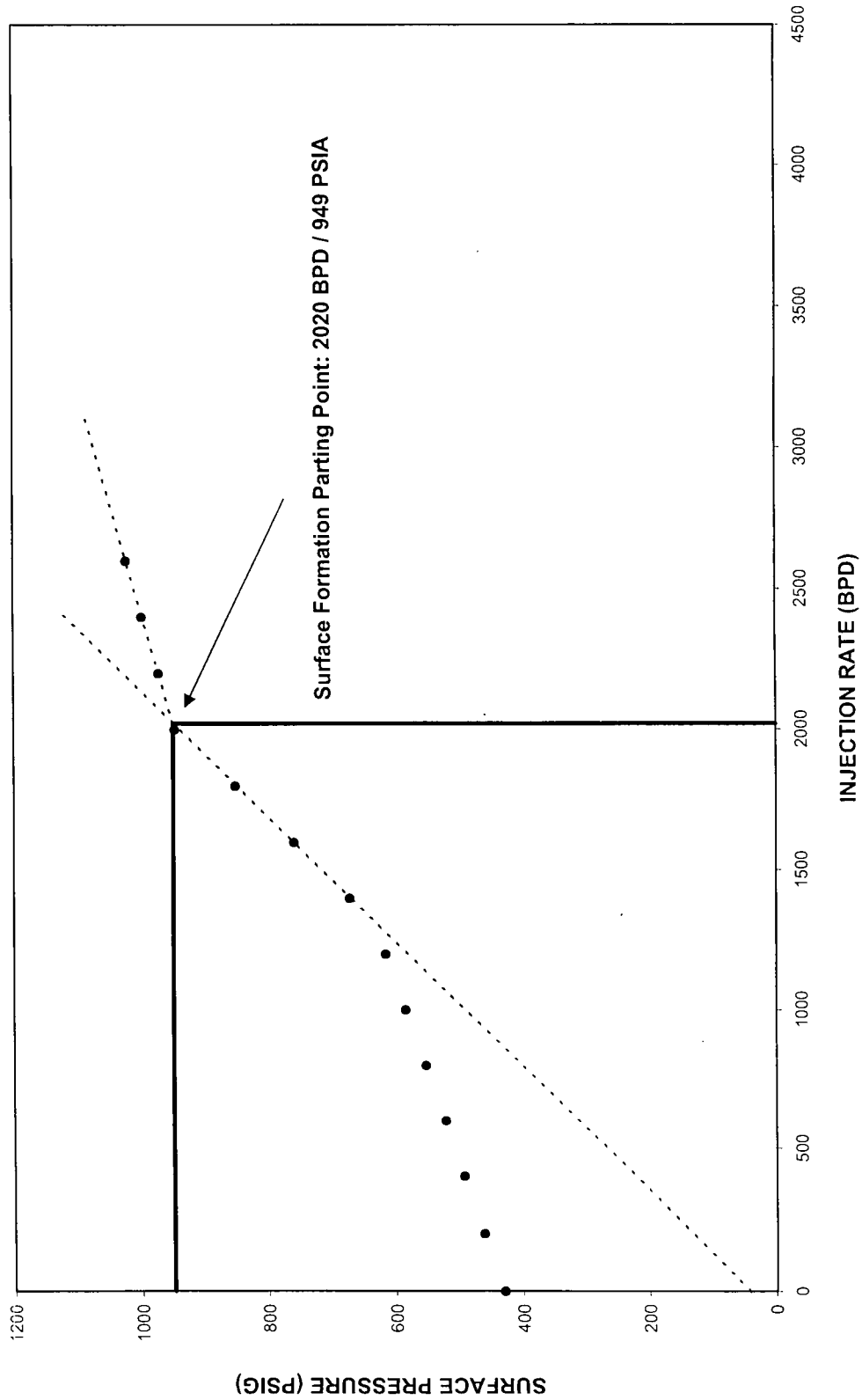
INJECTION RATE VS TIME





COMPANY:	POGO PRODUCING CO.	FIELD:	LOST TANK DELAWARE W.	JOB #	51938
LEASE:	LOST TANK 33 FED	COUNTY:	EDDY	TEST DATE:	1/29/02
WELL NUMBER:	2 SWD	STATE:	NM		1/29/02

