

02/20/09 DATE IN	SUSPENSE	T. Warnell ENGINEER	2/24/09 LOGGED IN	IPI TYPE	PKAA 0905537481 APP NO.
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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



API: 30-045-34317
WELL NAME: KU'TZ
FEDERAL SWD #001
CO: XTO Energy
OGRID: 5380

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] XTO
[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.

RYAN LAVERGNE
Print or Type Name

Signature

Title

Date

Ryan Lavergne
e-mail Address

505-320-0144

SWD-1097-A
2-11-2009
8/0 PSI

grant 1280



RECEIVED

2009 FEB 20 AM 11 43

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

Re: Step Rate Injection Test
Kutz Federal SWD #1
Sec. 6, T27N-R10W
San Juan County, NM

30-045-34317
unit F

Point Lookout member of Mesaverde
4048' - 4104'
2 7/8 Tubing PL

Dear Mr. Jones:

XTO Energy Inc. ("XTO") performed a step-rate injection test on the referenced well on January 19, 2009. Based upon the results of this test, XTO requests an increase in the maximum allowable injection pressure to 1329 psi measured at the surface.

Attached is the supporting documentation to justify the rate increase. Please call if you have any questions or need additional data.

Sincerely,

Ryan Lavergne
Operations Engineer

cc: Mr. Charlie Perrin, NMOCD

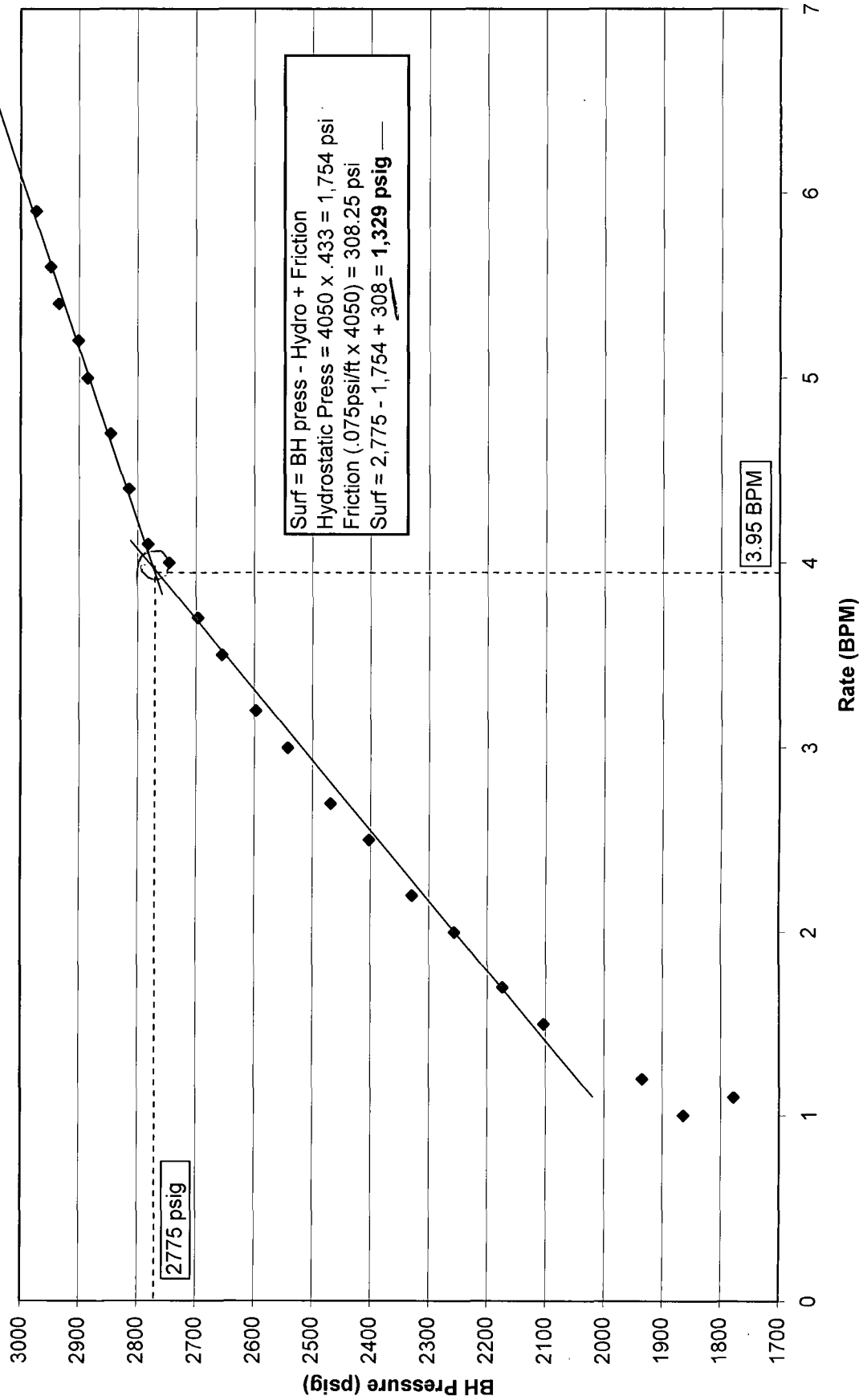
SWD-1097-A
810 PSI
2-11-09

1329 PSI
-50
1279 PSI
4048' - 4104'
1280 PSI
0.311647 gpd

Kutz Federal SWD #1 Injection Test on 1/19/09						
Halliburton stg #	BPM	Stage start time			BH Press	
		Real Time	Stg Length	Phoenix Δt	psig	
1	0.75	10:02:01 AM	0:03:24	2.45	1778	
2	1	10:05:25 AM	0:14:51	2.50	1864	
3	1.25	10:20:16 AM	0:15:27	2.75	1934	
4	1.5	10:35:43 AM	0:47:41	3.00	2103	
5	1.75	11:23:24 AM	0:21:12	3.80	2174	
6	2	11:44:36 AM	0:20:09	4.15	2256	
7	2.25	12:04:45 PM	0:20:41	4.49	2329	
8	2.5	12:25:26 PM	0:20:15	4.84	2403	
9	2.75	12:45:41 PM	0:19:40	5.17	2469	
10	3	1:05:21 PM	0:19:56	5.50	2543	
11	3.25	1:25:17 PM	0:20:05	5.84	2597	
12	3.5	1:45:22 PM	0:20:59	6.17	2655	
13	3.75	2:06:21 PM	0:20:01	6.52	2697	
14	4	2:26:22 PM	0:19:07	6.85	2746	
15	4.25	2:45:29 PM	0:15:10	7.17	2782	
16	4.5	3:00:39 PM	0:15:59	7.42	2815	
17	4.75	3:16:38 PM	0:14:01	7.69	2846	
18	5	3:30:39 PM	0:14:44	7.92	2886	
19	5.25	3:45:23 PM	0:15:07	8.17	2901	
20	5.5	4:00:30 PM	0:14:55	8.42	2935	
21	5.75	4:15:25 PM	0:15:07	8.67	2949	
22	6	4:30:32 PM	-	8.92	2973	

