

UIC - 1 - 5

**EPA FALL-OFF
TEST**

DATE:

2018

Sunco SWD #1
30-045-28653
Class I Disposal: UICI-5-0
2018 Falloff Test

Agua Moss, LLC
P.O Box 600
Farmington, NM 87499
ORGID 247130

Report Components:

1. Facility Operator Information
 - a. Agua Moss, LLC
 - b. PO Box 600 Farmington, NM 87499
 - c. OGRID 247130
2. Well Information:
 - a. UIC Permit # UICI-5-0
 - b. Class I
 - c. Sunco Disposal #1
 - d. 30-045-28653
 - e. UL E, Sec 2, T29N, R12W 1595 FNL & 1005 FWL San Juan County
3. Current Wellbore Diagram: **Attached** (page 4)
4. Copy of Electronic Log: **Previously submitted 1992** (page 5)
5. Copy of Porosity Log: **Previously submitted 1992** (page 6)
6. See attached Fall off Test analysis
 - a. FOT Procedure (page 8)
 - b. Analysis (page 8)
 - c. Results (page 23)
 - d. Summary (page 11)
7. Results Comparison attached (page 23)
8. The raw test data will be kept on file for a period of 3-year and will be made available to the NMOCD upon written request. (page 24)
9. Conclusions (page 24)
10. Any pressure or temperature anomaly: **None seen on BH readings.** As seen in Figures 4 & 5 the change in rate and surface pressure are not significant and quickly stabilize. The results, Table 1, and IRT analysis confirm that the injection rate attained a pseudo-steady state, therefore the slight variation did not affect the integrity of the results.
11. Plots attached
 - a. Pressure and Rate (fig 3) (page 25)
 - b. Injection Rate vs Time (fig 4) (page 26)
 - c. Pressure and Rate (fig 5) (page 27)
 - d. Elapsed Time (fig 2) (page 9)
 - e. Derivative Plot (fig 6) (page 28)
 - f. Horner Plot (fig 7) (page 29)
 - g. Elapsed Gauge Time (fig 8) (page 30)
 - h. Injection Volumes and Surface Pressure (fig 9) (page 31)
12. NO PVT data necessary, injected fluid is fresh-to-slightly saline water. No significant hydrocarbons present that would alter the density, compressibility and/or viscosity of the fluid.
13. The Agua Moss, LLC internal Daily Injection Reports were used to determine the appropriate injection history to use for the analysis. A summary of those reports (January 2018 through September 2018) are attached. (page 32-34)

14. The Sunco Disposal #1 has injected approximately 16,289,634 bbls into the point lookout formation from 1994 through November 2018 (see attached). The offset well McGrath SWD #4 API 30-045-25923 was plugged 7/25/2013. Cumulative injection 1994-7/2013 27,746,479 bbls.
15. 1 Mile AOR:
 - a. AOR 1 mile (page 35)
 - b. AOR 1 mile well data (page 36)
 - c. The McGrath #4 was the only offset well that was injecting into the Point Lookout formation within 1 mile. This well was plugged 7/25/2013.
16. Geological information was provided in the last Permit renewal submitted and approved in 2012.
17. Offset Wells: One offset well that was completed in the same injection interval was the McGrath #4. This well was plugged 7/2013 and therefore was not impacted.
18. Chronological listing of the daily, testing activities (operations log) attached (pages 42-56)
 - a. Date of Test: **Tuesday October 2nd , 2018 through Thursday October 11th , 2018**
 - b. Time of the injection period: **50.58 hours**
 - c. Type of injection fluid: **Produced water**
 - d. Final injection pressure & temp prior to shutting in in the well: **3989.86 psi, 77.29 °F**
 - e. Total shut-in time: **140.33 hours**
 - f. Final static pressure & temp at the end of the fall-off portion of the test: **3326 psi, 93.4 °F**
19. Location of the shut in valve: **A wing valve located on the well's Christmas Tree was closed to begin the FOT.**
20. Pressure Gauges: (see attached)
 - a. SP-2000 Memory Pressure Gauge (page 57)
 - b. Pressure range: **0-5000 psig** (page 41)
 - c. Last Calibration: **2/23/18** (page 58)

Wellbore Schematic:

Agua Moss, LLC

Wellbore Schematic

Sunco No. 1, SWD

Current Wellbore Configuration

Location: 1595' fml & 1005' fwl
 Sec 2, T29N, R12W
 San Juan Co, New Mexico
 December 19th, 2018 RD

Elevation: 5,859' GL
 5,872' RKB
 By: J. Ryan Davis

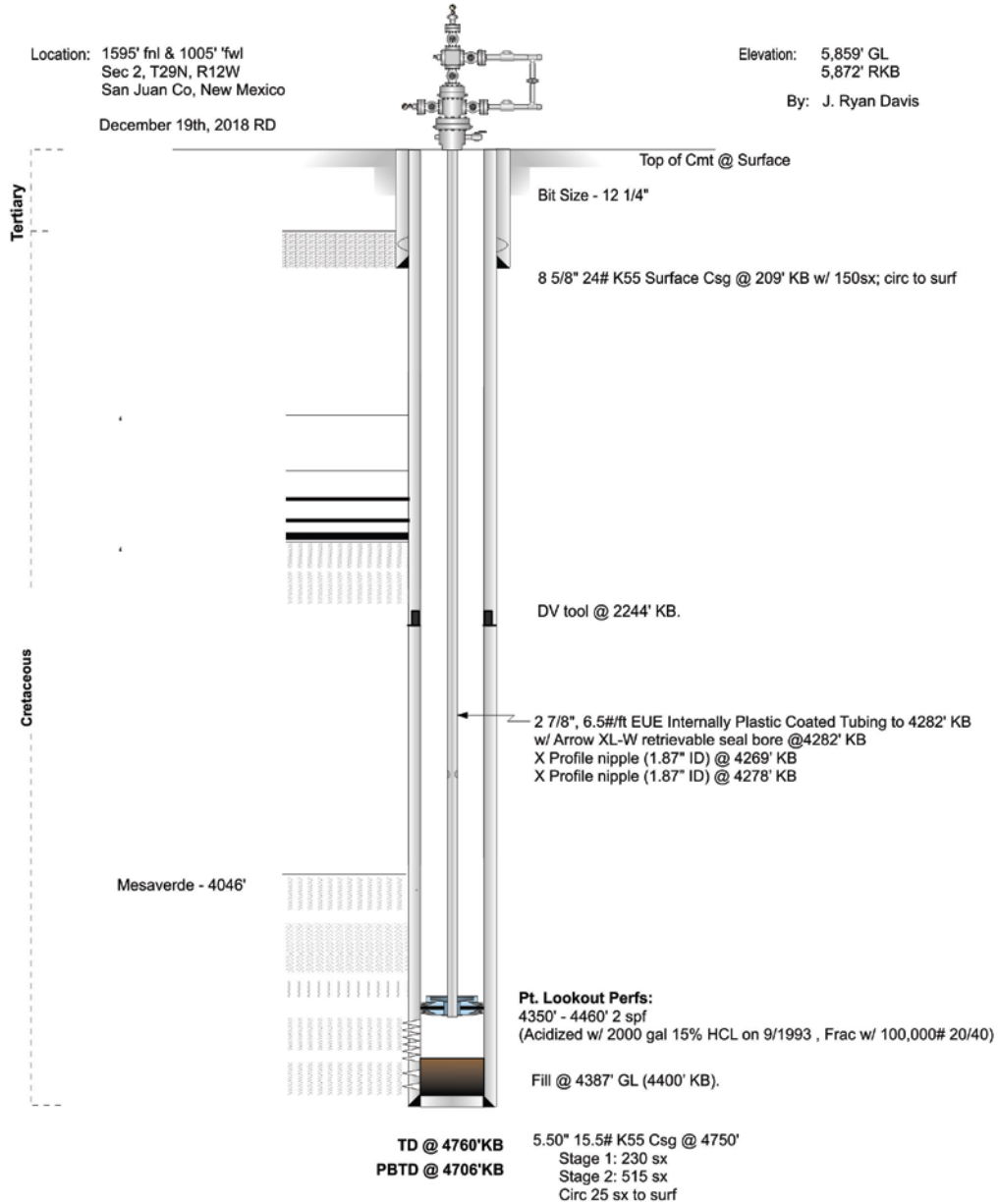


Figure 1: Wellbore Schematic

At the request of the NMOCD and permit requirements, a Falloff Test (FOT) was performed on the Sunco SWD #1 Class I injection well (UICI-5-0) on **10/02/2018**. The test was delayed due to well repairs performed. Below is a summary of findings from the FOT.

Procedure:

Tandem electronic gauges were run in the subject well. The initial BHP was 3167 psi at a depth of 4362'. The injection period started at 9:25 am on 10/03/2018, with a total of 6945 bbls injected over 50 hours, and an average injection rate of 3292 bpd (96 gpm). The final bottom hole injection pressure was 3989 psi. Injection was shut down and the well was shut in at the wellhead. The bottom hole pressures were monitored for 140 hours of pressure falloff. The final BHP was 3326 psi.

Analysis:

The FOT data was compiled in excel and analyzed. The data was also given to a third party consultant for further analysis and confirmation of results, the analysis is found on pages 8 -20.

A Cartesian plot of pressure and temperature versus elapsed time is presented in Figure 2 below. The stabilization of pressure was confirmed prior to shut-in. The plot was reviewed for anomalous data and none was found.

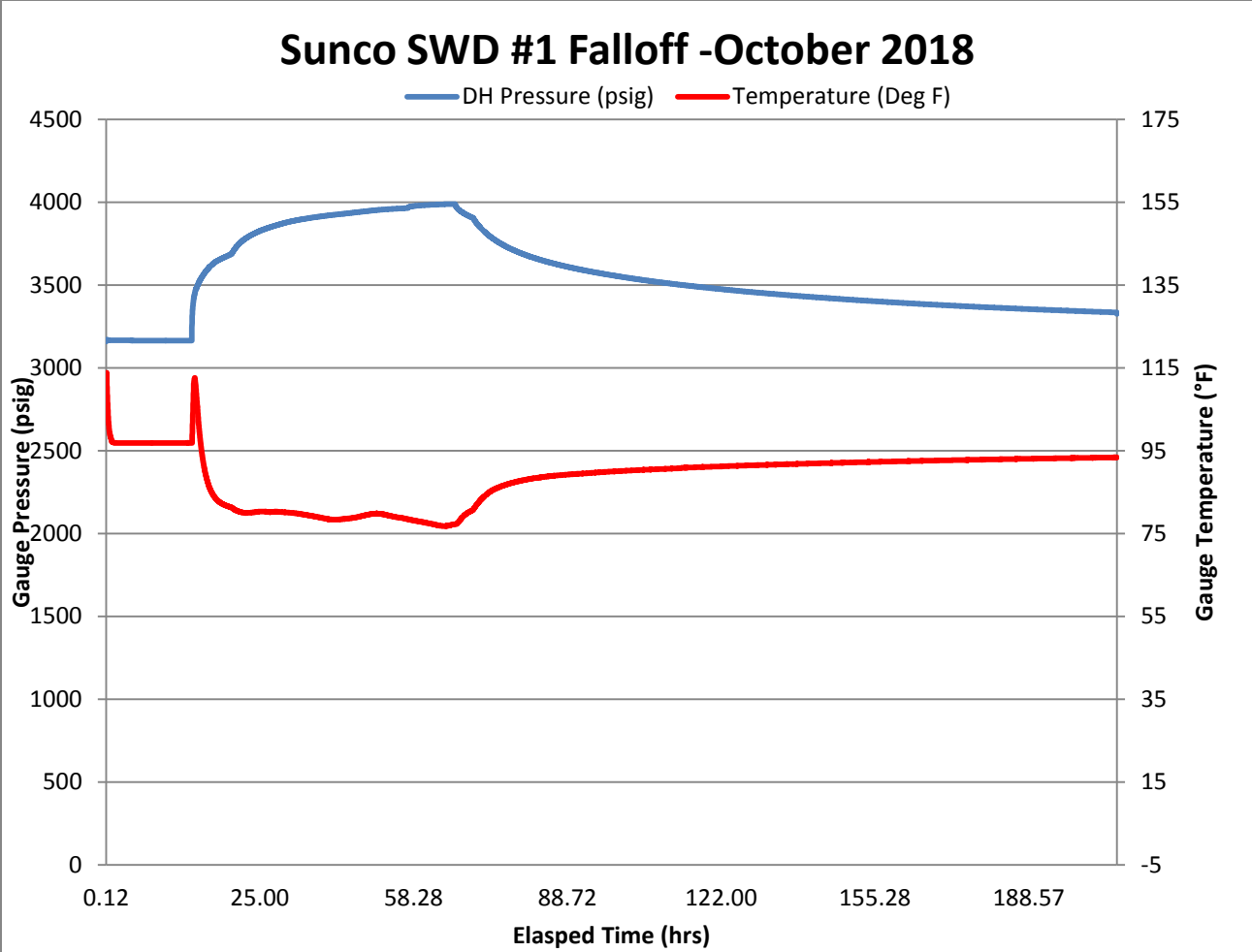


Figure 2 Pressure and Temp vs. Time

IRT Analysis:

Results:

The results from the Horner, MDH, and Derivative pressure plots are summarized in the Table 1 below. The results for the different methods were consistent and the average calculated properties were:

1. $P^* = 33479$ psi
2. $K = 10.8$ md
3. $S = -6.0$
4. Radius of Investigation = 1690 feet
5. No indication of boundary

Table 1 Calculated Reservoir Properties

Calculated Reservoir Parameters				
	Type Curve Analysis	MDH Plot	Derivative Plot	Average
Estimated Kw (permeability, mD)	9.6	10.8	11.9	10.8
Estimated skin (dimensionless)	-5.9	-5.6	-6.4	-6.0
Extrapolated pressure (psig)	--	3,479	--	3,479
Fracture half-length (feet)	--	--	598	598
Radius of investigation (feet)	--	1,690	--	1,690

The Falloff test this year was conducted with fill over a portion of the perforations. The results indicate that the partial penetration condition did have an effect on the test analysis. The use of three different analysis methods did produce reasonable and satisfactory results. See the IRT analysis for more details.

Comparison with past Falloff Tests:

The results from the 2018 FOT were compiled with previous FOT results from the facility and are shown below in Table 2.

Table 2: Results Comparison

	2018	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2010</u>	<u>2009</u>	<u>2008</u>	<u>2007</u>
Rate (bbl/day)	3292	3150	3132	3340	4500			
P^* (psi)	3479	3273	3114	3283	3231	3242	3176	3258
K (md)	10.8	10.4	11.5	15.8	13.6	10.2	20.7	
S	-6.0	-6.0	-5.93	-5.97	-7.18	-7.23	-6.79	
Radius of Inv (ft)	1690	1790	1430	1580	1450	1250	1750	1620
Frac ½ Length (ft)	598	517	594	467	893	926	596	688
Boundary	None	none	none	none	648, 1520	755	987	none

Agua Moss did not conduct tests prior to 2015 and is relying on the 2010 report submitted by Key Energy, the past operator, for those results. The following observations were derived from a comparison of the results:

1. The radius of investigation for 2018 was adequate enough to see out beyond all of the previously seen boundaries.
Note: *On 2010 results seems peculiar to have a boundary beyond the Radius of Investigation.*
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The raw test data obtain during the 2018 falloff test will be kept on file for a period of three (3) years and will be available upon request.

Conclusions:

Based on the above analysis and results comparison, Agua Moss believes the Sunco SWD #1 2018 FOT was successfully completed. The results do not show indications of concern in continuing the current waste injection operations.