STEP-RATE TEST - WHP VS. INJECTION RATE



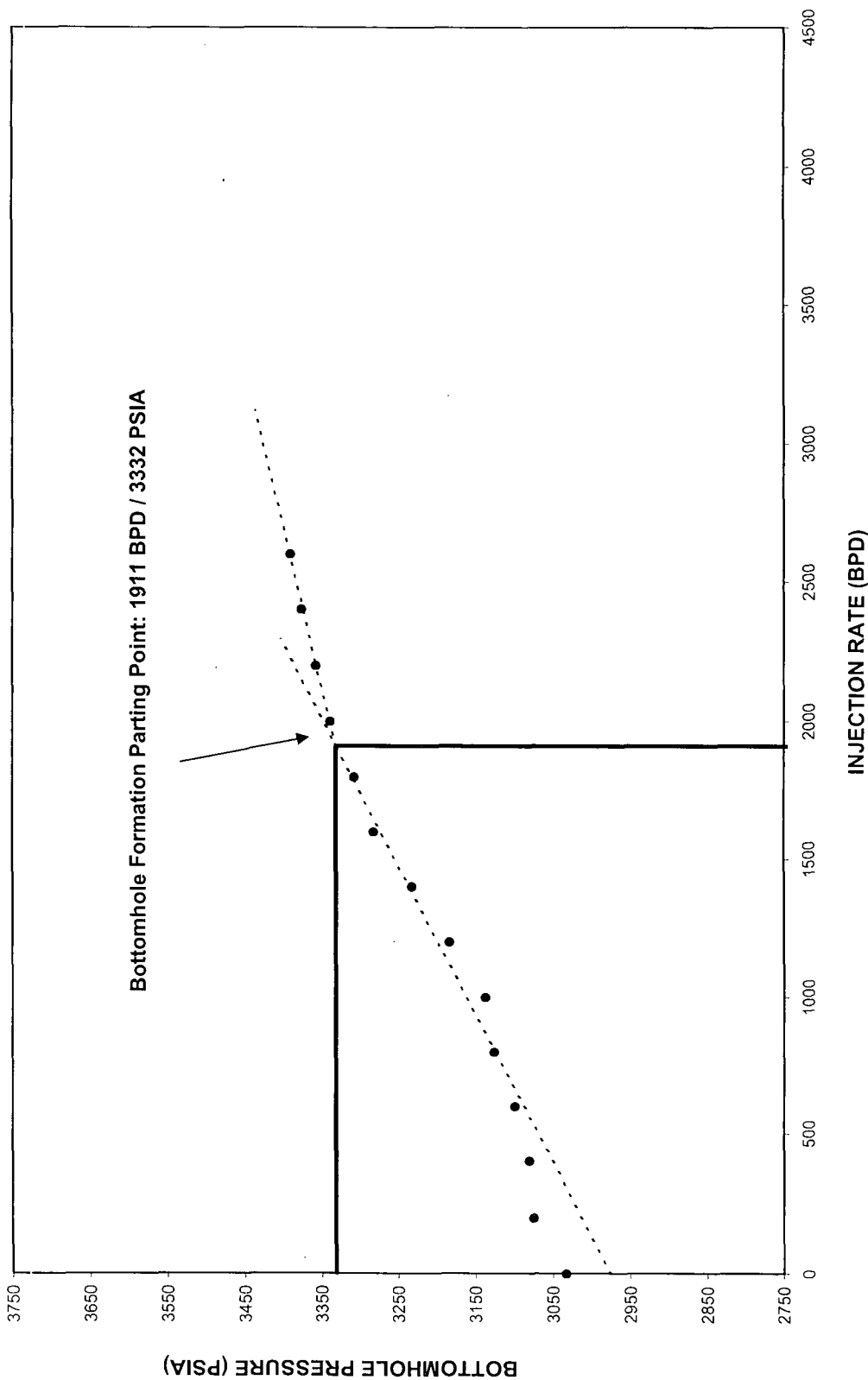
ARC **PRESSURE DATA** **INCORPORATED**

COMPANY: POGO PRODUCING CO.
 LEASE: LOST TANK 33 FED
 WELL NUMBER: 2 SWD

FIELD: LOST TANK DELAWARE W.
 COUNTY: EDDY
 STATE: NM

JOB #: 51938
 TEST DATE: 1/29/02 - 1/29/02

STEP-RATE TEST - BHP VS. INJECTION RATE



ARC

PRESSURE DATA

INCORPORATED

COMPANY: POGO PRODUCING CO.
 LEASE: LOST TANK 33 FED # 2 SWD
 FIELD (FORMATION): LOST TANK DELAWARE W. (BELL)
 COUNTY: EDDY
 STATE: NM

TEST DATES: 1/29/02 - 1/29/02
 RUN DEPTH: 4948
 INSTRUMENT: Z7

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	WELLHEAD PRESSURE, PSIG	INJECTION RATE, BPD	JOB NUMBER: 51938
01/29/02 09:27:00 AM	1.4833	3033.39	429.00	0.00	
01/29/02 09:42:00 AM	1.7333	3074.47	461.00	200.00	
01/29/02 09:57:00 AM	1.9833	3080.86	492.00	400.00	
01/29/02 10:12:00 AM	2.2333	3099.33	521.00	600.00	
01/29/02 10:27:00 AM	2.4833	3125.90	552.00	800.00	
01/29/02 10:42:00 AM	2.7333	3137.25	584.00	1000.00	
1/29/02 10:57:00 AM	2.9833	3183.25	626.00	1200.00	
1/29/02 11:12:00 AM	3.2333	3232.31	671.00	1400.00	
1/29/02 11:27:00 AM	3.4833	3281.81	758.00	1600.00	
1/29/02 11:42:00 AM	3.7333	3306.85	851.00	1800.00	
1/29/02 11:57:00 AM	3.9833	3338.55	946.00	2000.00	
1/29/02 12:12:00 PM	4.2333	3356.76	972.00	2200.00	
1/29/02 12:27:00 PM	4.4833	3375.41	998.00	2400.00	
1/29/02 12:42:00 PM	4.7333	3389.86	1022.00	2600.00	