Gauges powered on @ 7:35:00 AM 1/19/2009

Kutz Federal SWD #1 Injection Test Results - 1/19/09



Friction Pressure Gradient of 2-7/8", 6.4# Tubing

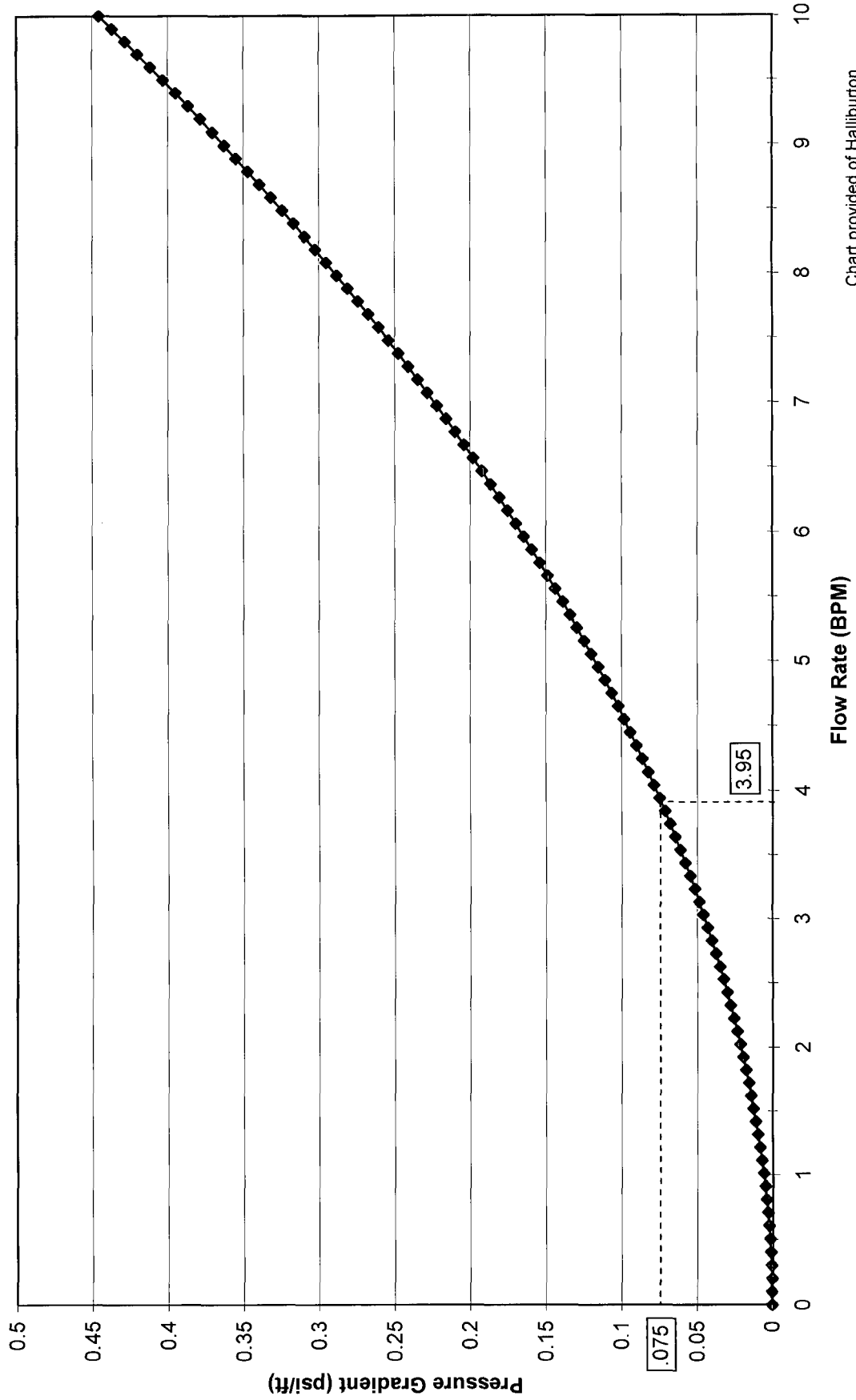
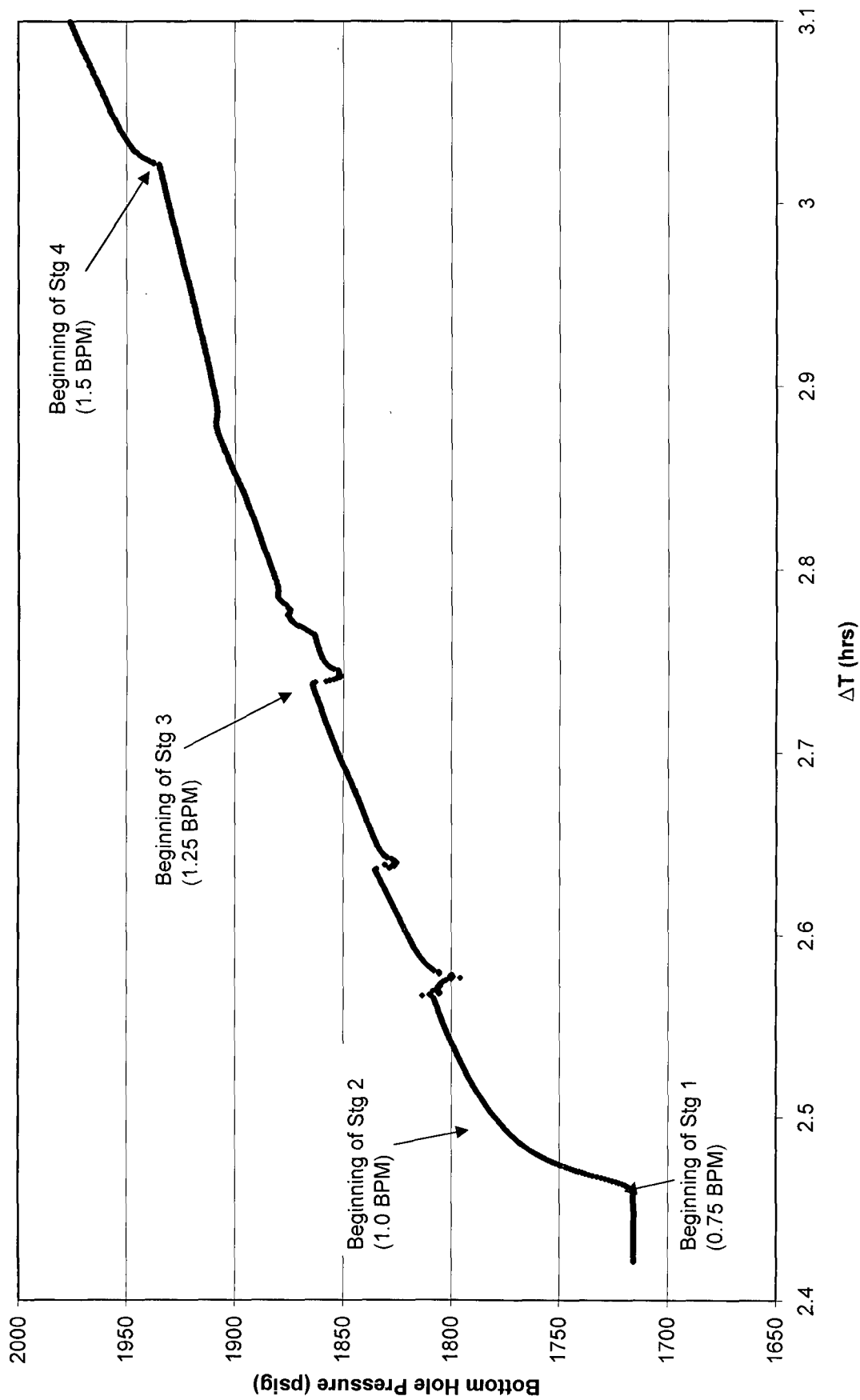
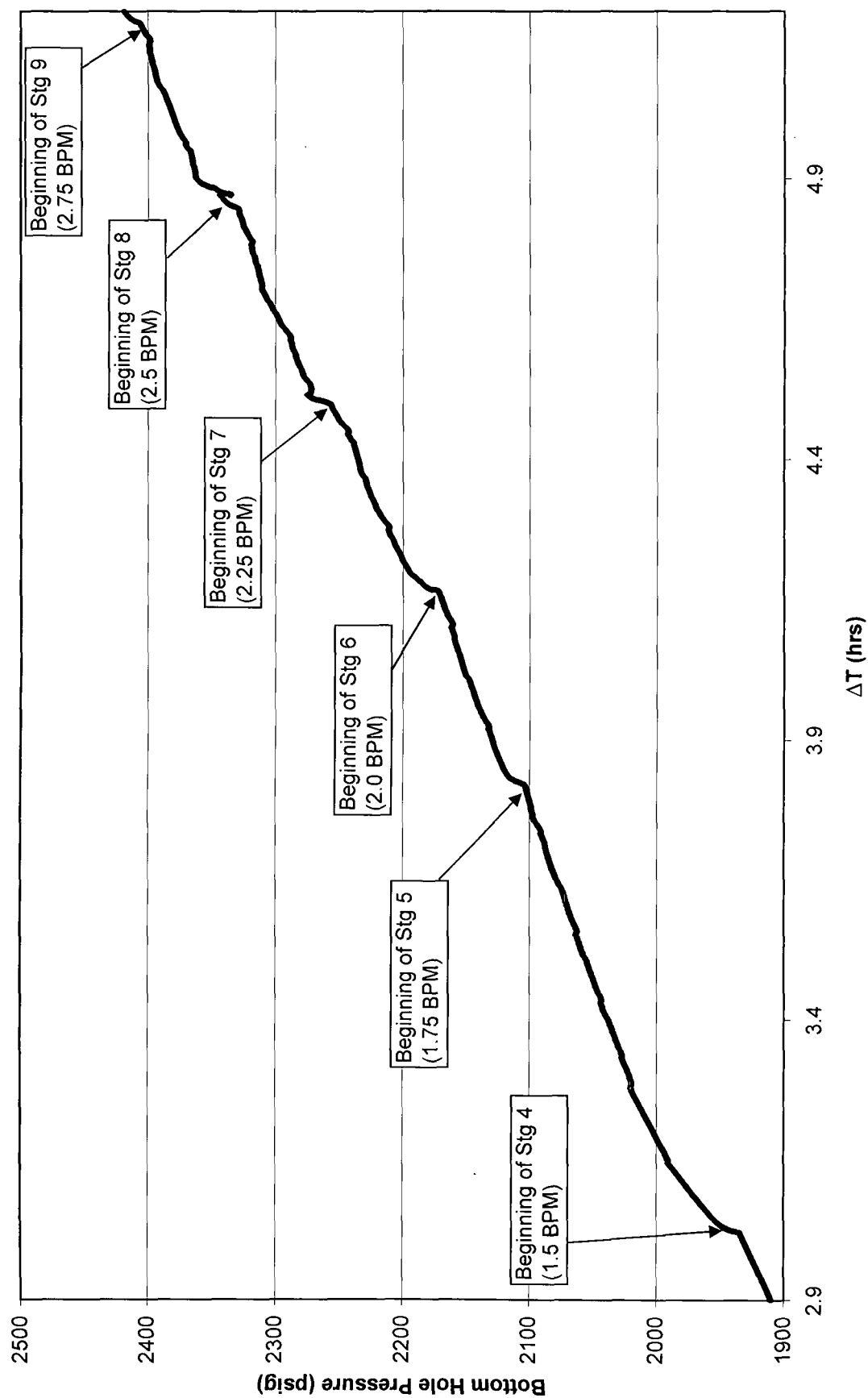