Pressure and Rate vs Time

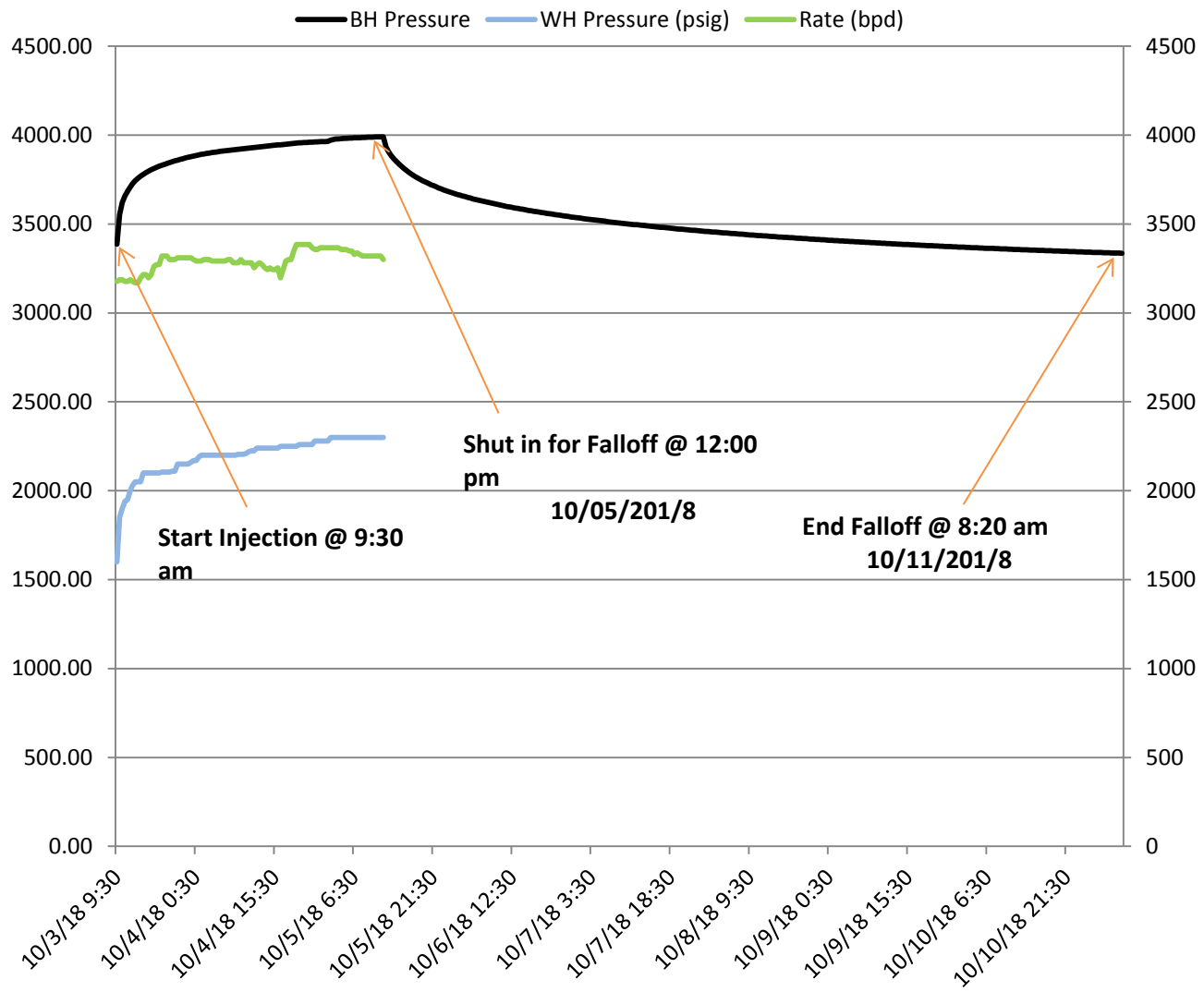


Figure 3 Pressure and Rate vs Time

Pressure and Rate vs Time During Injection

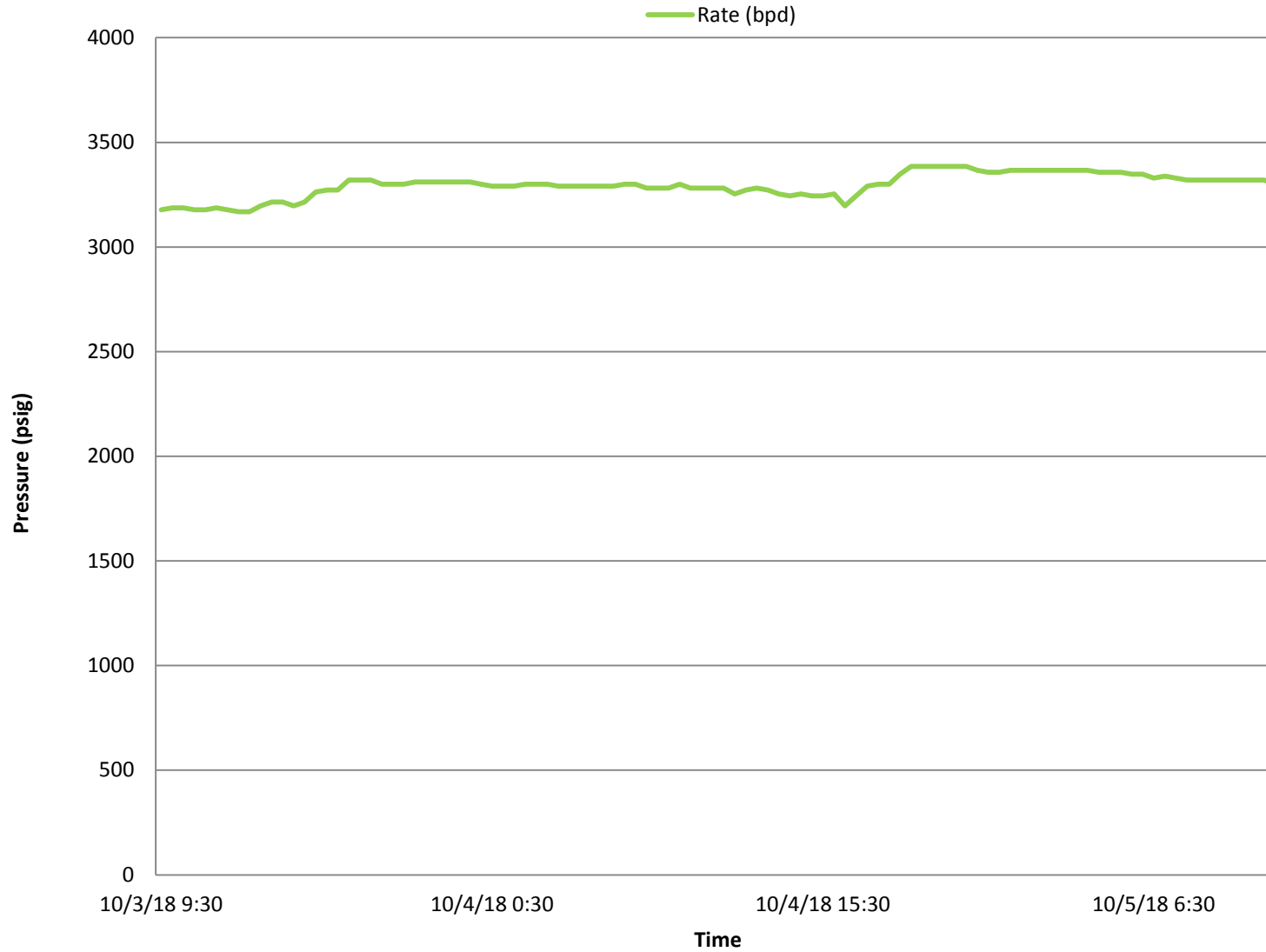


Figure 4 Injection Rate vs Time

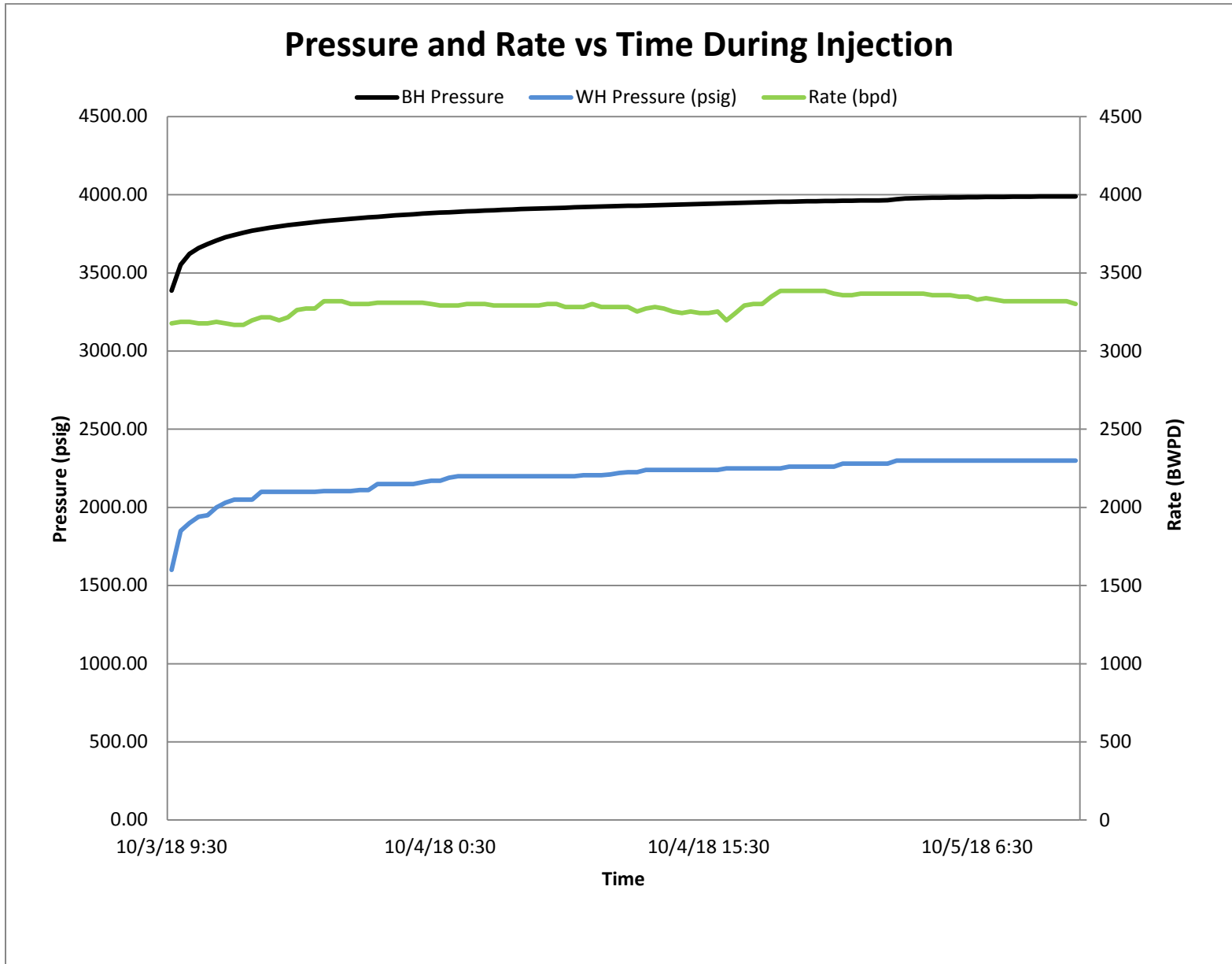
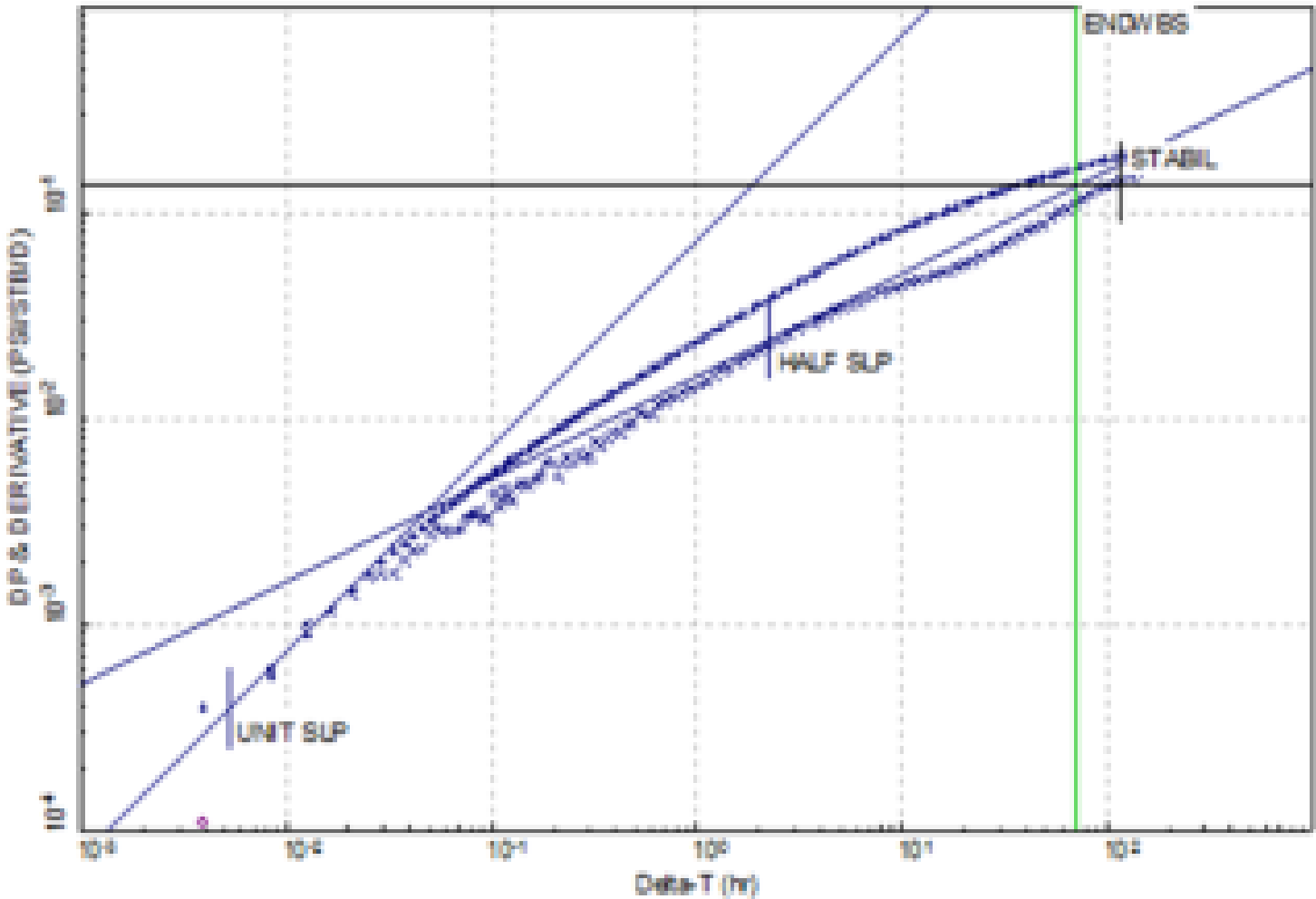
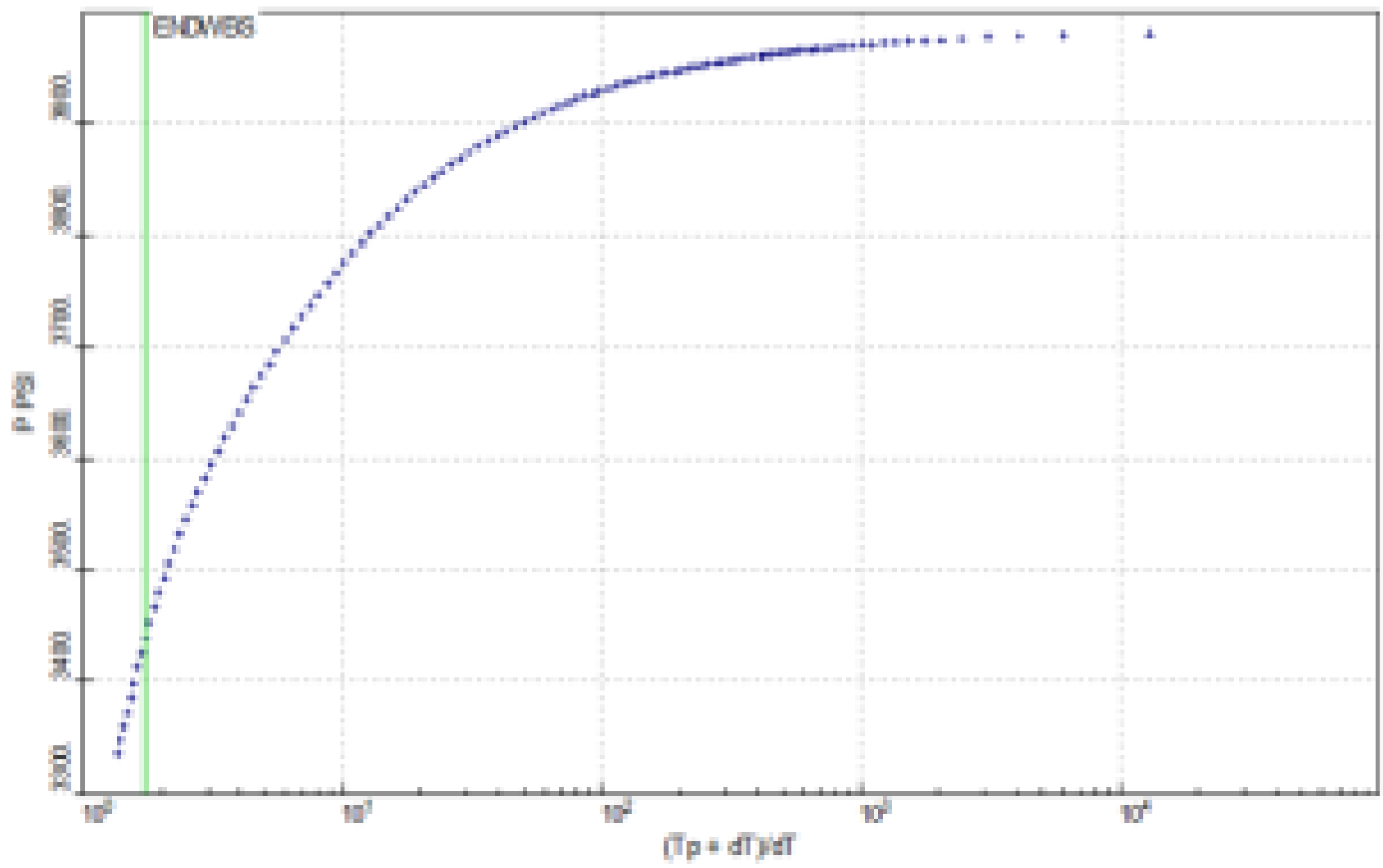