ARC

PRESSURE DATA

INCORPORATED

COMPANY: POGO PRODUCING CO.
 LEASE: LOST TANK 33 FED # 2 SWD
 FIELD (FORMATION): LOST TANK DELAWARE W. (BELL)
 COUNTY: EDDY
 STATE: NM

TEST DATES: 1/29/02 - 1/29/02
 RUN DEPTH: 4948
 INSTRUMENT: Z7

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 51938
1/29/02 07:45:00 AM			ON LOCATION
1/29/02 07:58:00 AM			START ELECTRONIC GAUGE #Z7
1/29/02 08:45:00 AM			IN LUBRICATOR W/ GAUGE
1/29/02 09:17:00 AM			ON BOTTOM W/ GAUGE @ 4948'
1/29/02 9:17:00 AM	1.3167	3034.93	
1/29/02 9:17:30 AM	1.3250	3034.89	
1/29/02 9:18:00 AM	1.3333	3034.78	
1/29/02 9:18:30 AM	1.3417	3034.69	
1/29/02 9:19:00 AM	1.3500	3034.58	
1/29/02 9:19:30 AM	1.3583	3034.47	
1/29/02 9:20:00 AM	1.3667	3034.38	
1/29/02 9:20:30 AM	1.3750	3034.30	
1/29/02 9:21:00 AM	1.3833	3034.19	
1/29/02 9:21:30 AM	1.3917	3034.07	
1/29/02 9:22:00 AM	1.4000	3033.98	
1/29/02 9:22:30 AM	1.4083	3033.77	
1/29/02 9:23:00 AM	1.4167	3033.74	
1/29/02 9:23:30 AM	1.4250	3033.72	
1/29/02 9:24:00 AM	1.4333	3033.66	
1/29/02 9:24:30 AM	1.4417	3033.57	
1/29/02 9:25:00 AM	1.4500	3033.55	
1/29/02 9:25:30 AM	1.4583	3033.53	
1/29/02 9:26:00 AM	1.4667	3033.44	
1/29/02 9:26:30 AM	1.4750	3033.42	
1/29/02 9:27:00 AM	1.4833	3033.39	
1/29/02 09:27:00 AM			START FIRST RATE @ 200 BPD
1/29/02 9:27:30 AM	1.4917	3036.05	
1/29/02 9:28:00 AM	1.5000	3040.88	
1/29/02 9:28:30 AM	1.5083	3043.26	
1/29/02 9:29:00 AM	1.5167	3046.44	
1/29/02 9:29:30 AM	1.5250	3049.46	
1/29/02 9:30:00 AM	1.5333	3049.75	
1/29/02 9:30:30 AM	1.5417	3052.85	
1/29/02 9:31:00 AM	1.5500	3051.60	
1/29/02 9:31:30 AM	1.5583	3055.34	
1/29/02 9:32:00 AM	1.5667	3057.15	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 51938
1/29/02 9:32:30 AM	1.5750	3057.86	
1/29/02 9:33:00 AM	1.5833	3057.08	
1/29/02 9:33:30 AM	1.5917	3059.60	
1/29/02 9:34:00 AM	1.6000	3061.80	
1/29/02 9:34:30 AM	1.6083	3062.23	
1/29/02 9:35:00 AM	1.6167	3064.02	
1/29/02 9:35:30 AM	1.6250	3063.49	
1/29/02 9:36:00 AM	1.6333	3065.51	
1/29/02 9:36:30 AM	1.6417	3067.41	
1/29/02 9:37:00 AM	1.6500	3066.14	
1/29/02 9:37:30 AM	1.6583	3068.17	
1/29/02 9:38:00 AM	1.6667	3065.88	
1/29/02 9:38:30 AM	1.6750	3068.59	
1/29/02 9:39:00 AM	1.6833	3068.43	
1/29/02 9:39:30 AM	1.6917	3070.25	
1/29/02 9:40:00 AM	1.7000	3072.04	
1/29/02 9:40:30 AM	1.7083	3070.94	
1/29/02 9:41:00 AM	1.7167	3072.95	
1/29/02 9:41:30 AM	1.7250	3072.29	
1/29/02 9:42:00 AM	1.7333	3074.47	
1/29/02 09:42:00 AM			END 200 BPD, START 400 BPD
1/29/02 9:42:30 AM	1.7417	3072.47	
1/29/02 9:43:00 AM	1.7500	3073.19	
1/29/02 9:43:30 AM	1.7583	3075.00	
1/29/02 9:44:00 AM	1.7667	3071.83	
1/29/02 9:44:30 AM	1.7750	3074.31	
1/29/02 9:45:00 AM	1.7833	3075.92	
1/29/02 9:45:30 AM	1.7917	3073.05	
1/29/02 9:46:00 AM	1.8000	3075.19	
1/29/02 9:46:30 AM	1.8083	3076.76	
1/29/02 9:47:00 AM	1.8167	3074.40	
1/29/02 9:47:30 AM	1.8250	3076.18	
1/29/02 9:48:00 AM	1.8333	3077.57	
1/29/02 9:48:30 AM	1.8417	3075.73	
1/29/02 9:49:00 AM	1.8500	3077.10	
1/29/02 9:49:30 AM	1.8583	3078.26	
1/29/02 9:50:00 AM	1.8667	3077.06	
1/29/02 9:50:30 AM	1.8750	3077.92	
1/29/02 9:51:00 AM	1.8833	3078.84	
1/29/02 9:51:30 AM	1.8917	3078.35	
1/29/02 9:52:00 AM	1.9000	3078.73	
1/29/02 9:52:30 AM	1.9083	3079.41	
1/29/02 9:53:00 AM	1.9167	3079.52	
1/29/02 9:53:30 AM	1.9250	3079.63	
1/29/02 9:54:00 AM	1.9333	3080.01	
1/29/02 9:54:30 AM	1.9417	3080.56	
1/29/02 9:55:00 AM	1.9500	3080.45	
1/29/02 9:55:30 AM	1.9583	3080.45	
1/29/02 9:56:00 AM	1.9667	3081.45	
1/29/02 9:56:30 AM	1.9750	3081.22	
1/29/02 9:57:00 AM	1.9833	3080.86	
1/29/02 09:57:00 AM			END 400 BPD, START 600 BPD