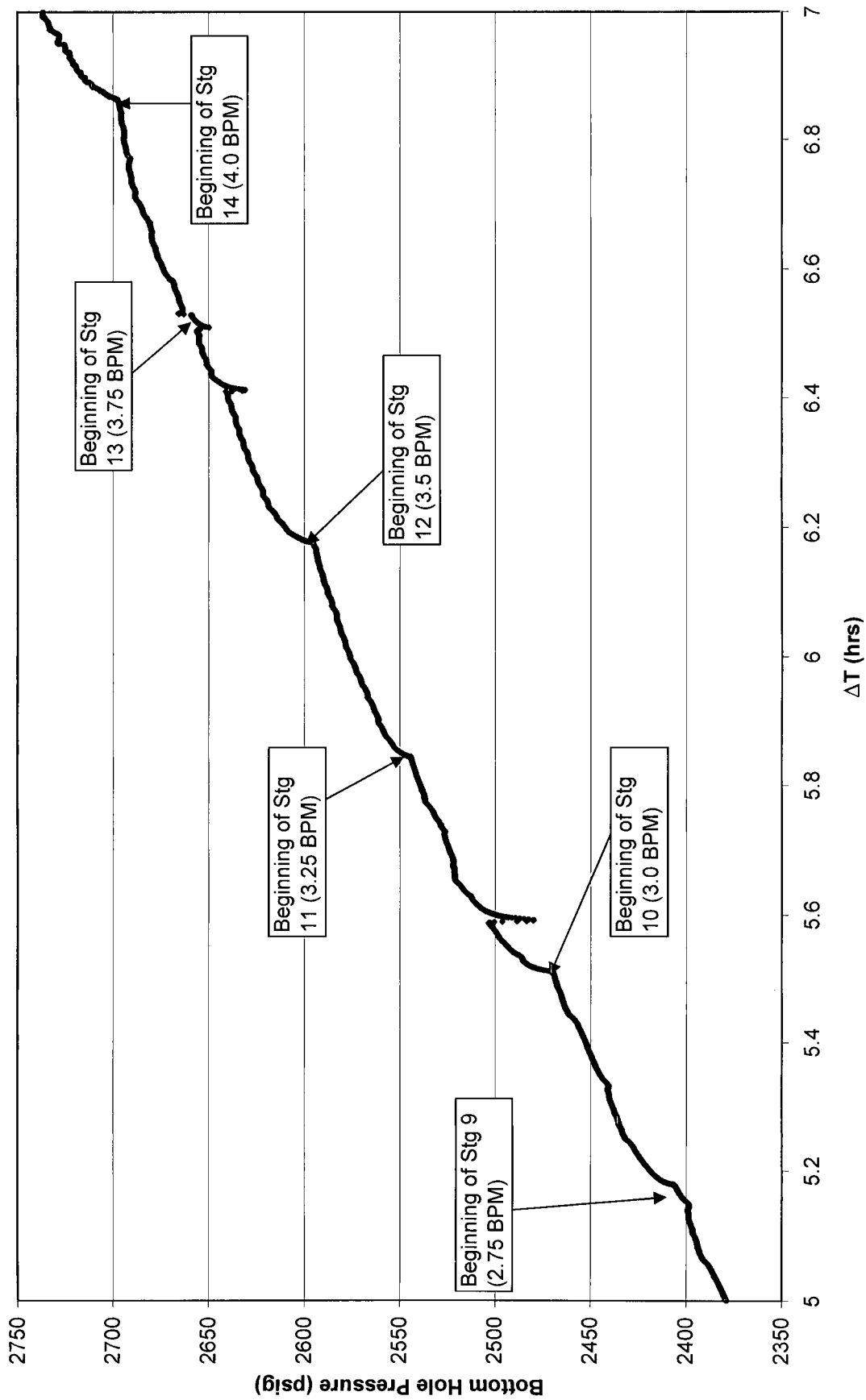
Chart provided of Halliburton



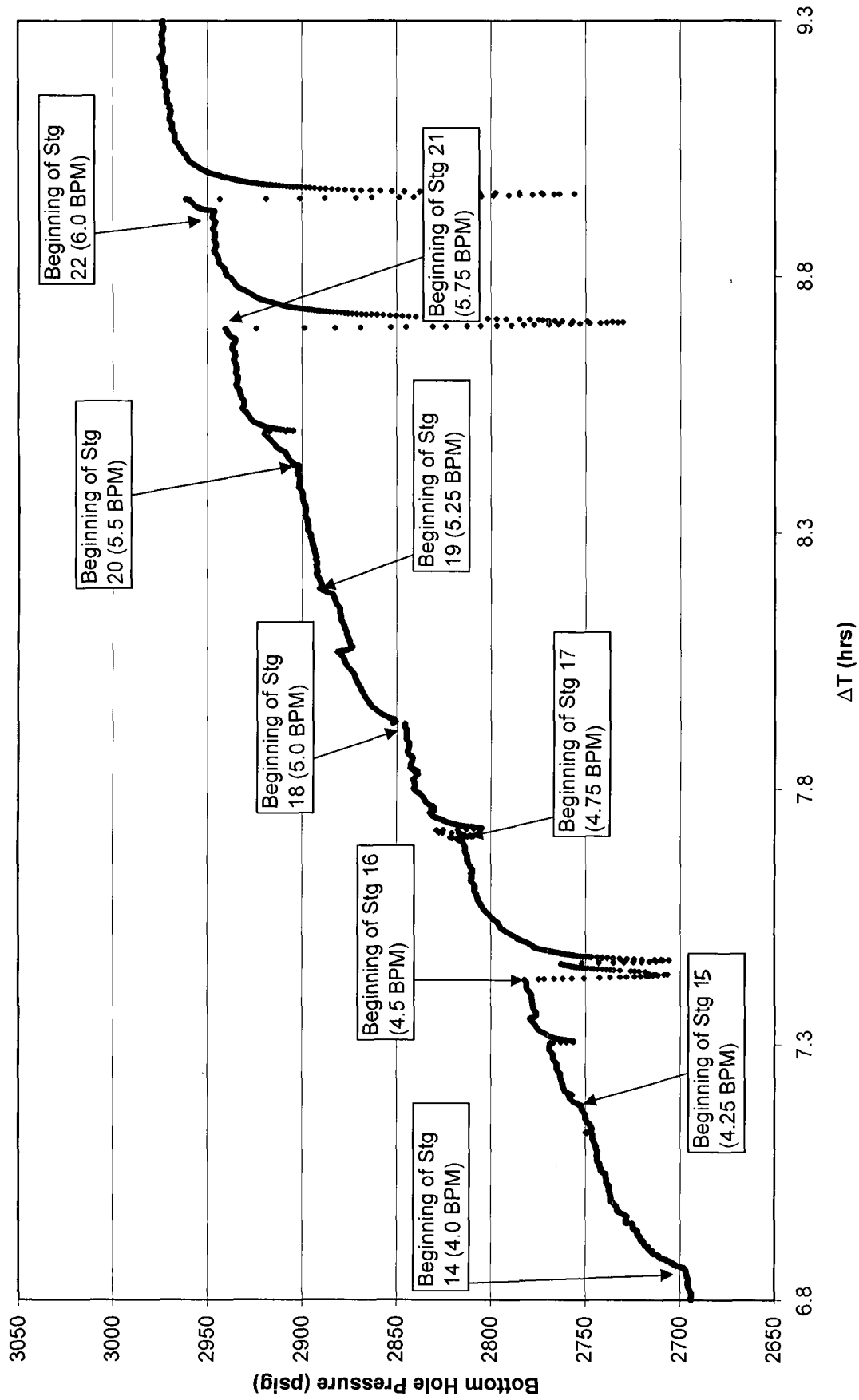
Bottom Pressure as a Function of Rate: Stages 1 - 3



Bottom Pressure as a Function of Rate: Stages 4 - 8



Bottom Pressure as a Function of Rate: Stages 9 - 13



Bottom Pressure as a Function of Rate: Stages 14 - 22



PRESSURE GAUGE DATA

Company: XTO Energy, Inc.

Well Name: Kutz Federal SWD #1

Date: January 19-22, 2009

INDIVIDUAL WELL DATA SHEET

[illegible]

Static Gradient Report

Oil Company: XTO ENERGY, INC.
Well Name: KUTZ FEDERAL SWD 1
Well Location: T27N, R10W, SEC. 6
On Bottom Time: 1/19/09 @ 0755 HRS
Off Bottom Time: 1/22/09 @ 0856 HRS

OIL COMPANY INFORMATION

Oil Company: XTO ENERGY, INC.
Address: FARMINGTON, NM

WELL INFORMATION

Well Name: KUTZ FEDERAL SWD 1
Well Location: T27N, R10W, SEC. 6
Field:
Pool:
Formation:
Well Licence Number: 3004534317
Well Fluid Status: 06 Water
Well Mode Status: 07 Standing(Drilled & Cased)
Well Type Status: 04 Disposal
Well Type Indicator: Vertical
Production Interval(KB) From: 4048 TO 4104
KB Elevation: CF Elevation: Ground Elevation:
Pool Datum: Datum Depth: 0
Producing Through: Tubing
O.H. Diameter:
Casing Liner Diameter:
PBD: 4245
Total Depth:
Tubing Depth:
Tubing OD.: 2 7/8 Tubing ID.:
Casing OD.: Casing ID.:

TEST INFORMATION

Type Of Test: Static Gradient
Initial Tubing Pressure: Final Tubing Pressure: 150
Initial Casing Pressure: Final Casing Pressure: 0
Shut in Time:

GAUGE INFORMATION

Serial Number: 9545
Pressure Range: 282
Calibration Date: DEC 17/07
Gauge Started: Gauge Stopped:
On Bottom Time: 1/19/09 @ 0755 HRS Off Bottom Time: 1/22/09 @ 0856 HRS
Run Depth Bottom (KB): 4089

REMARKS

8/11/08 - RAN TANDEM BHP GAUGES (9549, 9657) W/FW GAUGE HANGER TO 4089'-LEFT GAUGES IN TO MONITOR WELL.
1/22/09 - RAN 2" JDC W/B PROBE TO 4089' THREE TIMES-RECOVERED GAUGE HANGER AND TANDEM BHP GAUGES-POOH MAKING GRADIENT STOPS FROM 4089'.

GRADIENT SUMMARY

Oil Company: XTO ENERGY, INC.