Figure 5 Pressure and Rate vs Time During Injection



Sunco Disposal #1

Figure 6 Derivative Plot



Sunco Disposal #1

Figure 7 Horner Plot

BH Pressure Falloff vs Time

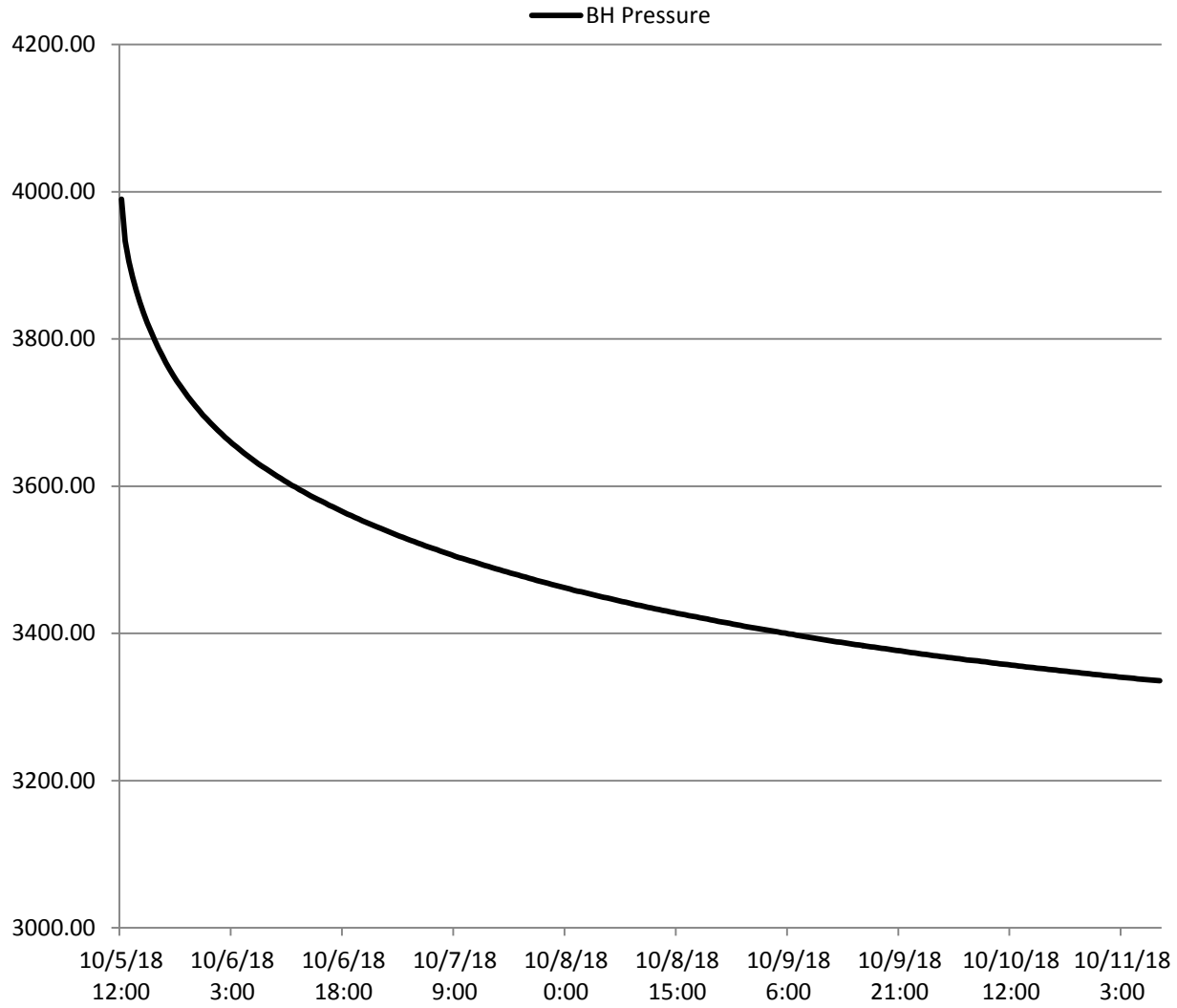


Figure 8 BH Pressure Falloff vs Elapsed Time

Sunco Injection Volumes and Surface Pressures

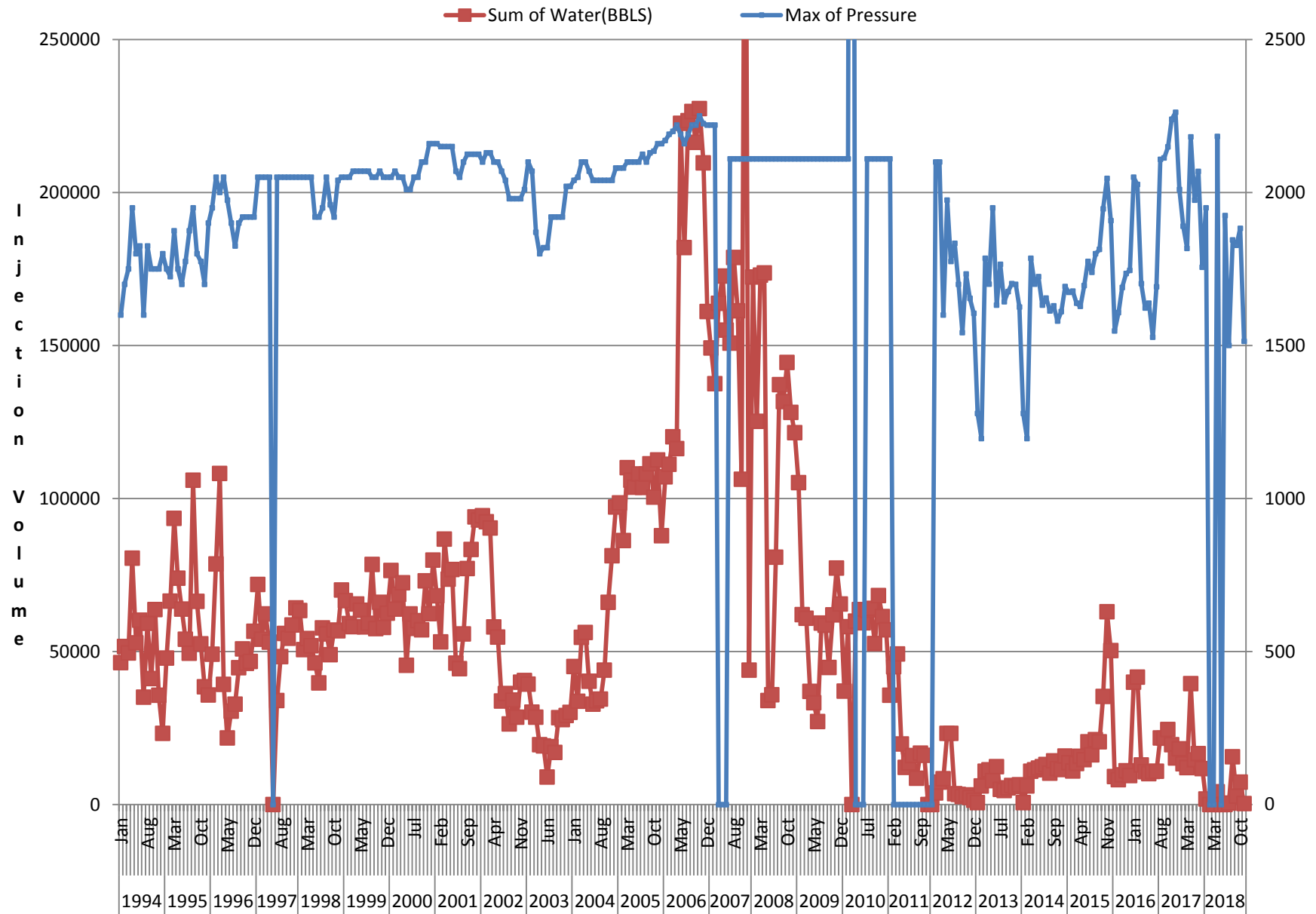
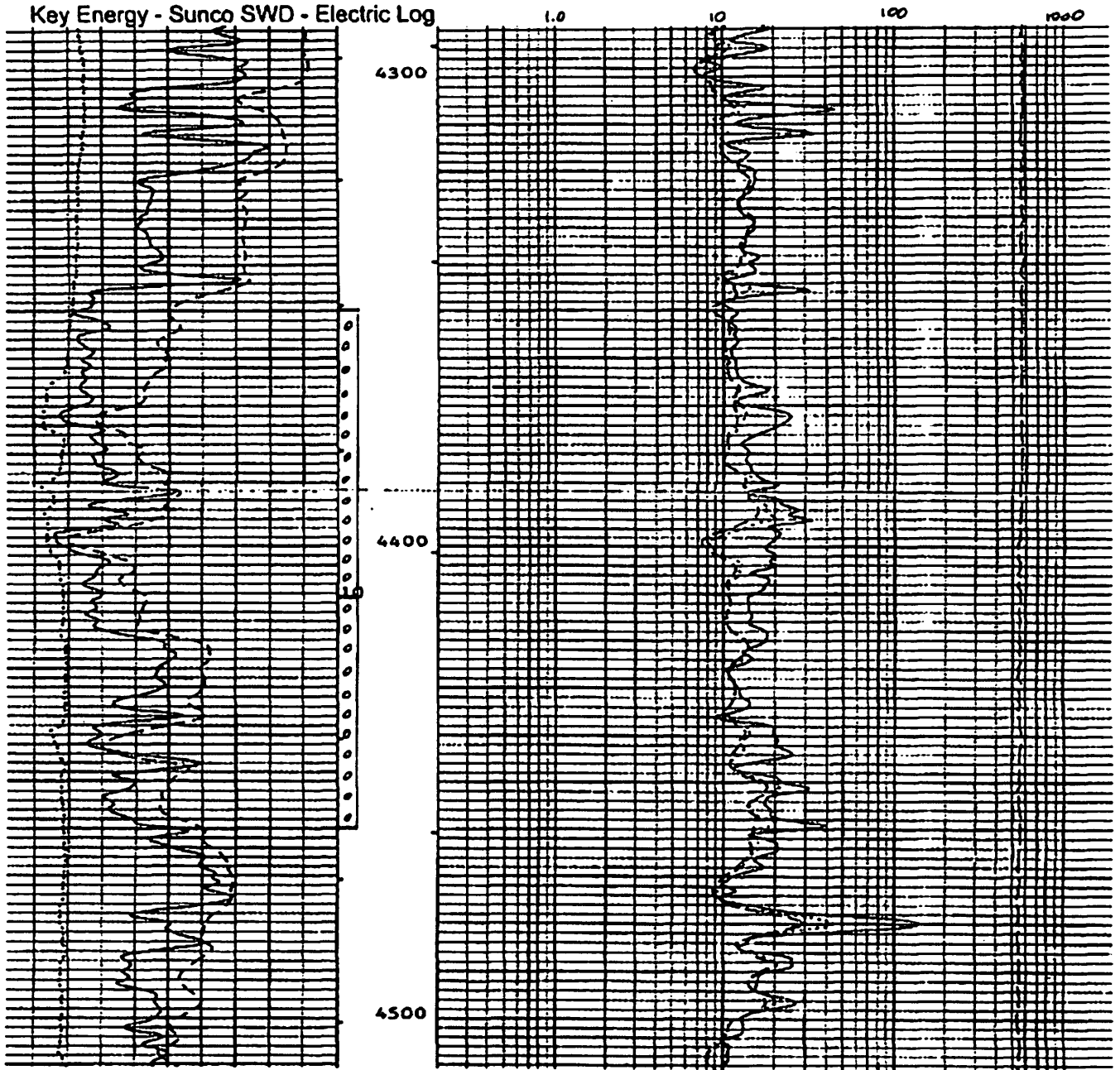


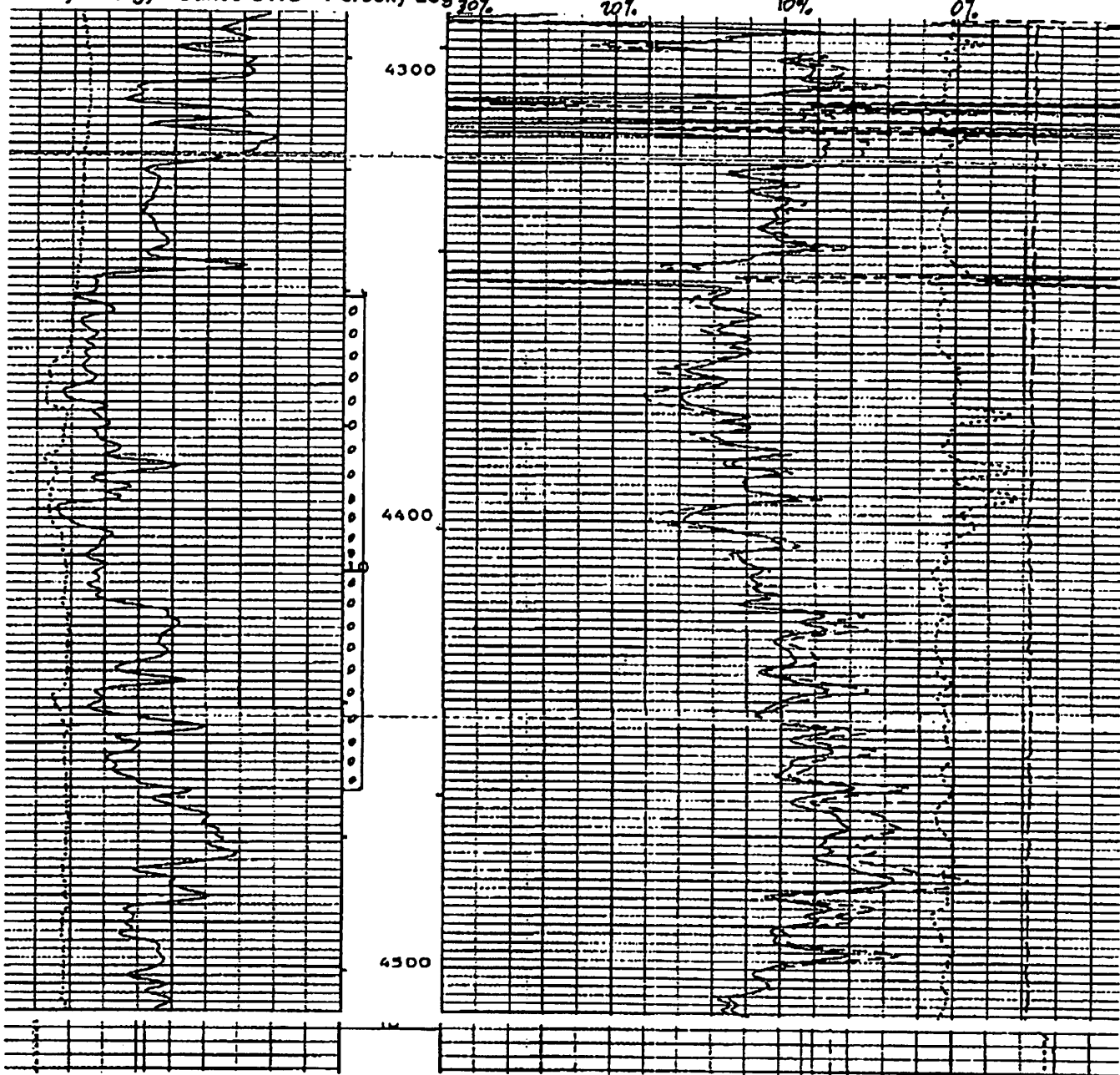
Figure 9 Injection and Pressure Plot

Key Energy - Sunco SWD - Electric Log



		TENS(LBF)	
		10000	0.0
..... CAL(IN)		SFLU(OHMM)	
3.0000	16.000	20000	2000.0
GR(GAP)		LD(OHMM)	
1.0	200.00	20000	2000.0
----- SP(MV) -----		ILM(OHMM)	
80.00	20.000	20000	2000.0

Key Energy - Sunco SWD - Porosity Log



5"/100'

CP 32.6

FILE 6

01-FEB-1992 20:21

(UP)

		PPHQ(G/C3)	
		2500	25000
		TENS(LBF)	
		10000	0.0
CALI(IN.1)		RHOBI(G/C3)	
8.0000	16.000	2.0000	3.0000
GR(GAP)		DPHI(V/V.1)	
0.0	200.00	3.0000	-1.000

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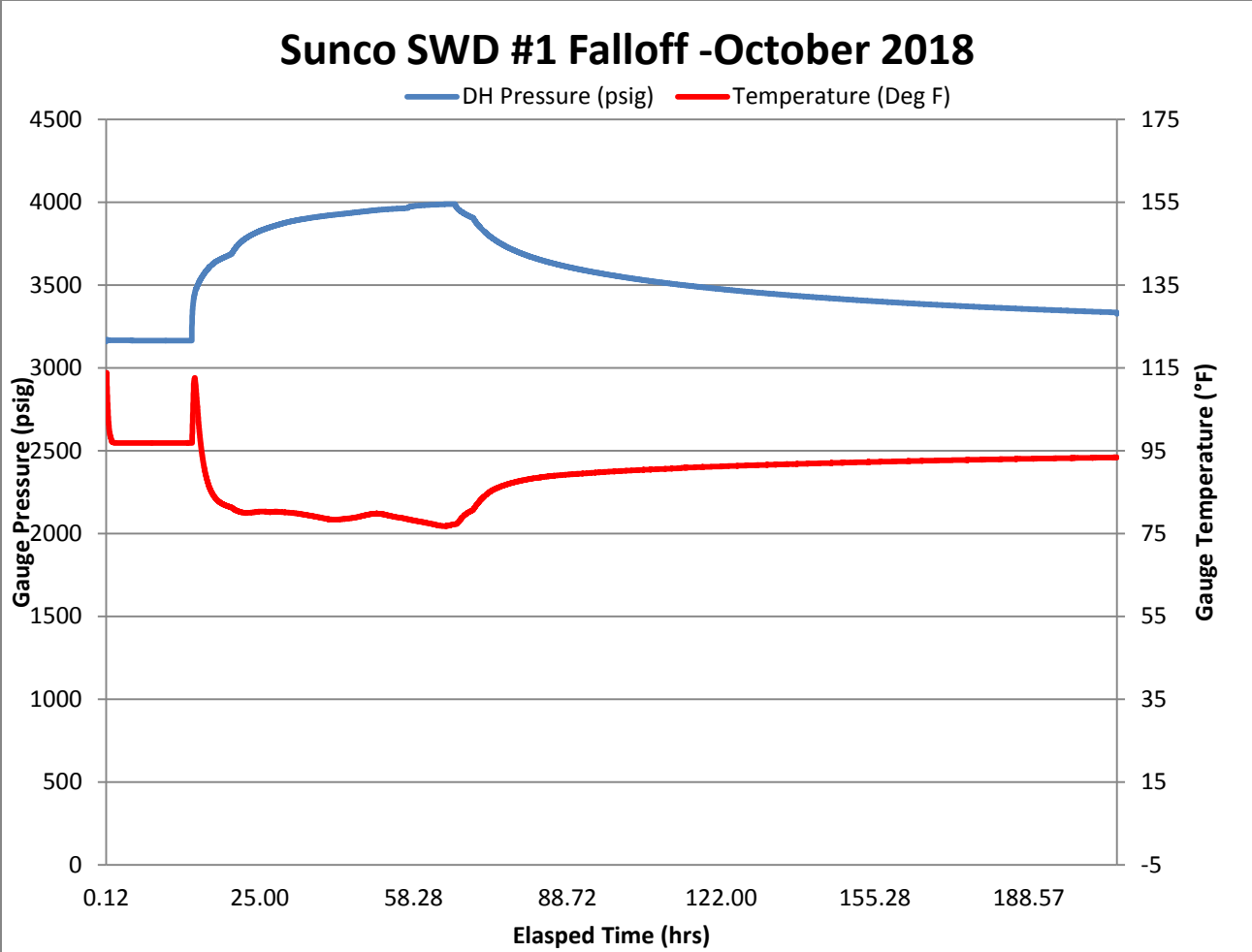


Figure 2 Pressure and Temp vs. Time



**2018 Fall-off Pressure Test Analysis
for the
Sunco Disposal Well #1
San Juan County, New Mexico**

**prepared for
Merrion Oil and Gas Corporation**

21 November 2018

**International Reservoir Technologies, Inc.
Lakewood, Colorado, USA**

**Tel. (303) 279-0877
Fax (303) 279-0936**



Sunco Disposal Well #1 2018 Fall-off Test Results

Summary:

The results of the 2018 fall off test (FOT) for the Sunco Disposal Well #1 indicate that the reported wellbore fill at the depth of 4387 feet GL did have an effect on the test analysis. However a set of satisfactory results was obtained using the three different analysis methods as described below. The calculated results are similar to the 2015, 2016 and 2017 fall-off test results.

The pressure transient effects of the partial penetration condition of the completion due to the fill, plus the hydraulic fracture and the wellbore storage effects do obscure to some extent the reservoir property influences; however, again a reasonable and satisfactory set of reservoir properties could be calculated. The conventional straight-line analysis for extrapolated pressure and the reservoir property calculations from the MDH type plot is acceptable and the type curve analysis and the derivative plot results are reasonable. The input parameters for the fluid properties (i.e. PVT data) were the same as the 2017 and 2016 tests with the source being the report titled "2nd Quarter 2016 Sampling - Injection Well.pdf", NM1-9 INJECTION WELL ANALYTICAL RESULTS, Agua Moss Disposal Facility, Crouch Mesa Road, San Juan County, New Mexico, 6/28/16.

The results from the derivative, type curve and MDH type pressure plots are summarized in the table below. The available results for the different methods were consistent and the average calculated properties were:

- Estimated Kw (permeability) = 10.8 md
- Estimated skin = -6.0
- Extrapolated pressure = 3,479 psig
- Fracture half-length = 598 feet (from derivative half-slope line)
- Radius of investigation = 1,690 feet

Calculated Reservoir Parameters				
	Type Curve Analysis	MDH Plot	Derivative Plot	Average
Estimated Kw (permeability, mD)	9.6	10.8	11.9	10.8
Estimated skin (dimensionless)	-5.9	-5.6	-6.4	-6.0
Extrapolated pressure (psig)	--	3,479	--	3,479
Fracture half-length (feet)	--	--	598	598
Radius of investigation (feet)	--	1,690	--	1,690

Larger versions of the plots appear at the end of this document.



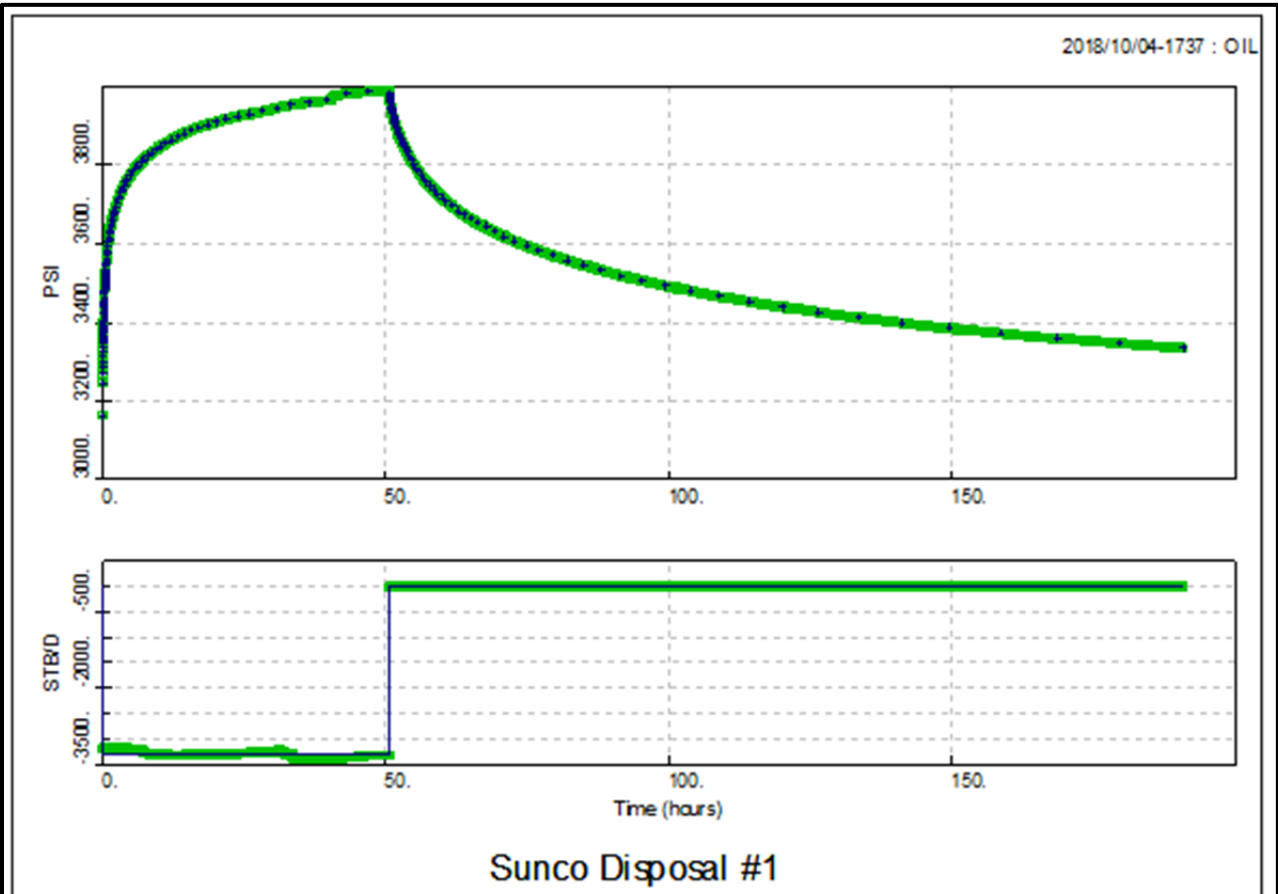
Input data and assumptions:

Assumptions:

- Formation fluid properties equal injection water properties due to cumulative volume injected and miscibility of formation water and injection water
- Reservoir temperature = 91 deg F
- Porosity = 0.114 (fraction, estimated from density log)
- Net pay = 110 feet
- Rock compressibility = $4.50E-06$ 1/psi (correlation)
- Wellbore radius = 0.506 ft
- Wellbore volume total = 34.88 bbls (tubing = 24.79 bbls, casing = 10.09 bbls)
- Wellbore compressibility = injection water compressibility = $2.64E-06$ 1/psi (from Osif correlation)
- Injected water specific gravity = 1.006 (pure water = 1.0); density = 8.392 lb./gal, TDS = 15,500 mg/L
- Injected water FVF = 1.0023 rb/stb (McCain correlation)
- Injected water viscosity = 0.737 cp (McCain correlation)



DATA PLOT:



Sunco Disposal #1

SELECTION OF PRESSURES DATA (PSI)

Gauge-Data ID: GAU006
Analysis-Data ID: GAU006
Total Raw points = 12012
Set 2 rates (max=100000)
Loaded 231 points (max=100000)
Pressure Select Mode: MANUAL
Rates Cum. Prod.= -6948.8916 BBLs