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 51938
1/29/02 9:57:30 AM	1.9917	3078.40	
1/29/02 9:58:00 AM	2.0000	3084.69	
1/29/02 9:58:30 AM	2.0083	3081.92	
1/29/02 9:59:00 AM	2.0167	3088.68	
1/29/02 9:59:30 AM	2.0250	3092.44	
1/29/02 10:00:00 AM	2.0333	3084.70	
1/29/02 10:00:30 AM	2.0417	3087.54	
1/29/02 10:01:00 AM	2.0500	3091.08	
1/29/02 10:01:30 AM	2.0583	3087.86	
1/29/02 10:02:00 AM	2.0667	3094.71	
1/29/02 10:02:30 AM	2.0750	3097.10	
1/29/02 10:03:00 AM	2.0833	3089.02	
1/29/02 10:03:30 AM	2.0917	3093.13	
1/29/02 10:04:00 AM	2.1000	3094.57	
1/29/02 10:04:30 AM	2.1083	3092.02	
1/29/02 10:05:00 AM	2.1167	3100.42	
1/29/02 10:05:30 AM	2.1250	3098.26	
1/29/02 10:06:00 AM	2.1333	3091.95	
1/29/02 10:06:30 AM	2.1417	3097.72	
1/29/02 10:07:00 AM	2.1500	3096.37	
1/29/02 10:07:30 AM	2.1583	3096.26	
1/29/02 10:08:00 AM	2.1667	3104.43	
1/29/02 10:08:30 AM	2.1750	3099.76	
1/29/02 10:09:00 AM	2.1833	3095.44	
1/29/02 10:09:30 AM	2.1917	3101.39	
1/29/02 10:10:00 AM	2.2000	3098.26	
1/29/02 10:10:30 AM	2.2083	3100.58	
1/29/02 10:11:00 AM	2.2167	3107.62	
1/29/02 10:11:30 AM	2.2250	3100.00	
1/29/02 10:12:00 AM	2.2333	3099.33	
1/29/02 10:12:00 AM			END 600 BPD, START 800 BPD
1/29/02 10:12:30 AM	2.2417	3103.91	
1/29/02 10:13:00 AM	2.2500	3105.65	
1/29/02 10:13:30 AM	2.2583	3105.30	
1/29/02 10:14:00 AM	2.2667	3107.46	
1/29/02 10:14:30 AM	2.2750	3111.33	
1/29/02 10:15:00 AM	2.2833	3106.52	
1/29/02 10:15:30 AM	2.2917	3113.59	
1/29/02 10:16:00 AM	2.3000	3116.29	
1/29/02 10:16:30 AM	2.3083	3107.93	
1/29/02 10:17:00 AM	2.3167	3117.46	
1/29/02 10:17:30 AM	2.3250	3119.70	
1/29/02 10:18:00 AM	2.3333	3111.33	
1/29/02 10:18:30 AM	2.3417	3119.54	
1/29/02 10:19:00 AM	2.3500	3120.20	
1/29/02 10:19:30 AM	2.3583	3118.01	
1/29/02 10:20:00 AM	2.3667	3122.10	
1/29/02 10:20:30 AM	2.3750	3116.91	
1/29/02 10:21:00 AM	2.3833	3124.34	
1/29/02 10:21:30 AM	2.3917	3126.65	
1/29/02 10:22:00 AM	2.4000	3117.41	
1/29/02 10:22:30 AM	2.4083	3125.89	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 51938
1/29/02 10:23:00 AM	2.4167	3125.42	
1/29/02 10:23:30 AM	2.4250	3124.94	
1/29/02 10:24:00 AM	2.4333	3128.65	
1/29/02 10:24:30 AM	2.4417	3120.89	
1/29/02 10:25:00 AM	2.4500	3129.84	
1/29/02 10:25:30 AM	2.4583	3131.39	
1/29/02 10:26:00 AM	2.4667	3125.38	
1/29/02 10:26:30 AM	2.4750	3130.80	
1/29/02 10:27:00 AM	2.4833	3125.90	
1/29/02 10:27:00 AM			END 800 BPD, START 1000 BPD
1/29/02 10:27:30 AM	2.4917	3132.78	
1/29/02 10:28:00 AM	2.5000	3134.45	
1/29/02 10:28:30 AM	2.5083	3123.35	
1/29/02 10:29:00 AM	2.5167	3133.10	
1/29/02 10:29:30 AM	2.5250	3134.84	
1/29/02 10:30:00 AM	2.5333	3127.50	
1/29/02 10:30:30 AM	2.5417	3134.52	
1/29/02 10:31:00 AM	2.5500	3132.59	
1/29/02 10:31:30 AM	2.5583	3133.46	
1/29/02 10:32:00 AM	2.5667	3136.86	
1/29/02 10:32:30 AM	2.5750	3129.91	
1/29/02 10:33:00 AM	2.5833	3138.01	