Well Location: T27N, R10W, SEC. 6

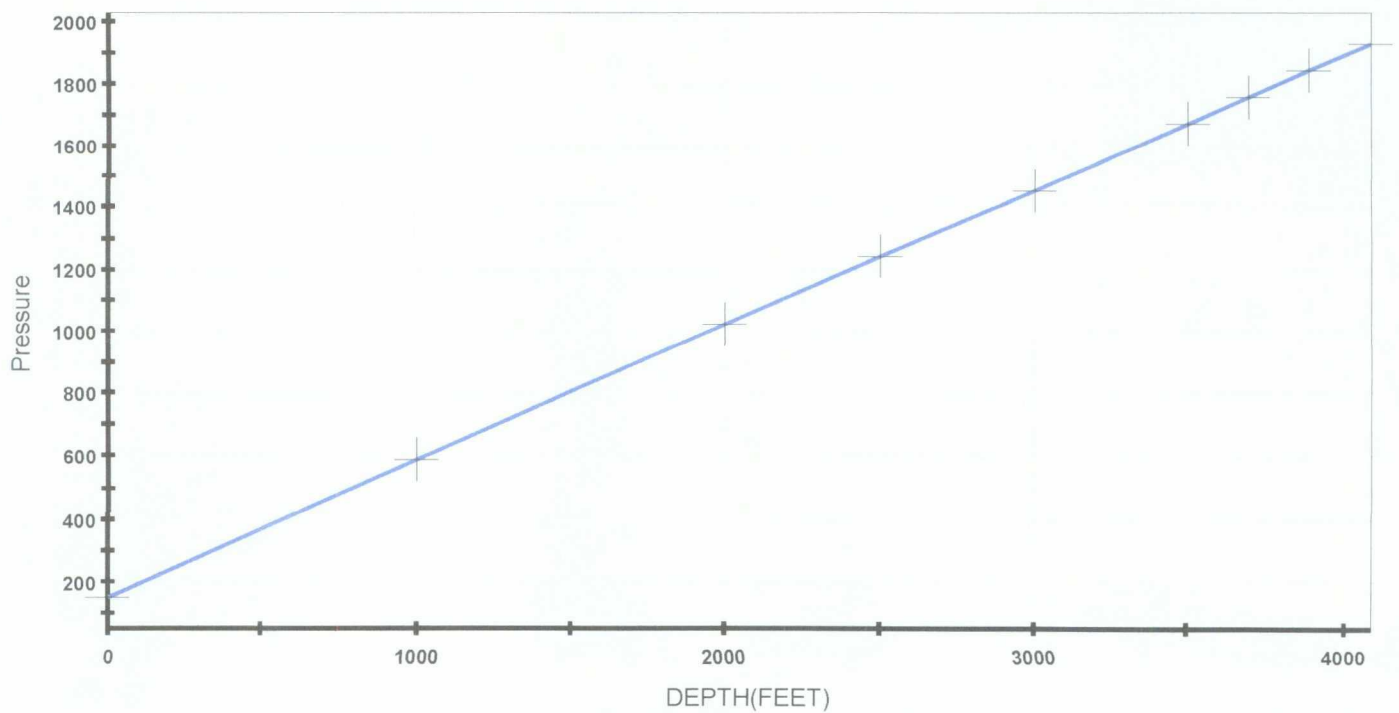
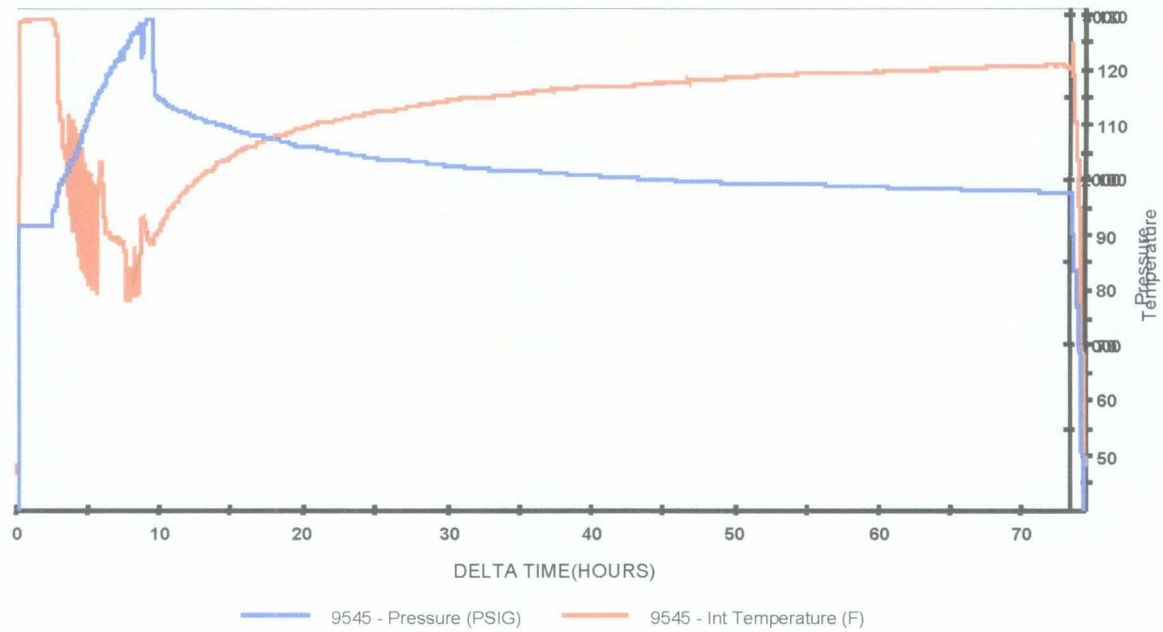
#	Real Time	Depth	Stop Time	Temp.(DEG.F)	Pres.(PSIG)	Gradient
1	01/22/2009 09:47:40	0.0	0943 - 0948	50.844	150.6	0.000
2	01/22/2009 09:39:30	1000.0	0935 - 0940	73.348	585.4	0.435
3	01/22/2009 09:32:30	2000.0	0928 - 0932	95.439	1019.9	0.434
4	01/22/2009 09:25:30	2500.0	0921 - 0926	103.886	1236.7	0.434
5	01/22/2009 09:19:30	3000.0	0915 - 0920	110.399	1454.4	0.435
6	01/22/2009 09:13:30	3500.0	0909 - 0914	118.343	1672.0	0.435
7	01/22/2009 09:07:30	3689.0	0903 - 0908	122.393	1753.7	0.432
8	01/22/2009 09:01:30	3889.0	0857 - 0902	125.201	1840.6	0.435
9	01/22/2009 08:55:50	4089.0	- 0856	120.411	1926.0	0.427

FLUID LEVEL IS AT N/A

Gradient Plots

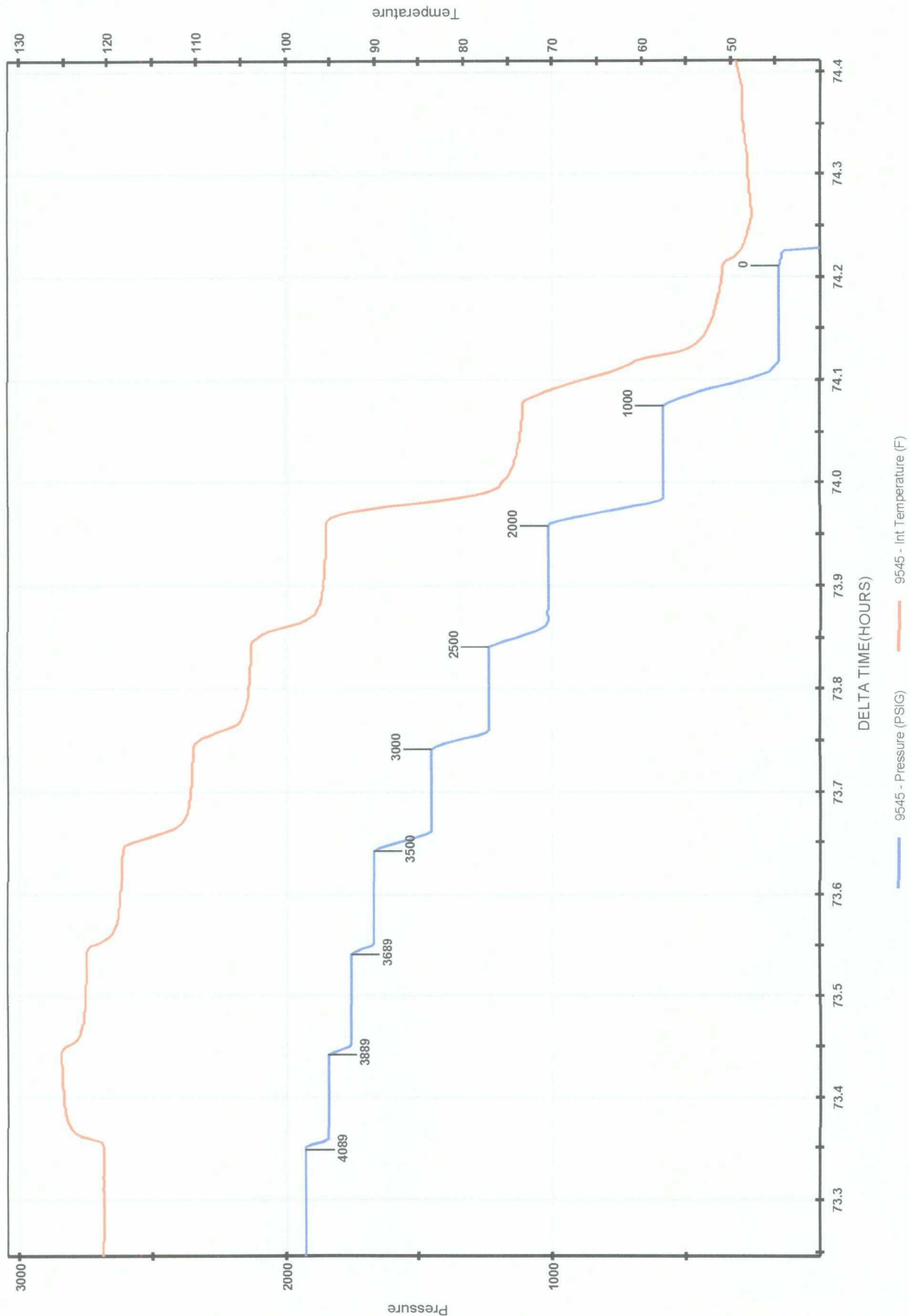
Oil Company: XTO ENERGY, INC.

Well Location: T27N, R10W, SEC. 6



PRESSURE VS DEPTH

Company: XTO ENERGY, INC.
Location: Kutz Federal SWD #1 Gradient
Date: January 22, 2009
Serial# 9545
Max. Temperature: 129.273



COMMENT SUMMARY

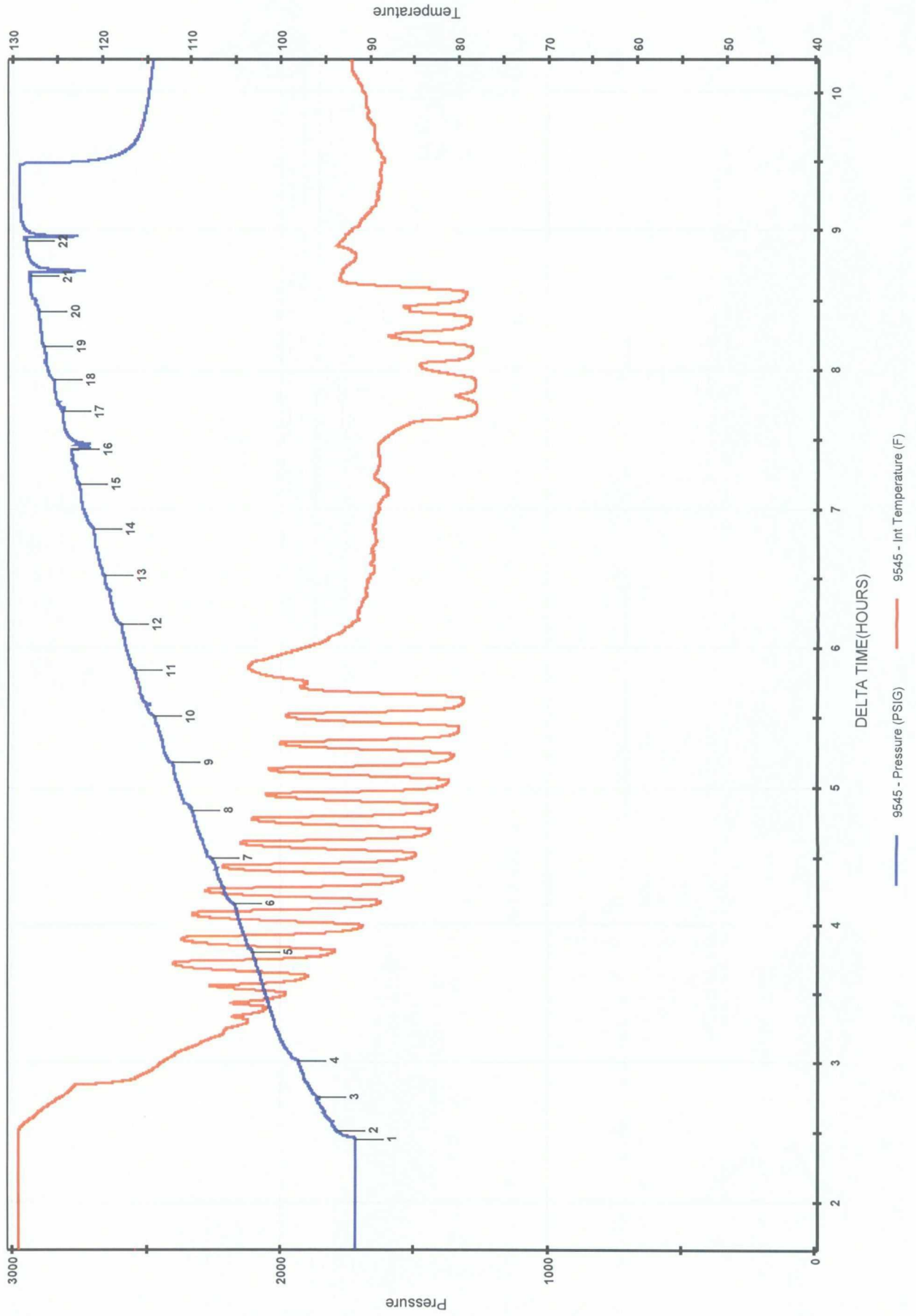
Oil Company: XTO ENERGY, INC.
Date of Test: January 19, 2009