Static-Data and Constants

Volume-Factor = 1.002 vol/vol
Thickness = 110.0 FEET
Viscosity = 0.7370 CP
Total Compress = .7140E-05 1/PSI
Storivity = .8954E-04 FEET/PSI
Gauge Depth = 4362. FEET
Perf. Depth = 4350. FEET
Datum Depth = 4362. FEET
Analysis-Data ID: GAU006
Based on Gauge ID: GAU006

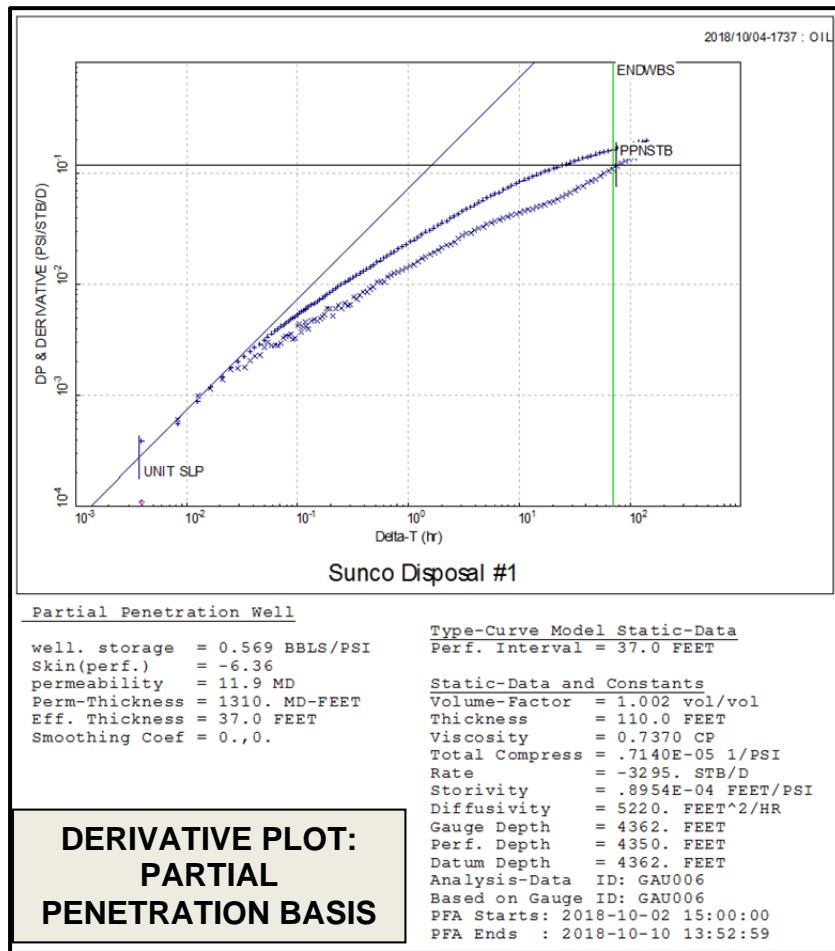


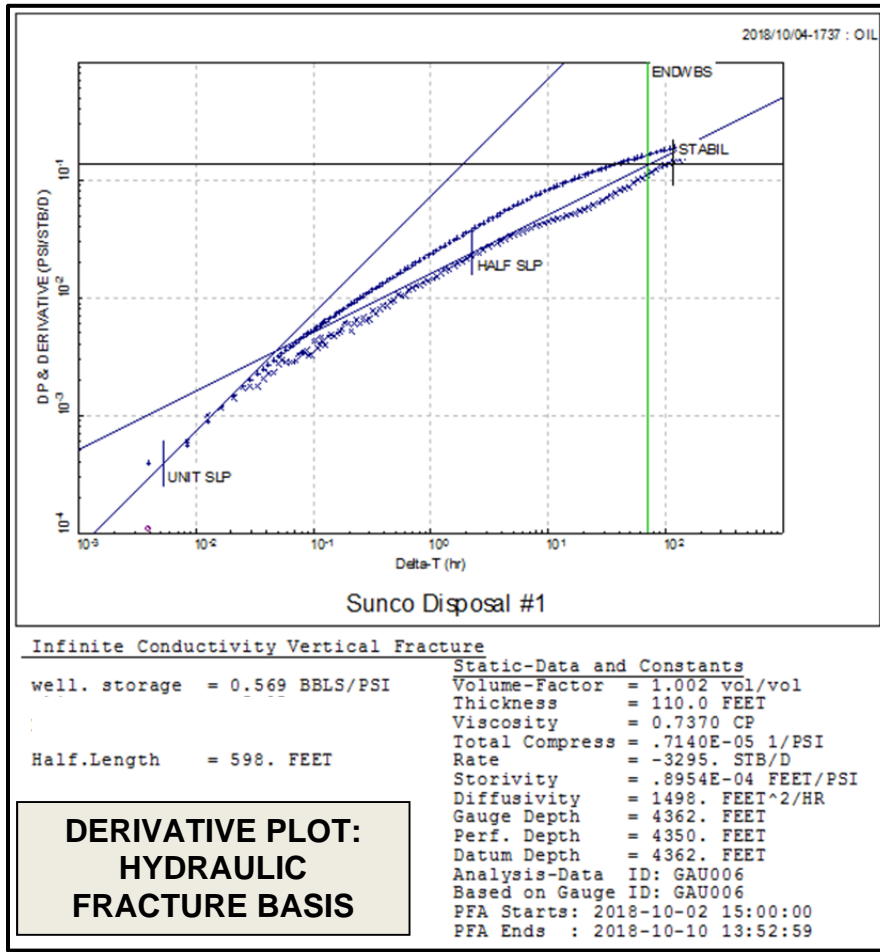
DERIVATIVE PLOT:

Conclusions: The behavior of the derivative curve is affected by the wellbore fill, the wellbore storage and the influence of an apparent hydraulic fracture. The first derivative plot below is based on a partial penetration reservoir model so as to best calculate the reservoir properties. The second derivative plot shown is based on a hydraulic fracture reservoir model so as to best calculate the hydraulic fracture length.

The first plot indicates that due to the mentioned influences, the length of the shut-in test was insufficient to reach a true stabilized derivative period. If the end of the test data is assumed to equate to the point of stabilization, the calculated permeability is 11.9 md. The second plot indicates a half-slope as shown in the derivative curve which is characteristic of linear-flow due to a hydraulic-fracture. The calculated half-length for the fracture was 598 feet.

- Estimated Kw (permeability) = 11.9 md
- Estimated skin = -6.4
- Fracture half-length = 598 feet



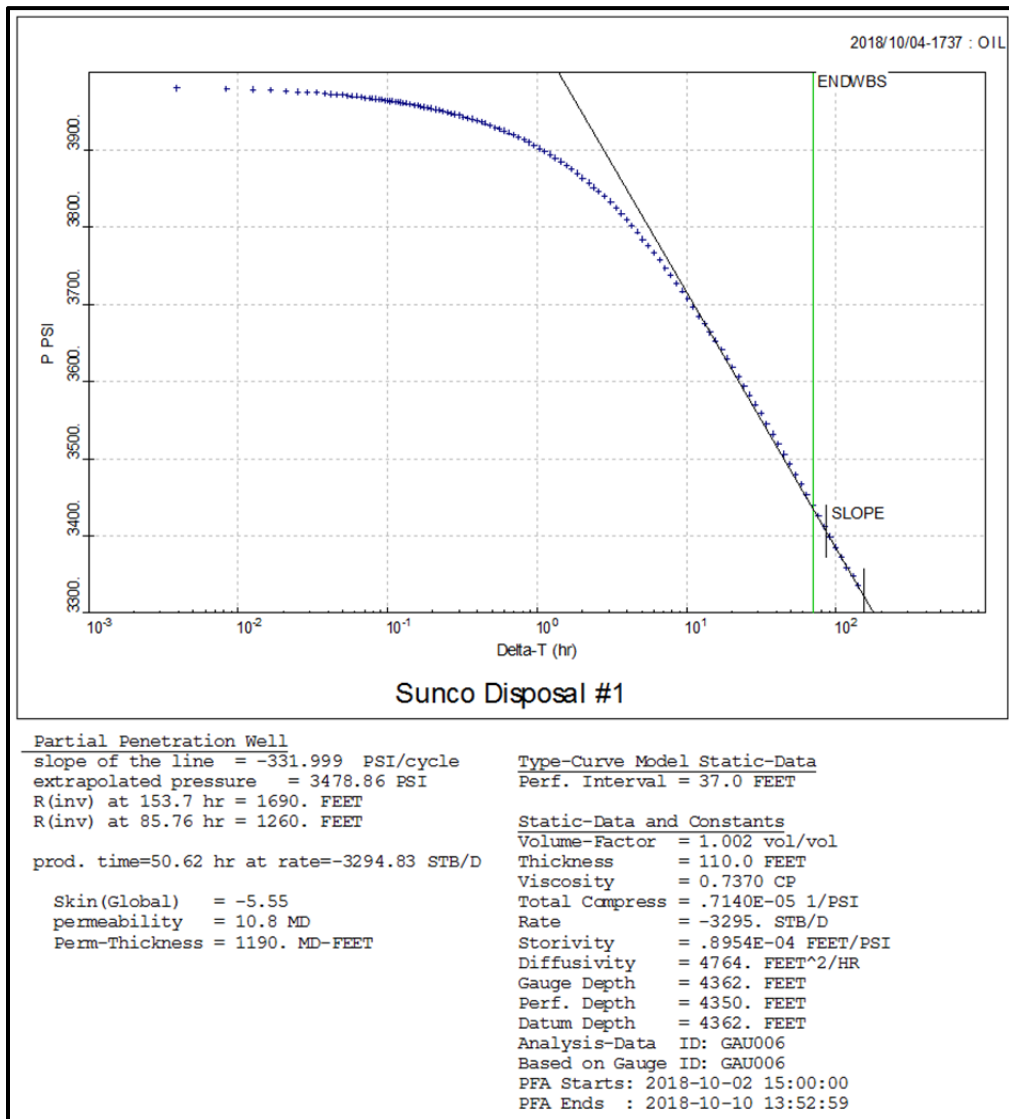




MDH PLOT:

Conclusions: The MDH stabilized flow period was reached relatively late in the conventional straight-line extrapolation for the extrapolated pressure, however the MDH values do appear reasonable.

- Estimated extrapolated pressure = 3,479 psig
- Estimated Kw (permeability) = 10.8 md
- Estimated skin = -5.6
- Radius of investigation = 1,690 feet

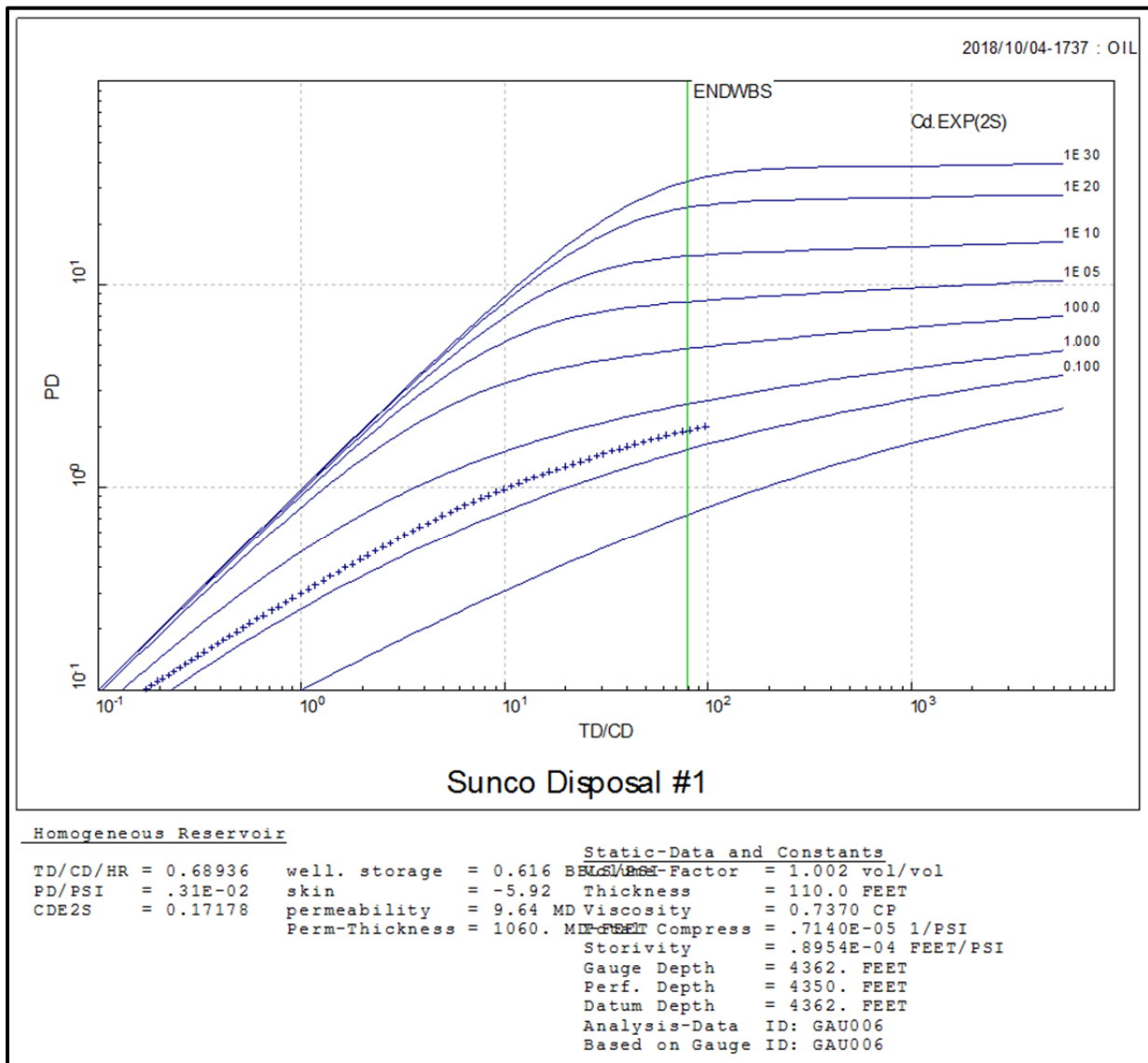




TYPE CURVE PLOT:

Conclusions: A unique solution to the type curve analysis is uncertain, however the following parameters appear to result in a good match to the data.

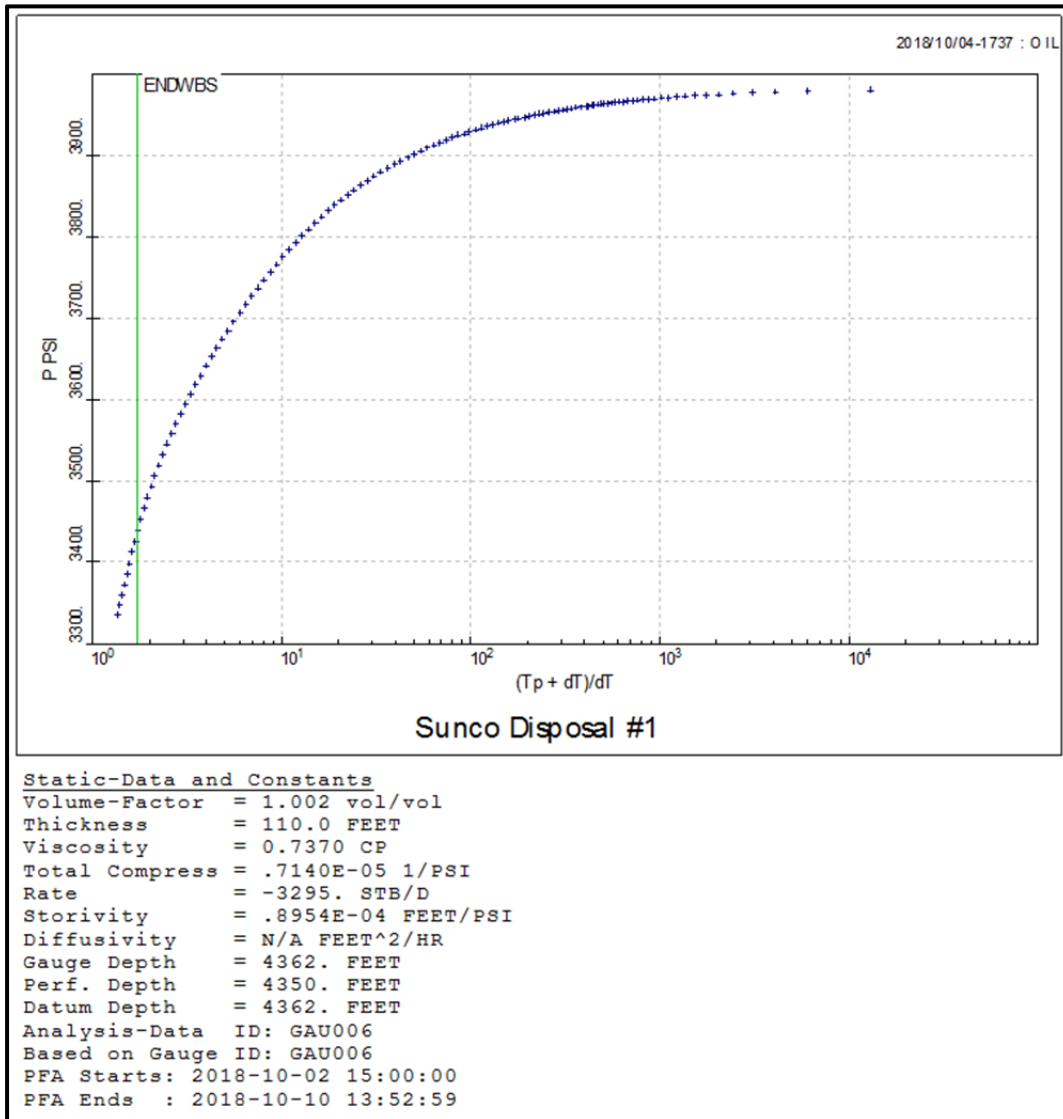
- Estimated Kw (permeability) = 9.6 md
- Estimated skin = -5.9





HORNER PLOT:

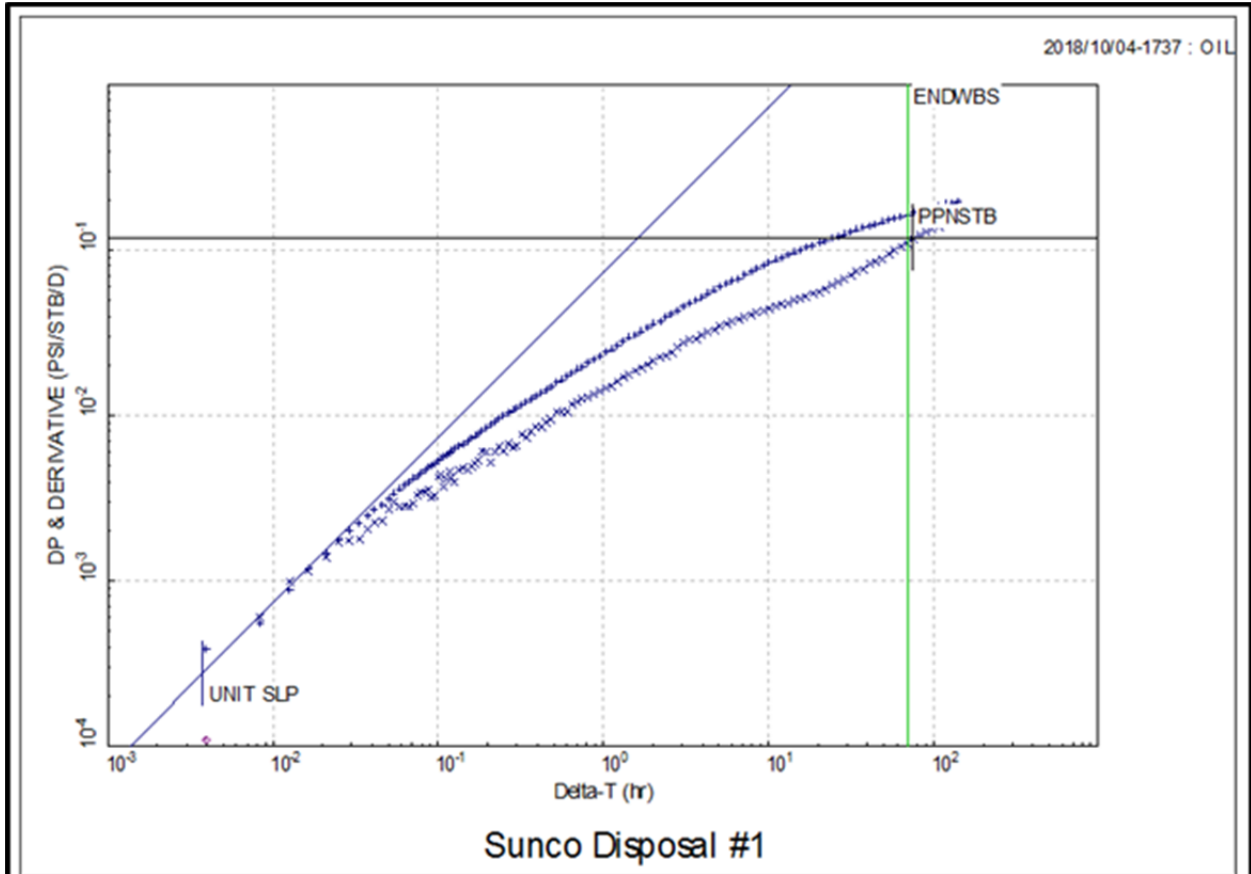
Conclusions: The stabilized flow period was reached too late in the conventional straight-line extrapolation to properly analyze with a Horner plot.