1/29/02 10:33:30 AM	2.5917	3139.54	
1/29/02 10:34:00 AM	2.6000	3130.16	
1/29/02 10:34:30 AM	2.6083	3138.99	
1/29/02 10:35:00 AM	2.6167	3139.42	
1/29/02 10:35:30 AM	2.6250	3135.72	
1/29/02 10:36:00 AM	2.6333	3140.29	
1/29/02 10:36:30 AM	2.6417	3135.15	
1/29/02 10:37:00 AM	2.6500	3141.07	
1/29/02 10:37:30 AM	2.6583	3143.21	
1/29/02 10:38:00 AM	2.6667	3133.37	
1/29/02 10:38:30 AM	2.6750	3142.84	
1/29/02 10:39:00 AM	2.6833	3143.00	
1/29/02 10:39:30 AM	2.6917	3139.01	
1/29/02 10:40:00 AM	2.7000	3143.80	
1/29/02 10:40:30 AM	2.7083	3137.90	
1/29/02 10:41:00 AM	2.7167	3145.05	
1/29/02 10:41:30 AM	2.7250	3146.57	
1/29/02 10:42:00 AM	2.7333	3137.25	
1/29/02 10:42:00 AM			END 1000 BPD, START 1200 BPD
1/29/02 10:42:30 AM	2.7417	3136.88	
1/29/02 10:43:00 AM	2.7500	3157.22	
1/29/02 10:43:30 AM	2.7583	3139.96	
1/29/02 10:44:00 AM	2.7667	3158.95	
1/29/02 10:44:30 AM	2.7750	3150.29	
1/29/02 10:45:00 AM	2.7833	3155.22	
1/29/02 10:45:30 AM	2.7917	3161.30	
1/29/02 10:46:00 AM	2.8000	3152.19	
1/29/02 10:46:30 AM	2.8083	3169.36	
1/29/02 10:47:00 AM	2.8167	3151.82	
1/29/02 10:47:30 AM	2.8250	3172.89	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 51938
1/29/02 10:48:00 AM	2.8333	3154.51	
1/29/02 10:48:30 AM	2.8417	3172.99	
1/29/02 10:49:00 AM	2.8500	3159.71	
1/29/02 10:49:30 AM	2.8583	3172.33	
1/29/02 10:50:00 AM	2.8667	3165.41	
1/29/02 10:50:30 AM	2.8750	3171.32	
1/29/02 10:51:00 AM	2.8833	3171.20	
1/29/02 10:51:30 AM	2.8917	3168.94	
1/29/02 10:52:00 AM	2.9000	3177.64	
1/29/02 10:52:30 AM	2.9083	3166.04	
1/29/02 10:53:00 AM	2.9167	3182.90	
1/29/02 10:53:30 AM	2.9250	3164.97	
1/29/02 10:54:00 AM	2.9333	3185.39	
1/29/02 10:54:30 AM	2.9417	3167.11	
1/29/02 10:55:00 AM	2.9500	3185.60	
1/29/02 10:55:30 AM	2.9583	3170.68	
1/29/02 10:56:00 AM	2.9667	3184.61	
1/29/02 10:56:30 AM	2.9750	3175.29	
1/29/02 10:57:00 AM	2.9833	3183.25	
1/29/02 10:57:00 AM			END 1200 BPD, START 1400 BPD
1/29/02 10:57:30 AM	2.9917	3180.74	
1/29/02 10:58:00 AM	3.0000	3183.01	
1/29/02 10:58:30 AM	3.0083	3186.89	
1/29/02 10:59:00 AM	3.0167	3194.91	
1/29/02 10:59:30 AM	3.0250	3197.30	
1/29/02 11:00:00 AM	3.0333	3198.29	
1/29/02 11:00:30 AM	3.0417	3204.49	
1/29/02 11:01:00 AM	3.0500	3208.78	
1/29/02 11:01:30 AM	3.0583	3210.54	
1/29/02 11:02:00 AM	3.0667	3211.98	
1/29/02 11:02:30 AM	3.0750	3207.05	
1/29/02 11:03:00 AM	3.0833	3210.15	
1/29/02 11:03:30 AM	3.0917	3218.98	
1/29/02 11:04:00 AM	3.1000	3214.41	
1/29/02 11:04:30 AM	3.1083	3215.07	
1/29/02 11:05:00 AM	3.1167	3224.55	
1/29/02 11:05:30 AM	3.1250	3226.12	
1/29/02 11:06:00 AM	3.1333	3222.95	
1/29/02 11:06:30 AM	3.1417	3229.04	
1/29/02 11:07:00 AM	3.1500	3231.05	
1/29/02 11:07:30 AM	3.1583	3233.34	
1/29/02 11:08:00 AM	3.1667	3228.73	
1/29/02 11:08:30 AM	3.1750	3228.87	
1/29/02 11:09:00 AM	3.1833	3230.76	
1/29/02 11:09:30 AM	3.1917	3233.09	