Well Location: Kutz Federal SWD #1 Inj Test
Serial#: 9545

#	Real Time	Comment	Pres.(PSIG)	Temp.(DEG.F)
1	01/19/2009 10:02:00	.75 BPM	1715.80	129.204
2	01/19/2009 10:05:24	1.0 BPM	1784.10	129.216
3	01/19/2009 10:20:16	1.25 BPM	1860.55	124.414
4	01/19/2009 10:35:42	1.5 BPM	1932.98	112.917
5	01/19/2009 11:23:24	1.75 BPM	2101.94	93.926
6	01/19/2009 11:44:36	2.0 BPM	2170.99	89.167
7	01/19/2009 12:04:44	2.25 BPM	2256.25	85.547
8	01/19/2009 12:25:26	2.5 BPM	2328.60	82.807
9	01/19/2009 12:45:40	2.75 BPM	2405.88	82.811
10	01/19/2009 13:05:20	3.0 BPM	2469.12	99.180
11	01/19/2009 13:25:16	3.25 BPM	2543.54	103.165
12	01/19/2009 13:45:22	3.5 BPM	2594.94	91.875
13	01/19/2009 14:06:20	3.75 BPM	2657.48	89.910
14	01/19/2009 14:26:22	4.0 BPM	2696.82	89.482
15	01/19/2009 14:45:28	4.25 BPM	2751.91	88.331
16	01/19/2009 15:00:38	4.5 BPM	2781.81	88.947
17	01/19/2009 15:16:38	4.75 BPM	2814.25	78.092
18	01/19/2009 15:30:38	5.0 BPM	2845.64	78.141
19	01/19/2009 15:45:22	5.25 BPM	2883.00	78.960
20	01/19/2009 16:00:30	5.5 BPM	2901.65	85.439
21	01/19/2009 16:15:24	5.75 BPM	2935.05	93.237
22	01/19/2009 16:30:32	6.0 BPM	2946.00	93.084

PRESSURE AND TEMPERATURE VS DELTA TIME

Company: XTO ENERGY, INC.
Location: Kutz Federal SWD #1 Inj Test
Date: January 19, 2009
Serial# 9545
Max. Pressure: 2977.639 Max. Temperature: 129.273



PRESSURE AND TEMPERATURE VS DELTA TIME

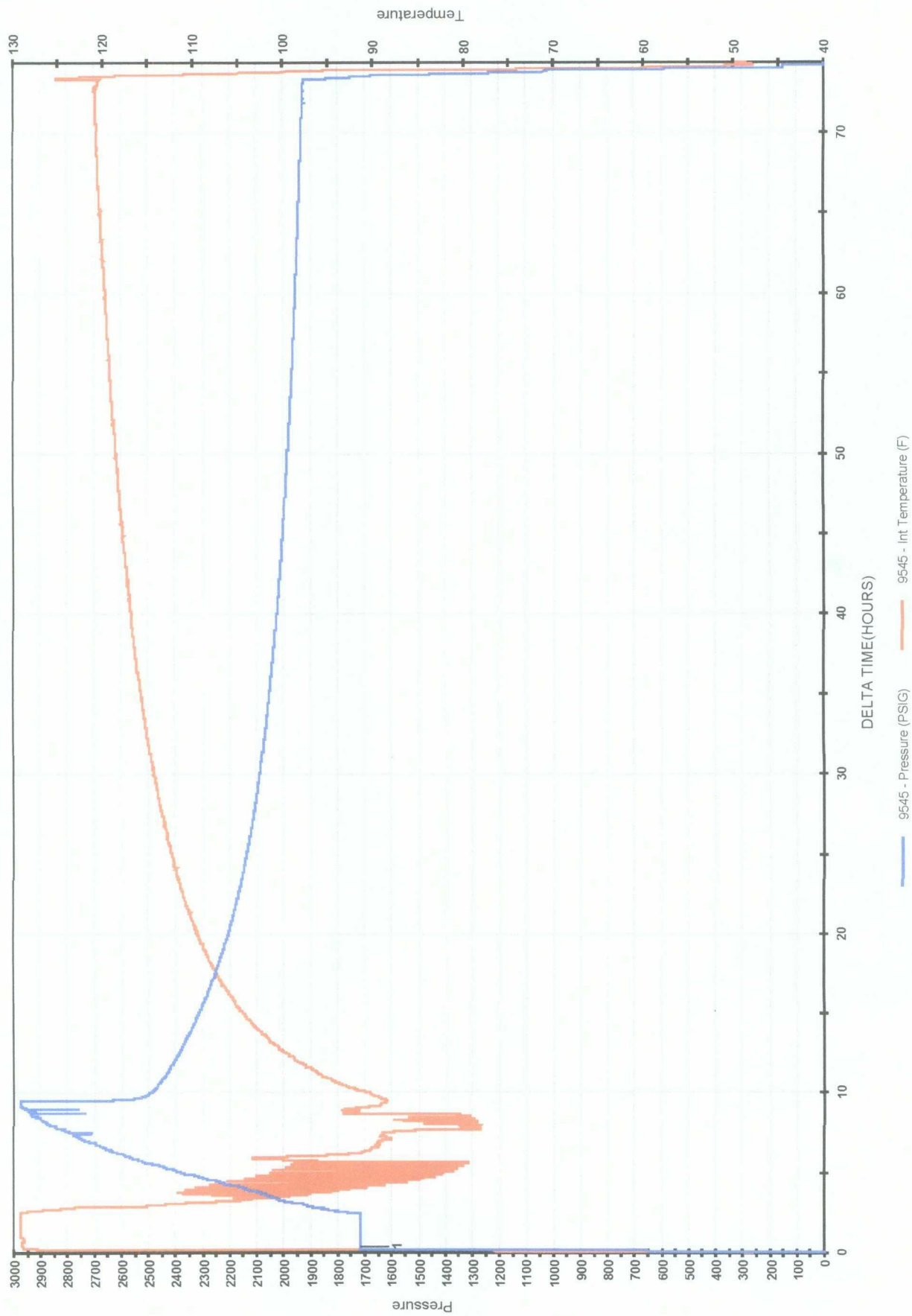
Company: XTO ENERGY, INC.

Location: Kutz Federal SWD #1

Date: January 19-22, 2009

Serial# 9545

Max. Pressure: 2977.639 Max. Temperature: 129.273



**XTO ENERGY INC EBUSINESS
KUTZ FED SWD #1
POINT LOOKOUT**

30-045-343170

6-27N-10W
San Juan County, New Mexico

Sales Order: 6432679

Post Job Report

For: Daniel Carney
Date: Monday, January 19, 2009

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

Table of Contents

1.0	Executive Summary	3
2.0	Well Information.....	4
2.1	Customer Information	4
2.2	Pipe Information.....	4
2.3	Perforation Intervals	4
2.4	Initial Fluid Position Pressures.....	5
3.0	Pumping Schedule.....	6
3.1	Designed Pumping Schedule.....	6
3.2	Designed Pumping Schedule (continued).....	8
4.0	Actual Stage Summary.....	10
4.1	Stage Summary	10
4.2	Bottom Hole Stage Summary	12
5.0	Performance Highlights	13
5.1	Job Summary.....	13
5.2	Job Stage Log.....	14
5.3	Job Event Log.....	16
5.4	ISIP.....	19
6.0	Attachments	20
6.1	Job Summary.....	20
6.2	Pressure Test	21
6.3	Shut In	22

1.0 EXECUTIVE SUMMARY

Daniel Carney
XTO ENERGY INC EBUSINESS
DO NOT MAIL - 382 ROAD 3100
AZTEC , NM 87410

Dear Daniel Carney,

Halliburton appreciates the opportunity to perform the stimulation treatment on the KUTZ FED SWD 1. A pre-job safety meeting was held where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined. Pump time was 420.07 min.

The proposed treatment for XTO Kutz Fed SWD_Recalc1.1 consisted of:

- 3075.84 bbl of Treated Water.

The treatment actually pumped consisted of:

- 1384.69 bbl of Treated Water.

The average BH treating rate was 3.2 bpm and average WH pressure was 1048 psi.
The total liquid load to recover is 1384.69 bbl.