ENLARGED PLOTS:

DERIVATIVE PLOTS:



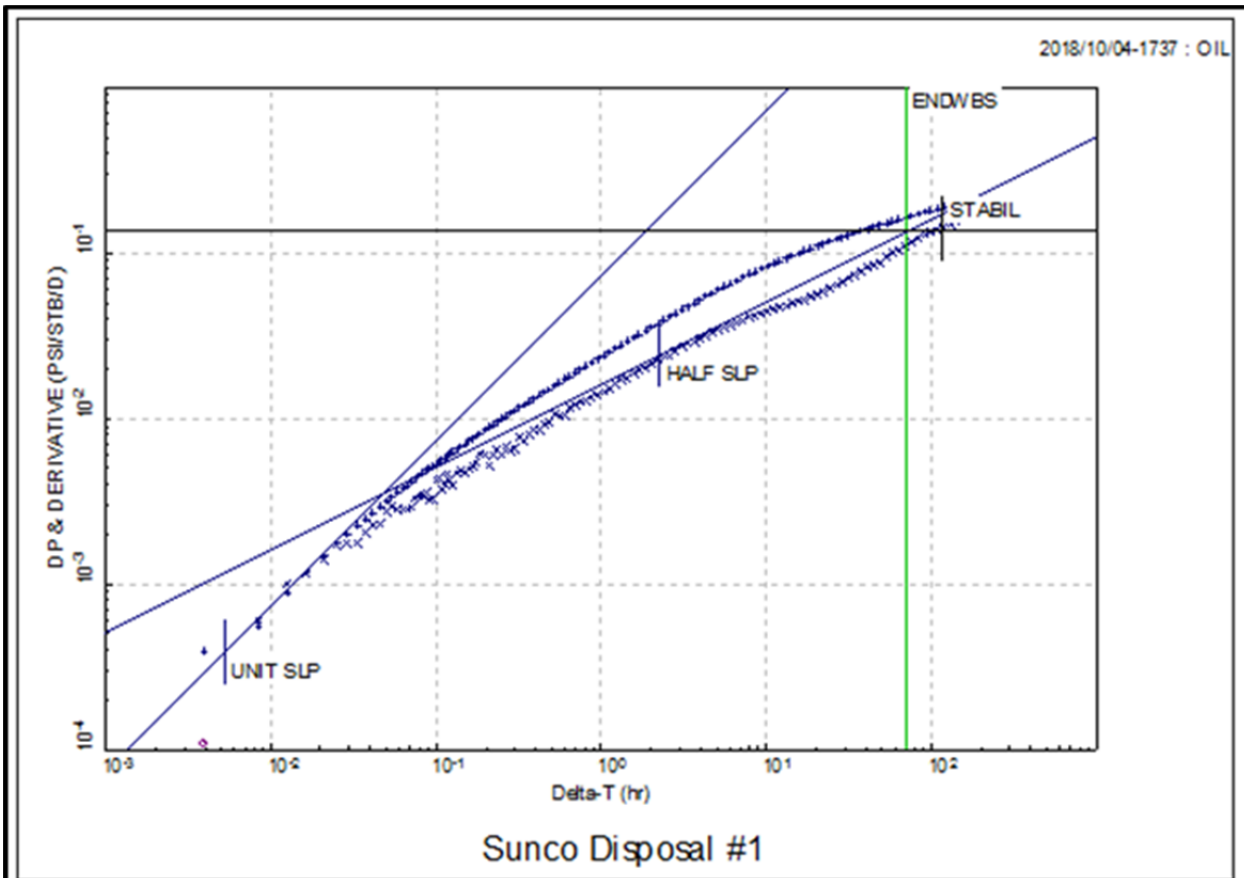
Partial Penetration Well

well. storage = 0.569 BBL/PSI
 Skin(perf.) = -6.36
 permeability = 11.9 MD
 Perm-Thickness = 1310. MD-FEET
 Eff. Thickness = 37.0 FEET
 Smoothing Coef = 0.,0.

Type-Curve Model Static-Data
 Perf. Interval = 37.0 FEET

Static-Data and Constants
 Volume-Factor = 1.002 vol/vol
 Thickness = 110.0 FEET
 Viscosity = 0.7370 CP
 Total Compress = .7140E-05 1/PSI
 Rate = -3295. STB/D
 Storivity = .8954E-04 FEET/PSI
 Diffusivity = 5220. FEET^2/HR
 Gauge Depth = 4362. FEET
 Perf. Depth = 4350. FEET
 Datum Depth = 4362. FEET
 Analysis-Data ID: GAU006
 Based on Gauge ID: GAU006
 PFA Starts: 2018-10-02 15:00:00
 PFA Ends : 2018-10-10 13:52:59

**DERIVATIVE PLOT:
PARTIAL
PENETRATION BASIS**



Infinite Conductivity Vertical Fracture

well. storage = 0.569 BBL/PSI

Half.Length = 598. FEET

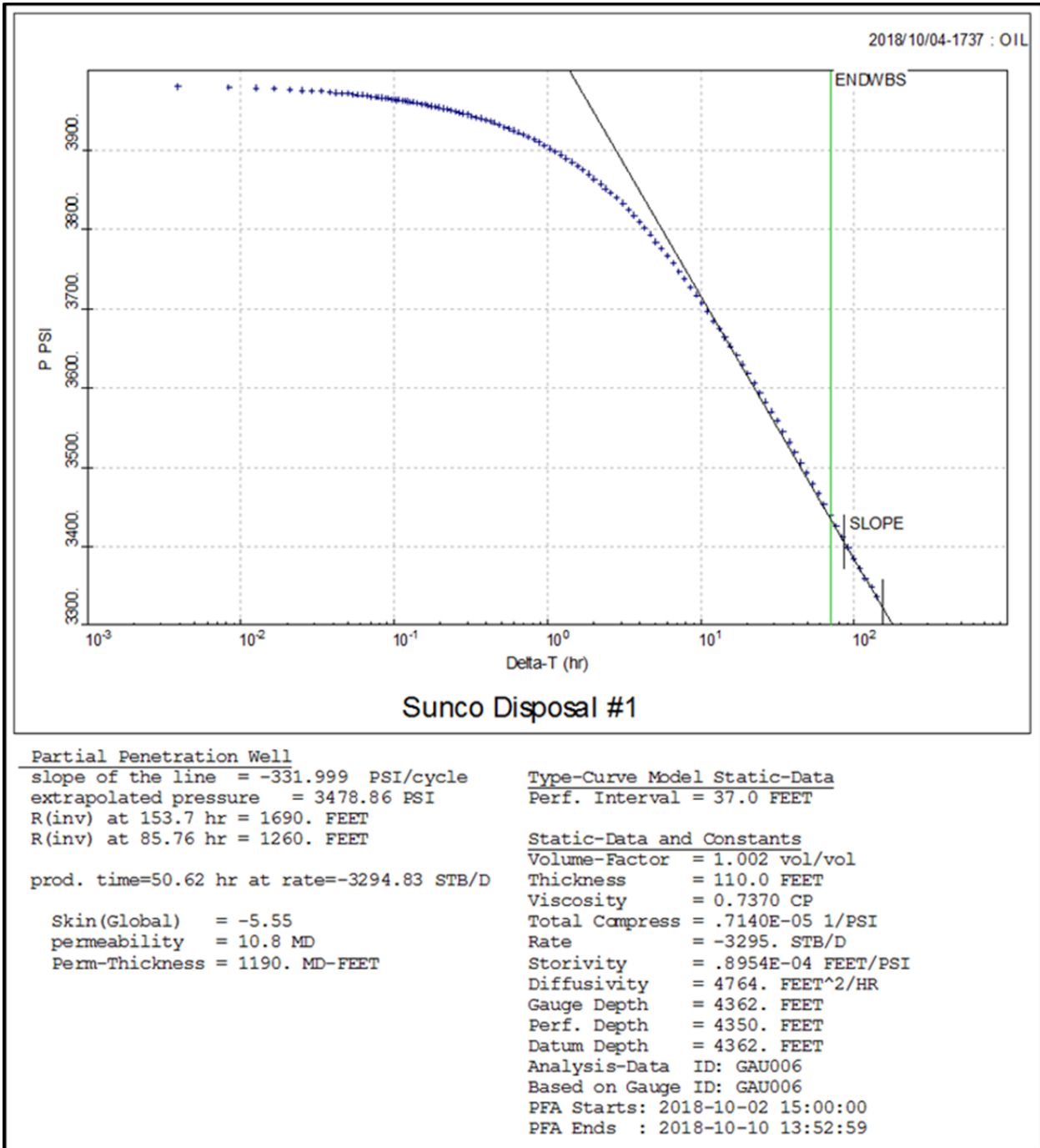
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**DERIVATIVE PLOT:
HYDRAULIC
FRACTURE BASIS**

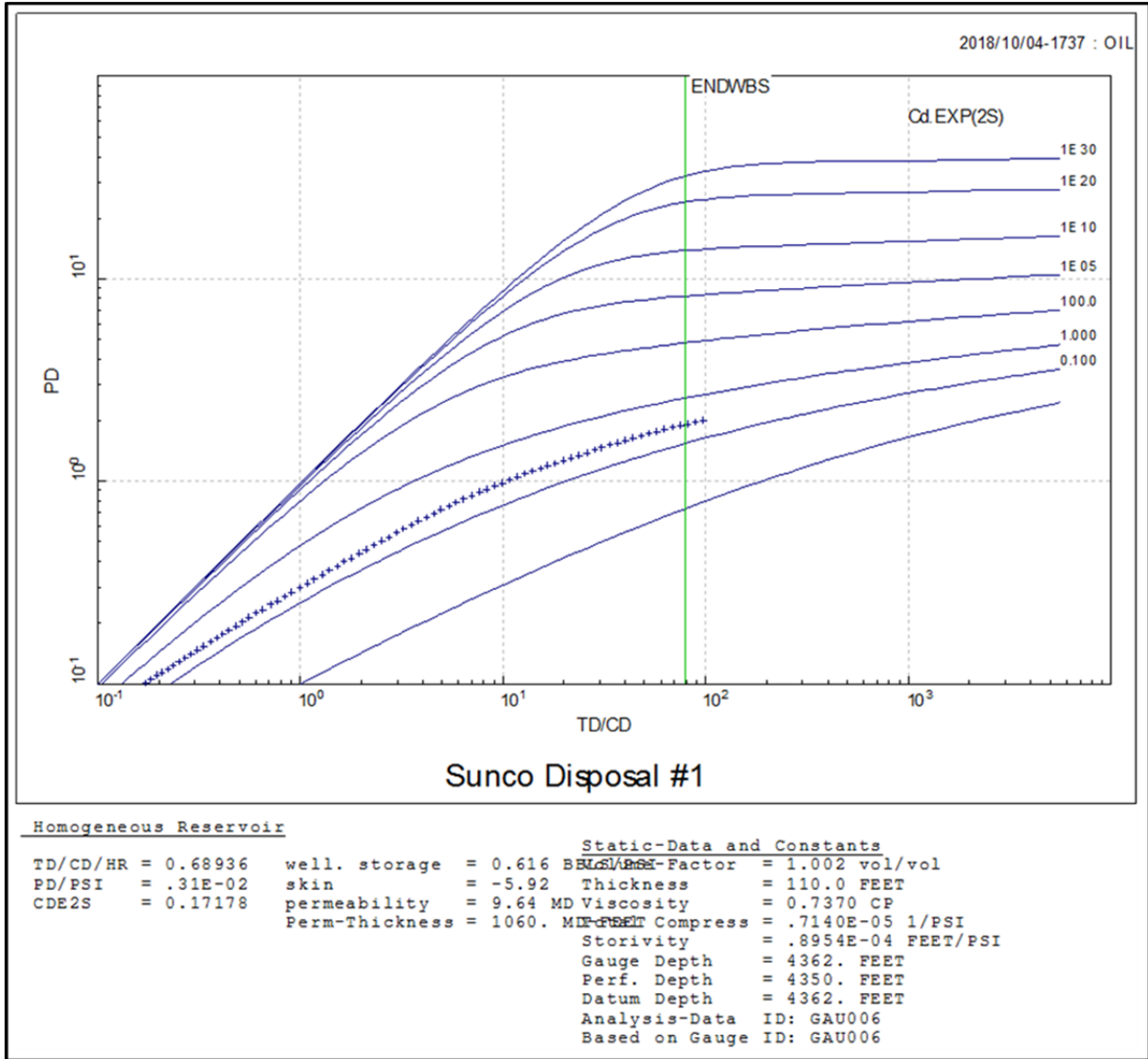


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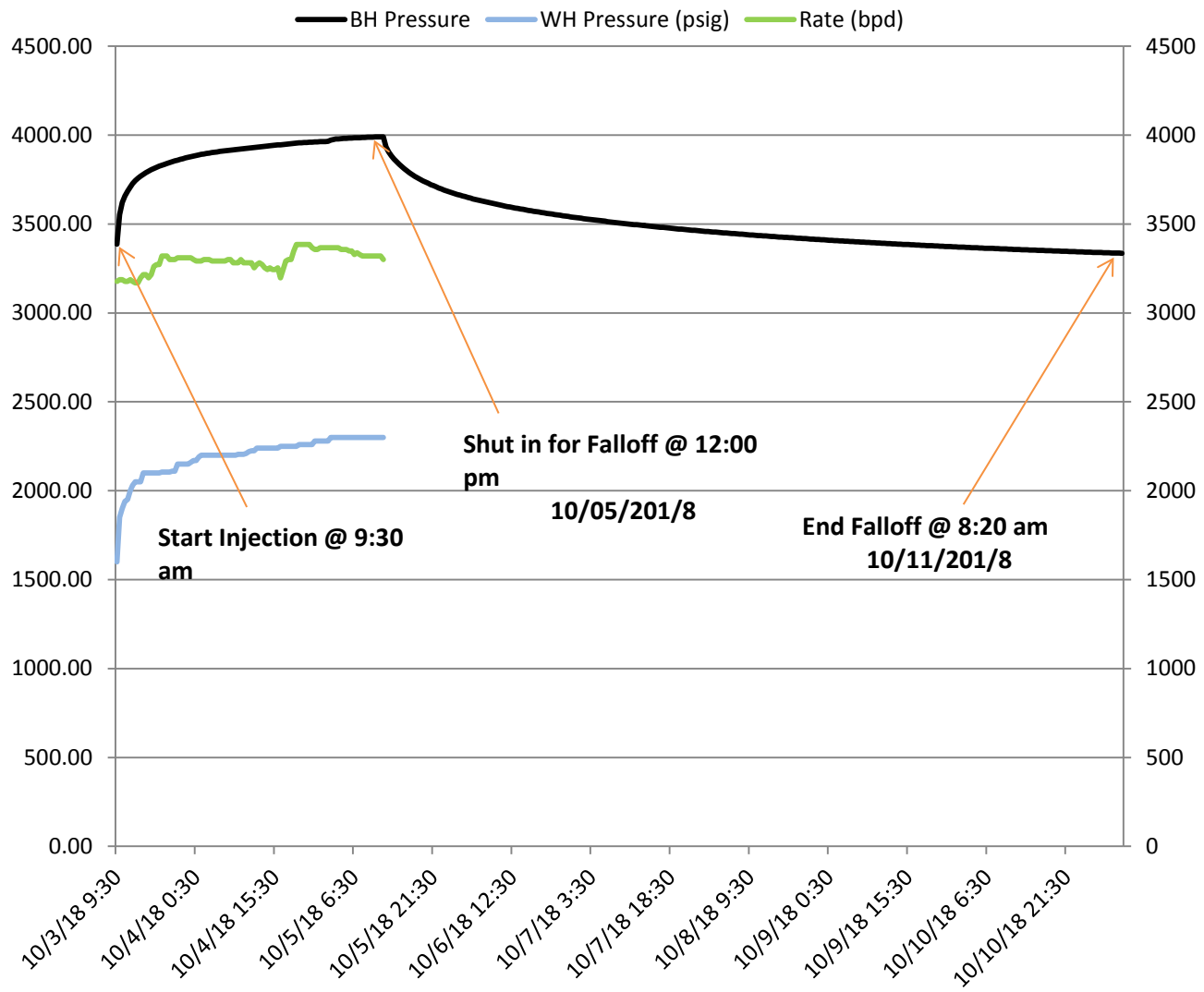