1/29/02 11:10:00 AM	3.2000	3231.05	
1/29/02 11:10:30 AM	3.2083	3233.36	
1/29/02 11:11:00 AM	3.2167	3232.20	
1/29/02 11:11:30 AM	3.2250	3231.97	
1/29/02 11:12:00 AM	3.2333	3232.31	
1/29/02 11:12:00 AM			END 1400 BPD, START 1600 BPD
1/29/02 11:12:30 AM	3.2417	3236.81	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 51938
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1/29/02 11:13:00 AM	3.2500	3243.53	
1/29/02 11:13:30 AM	3.2583	3242.16	
1/29/02 11:14:00 AM	3.2667	3241.07	
1/29/02 11:14:30 AM	3.2750	3237.75	
1/29/02 11:15:00 AM	3.2833	3247.08	
1/29/02 11:15:30 AM	3.2917	3246.25	
1/29/02 11:16:00 AM	3.3000	3250.59	
1/29/02 11:16:30 AM	3.3083	3255.56	
1/29/02 11:17:00 AM	3.3167	3253.45	
1/29/02 11:17:30 AM	3.3250	3256.02	
1/29/02 11:18:00 AM	3.3333	3258.24	
1/29/02 11:18:30 AM	3.3417	3255.83	
1/29/02 11:19:00 AM	3.3500	3261.41	
1/29/02 11:19:30 AM	3.3583	3259.59	
1/29/02 11:20:00 AM	3.3667	3263.31	
1/29/02 11:20:30 AM	3.3750	3262.89	
1/29/02 11:21:00 AM	3.3833	3264.09	
1/29/02 11:21:30 AM	3.3917	3266.72	
1/29/02 11:22:00 AM	3.4000	3269.01	
1/29/02 11:22:30 AM	3.4083	3269.76	
1/29/02 11:23:00 AM	3.4167	3271.01	
1/29/02 11:23:30 AM	3.4250	3271.77	
1/29/02 11:24:00 AM	3.4333	3273.76	
1/29/02 11:24:30 AM	3.4417	3275.76	
1/29/02 11:25:00 AM	3.4500	3275.93	
1/29/02 11:25:30 AM	3.4583	3277.22	
1/29/02 11:26:00 AM	3.4667	3279.66	
1/29/02 11:26:30 AM	3.4750	3279.13	
1/29/02 11:27:00 AM	3.4833	3281.81	
1/29/02 11:27:00 AM			END 1600 BPD, START 1800 BPD
1/29/02 11:27:30 AM	3.4917	3281.19	
1/29/02 11:28:00 AM	3.5000	3285.12	
1/29/02 11:28:30 AM	3.5083	3286.44	
1/29/02 11:29:00 AM	3.5167	3288.35	
1/29/02 11:29:30 AM	3.5250	3289.09	
1/29/02 11:30:00 AM	3.5333	3291.99	
1/29/02 11:30:30 AM	3.5417	3289.09	
1/29/02 11:31:00 AM	3.5500	3290.13	
1/29/02 11:31:30 AM	3.5583	3294.04	
1/29/02 11:32:00 AM	3.5667	3292.18	
1/29/02 11:32:30 AM	3.5750	3292.74	
1/29/02 11:33:00 AM	3.5833	3294.59	
1/29/02 11:33:30 AM	3.5917	3296.21	
1/29/02 11:34:00 AM	3.6000	3295.93	
1/29/02 11:34:30 AM	3.6083	3296.42	
1/29/02 11:35:00 AM	3.6167	3297.55	
1/29/02 11:35:30 AM	3.6250	3298.73	
1/29/02 11:36:00 AM	3.6333	3299.18	
1/29/02 11:36:30 AM	3.6417	3300.09	
1/29/02 11:37:00 AM	3.6500	3302.26	
1/29/02 11:37:30 AM	3.6583	3301.09	
1/29/02 11:38:00 AM	3.6667	3301.76	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 51938
1/29/02 11:38:30 AM	3.6750	3303.25	
1/29/02 11:39:00 AM	3.6833	3303.61	
1/29/02 11:39:30 AM	3.6917	3305.81	
1/29/02 11:40:00 AM	3.7000	3304.82	
1/29/02 11:40:30 AM	3.7083	3305.38	
1/29/02 11:41:00 AM	3.7167	3308.15	
1/29/02 11:41:30 AM	3.7250	3307.23	
1/29/02 11:42:00 AM	3.7333	3306.85	
1/29/02 11:42:00 AM			END 1800 BPD, START 2000 BPD
1/29/02 11:42:30 AM	3.7417	3308.54	
1/29/02 11:43:00 AM	3.7500	3308.58	
1/29/02 11:43:30 AM	3.7583	3308.33	
1/29/02 11:44:00 AM	3.7667	3311.97	