Halliburton is strongly committed to quality control on location. Before and after each job all chemicals, proppants, and fluid volumes are measured to assure the highest level of quality control. Tank fluid analysis, crosslink time, and break tests are performed before each job in order to optimize the performance of the treatment fluids.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

Jay Davis

2.0 WELL INFORMATION

2.1 Customer Information

Customer	XTO ENERGY INC EBUSINESS
Sales Order	6432679
Well Name	KUTZ FED SWD
Interval	1
Well Number	1
Start Time	19-Jan-09 08:05:47
County	San Juan
State	New Mexico
UWI/API	30-045-34317
Country	United States of America
H2S Present	No
CO2 Present	No
Customer Representative	Daniel Carney
Halliburton Representative	Jay Davis

2.2 Pipe Information

Equipment	Top MD ft	Bottom MD ft	OD in	ID in	Grade	Weight lb/ft
Tubing	0.0	4139.0	2.875	2.441	N-80	6.50
Casing	0.0	4240.0	7.000	6.366	J-55	23.00
Surface Pipe	0.0	10.0	2.620	1.870		

2.3 Perforation Intervals

Top MD ft	Bottom MD ft	Number of Shots	Perf Density spf	Perf Orientation °	Perf Diameter in	Perf Formation
4048.0	4105.0	122	2.1	0	0.450	Perforation Interval

2.0 WELL INFORMATION

2.1 Customer Information

Customer	XTO ENERGY INC EBUSINESS
Sales Order	6432679
Well Name	KUTZ FED SWD
Interval	1
Well Number	1
Start Time	19-Jan-09 08:05:47
County	San Juan
State	New Mexico
UWI/API	30-045-34317
Country	United States of America
H2S Present	No
CO2 Present	No
Customer Representative	Daniel Carney
Halliburton Representative	Jay Davis

2.2 Pipe Information

Equipment	Top MD ft	Bottom MD ft	OD in	ID in	Grade	Weight lb/ft
Tubing	0.0	4139.0	2.875	2.441	N-80	6.50
Casing	0.0	4240.0	7.000	6.366	J-55	23.00
Surface Pipe	0.0	10.0	2.620	1.870		

2.3 Perforation Intervals

Top MD ft	Bottom MD ft	Number of Shots	Perf Density spf	Perf Orientation °	Perf Diameter in	Perf Formation
4048.0	4105.0	122	2.1	0	0.450	Perforation Interval

2.4 Initial Fluid Position Pressures

Expected Bottom Hole Pressure	1975.000	psi
Reservoir Pressure	1812.314	psi
Closed-In WHP	14.696	psi
Fluid Free to Flow into Formation	Yes	
Surface Lines Full	No	
Fluid in Tubing	Brine	
Top of Fluid Depth	0.0	ft

3.0 PUMPING SCHEDULE

3.1 Designed Pumping Schedule

Stage Number	Description	Flow Path	Fluid System	Clean Volume bbl	Slurry Volume bbl	Rate Stage Start bpm	Rate Stage End bpm
1	Load Well	In	Treated Water	11.90	12.31	0.7	0.7
2	Pump-In	In	Treated Water	11.26	11.65	0.7	0.7
3	Pump-In	In	Treated Water	15.00	15.68	1.0	1.0
4	Pump-In	In	Treated Water	18.76	19.83	1.2	1.2
5	Pump-In	In	Treated Water	22.50	24.04	1.5	1.5
6	Pump-In	In	Treated Water	26.26	28.36	1.7	1.7
7	Pump-In	In	Treated Water	30.00	32.74	2.0	2.0
8	Pump-In	In	Treated Water	33.76	37.23	2.2	2.2
9	Pump-In	In	Treated Water	37.50	41.77	2.5	2.5
10	Pump-In	In	Treated Water	41.26	46.44	2.7	2.7
11	Pump-In	In	Treated Water	45.00	51.16	3.0	3.0
12	Pump-In	In	Treated Water	48.76	55.99	3.2	3.2
13	Pump-In	In	Treated Water	52.50	60.88	3.5	3.5
14	Pump-In	In	Treated Water	56.26	65.88	3.7	3.7
15	Pump-In	In	Treated Water	60.00	70.94	4.0	4.0
16	Pump-In	In	Treated Water	63.76	76.12	4.2	4.2
17	Pump-In	In	Treated Water	67.50	81.35	4.5	4.5
18	Pump-In	In	Treated Water	71.26	86.70	4.7	4.7
19	Pump-In	In	Treated Water	75.00	92.10	5.0	5.0
20	Pump-In	In	Treated Water	78.76	97.62	5.2	5.2
21	Pump-In	In	Treated Water	82.50	103.19	5.5	5.5
22	Pump-In	In	Treated Water	86.26	108.88	5.7	5.7
23	Pump-In	In	Treated Water	90.00	114.62	6.0	6.0
24	Pump-In	In	Treated Water	93.76	120.48	6.2	6.2
25	Pump-In	In	Treated Water	97.50	126.40	6.5	6.5
26	Pump-In	In	Treated Water	101.26	132.43	6.7	6.7
27	Pump-In	In	Treated Water	105.00	138.52	7.0	7.0
28	Pump-In	In	Treated Water	108.76	144.72	7.2	7.2
29	Pump-In	In	Treated Water	112.50	150.97	7.5	7.5
30	Pump-In	In	Treated Water	116.26	157.35	7.7	7.7
31	Pump-In	In	Treated Water	120.00	163.78	8.0	8.0
32	Pump-In	In	Treated Water	123.76	170.32	8.2	8.2
33	Pump-In	In	Treated Water	127.50	176.92	8.5	8.5

HALLBURTON

XTO ENERGY INC EBUSINESS
KUTZ FED SWD 1 Stage 1
XTO Kutz Fed SWD_Recalc1.1

Stage Number	Description	Flow Path	Fluid System	Clean Volume bbl	Slurry Volume bbl	Rate Stage Start bpm	Rate Stage End bpm
34	Pump-In	In	Treated Water	131.26	183.64	8.7	8.7
35	Pump-In	In	Treated Water	135.00	190.40	9.0	9.0
36	Pump-In	In	Treated Water	138.76	197.29	9.2	9.2
37	Pump-In	In	Treated Water	142.50	204.23	9.5	9.5
38	Pump-In	In	Treated Water	146.26	211.29	9.7	9.7
39	Pump-In	In	Treated Water	150.00	218.40	10.0	10.0
Total				3075.88	4022.61		

3.2 Designed Pumping Schedule (continued)

Stage Number	Description	Stage Time min
1	Load Well	16.42
2	Pump-In	15.53
3	Pump-In	15.68
4	Pump-In	15.87
5	Pump-In	16.03
6	Pump-In	16.20
7	Pump-In	16.37
8	Pump-In	16.54
9	Pump-In	16.71
10	Pump-In	16.89
11	Pump-In	17.05
12	Pump-In	17.23
13	Pump-In	17.39
14	Pump-In	17.57
15	Pump-In	17.74
16	Pump-In	17.91
17	Pump-In	18.08
18	Pump-In	18.25
19	Pump-In	18.42
20	Pump-In	18.59
21	Pump-In	18.76
22	Pump-In	18.94
23	Pump-In	19.10
24	Pump-In	19.28
25	Pump-In	19.45
26	Pump-In	19.62
27	Pump-In	19.79
28	Pump-In	19.96
29	Pump-In	20.13
30	Pump-In	20.30
31	Pump-In	20.47
32	Pump-In	20.64
33	Pump-In	20.81
34	Pump-In	20.99
35	Pump-In	21.16
36	Pump-In	21.33
37	Pump-In	21.50
38	Pump-In	21.67
39	Pump-In	21.84

HALLIBURTON

XTO ENERGY INC EBUSINESS
KUTZ FED SWD 1 Stage 1
XTO Kutz Fed SWD_Recalc1.1

Stage Number	Description	Stage Time min
Total		726.20

HALLIBURTON

XTO ENERGY INC EBUSINESS
KUTZ FED SWD I Stage I
XTO Kutz Fed SWD_Recalc1.1

4.0 ACTUAL STAGE SUMMARY

4.1 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 bbl
1	10:02:01	35	18	1.8	1.1	1.1	3.61
2	10:05:25	113	75	1.1	1.0	1.0	14.71
3	10:20:17	199	166	1.3	1.2	1.2	18.27
4	10:35:43	385	323	1.6	1.5	1.5	70.68
5	11:23:24	490	440	1.9	1.7	1.7	35.58
6	11:44:36	625	548	2.3	2.0	2.0	39.87
7	12:04:45	691	650	2.4	2.2	2.2	46.03
8	12:25:26	818	760	2.7	2.5	2.5	50.95
9	12:45:41	899	850	2.9	2.7	2.7	53.31
10	13:05:22	1003	953	3.1	3.0	3.0	59.96
11	13:25:17	1131	1045	3.5	3.2	3.2	64.63
12	13:45:23	1351	1135	4.2	3.5	3.5	72.99
13	14:06:21	1277	1225	4.1	3.7	3.7	73.38
14	14:26:23	1510	1349	4.2	4.0	4.0	75.65
15	14:45:29	1467	1396	4.3	4.1	4.1	62.82
16	15:00:40	1524	1458	4.7	4.4	4.4	69.79
17	15:16:38	1837	1574	5.6	4.7	4.7	66.10
18	15:30:39	1725	1687	5.2	5.0	5.0	74.22
19	15:45:23	1835	1752	5.5	5.2	5.2	78.91
20	16:00:30	1965	1867	5.7	5.4	5.4	81.23
21	16:15:25	2136	1951	6.1	5.6	5.6	80.88
22	16:30:33	2144	2081	6.1	5.9	5.9	191.12
Total							1384.69

HALLIBURTON

XTO ENERGY INC EBUSINESS
KUTZ FED SWD 1 Stage 1
XTO Kutz Fed SWD _Recalc1.1

Stage Number	Start Time	Clean Volume bbl	Avg HHP hp
1	10:02:01	3.61	0
2	10:05:25	14.71	2
3	10:20:17	18.27	5
4	10:35:43	70.68	12
5	11:23:24	35.58	18
6	11:44:36	39.87	27
7	12:04:45	46.03	35
8	12:25:26	50.95	47
9	12:45:41	53.31	56
10	13:05:22	59.96	70
11	13:25:17	64.63	82
12	13:45:23	72.99	97
13	14:06:21	73.38	110
14	14:26:23	75.65	131
15	14:45:29	62.82	142
16	15:00:40	69.79	156
17	15:16:38	66.10	182
18	15:30:39	74.22	208
19	15:45:23	78.91	224
20	16:00:30	81.23	249
21	16:15:25	80.88	268
22	16:30:33	191.12	302
Total		1384.69	