Figure 3 Pressure and Rate vs Time

Pressure and Rate vs Time During Injection

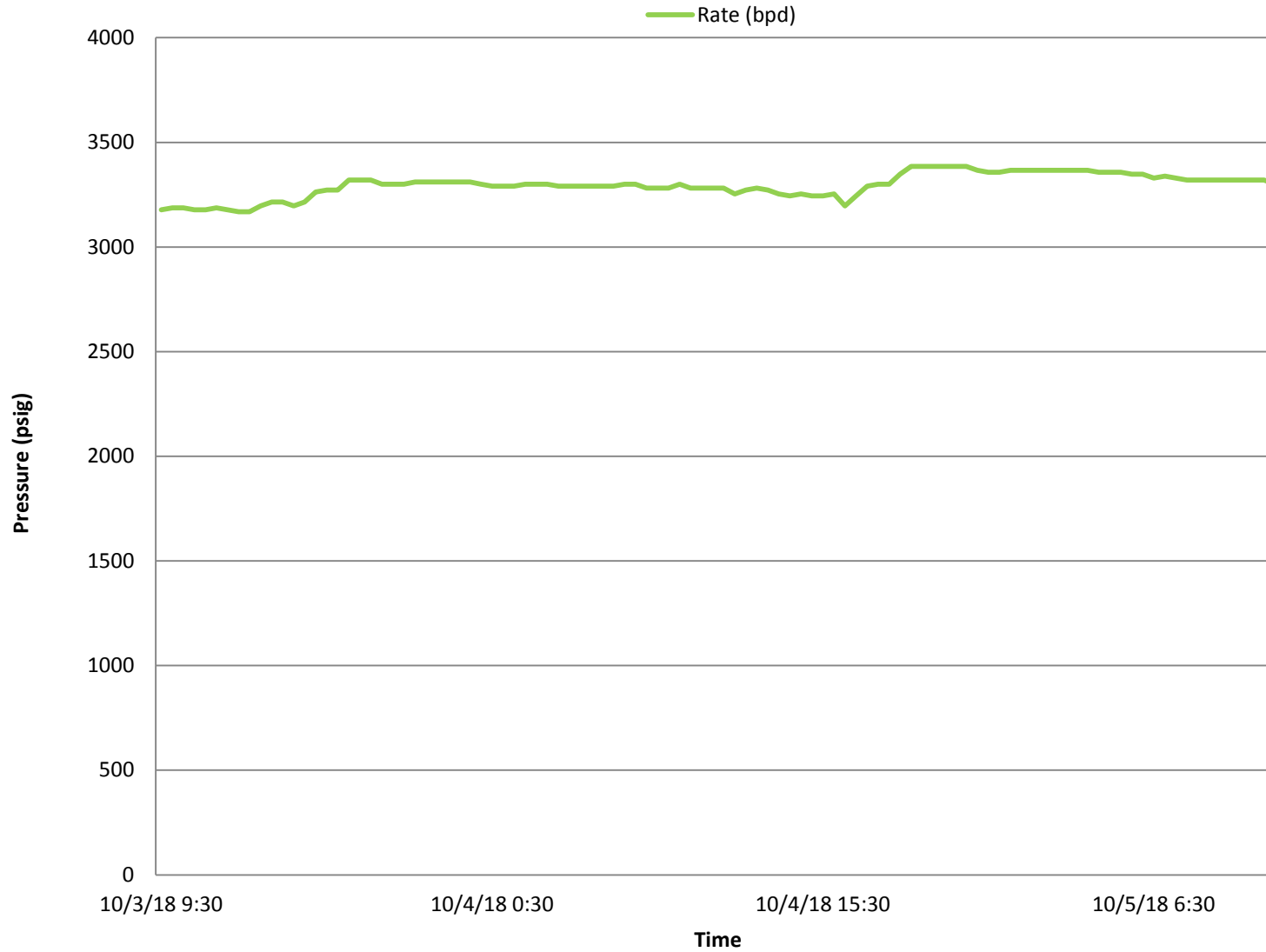


Figure 4 Injection Rate vs Time

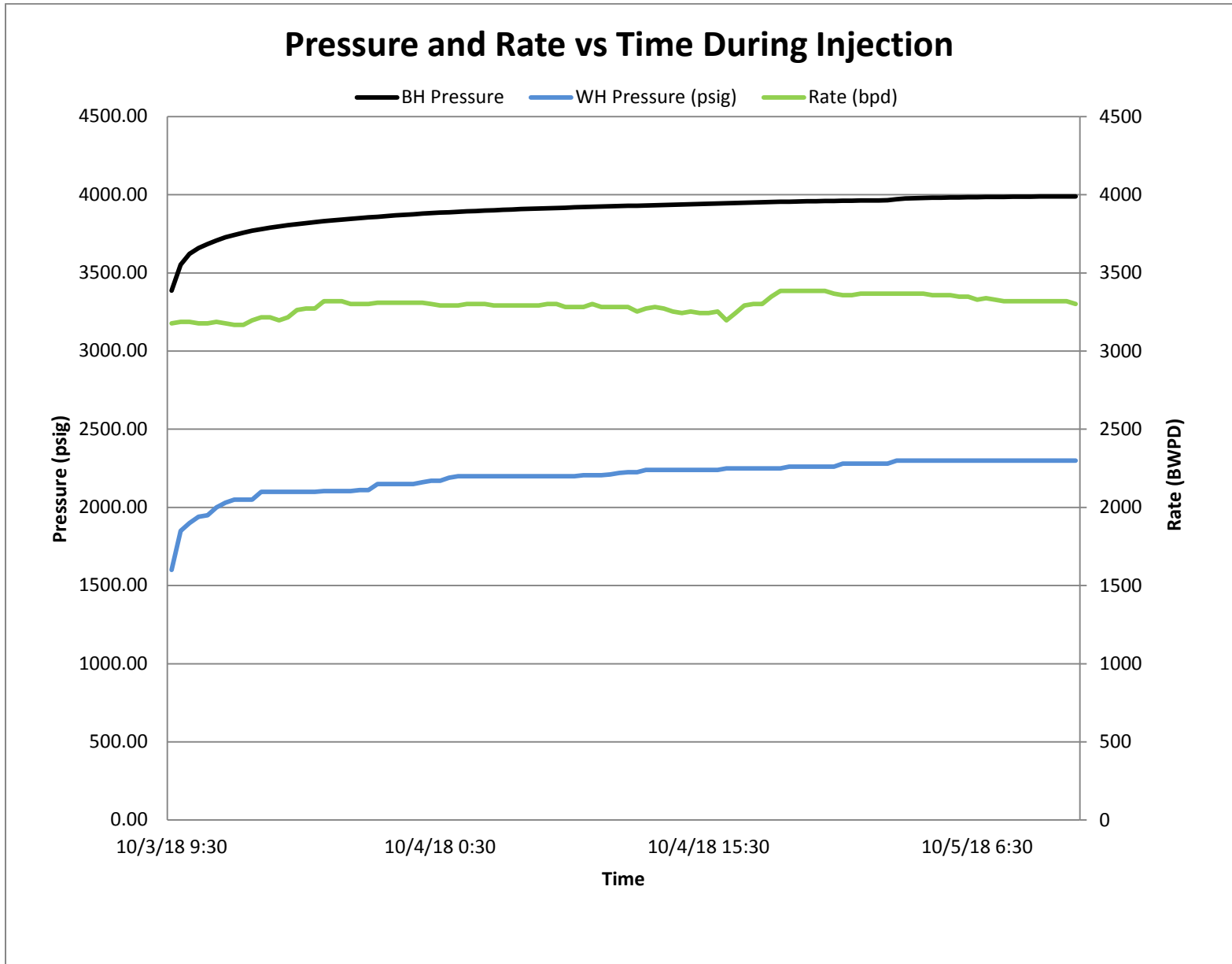
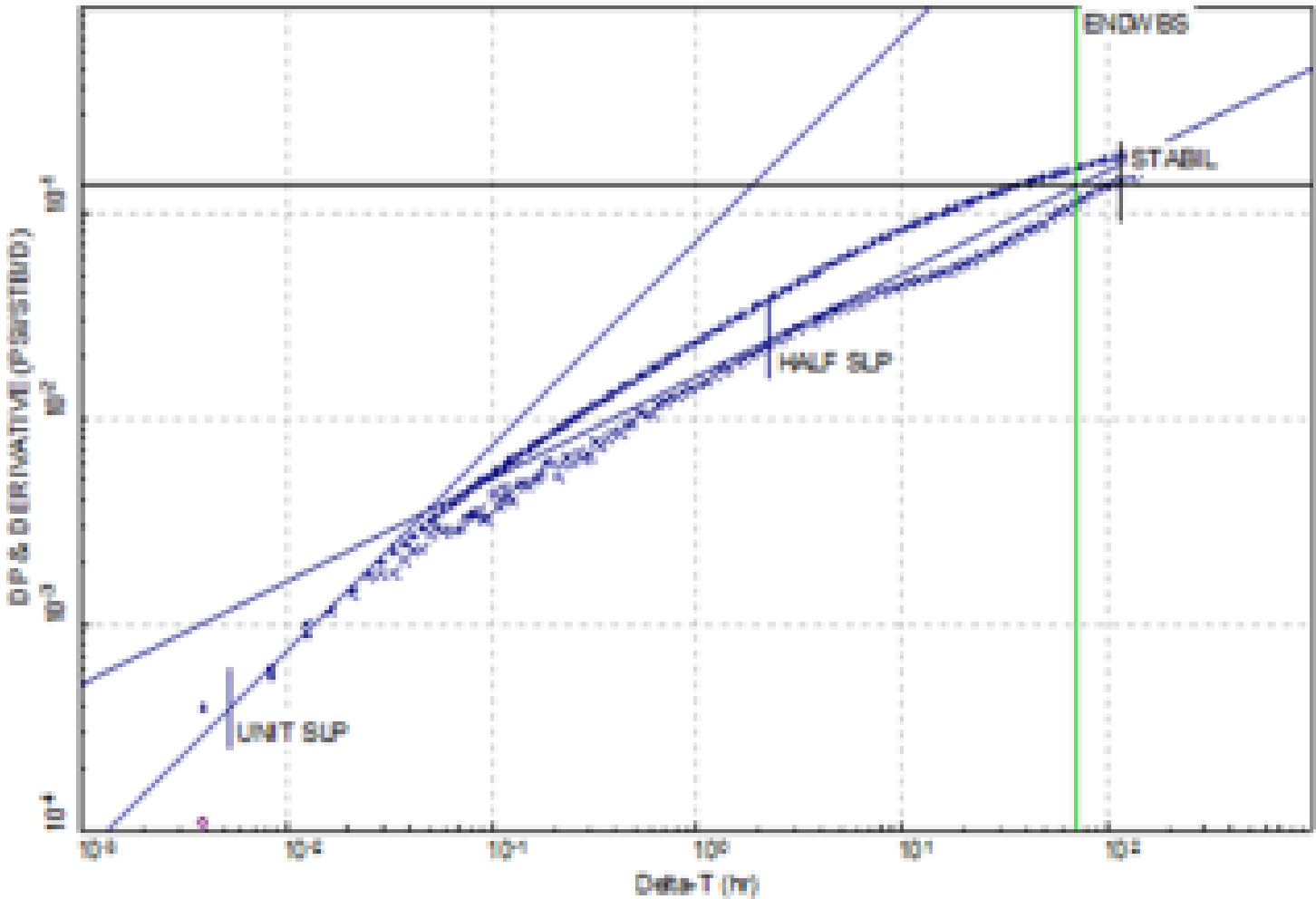
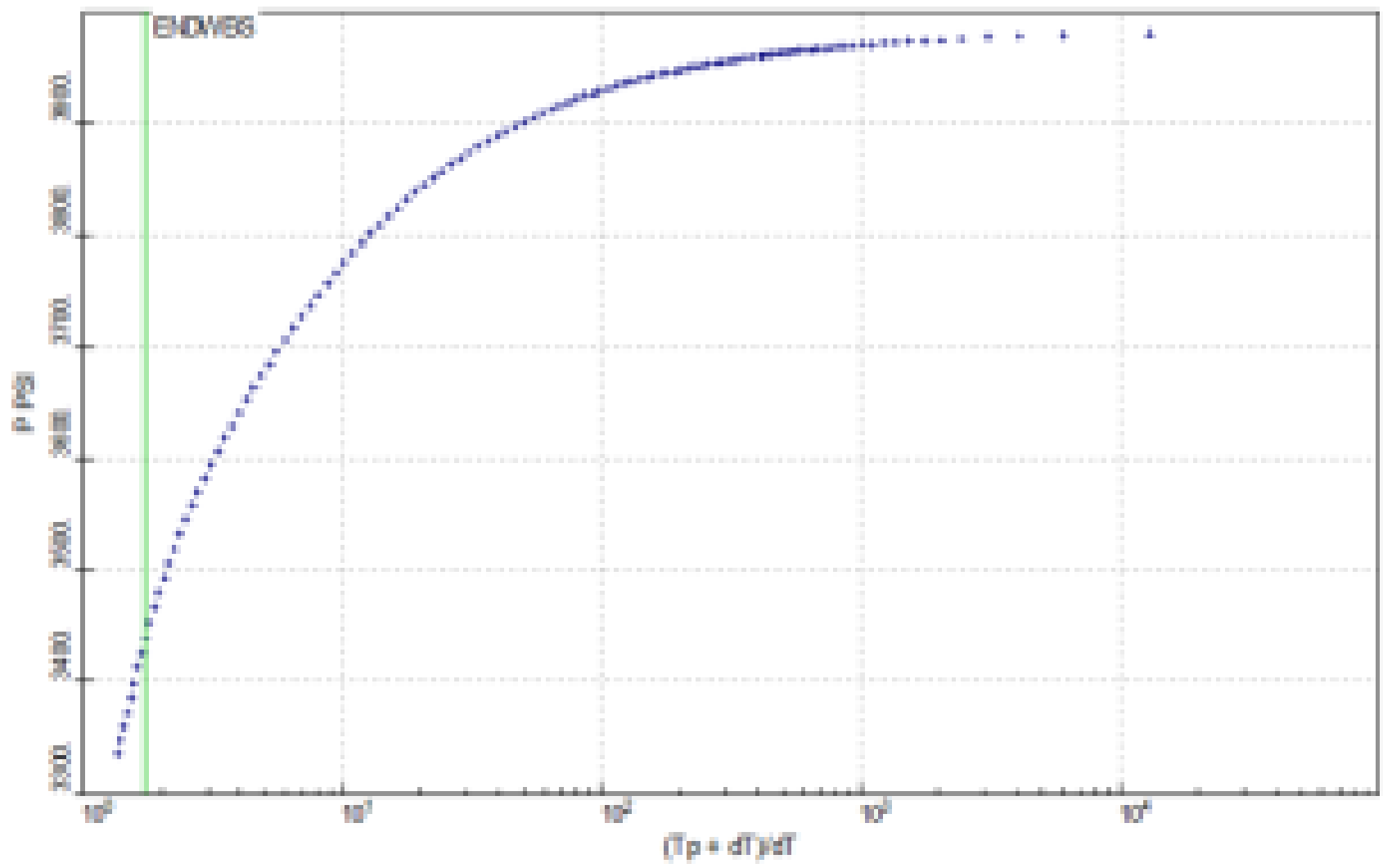


Figure 5 Pressure and Rate vs Time During Injection



Sunco Disposal #1

Figure 6 Derivative Plot



Sunco Disposal #1

Figure 7 Horner Plot

BH Pressure Falloff vs Time

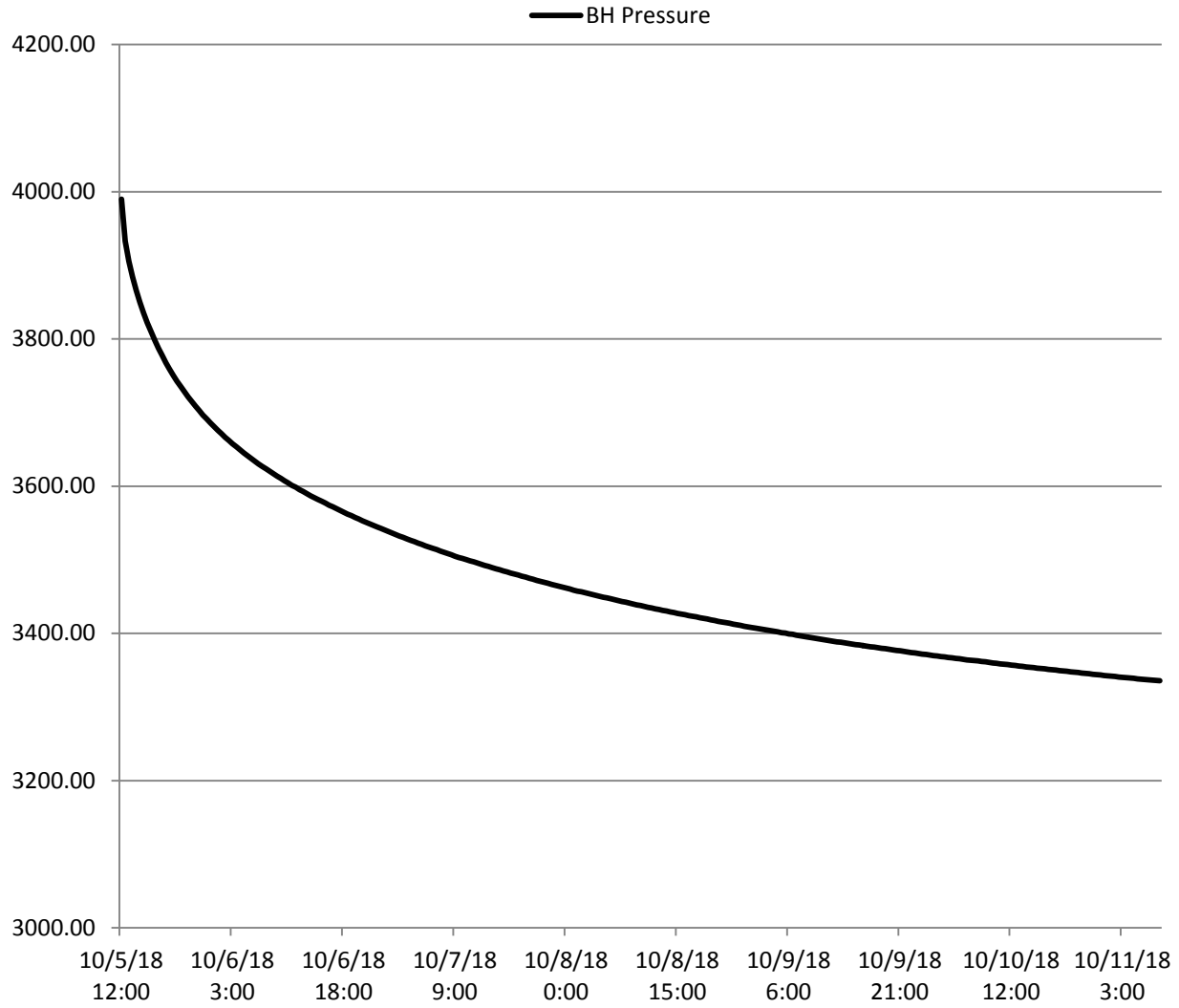


Figure 8 BH Pressure Falloff vs Elapsed Time

Sunco Injection Volumes and Surface Pressures

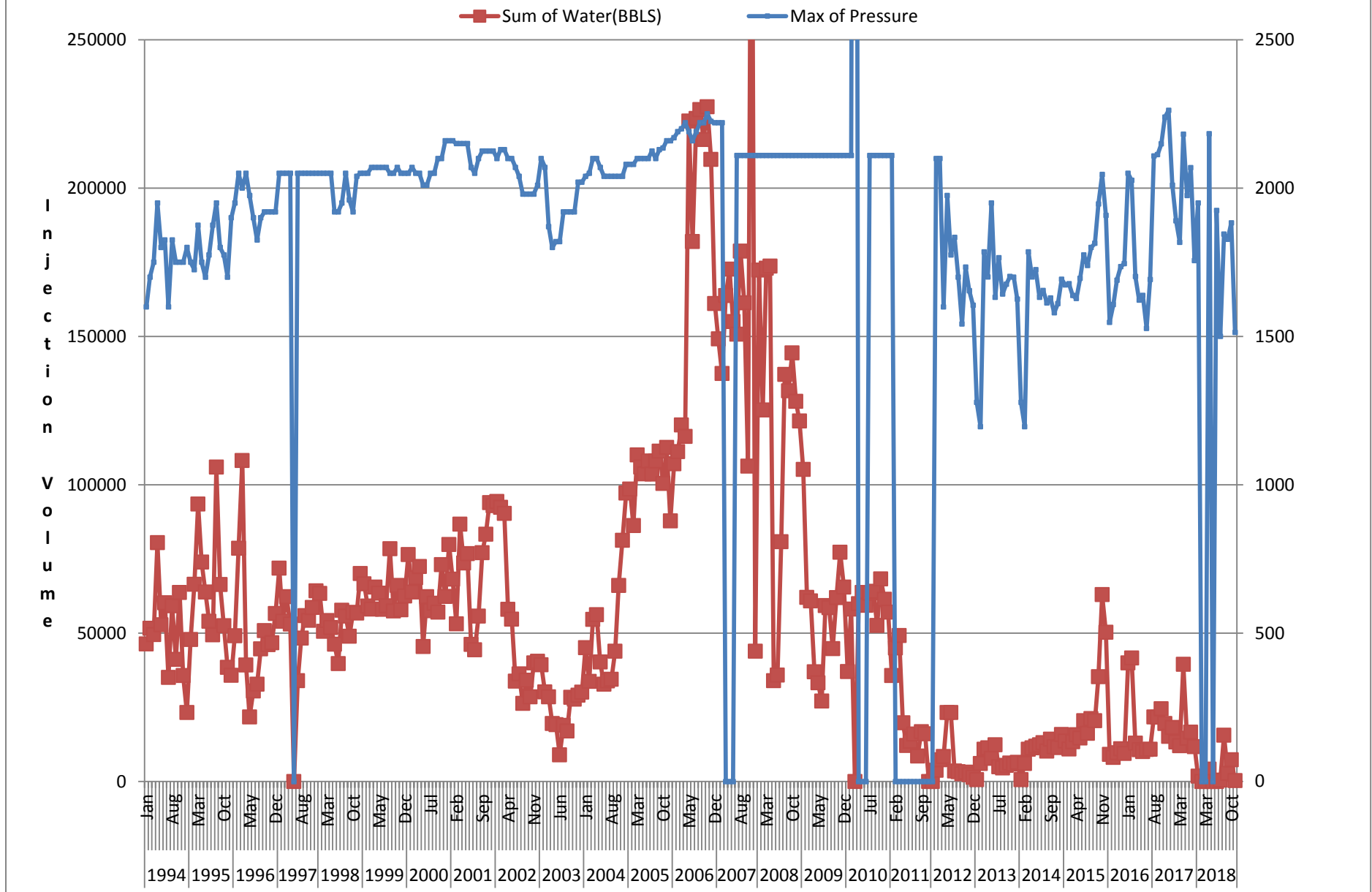


Figure 9 Injection and Pressure Plot

	WH	AP	
1/1/18	2100	0	
1/2/18	2150		
1/3/18	2100		
1/4/18	200		
1/5/18	200		
1/6/18			
1/7/18			
1/8/18	1850		
1/9/18	1850		
1/10/18	1850		
1/11/18	1850		
1/12/18	2200		
1/13/18			
1/14/18			
1/15/18	2200		
1/16/18	2100		
1/17/18			
1/18/18			
1/19/18			
1/20/18			
1/21/18			
1/22/18			
1/23/18			
1/24/18			
1/25/18			
1/26/18			
1/27/18			
1/28/18			
1/29/18			
1/30/18			
1/31/18			
1720.833	0	0	AVG
200	0	0	MIN
2200	0	0	MAX