1/29/02 11:44:30 AM	3.7750	3314.91	
1/29/02 11:45:00 AM	3.7833	3317.29	
1/29/02 11:45:30 AM	3.7917	3318.28	
1/29/02 11:46:00 AM	3.8000	3319.05	
1/29/02 11:46:30 AM	3.8083	3320.63	
1/29/02 11:47:00 AM	3.8167	3322.32	
1/29/02 11:47:30 AM	3.8250	3323.39	
1/29/02 11:48:00 AM	3.8333	3323.03	
1/29/02 11:48:30 AM	3.8417	3325.76	
1/29/02 11:49:00 AM	3.8500	3325.93	
1/29/02 11:49:30 AM	3.8583	3326.09	
1/29/02 11:50:00 AM	3.8667	3327.30	
1/29/02 11:50:30 AM	3.8750	3328.47	
1/29/02 11:51:00 AM	3.8833	3330.04	
1/29/02 11:51:30 AM	3.8917	3329.38	
1/29/02 11:52:00 AM	3.9000	3331.59	
1/29/02 11:52:30 AM	3.9083	3331.86	
1/29/02 11:53:00 AM	3.9167	3332.56	
1/29/02 11:53:30 AM	3.9250	3332.44	
1/29/02 11:54:00 AM	3.9333	3333.43	
1/29/02 11:54:30 AM	3.9417	3335.46	
1/29/02 11:55:00 AM	3.9500	3334.75	
1/29/02 11:55:30 AM	3.9583	3337.75	
1/29/02 11:56:00 AM	3.9667	3335.97	
1/29/02 11:56:30 AM	3.9750	3337.28	
1/29/02 11:57:00 AM	3.9833	3338.55	
1/29/02 11:57:00 AM			END 2000 BPD, START 2200 BPD
1/29/02 11:57:30 AM	3.9917	3339.43	
1/29/02 11:58:00 AM	4.0000	3340.48	
1/29/02 11:58:30 AM	4.0083	3342.27	
1/29/02 11:59:00 AM	4.0167	3341.40	
1/29/02 11:59:30 AM	4.0250	3342.76	
1/29/02 12:00:00 PM	4.0333	3343.94	
1/29/02 12:00:30 PM	4.0417	3344.91	
1/29/02 12:01:00 PM	4.0500	3345.28	
1/29/02 12:01:30 PM	4.0583	3346.10	
1/29/02 12:02:00 PM	4.0667	3346.60	
1/29/02 12:02:30 PM	4.0750	3347.25	
1/29/02 12:03:00 PM	4.0833	3348.03	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 51938
1/29/02 12:03:30 PM	4.0917	3348.98	
1/29/02 12:04:00 PM	4.1000	3348.88	
1/29/02 12:04:30 PM	4.1083	3350.09	
1/29/02 12:05:00 PM	4.1167	3351.49	
1/29/02 12:05:30 PM	4.1250	3352.30	
1/29/02 12:06:00 PM	4.1333	3351.56	
1/29/02 12:06:30 PM	4.1417	3353.12	
1/29/02 12:07:00 PM	4.1500	3353.54	
1/29/02 12:07:30 PM	4.1583	3353.13	
1/29/02 12:08:00 PM	4.1667	3353.28	
1/29/02 12:08:30 PM	4.1750	3353.86	
1/29/02 12:09:00 PM	4.1833	3354.14	
1/29/02 12:09:30 PM	4.1917	3354.54	
1/29/02 12:10:00 PM	4.2000	3355.50	
1/29/02 12:10:30 PM	4.2083	3356.36	
1/29/02 12:11:00 PM	4.2167	3355.97	
1/29/02 12:11:30 PM	4.2250	3357.31	
1/29/02 12:12:00 PM	4.2333	3356.76	
1/29/02 12:12:00 PM			END 2200 BPD, START 2400 BPD
1/29/02 12:12:30 PM	4.2417	3356.89	
1/29/02 12:13:00 PM	4.2500	3358.42	
1/29/02 12:13:30 PM	4.2583	3357.12	
1/29/02 12:14:00 PM	4.2667	3357.21	
1/29/02 12:14:30 PM	4.2750	3359.29	
1/29/02 12:15:00 PM	4.2833	3359.62	
1/29/02 12:15:30 PM	4.2917	3359.88	
1/29/02 12:16:00 PM	4.3000	3360.24	
1/29/02 12:16:30 PM	4.3083	3361.27	
1/29/02 12:17:00 PM	4.3167	3362.81	
1/29/02 12:17:30 PM	4.3250	3363.95	
1/29/02 12:18:00 PM	4.3333	3364.93	
1/29/02 12:18:30 PM	4.3417	3365.89	
1/29/02 12:19:00 PM	4.3500	3366.68	
1/29/02 12:19:30 PM	4.3583	3367.33	
1/29/02 12:20:00 PM	4.3667	3368.10	
1/29/02 12:20:30 PM	4.3750	3368.80	