4.2 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	10:02:01	1926	1855	1.9	1.0
WB/SL	10:02:56	1931	1860	1.3	1.0
1	10:25:59	1943	1939	1.3	1.2
2	10:28:59	2023	1975	1.5	1.3
3	10:40:21	2063	2046	1.6	1.5
4	10:52:26	2197	2123	1.7	1.5
5	11:38:23	2278	2239	2.0	1.9
6	11:57:23	2358	2317	2.4	2.1
7	12:16:02	2439	2392	2.6	2.4
8	12:35:26	2505	2468	2.7	2.6
9	12:54:58	2591	2533	3.1	2.8
10	13:13:44	2644	2606	3.2	3.1
11	13:33:09	2764	2659	3.5	3.3
12	13:52:36	2939	2718	4.2	3.5
13	14:13:14	3008	2789	4.1	3.7
14	14:32:44	2965	2857	4.2	4.0
15	14:51:30	2988	2850	4.6	4.1
16	15:06:43	3066	2917	5.5	4.6
17	15:22:00	3034	2965	5.6	4.8
18	15:35:36	3047	3011	5.3	5.1
19	15:50:11	3223	3039	5.5	5.3
20	16:05:08	3183	3101	5.7	5.2
21	16:20:45	3264	3152	6.1	5.5
22	16:35:27	3313	3113	6.1	4.9

5.0 PERFORMANCE HIGHLIGHTS

5.1 Job Summary

Start Time	19-Jan-09 10:02:01	
End Time	19-Jan-09 17:22:10	
Time	440.15	min
Pump Time	420.07	min
Max Treating Pressure	2144	psi
Avg Treating Pressure	1048	psi
Avg Clean Rate	3.3	bpm
Clean Volume	1384.69	bbl
Max Slurry Rate	6.1	bpm
Avg Slurry Rate	3.3	bpm
Slurry Volume	1384.69	bbl
Max WH Rate	6.1	bpm
Avg WH Rate	3.3	bpm
WH Volume	1384.68	bbl
Avg HHP	85	hp
BH Max Treating Pressure	3313	psi
BH Avg Treating Pressure	2591	psi
BH Max Rate	6.1	bpm
BH Avg Rate	3.2	bpm
BH Slurry Volume	1380.69	bbl
BH Clean Volume	1380.69	bbl
Load to Recover	1384.69	bbl

5.2 Job Stage Log

Time	Description	Comment	Treating Pressure psi	Calc'd BH Pres psi	Slurry Rate bpm	Job Clean Vol bbl
19-Jan-09	Stage 1	Load Well	-5	1776	1.1	0.47
10:02:01						
10:05:25	Stage 2	Pump-In	35	1810	1.0	3.61
10:20:17	Stage 3	Pump-In	107	1884	1.0	18.33
10:35:44	Stage 4	Pump-In	199	1967	1.2	36.59
11:23:24	Stage 5	Pump-In	384	2138	1.5	107.28
11:44:36	Stage 6	Pump-In	490	2215	1.9	142.86
12:04:46	Stage 7	Pump-In	625	2316	2.3	182.73
12:25:26	Stage 8	Pump-In	691	2384	2.3	228.76
12:45:41	Stage 9	Pump-In	818	2470	2.7	279.70
13:05:22	Stage 10	Pump-In	899	2531	2.9	333.02
13:25:18	Stage 11	Pump-In	1003	2612	3.1	392.98
13:45:23	Stage 12	Pump-In	1127	2690	3.5	457.61
14:06:21	Stage 13	Pump-In	1287	2755	4.1	530.59
14:26:23	Stage 14	Pump-In	1259	2777	3.8	603.97
14:45:30	Stage 15	Pump-In	1377	2855	4.1	679.62
15:00:40	Stage 16	Pump-In	1032	2754	2.0	742.44
15:16:39	Stage 17	Pump-In	1502	2883	4.7	812.23
15:30:39	Stage 18	Pump-In	1630	2969	4.9	878.33
15:45:24	Stage 19	Pump-In	1698	3006	5.1	952.56
16:00:31	Stage 20	Pump-In	1832	3051	5.5	1031.46
16:15:25	Stage 21	Pump-In	1961	3149	5.7	1112.69
16:30:33	Stage 22	Pump-In	2087	3198	6.0	1193.57

HALLBURTON

XTO ENERGY INC EBUSINESS
KUTZ FED SWD 1 Stage 1
XTO Kutz Fed SWD_Recalc1.1

Time	Description	Comment	Job Slurry Vol bbl	Job Proppant 100*lb	Hydraulic Power hp
10:02:01	Stage 1	Load Well	0.47	0.00	0
10:05:25	Stage 2	Pump-In	3.61	0.00	1
10:20:17	Stage 3	Pump-In	18.33	0.00	3
10:35:44	Stage 4	Pump-In	36.59	0.00	6
11:23:24	Stage 5	Pump-In	107.28	0.00	14
11:44:36	Stage 6	Pump-In	142.86	0.00	23
12:04:46	Stage 7	Pump-In	182.73	0.00	36
12:25:26	Stage 8	Pump-In	228.76	0.00	39
12:45:41	Stage 9	Pump-In	279.70	0.00	54
13:05:22	Stage 10	Pump-In	333.02	0.00	64
13:25:18	Stage 11	Pump-In	392.98	0.00	76
13:45:23	Stage 12	Pump-In	457.61	0.00	96
14:06:21	Stage 13	Pump-In	530.59	0.00	130
14:26:23	Stage 14	Pump-In	603.97	0.00	117
14:45:30	Stage 15	Pump-In	679.62	0.00	137
15:00:40	Stage 16	Pump-In	742.44	0.00	50
15:16:39	Stage 17	Pump-In	812.23	0.00	171
15:30:39	Stage 18	Pump-In	878.33	0.00	195
15:45:24	Stage 19	Pump-In	952.56	0.00	210
16:00:31	Stage 20	Pump-In	1031.46	0.00	248
16:15:25	Stage 21	Pump-In	1112.69	0.00	272
16:30:33	Stage 22	Pump-In	1193.57	0.00	308

5.3 Job Event Log

Time	Description	Comment	Treating Pressure psi	Calc'd BH Pres psi	Slurry Rate bpm	Job Clean Vol bbl
19-Jan-09 09:46:26	Other	wake call 4:30am				
09:47:49	Start Job	Starting Job				
09:47:49	Next Treatment	Treatment 1				
09:50:08	Other	Had safety meeting with crew at 4:45am in yard	2933	1776	0.0	0.00
09:50:38	Other		44	1776	0.4	0.15
09:52:27	Other	Done rigging up and pressure test done by 10:00am	-2	1776	0.0	0.18
10:02:01	Stage 1	Load Well	-5	1776	1.1	0.47
10:05:25	Stage 2	Pump-In	35	1810	1.0	3.61
10:20:17	Stage 3	Pump-In	107	1884	1.0	18.33
10:35:44	Stage 4	Pump-In	199	1967	1.2	36.59
11:23:24	Stage 5	Pump-In	384	2138	1.5	107.28
11:44:36	Stage 6	Pump-In	490	2215	1.9	142.86
12:04:46	Stage 7	Pump-In	625	2316	2.3	182.73
12:25:26	Stage 8	Pump-In	691	2384	2.3	228.76
12:26:58	Other	pump shift gears	706	2385	2.5	232.39
12:45:41	Stage 9	Pump-In	818	2470	2.7	279.70
13:05:22	Stage 10	Pump-In	899	2531	2.9	333.02
13:09:22	Other	pump shift gears	958	2580	3.0	345.09
13:25:18	Stage 11	Pump-In	1003	2612	3.1	392.98
13:45:23	Stage 12	Pump-In	1127	2690	3.5	457.61
14:01:59	Other	lost a frac tank	1091	2650	3.5	515.34
14:06:21	Stage 13	Pump-In	1287	2755	4.1	530.59
14:26:23	Stage 14	Pump-In	1259	2777	3.8	603.97
14:45:30	Stage 15	Pump-In	1377	2855	4.1	679.62
15:00:40	Stage 16	Pump-In	1032	2754	2.0	742.44
15:01:31	Other	tried to bring on other pump truck	1335	2778	4.3	745.09
15:16:39	Stage 17	Pump-In	1502	2883	4.7	812.23
15:17:29	Other	rate was between gears	1804	3024	5.5	816.14
15:30:39	Stage 18	Pump-In	1630	2969	4.9	878.33
15:45:24	Stage 19	Pump-In	1698	3006	5.1	952.56
16:00:31	Stage 20	Pump-In	1832	3051	5.5	1031.46
16:04:45	Other	lost a frac tank	1802	3032	5.5	1054.33
16:15:25	Stage 21	Pump-In	1961	3149	5.7	1112.69
16:17:02	Other	pump kick out	927	2737	0.0	1118.50

Time	Description	Comment	Treating Pressure psi	Calc'd BH Pres psi	Slurry Rate bpm	Job Clean Vol bbl
16:30:33	Stage 22	Pump-In	2087	3198	6.0	1193.57
16:31:58	Other		983	2793	0.0	1199.01
17:03:32	ISIP		1083	2893	0.0	1384.69
17:08:33	Shut-In Pressure @ 5 Minutes		767	2575	0.0	1384.69
17:10:00	Post-Job Safety Meeting (Pre Rig- Down)		747	2555	0.0	1384.69
17:13:33	Shut-In Pressure @ 10 Minutes		720	2528	0.0	1384.69
17:18:33	Shut-In Pressure @ 15 Minutes		701	2509	0.0	1384.69
17:20:00	Rig-Down Equipment		696	2504	0.0	1384.69
17:22:10	End Job	Ending Job	-22	1804	0.0	1384.69
18:00:00	Depart Location Safety Meeting		-22	1804	0.0	1384.69
18:05:00	Depart Location for Service Center or Other Site		-22	1804	0.0	1384.69