	WH	AP	
2/1/18	0	0	
2/2/18			
2/3/18			
2/4/18			
2/5/18			
2/6/18			
2/7/18			
2/8/18			
2/9/18			
2/10/18			
2/11/18			
2/12/18			
2/13/18			
2/14/18			
2/15/18			
2/16/18			
2/17/18			
2/18/18			
2/19/18			
2/20/18			
2/21/18			
2/22/18			
2/23/18			
2/24/18			
2/25/18			
2/26/18			
2/27/18			
2/28/18			
0	0	0	AVG
0	0	0	MIN
0	0	0	MAX

	WH	AP	
3/1/18	0	0	
3/2/18			
3/3/18			
3/4/18			
3/5/18			
3/6/18			
3/7/18			
3/8/18			
3/9/18			
3/10/18			
3/11/18			
3/12/18			
3/13/18			
3/14/18			
3/15/18			
3/16/18			
3/17/18			
3/18/18			
3/19/18			
3/20/18			
3/21/18			
3/22/18			
3/23/18			
3/24/18			
3/25/18			
3/26/18			
3/27/18			
3/28/18			
3/29/18			
3/30/18			
3/31/18			
0	0	0	AVG
0	0	0	MIN
0	0	0	MAX

	WH	AP	
4/1/18		0	
4/2/18			
4/3/18			
4/4/18	2200		
4/5/18	2200		
4/6/18	2150		
4/7/18			
4/8/18			
4/9/18			
4/10/18			
4/11/18			
4/12/18			
4/13/18			
4/14/18			
4/15/18			
4/16/18			
4/17/18			
4/18/18			
4/19/18			
4/20/18			
4/21/18			
4/22/18			
4/23/18			
4/24/18			
4/25/18			
4/26/18			
4/27/18			
4/28/18			
4/29/18			
4/30/18			
2183.333	0	0	AVG
2150	0	0	MIN
2200	0	0	MAX

	WH	AP	
5/1/18	0	0	
5/2/18			
5/3/18			
5/4/18			
5/5/18			
5/6/18			
5/7/18			
5/8/18			
5/9/18			
5/10/18			
5/11/18			
5/12/18			
5/13/18			
5/14/18			
5/15/18			
5/16/18			
5/17/18			
5/18/18			
5/19/18			
5/20/18			
5/21/18			
5/22/18			
5/23/18			
5/24/18			
5/25/18			
5/26/18			
5/27/18			
5/28/18			
5/29/18			
5/30/18			
5/31/18			
0	0	0	AVG
0	0	0	MIN
0	0	0	MAX

	WH	AP	
6/1/18		0	
6/2/18			
6/3/18			
6/4/18	1925		
6/5/18			
6/6/18			
6/7/18			
6/8/18			
6/9/18			
6/10/18			
6/11/18			
6/12/18			
6/13/18			
6/14/18			
6/15/18			
6/16/18			
6/17/18			
6/18/18			
6/19/18			
6/20/18			
6/21/18			
6/22/18			
6/23/18			
6/24/18			
6/25/18			
6/26/18			
6/27/18			
6/28/18			
6/29/18			
6/30/18			
1925	0	0	AVG
1925	0	0	MIN
1925	0	0	MAX

	WH	AP	
7/1/18	1500	0	
7/2/18			
7/3/18			
7/4/18			
7/5/18			
7/6/18			
7/7/18			
7/8/18			
7/9/18			
7/10/18			
7/11/18			
7/12/18			
7/13/18			
7/14/18			
7/15/18			
7/16/18			
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7/22/18			
7/23/18			
7/24/18			
7/25/18			
7/26/18			
7/27/18			
7/28/18			
7/29/18			
7/30/18			
7/31/18			
1500	0	0	AVG
1500	0	0	MIN
1500	0	0	MAX

Quarterly
 Injection Report

	Average Pressure (psig)	Maximum Pressure (psig)	Minimum Pressure (psig)	Average Flow (gpm)	Maxium Flow (gpm)	Minimum Flow (gpm)	Average Annular Pressure (psig)	Maximum Annular Pressure (psig)	Minimum Annular Pressure (psig)	Average Volume (bpd)	Maximum Volume (bpd)	Minimum Volume (bpd)	Volume (barrels)	Total Cumulative Volume (barrels)
Jan-2018	1720.833	2200	200	13.20520833	19.36666667	3.73333333	0	0	0	452.75	664	128	1811	14891018
Feb-2018	0	0	0	0	0	0	0	0	0	0	0	0	0	14892829
Mar-2018	0	0	0	0	0	0	0	0	0	0	0	0	0	14892829
														14892829
														Previous year
Apr-2018	2183.333	2200	2150	40.04583333	53.2	19.979167	0	0	0	1373	1824	685	4119	14896948
May-2018	0	0	0	0	0	0	0	0	0	0	0	0	0	14896948
Jun-2018	1925	1925	1925	2.916666667	2.916666667	2.91666667	0	0	0	100	100	100	100	14897048
														14897048
														Previous Quarter
Jul-18	1500	1500	1500	13.65	13.65	13.65	0	0	0	468	468	468	468	14897516
Aug-18	1932.5	2300	1500	16.01483333	62.125	0	0	0	0	1115.857143	2130	210	15622	14913138
Sep-18	1828.125	2200	1500	3.345833333	34.70833333	0	0	0	0	389.8571429	1190	60	2729	14915867
														14915867
														Previous Quarter
Oct-2018	1883.333	2250	1450	53.38958333	95.9875	10.966667	0	0	0	1830.5	3291	376	7322	14923189
Nov-2018	1514.286	1800	1400	4.010416667	4.9875	3.0333333	0	0	0	137.5	171	104	275	14923464
Dec-2018	#DIV/0!	0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	14923464
														14923464
														Total for year
														32446
														14955910
														Life Of well injected

**2018 AREA OF REVIEW
UNIT LETTERS ENCOMPASSED BY THE 2-MILE AOR**

Sec	TWN	RNG	UL	
1	29N	12W	ALL	
2	29N	12W	ALL	
3	29N	12W	ALL	
4	29N	12W	ACFJKNP	
9	29N	12W	ABH	
10	29N	12W	ABCDIJN	
11	29N	12W	ACDGHILOP	
12	29N	12W	AEFKM	
25	30N	12W	EMN	
26	30N	12W	FGLNOP	
27	30N	12W	LMP	
28	30N	12W	O	
33	30N	12W	GHIJK	
34	30N	12W	ALL	
35	30N	12W	ALL	
36	30N	12W	AEIMN	

Radius expanded to 2 miles for permit renewal requirements.

6 Wells were Plugged & Abandoned since last AOR 2017.

30-045-30486	MCGRATH SRC	#001R	Burlington	Gas	Private	Plugged	2	29N	12W	J	3/23/2001	2235												6/25/2010
30-045-08797	Pre-Ongard		Southland	Gas	Private	Plugged	2	29n	12w	g	4/14/1948	2125												2/23/1984
30-045-27635	PRE-ONGARD WELL	#500		Gas	Federal	Plugged	2	29N	12W	M														12/31/1901
30-045-08839	YOUNG	#001	HilCorp	Gas	Private	Active	2	29N	12W	D	8/1/1961	6740	8.625	307	275 surf				4.5	6739	700 surf	6446-6644		
30-045-08709	MCGRATH	#003	Burlington	Gas	Private	Plugged	3	29N	12W	J	3/4/1945	2040												3/1/2013
30-045-33580	MCGRATH	#003S	HilCorp	Gas	Private	Active	3	29N	12W	B	7/13/2007	2132	7	218	150 surf				4.5	2112	289 surf	1692-1904		
30-045-08712	MCGRATH A	#001	HilCorp	Gas	Private	Active	3	29N	12W	I	3/14/1964	6689	8.625	307	250 surf				4.5	6688	500 surf	6432-6524		
30-045-08711	Pre-Ongard		Union Texas	Gas	Private	Plugged	3	29N	12W	K	6/25/1955	1940												11/10/1964
30-045-32931	WALKER	#100S	HilCorp	Gas	Private	Active	3	29N	12W	F	8/14/2005	2120	7	144	61 surf				4.5	2117	238 surf	1621-1885		
30-045-08801	WALKER 1	#001	HilCorp	Gas	Private	Active	3	29N	12W	E	4/12/1960	6620	8.625	232	150 surf				4.5	6620	300 surf	6546-6556		
30-045-30244	WALKER 100	#100	HilCorp	Gas	Private	TA'd	3	29N	12W	L	3/30/2001	1948	7	126	140-168				4.5	1940	219-399	1659-1872	1597 CIBP@1609	Tad
30-045-60274	WALKER 2	#002	Burlington	Gas	Private	Plugged	3	29N	12W	D	1/8/1945	1974												7/24/1998
30-045-08823	Walker SRC	1	Burlington	Gas	Private	Plugged	3	29N	12W	G	2/25/1943	2050												10/12/2009
30-045-08720	DEVONIAN FEDERAL	#001	Holcomb Oil & Gas	Gas	Federal	Active	4	29N	12W	K	6/23/1959	6538												
30-045-08804	FEDERAL	#001	Riggs Oil & Gas	Gas	Federal	Plugged	4	29N	12W	F	5/29/1959	1856												2/9/2017
30-045-24552	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Federal	Plugged	4	29N	12W	A	5/29/1981	0												12/7/1995
30-045-29117	RIGGS	#001	Enduring Resources	Gas	Private	Active	4	29N	12W	A	6/24/1994	1900												
30-045-29118	RIGGS	#002	Enduring Resources	Gas	Private	Active	4	29N	12W	N	6/28/1994	1890												
30-045-32239	RIGGS	#003	Enduring Resources	Gas	Private	Active	4	29N	12W	C	2/21/2005	1906												
30-045-32312	RIGGS	#004	Enduring Resources	Gas	Private	Active	4	29N	12W	P	3/20/2005	2002												
30-045-08718	STANDARD	#001	HilCorp	Gas	Federal	Active	4	29N	12W	J	11/3/1960	6600	8.625	236	175 surf				4.5	6600	250 surf	6356-6510		
30-045-08586	FLORANCE GAS COM B	#001	BP America	Gas	Federal	Active	9	29N	12W	H	1/20/1964	6470												
30-045-26855	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Private	Plugged	9	29N	12W	B	3/18/1988	0												3/9/1989
30-045-28824	ROPCO FEE FC 9	#002	HilCorp	Gas	Private	Active	9	29N	12W	A	11/25/1992	1975												
30-045-34452	BECK 29 12 10	#108	Synergy	Gas	Federal	Active	10	29N	12W	N	2/21/2008	1865												
30-045-23889	BECK A	#001E	HilCorp	Gas	Federal	Active	10	29N	12W	B	1/5/1981	6514	8.625	240	150 surf				4.5	6514	765 surf	6277-6454		

Customer AGUA MOSS, LLC
Street P.O. BOX 600
City/State..... FARMINGTON, NM 87499
Country USA
Service Company TEFTELLER, INC.

Well Name SUNCO DISPOSAL NO. 1
Well Location SAN JUAN COUNTY, NEW MEXICO
Field / Pool MESA VERDE FORMATION
Status (Oil, Gas, Other) DISPOSAL

Test Type INJECTION FALL-OFF TEST

Date of Test 10-2-18
Producing Interval 4350' - 4460'
Recorder Depth 4362'
Recorder Position 4362'
Shut In Date Start: 10-2-2018
Stop: 10-11-2018

Duration: 210 HRS. TANDEM ELEC. MEMORY INST. TIME
Bottom Hole Temperature

Gauge Identification

Gauge Manufacturer MICRO-SMART SYSTEMS
Serial Number 262
Model Number SP2000
Pressure Range
Battery Type
Calibration I.D.
Last Calibration 2/23/18

Gauge Setup Parameters

Probe Set Up Time 10/ 2/18 15:10: 0
Time Delay to First Reading
Test Type Selection INJECTION FALL-OFF TEST
Test Duration Selection 210 HRS. TANDEM ELEC. MEMORY INST. TIME

WELL NAME : SUNCO DISPOSAL NO. 1

DATE : 10/11/18

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F262A11.RED

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.
10/02	15:10:00	.0000	.01	74.35		
10/02	15:16:00	6.0000	.01	73.93	.00	
10/02	15:17:00	7.0000	1245.16	73.84	1245.15	
10/02	15:17:15	7.2500	1250.20	73.80	5.05	PRESSURED UP LUBRICATOR
10/02	15:17:30	7.5000	1266.15	73.50	15.95	
10/02	15:17:45	7.7500	1278.95	73.19	12.80	TRIPPED IN WELL W/TANDEM INSTRUMENTS
10/02	15:18:00	8.0000	1292.17	72.89	13.22	
10/02	15:18:15	8.2500	1307.84	72.59	15.67	
10/02	15:18:30	8.5000	1324.37	72.29	16.53	
10/02	15:18:45	8.7500	1343.34	71.98	18.98	
10/02	15:19:00	9.0000	1366.06	71.68	22.71	
10/02	15:19:15	9.2500	1388.34	71.38	22.28	
10/02	15:19:30	9.5000	1409.91	71.08	21.57	
10/02	15:19:45	9.7500	1430.19	70.77	20.28	
10/02	15:20:00	10.0000	1452.19	70.47	22.00	
10/02	15:20:15	10.2500	1474.43	70.02	22.23	
10/02	15:20:30	10.5000	1495.99	69.75	21.56	
10/02	15:20:45	10.7500	1518.71	69.47	22.72	
10/02	15:21:00	11.0000	1546.46	69.20	27.75	
10/02	15:21:15	11.2500	1575.65	68.92	29.19	
10/02	15:21:30	11.5000	1606.86	68.64	31.21	
10/02	15:21:45	11.7500	1635.20	68.37	28.33	
10/02	15:22:00	12.0000	1656.06	68.10	20.87	
10/02	15:22:15	12.2500	1675.78	67.82	19.71	
10/02	15:22:30	12.5000	1695.35	67.55	19.57	
10/02	15:22:45	12.7500	1716.23	67.27	20.88	
10/02	15:23:00	13.0000	1738.11	66.99	21.89	
10/02	15:23:15	13.2500	1759.12	66.97	21.01	
10/02	15:23:30	13.5000	1781.84	67.20	22.72	
10/02	15:23:45	13.7500	1805.57	67.43	23.73	
10/02	15:24:00	14.0000	1828.87	67.65	23.30	
10/02	15:24:15	14.2500	1849.29	67.88	20.42	
10/02	15:24:30	14.5000	1867.55	68.11	18.26	
10/02	15:24:45	14.7500	1886.68	68.33	19.13	
10/02	15:25:00	15.0000	1907.66	68.56	20.99	
10/02	15:25:15	15.2500	1927.79	68.79	20.13	
10/02	15:25:30	15.5000	1948.49	69.01	20.71	
10/02	15:25:45	15.7500	1968.76	69.24	20.27	
10/02	15:26:00	16.0000	1990.03	69.47	21.27	
10/02	15:26:15	16.2500	2013.46	69.90	23.43	
10/02	15:26:30	16.5000	2033.60	70.54	20.14	
10/02	15:26:45	16.7500	2058.19	71.17	24.59	
10/02	15:27:00	17.0000	2082.78	71.80	24.59	
10/02	15:27:15	17.2500	2100.46	72.43	17.68	
10/02	15:27:30	17.5000	2116.84	73.07	16.38	
10/02	15:27:45	17.7500	2134.07	73.71	17.24	
10/02	15:28:00	18.0000	2153.33	74.34	19.25	
10/02	15:28:15	18.2500	2173.29	74.97	19.97	
10/02	15:28:30	18.5000	2193.25	75.61	19.96	
10/02	15:28:45	18.7500	2209.61	76.24	16.37	
10/02	15:29:00	19.0000	2224.10	76.88	14.49	
10/02	15:29:15	19.2500	2242.21	77.68	18.11	
10/02	15:29:30	19.5000	2256.84	78.52	14.63	
10/02	15:29:45	19.7500	2273.76	79.36	16.92	
10/02	15:30:00	20.0000	2295.56	80.21	21.80	
10/02	15:30:15	20.2500	2317.21	81.04	21.65	
10/02	15:30:30	20.5000	2338.84	81.89	21.63	
10/02	15:30:45	20.7500	2360.47	82.73	21.63	
10/02	15:31:00	21.0000	2382.38	83.57	21.91	
10/02	15:31:15	21.2500	2404.86	84.42	22.48	
10/02	15:31:30	21.5000	2427.90	85.26	23.05	
10/02	15:31:45	21.7500	2450.66	86.10	22.75	
10/02	15:32:00	22.0000	2474.83	86.95	24.17	
10/02	15:32:15	22.2500	2498.26	87.82	23.43	
10/02	15:32:30	22.5000	2522.23	88.73	23.97	

WELL NAME : SUNCO DISPOSAL NO. 1

DATE : 10/11/18

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F262A11.RED

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.
10/02	15:32:45	22.7500	2550.62	89.65	28.39	
10/02	15:33:00	23.0000	2582.03	90.55	31.41	
10/02	15:33:15	23.2500	2608.83	91.46	26.81	
10/02	15:33:30	23.5000	2635.91	92.38	27.07	
10/02	15:33:45	23.7500	2662.69	93.29	26.78	
10/02	15:34:00	24.0000	2686.46	94.20	23.77	
10/02	15:34:15	24.2500	2712.22	95.11	25.76	
10/02	15:34:30	24.5000	2736.40	96.02	24.19	
10/02	15:34:45	24.7500	2760.14	96.94	23.73	
10/02	15:35:00	25.0000	2784.30	97.86	24.16	
10/02	15:35:15	25.2500	2810.60	98.76	26.30	
10/02	15:35:30	25.5000	2830.23	99.59	19.63	
10/02	15:35:45	25.7500	2848.71	100.42	18.48	
10/02	15:36:00	26.0000	2866.18	101.25	17.47	
10/02	15:36:15	26.2500	2884.22	102.08	18.04	
10/02	15:36:30	26.5000	2901.96	102.91	17.74	
10/02	15:36:45	26.7500	2921.83	103.75	19.87	
10/02	15:37:00	27.0000	2942.28	104.58	20.45	
10/02	15:37:15	27.2500	2964.00	105.41	21.72	
10/02	15:37:30	27.5000	2987.01	106.24	23.00	
10/02	15:37:45	27.7500	3010.14	107.08	23.13	
10/02	15:38:00	28.0000	3029.99	107.90	19.85	
10/02	15:38:15	28.2500	3049.23	108.75	19.25	
10/02	15:38:30	28.5000	3069.53	109.21	20.30	
10/02	15:38:45	28.7500	3088.97	109.68	19.44	
10/02	15:39:00	29.0000	3108.12	110.14	19.14	
10/02	15:39:15	29.2500	3126.69	110.60	18.58	
10/02	15:39:30	29.5000	3141.55	111.06	14.86	
10/02	15:40:00	30.0000	3159.84	111.98	18.29	
10/02	15:40:15	30.2500	3167.13	112.44	7.29	TANDEM INST. @ 4362'
10/02	15:43:15	33.2500	3169.89	109.33	2.76	
10/02	15:45:00	35.0000	3168.61	106.02	-1.27	
10/02	15:47:00	37.0000	3168.01	102.73	-.61	
10/02	15:50:30	40.5000	3167.27	99.72	-.74	
10/02	16:16:00	66.0000	3166.65	97.12	-.62	
10/02	16:42:00	92.0000	3166.53	96.93	-.12	
10/02	17:08:00	118.0000	3166.48	96.90	-.05	
10/02	17:34:00	144.0000	3166.48	96.89	-.01	
10/02	18:00:00	170.0000	3166.40	96.89	-.08	
10/02	18:26:00	196.0000	3166.34	96.88	-.06	
10/02	18:52:00	222.0000	3166.28	96.88	-.06	
10/02	19:18:00	248.0000	3166.25	96.89	-.03	
10/02	19:44:00	274.0000	3166.23	96.88	-.02	
10/02	20:10:00	300.0000	3166.14	96.89	-.09	
10/02	20:36:00	326.0000	3166.11	96.89	-.03	
10/02	21:02:00	352.0000	3166.01	96.89	-.09	
10/02	21:28:00	378.0000	3166.02	96.89	.01	
10/02	21:54:00	404.0000	3165.93	96.89	-.09	
10/02	22:20:00	430.0000	3165.90	96.89	-.03	
10/02	22:46:00	456.0000	3165.85	96.89	-.04	
10/02	23:12:00	482.0000	3165.79	96.90	-.07	
10/02	23:38:00	508.0000	3165.75	96.90	-.04	
10/03	00:04:00	534.0000	3165.64	96.90	-.10	
10/03	00:30:00	560.0000	3165.59	96.90	-.05	
10/03	00:56:00	586.0000	3165.57	96.90	-.02	
10/03	01:22:00	612.0000	3165.55	96.90	-.02	
10/03	01:48:00	638.0000	3165.43	96.90	-.12	
10/03	02:14:00	664.0000	3165.38	96.90	-.04	
10/03	02:40:00	690.0000	3165.32	96.90	-.07	
10/03	03:06:00	716.0000	3165.26	96.90	-.05	
10/03	03:32:00	742.0000	3165.20	96.90	-.07	
10/03	03:58:00	768.0000	3165.14	96.90	-.06	
10/03	04:24:00	794.0000	3165.02	96.90	-.12	
10/03	04:50:00	820.0000	3164.98	96.90	-.04	
10/03	05:16:00	846.0000	3164.90	96.90	-.08	