1/29/02 12:21:00 PM	4.3833	3369.48	
1/29/02 12:21:30 PM	4.3917	3370.01	
1/29/02 12:22:00 PM	4.4000	3370.65	
1/29/02 12:22:30 PM	4.4083	3371.25	
1/29/02 12:23:00 PM	4.4167	3371.51	
1/29/02 12:23:30 PM	4.4250	3372.24	
1/29/02 12:24:00 PM	4.4333	3372.68	
1/29/02 12:24:30 PM	4.4417	3373.29	
1/29/02 12:25:00 PM	4.4500	3373.58	
1/29/02 12:25:30 PM	4.4583	3374.00	
1/29/02 12:26:00 PM	4.4667	3374.57	
1/29/02 12:26:30 PM	4.4750	3375.02	
1/29/02 12:27:00 PM	4.4833	3375.41	
1/29/02 12:27:00 PM			END 2400 BPD, START 2600 BPD
1/29/02 12:27:30 PM	4.4917	3375.95	
1/29/02 12:28:00 PM	4.5000	3376.57	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 51938
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1/29/02 12:28:30 PM	4.5083	3377.62	
1/29/02 12:29:00 PM	4.5167	3378.53	
1/29/02 12:29:30 PM	4.5250	3379.10	
1/29/02 12:30:00 PM	4.5333	3379.90	
1/29/02 12:30:30 PM	4.5417	3380.54	
1/29/02 12:31:00 PM	4.5500	3381.01	
1/29/02 12:31:30 PM	4.5583	3381.77	
1/29/02 12:32:00 PM	4.5667	3382.35	
1/29/02 12:32:30 PM	4.5750	3382.70	
1/29/02 12:33:00 PM	4.5833	3383.27	
1/29/02 12:33:30 PM	4.5917	3383.74	
1/29/02 12:34:00 PM	4.6000	3384.04	
1/29/02 12:34:30 PM	4.6083	3384.53	
1/29/02 12:35:00 PM	4.6167	3385.04	
1/29/02 12:35:30 PM	4.6250	3385.54	
1/29/02 12:36:00 PM	4.6333	3385.88	
1/29/02 12:36:30 PM	4.6417	3386.36	
1/29/02 12:37:00 PM	4.6500	3386.52	
1/29/02 12:37:30 PM	4.6583	3387.14	
1/29/02 12:38:00 PM	4.6667	3387.26	
1/29/02 12:38:30 PM	4.6750	3387.87	
1/29/02 12:39:00 PM	4.6833	3388.19	
1/29/02 12:39:30 PM	4.6917	3388.28	
1/29/02 12:40:00 PM	4.7000	3388.76	
1/29/02 12:40:30 PM	4.7083	3389.07	
1/29/02 12:41:00 PM	4.7167	3389.28	
1/29/02 12:41:30 PM	4.7250	3389.76	
1/29/02 12:42:00 PM	4.7333	3389.86	
1/29/02 12:42:00 PM			END 2600 BPD
1/29/02 12:42:30 PM	4.7417	3380.77	
1/29/02 12:43:00 PM	4.7500	3374.30	
1/29/02 12:43:30 PM	4.7583	3368.79	
1/29/02 12:44:00 PM	4.7667	3363.92	
1/29/02 12:44:30 PM	4.7750	3359.46	
1/29/02 12:45:00 PM	4.7833	3355.46	
1/29/02 12:45:30 PM	4.7917	3351.58	
1/29/02 12:46:00 PM	4.8000	3347.91	
1/29/02 12:46:30 PM	4.8083	3344.48	
1/29/02 12:47:00 PM			5 MINUTE FALL OFF
1/29/02 12:47:00 PM	4.8167	3341.06	
1/29/02 12:47:30 PM	4.8250	3337.94	
1/29/02 12:48:00 PM	4.8333	3334.79	
1/29/02 12:48:30 PM	4.8417	3331.77	
1/29/02 12:49:00 PM	4.8500	3328.83	
1/29/02 12:49:30 PM	4.8583	3326.07	
1/29/02 12:50:00 PM	4.8667	3323.26	
1/29/02 12:50:30 PM	4.8750	3320.62	
1/29/02 12:51:00 PM	4.8833	3317.97	
1/29/02 12:51:30 PM	4.8917	3315.28	
1/29/02 12:52:00 PM	4.9000	3312.90	
1/29/02 12:52:30 PM	4.9083	3310.41	
1/29/02 12:53:00 PM	4.9167	3307.85	

REAL TIME	DELTA TIME, HOURS	BOTTOMHOLE PRESSURE, PSIA	REMARKS - JOB NUMBER: 51938
1/29/02 12:53:30 PM	4.9250	3305.51	
1/29/02 12:54:00 PM	4.9333	3303.16	
1/29/02 12:54:30 PM			OFF BOTTOM W/ GAUGE @ 4948'
1/29/02 12:54:30 PM	4.9417	3300.87	