HALLBURTON

XTO ENERGY INC EBUSINESS
KUTZ FED SWD 1 Stage 1
XTO Kutz Fed SWD_Recalc1.1

Time	Description	Comment	Job Slurry Vol bbl	Job Proppant 100*lb	Hydraulic Power hp
09:46:26	Other	wake call 4:30am			
09:47:49	Start Job	Starting Job			
09:47:49	Next Treatment	Treatment 1			
09:50:08	Other	Had safety meeting with crew at 4:45am in yard	0.00	0.00	0
09:50:38	Other	arrived on location at 6:45am	0.15	0.00	0
09:52:27	Other	Done rigging up and pressure test done by 10:00am	0.18	0.00	0
10:02:01	Stage 1	Load Well	0.47	0.00	0
10:05:25	Stage 2	Pump-In	3.61	0.00	1
10:20:17	Stage 3	Pump-In	18.33	0.00	3
10:35:44	Stage 4	Pump-In	36.59	0.00	6
11:23:24	Stage 5	Pump-In	107.28	0.00	14
11:44:36	Stage 6	Pump-In	142.86	0.00	23
12:04:46	Stage 7	Pump-In	182.73	0.00	36
12:25:26	Stage 8	Pump-In	228.76	0.00	39
12:26:58	Other	pump shift gears	232.39	0.00	42
12:45:41	Stage 9	Pump-In	279.70	0.00	54
13:05:22	Stage 10	Pump-In	333.02	0.00	64
13:09:22	Other	pump shift gears	345.09	0.00	70
13:25:18	Stage 11	Pump-In	392.98	0.00	76
13:45:23	Stage 12	Pump-In	457.61	0.00	96
14:01:59	Other	lost a frac tank	515.34	0.00	93
14:06:21	Stage 13	Pump-In	530.59	0.00	130
14:26:23	Stage 14	Pump-In	603.97	0.00	117
14:45:30	Stage 15	Pump-In	679.62	0.00	137
15:00:40	Stage 16	Pump-In	742.44	0.00	50
15:01:31	Other	tried to bring on other pump truck	745.09	0.00	140
15:16:39	Stage 17	Pump-In	812.23	0.00	171
15:17:29	Other	rate was between gears	816.14	0.00	244
15:30:39	Stage 18	Pump-In	878.33	0.00	195
15:45:24	Stage 19	Pump-In	952.56	0.00	210
16:00:31	Stage 20	Pump-In	1031.46	0.00	248
16:04:45	Other	lost a frac tank	1054.33	0.00	241
16:15:25	Stage 21	Pump-In	1112.69	0.00	272
16:17:02	Other	pump kick out	1118.50	0.00	0
16:30:33	Stage 22	Pump-In	1193.57	0.00	308

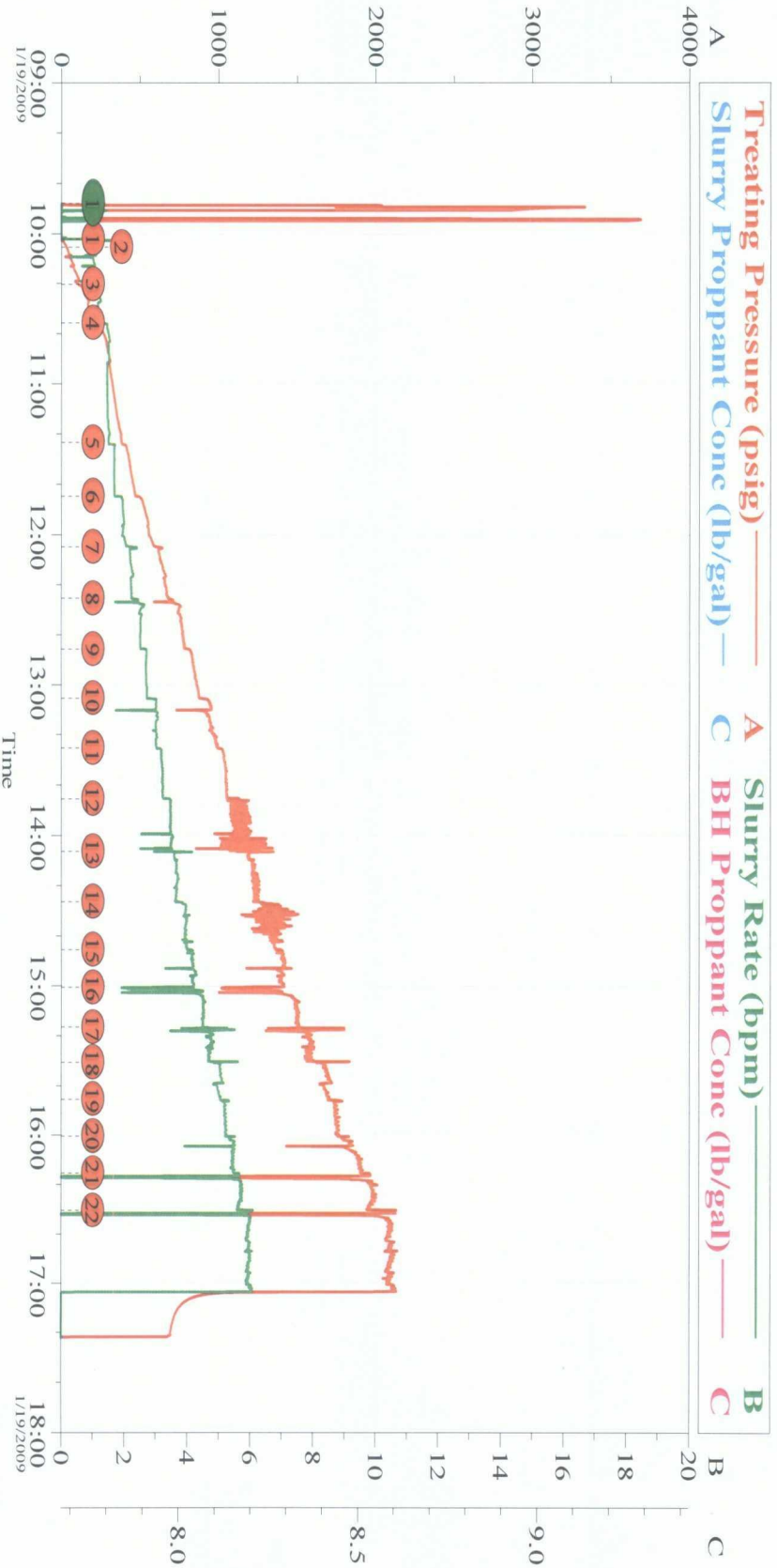
Time	Description	Comment	Job Slurry Vol bbl	Job Proppant 100*lb	Hydraulic Power hp
16:31:58	Other		1199.01	0.00	0
17:03:32	ISIP		1384.69	0.00	1
17:08:33	Shut-In Pressure @ 5 Minutes		1384.69	0.00	0
17:10:00	Post-Job Safety Meeting (Pre Rig- Down)		1384.69	0.00	0
17:13:33	Shut-In Pressure @ 10 Minutes		1384.69	0.00	0
17:18:33	Shut-In Pressure @ 15 Minutes		1384.69	0.00	0
17:20:00	Rig-Down Equipment		1384.69	0.00	0
17:22:10	End Job	Ending Job	1384.69	0.00	0
18:00:00	Depart Location Safety Meeting		1384.69	0.00	0
18:05:00	Depart Location for Service Center or Other Site		1384.69	0.00	0

5.4 ISIP

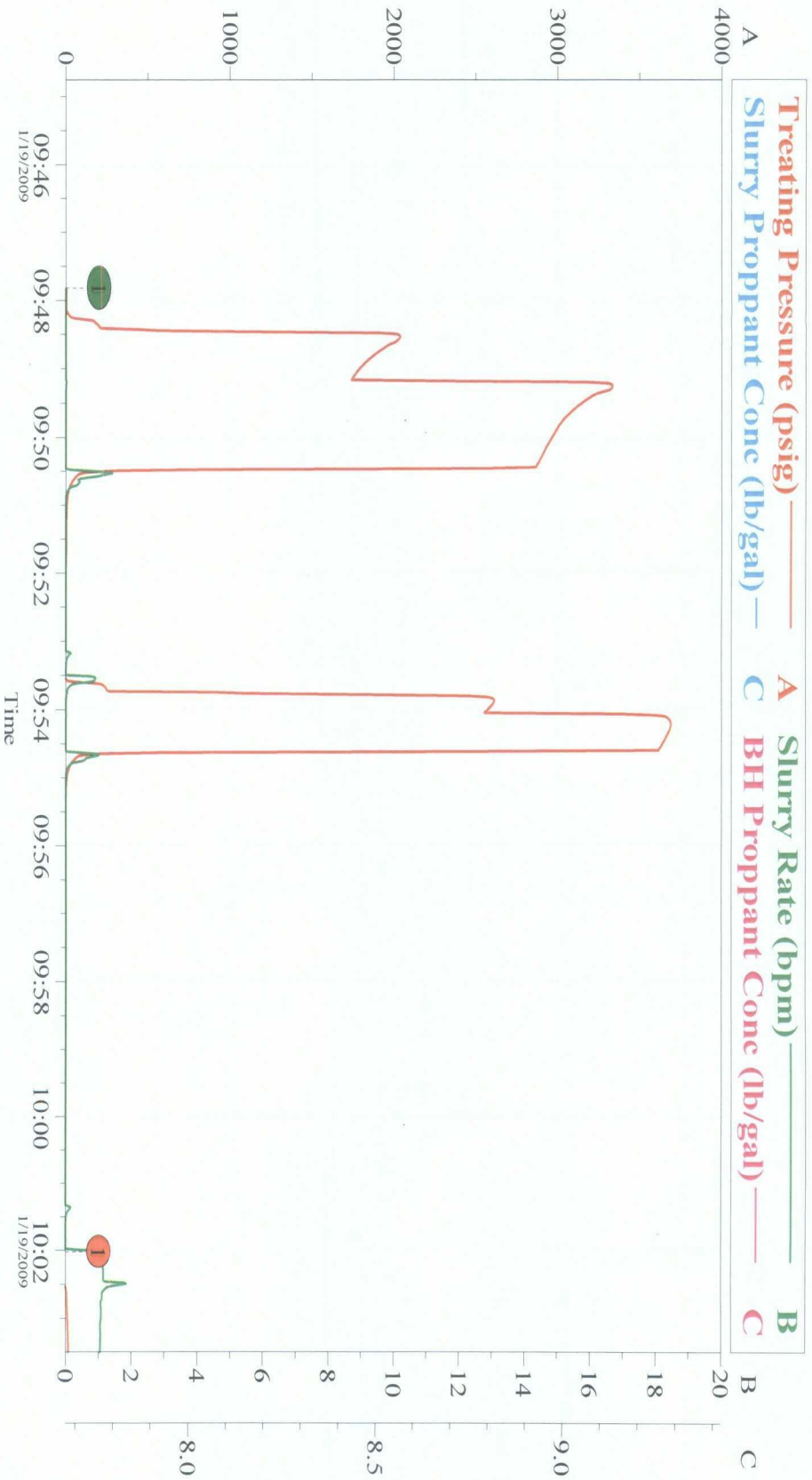
Time	Description	Treating Pressure psi
17:03:32	ISIP	1083
17:08:33	Shut-In Pressure @ 5 Minutes	767
17:13:33	Shut-In Pressure @ 10 Minutes	720
17:18:33	Shut-In Pressure @ 15 Minutes	701

6.0 ATTACHMENTS

6.1 Job Summary



6.2 Pressure Test



6.3 Shut In