WELL NAME : SUNCO DISPOSAL NO. 1

DATE : 10/11/18

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F262A11.RED

Date MM/DD	Time hh:mm:ss	Test Time mmmmmmmm.mmmmm	Pressure Paig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
10/03	05:42:00	872.0000	3164.86	96.90	-.03	
10/03	06:08:00	898.0000	3164.80	96.89	-.06	
10/03	06:34:00	924.0000	3164.72	96.90	-.08	
10/03	07:00:00	950.0000	3164.60	96.90	-.12	
10/03	07:26:00	976.0000	3164.56	96.90	-.04	
10/03	07:52:00	1002.0000	3164.41	96.90	-.15	
10/03	08:18:00	1028.0000	3164.53	96.90	.12	
10/03	08:44:00	1054.0000	3164.41	96.92	-.13	
10/03	09:10:00	1080.0000	3164.28	96.88	-.13	
10/03	09:25:00	1095.0000	3164.24	96.90	-.04	
10/03	09:26:00	1096.0000	3246.62	96.90	82.38	BEGAN INJECTION
10/03	09:26:15	1096.2500	3271.53	96.90	24.91	
10/03	09:26:30	1096.5000	3288.45	97.51	16.91	
10/03	09:26:45	1096.7500	3300.49	98.12	12.04	
10/03	09:27:00	1097.0000	3313.80	98.74	13.32	
10/03	09:27:15	1097.2500	3325.98	99.35	12.18	
10/03	09:27:45	1097.7500	3345.59	100.58	19.61	
10/03	09:28:00	1098.0000	3350.32	101.19	4.73	
10/03	09:28:45	1098.7500	3365.62	103.03	15.30	
10/03	09:29:00	1099.0000	3371.62	103.65	6.00	
10/03	09:30:00	1100.0000	3390.68	106.33	19.06	
10/03	09:30:15	1100.2500	3395.10	106.94	4.42	
10/03	09:31:30	1101.5000	3413.92	109.97	18.82	
10/03	09:33:15	1103.2500	3433.17	111.92	19.25	
10/03	09:33:30	1103.5000	3435.64	112.03	2.46	
10/03	09:35:45	1105.7500	3454.23	112.29	18.59	
10/03	09:36:00	1106.0000	3456.24	112.13	2.01	
10/03	09:38:15	1108.2500	3474.33	110.72	18.09	
10/03	09:38:30	1108.5000	3476.42	110.47	2.09	
10/03	09:41:45	1111.7500	3486.73	107.33	10.31	
10/03	09:45:00	1115.0000	3501.21	104.18	14.48	
10/03	09:48:30	1118.5000	3515.84	101.11	14.63	
10/03	09:52:30	1122.5000	3530.83	98.03	14.99	
10/03	09:57:15	1127.2500	3545.75	95.02	14.92	
10/03	10:03:15	1133.2500	3563.28	91.99	17.53	
10/03	10:10:45	1140.7500	3582.79	89.15	19.51	
10/03	10:11:00	1141.0000	3583.36	89.07	.57	
10/03	10:19:45	1149.7500	3602.93	86.78	19.56	
10/03	10:20:00	1150.0000	3603.42	86.72	.49	
10/03	10:30:45	1160.7500	3623.07	84.86	19.66	
10/03	10:31:00	1161.0000	3623.48	84.82	.40	
10/03	10:44:30	1174.5000	3643.19	83.36	19.71	
10/03	10:44:45	1174.7500	3643.48	83.34	.29	
10/03	11:05:45	1195.7500	3663.43	82.13	19.95	
10/03	11:06:00	1196.0000	3663.62	82.13	.19	
10/03	11:28:45	1218.7500	3683.56	81.46	19.95	
10/03	11:29:00	1219.0000	3683.77	81.46	.21	
10/03	11:53:00	1243.0000	3703.15	81.03	19.38	
10/03	11:54:00	1244.0000	3703.96	81.01	.81	
10/03	12:20:00	1270.0000	3721.99	80.71	18.04	
10/03	12:46:00	1296.0000	3736.65	80.50	14.65	
10/03	13:12:00	1322.0000	3749.24	80.33	12.59	
10/03	13:38:00	1348.0000	3760.74	80.18	11.50	
10/03	14:04:00	1374.0000	3771.48	80.07	10.74	
10/03	14:30:00	1400.0000	3779.96	80.00	8.48	
10/03	14:56:00	1426.0000	3788.03	79.99	8.07	
10/03	15:22:00	1452.0000	3795.27	80.01	7.24	
10/03	15:48:00	1478.0000	3802.24	80.07	6.97	
10/03	16:14:00	1504.0000	3808.72	80.13	6.48	
10/03	16:40:00	1530.0000	3814.37	80.18	5.65	
10/03	17:06:00	1556.0000	3820.03	80.25	5.66	
10/03	17:32:00	1582.0000	3825.46	80.31	5.43	
10/03	17:58:00	1608.0000	3830.75	80.35	5.30	
10/03	18:24:00	1634.0000	3835.23	80.34	4.47	
10/03	18:50:00	1660.0000	3839.45	80.30	4.22	

WELL NAME : SUNCO DISPOSAL NO. 1

DATE : 10/11/18

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F262A11.RED

Date	Time	Test Time	Pressure	Temp	deltap	Comment
MM/DD	hh:mm:ss	mmmmmmmm.mmmmm	Psig	Deg F	Psi	Ga. Press Ref. to 14.7 Psi Atm.
10/03	19:16:00	1686.0000	3843.75	80.25	4.30	
10/03	19:42:00	1712.0000	3847.86	80.23	4.11	
10/03	20:08:00	1738.0000	3852.03	80.23	4.18	
10/03	20:34:00	1764.0000	3855.70	80.26	3.66	
10/03	21:00:00	1790.0000	3859.44	80.28	3.74	
10/03	21:26:00	1816.0000	3862.85	80.28	3.41	
10/03	21:52:00	1842.0000	3866.41	80.27	3.56	
10/03	22:18:00	1868.0000	3869.96	80.23	3.55	
10/03	22:44:00	1894.0000	3873.33	80.18	3.37	
10/03	23:10:00	1920.0000	3876.59	80.14	3.25	
10/03	23:36:00	1946.0000	3879.65	80.10	3.07	
10/04	00:02:00	1972.0000	3882.57	80.06	2.92	
10/04	00:28:00	1998.0000	3885.33	80.02	2.76	
10/04	00:54:00	2024.0000	3887.86	79.97	2.53	
10/04	01:20:00	2050.0000	3890.37	79.93	2.51	
10/04	01:46:00	2076.0000	3892.72	79.86	2.35	
10/04	02:12:00	2102.0000	3894.98	79.79	2.27	
10/04	02:38:00	2128.0000	3897.00	79.71	2.02	
10/04	03:04:00	2154.0000	3899.11	79.63	2.11	
10/04	03:30:00	2180.0000	3901.09	79.56	1.98	
10/04	03:56:00	2206.0000	3902.87	79.46	1.78	
10/04	04:22:00	2232.0000	3905.08	79.38	2.21	
10/04	04:48:00	2258.0000	3907.00	79.29	1.92	
10/04	05:14:00	2284.0000	3908.77	79.21	1.77	
10/04	05:40:00	2310.0000	3910.45	79.12	1.67	
10/04	06:06:00	2336.0000	3912.10	79.03	1.66	
10/04	06:32:00	2362.0000	3913.76	78.92	1.66	
10/04	06:58:00	2388.0000	3915.41	78.82	1.65	
10/04	07:24:00	2414.0000	3917.00	78.73	1.59	
10/04	07:50:00	2440.0000	3918.59	78.63	1.59	
10/04	08:16:00	2466.0000	3920.16	78.54	1.56	
10/04	08:42:00	2492.0000	3921.58	78.46	1.43	
10/04	09:08:00	2518.0000	3923.00	78.41	1.42	
10/04	09:34:00	2544.0000	3924.32	78.38	1.32	
10/04	10:00:00	2570.0000	3925.59	78.36	1.27	
10/04	10:26:00	2596.0000	3926.99	78.37	1.40	
10/04	10:52:00	2622.0000	3928.32	78.42	1.33	
10/04	11:18:00	2648.0000	3929.67	78.47	1.34	
10/04	11:44:00	2674.0000	3930.91	78.53	1.24	
10/04	12:10:00	2700.0000	3932.13	78.58	1.22	
10/04	12:36:00	2726.0000	3933.57	78.62	1.44	
10/04	13:02:00	2752.0000	3934.87	78.67	1.30	
10/04	13:28:00	2778.0000	3936.21	78.73	1.33	
10/04	13:54:00	2804.0000	3937.58	78.81	1.37	
10/04	14:20:00	2830.0000	3939.03	78.89	1.45	
10/04	14:46:00	2856.0000	3940.47	78.98	1.44	
10/04	15:12:00	2882.0000	3941.84	79.10	1.38	
10/04	15:38:00	2908.0000	3943.25	79.21	1.40	
10/04	16:04:00	2934.0000	3944.54	79.32	1.29	
10/04	16:30:00	2960.0000	3945.89	79.44	1.35	
10/04	16:56:00	2986.0000	3947.23	79.55	1.34	
10/04	17:22:00	3012.0000	3948.52	79.65	1.29	
10/04	17:48:00	3038.0000	3949.87	79.72	1.35	
10/04	18:14:00	3064.0000	3951.17	79.79	1.30	
10/04	18:40:00	3090.0000	3952.44	79.83	1.27	
10/04	19:06:00	3116.0000	3953.70	79.83	1.27	
10/04	19:32:00	3142.0000	3954.77	79.81	1.07	
10/04	19:58:00	3168.0000	3955.83	79.74	1.06	
10/04	20:24:00	3194.0000	3956.76	79.65	.93	
10/04	20:50:00	3220.0000	3957.65	79.56	.89	
10/04	21:16:00	3246.0000	3958.30	79.44	.65	
10/04	21:42:00	3272.0000	3959.21	79.32	.91	
10/04	22:08:00	3298.0000	3959.98	79.21	.77	
10/04	22:34:00	3324.0000	3960.56	79.12	.58	
10/04	23:00:00	3350.0000	3961.31	79.02	.75	

WELL NAME : SUNCO DISPOSAL NO. 1

DATE : 10/11/18

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F262A11.RED

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.
10/04	23:26:00	3376.0000	3961.95	78.93	.64	
10/04	23:52:00	3402.0000	3962.63	78.86	.68	
10/05	00:18:00	3428.0000	3963.26	78.80	.63	
10/05	00:44:00	3454.0000	3963.91	78.70	.64	
10/05	01:10:00	3480.0000	3964.35	78.61	.45	
10/05	01:36:00	3506.0000	3964.86	78.49	.51	
10/05	02:02:00	3532.0000	3972.52	78.40	7.66	
10/05	02:28:00	3558.0000	3975.41	78.30	2.89	
10/05	02:54:00	3584.0000	3977.28	78.20	1.87	
10/05	03:20:00	3610.0000	3978.61	78.10	1.34	
10/05	03:46:00	3636.0000	3979.73	78.01	1.12	
10/05	04:12:00	3662.0000	3980.74	77.93	1.01	
10/05	04:38:00	3688.0000	3981.65	77.85	.90	
10/05	05:04:00	3714.0000	3982.50	77.75	.86	
10/05	05:30:00	3740.0000	3983.31	77.65	.81	
10/05	05:56:00	3766.0000	3983.94	77.55	.63	
10/05	06:22:00	3792.0000	3984.55	77.46	.62	
10/05	06:48:00	3818.0000	3985.14	77.36	.58	
10/05	07:14:00	3844.0000	3985.61	77.26	.47	
10/05	07:40:00	3870.0000	3986.05	77.16	.44	
10/05	08:06:00	3896.0000	3986.55	77.04	.50	
10/05	08:32:00	3922.0000	3987.12	76.94	.57	
10/05	08:58:00	3948.0000	3987.68	76.86	.56	
10/05	09:24:00	3974.0000	3988.16	76.83	.48	
10/05	09:50:00	4000.0000	3988.70	76.83	.54	
10/05	10:16:00	4026.0000	3989.09	76.87	.39	
10/05	10:42:00	4052.0000	3989.41	76.98	.32	
10/05	11:08:00	4078.0000	3989.51	77.11	.10	
10/05	11:34:00	4104.0000	3989.66	77.21	.15	
10/05	12:00:00	4130.0000	3989.86	77.29	.20	
10/05	12:05:15	4135.2500	3970.18	77.34	-19.68	END INJECTION - BEGAN FALL-OFF
10/05	12:05:30	4135.5000	3969.46	77.34	-.72	
10/05	12:16:15	4146.2500	3949.66	78.21	-19.80	
10/05	12:16:30	4146.5000	3949.14	78.24	-.52	
10/05	12:33:15	4163.2500	3929.34	79.58	-19.79	
10/05	12:33:30	4163.5000	3929.14	79.60	-.21	
10/05	12:54:45	4184.7500	3909.22	80.57	-19.92	
10/05	12:55:00	4185.0000	3909.04	80.58	-.18	
10/05	13:21:00	4211.0000	3889.61	81.34	-19.43	
10/05	13:47:00	4237.0000	3873.07	81.99	-16.53	
10/05	14:13:00	4263.0000	3858.24	82.60	-14.84	
10/05	14:39:00	4289.0000	3844.90	83.15	-13.34	
10/05	15:05:00	4315.0000	3832.55	83.64	-12.34	
10/05	15:31:00	4341.0000	3821.19	84.09	-11.37	
10/05	15:57:00	4367.0000	3810.50	84.51	-10.69	
10/05	16:23:00	4393.0000	3800.51	84.88	-9.99	
10/05	16:49:00	4419.0000	3790.87	85.24	-9.64	
10/05	17:15:00	4445.0000	3781.98	85.51	-8.89	
10/05	17:41:00	4471.0000	3773.76	85.76	-8.21	
10/05	18:07:00	4497.0000	3765.56	85.98	-8.21	
10/05	18:33:00	4523.0000	3758.10	86.18	-7.45	
10/05	18:59:00	4549.0000	3750.69	86.37	-7.42	
10/05	19:25:00	4575.0000	3743.92	86.55	-6.76	
10/05	19:51:00	4601.0000	3737.36	86.71	-6.56	
10/05	20:17:00	4627.0000	3731.05	86.88	-6.31	
10/05	20:43:00	4653.0000	3725.06	87.03	-5.99	
10/05	21:09:00	4679.0000	3719.25	87.18	-5.81	
10/05	21:35:00	4705.0000	3713.67	87.30	-5.58	
10/05	22:01:00	4731.0000	3708.35	87.43	-5.31	
10/05	22:27:00	4757.0000	3703.13	87.55	-5.23	
10/05	22:53:00	4783.0000	3698.00	87.67	-5.13	
10/05	23:19:00	4809.0000	3693.09	87.77	-4.91	
10/05	23:45:00	4835.0000	3688.44	87.88	-4.65	
10/06	00:11:00	4861.0000	3683.90	87.98	-4.54	
10/06	00:37:00	4887.0000	3679.50	88.07	-4.40	

WELL NAME : SUNCO DISPOSAL NO. 1

DATE : 10/11/18

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F262A11.RED

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.
10/06	01:03:00	4913.0000	3675.23	88.15	-4.27	
10/06	01:29:00	4939.0000	3671.25	88.24	-3.98	
10/06	01:55:00	4965.0000	3667.06	88.33	-4.19	
10/06	02:21:00	4991.0000	3663.15	88.42	-3.91	
10/06	02:47:00	5017.0000	3659.50	88.43	-3.65	
10/06	03:13:00	5043.0000	3655.70	88.52	-3.81	
10/06	03:39:00	5069.0000	3652.03	88.61	-3.67	
10/06	04:05:00	5095.0000	3648.41	88.67	-3.62	
10/06	04:31:00	5121.0000	3645.23	88.73	-3.18	
10/06	04:57:00	5147.0000	3641.74	88.79	-3.49	
10/06	05:23:00	5173.0000	3638.50	88.85	-3.24	
10/06	05:49:00	5199.0000	3635.10	88.90	-3.39	
10/06	06:15:00	5225.0000	3632.11	88.95	-2.99	
10/06	06:41:00	5251.0000	3629.05	88.99	-3.06	
10/06	07:07:00	5277.0000	3625.93	89.04	-3.12	
10/06	07:33:00	5303.0000	3622.90	89.08	-3.03	
10/06	07:59:00	5329.0000	3620.13	89.13	-2.77	
10/06	08:25:00	5355.0000	3617.34	89.17	-2.79	
10/06	08:51:00	5381.0000	3614.51	89.20	-2.83	
10/06	09:17:00	5407.0000	3611.77	89.24	-2.74	
10/06	09:43:00	5433.0000	3609.05	89.28	-2.72	
10/06	10:09:00	5459.0000	3606.40	89.32	-2.65	
10/06	10:35:00	5485.0000	3603.73	89.34	-2.67	
10/06	11:01:00	5511.0000	3601.14	89.39	-2.60	
10/06	11:27:00	5537.0000	3598.63	89.41	-2.51	
10/06	11:53:00	5563.0000	3596.12	89.44	-2.51	
10/06	12:19:00	5589.0000	3593.63	89.48	-2.48	
10/06	12:45:00	5615.0000	3591.25	89.51	-2.38	
10/06	13:11:00	5641.0000	3588.87	89.54	-2.38	
10/06	13:37:00	5667.0000	3586.48	89.58	-2.39	
10/06	14:03:00	5693.0000	3584.22	89.62	-2.26	
10/06	14:29:00	5719.0000	3581.96	89.65	-2.26	
10/06	14:55:00	5745.0000	3579.75	89.69	-2.21	
10/06	15:21:00	5771.0000	3577.52	89.72	-2.22	
10/06	15:47:00	5797.0000	3575.27	89.75	-2.26	
10/06	16:13:00	5823.0000	3573.14	89.80	-2.12	
10/06	16:39:00	5849.0000	3570.96	89.83	-2.18	
10/06	17:05:00	5875.0000	3568.94	89.86	-2.02	
10/06	17:31:00	5901.0000	3566.86	89.89	-2.09	
10/06	17:57:00	5927.0000	3564.78	89.93	-2.08	
10/06	18:23:00	5953.0000	3562.79	89.96	-1.98	
10/06	18:49:00	5979.0000	3560.75	89.98	-2.04	
10/06	19:15:00	6005.0000	3558.75	90.01	-2.00	
10/06	19:41:00	6031.0000	3556.74	90.04	-2.01	
10/06	20:07:00	6057.0000	3554.78	90.07	-1.96	
10/06	20:33:00	6083.0000	3552.85	90.10	-1.93	
10/06	20:59:00	6109.0000	3550.92	90.12	-1.93	
10/06	21:25:00	6135.0000	3549.03	90.15	-1.89	
10/06	21:51:00	6161.0000	3547.16	90.17	-1.88	
10/06	22:17:00	6187.0000	3545.27	90.19	-1.89	
10/06	22:43:00	6213.0000	3543.46	90.21	-1.81	
10/06	23:09:00	6239.0000	3541.65	90.24	-1.81	
10/06	23:35:00	6265.0000	3539.88	90.27	-1.77	
10/07	00:01:00	6291.0000	3538.08	90.29	-1.81	
10/07	00:27:00	6317.0000	3536.34	90.31	-1.73	
10/07	00:53:00	6343.0000	3534.60	90.34	-1.74	
10/07	01:19:00	6369.0000	3532.98	90.37	-1.62	
10/07	01:45:00	6395.0000	3531.21	90.40	-1.77	
10/07	02:11:00	6421.0000	3529.50	90.42	-1.71	
10/07	02:37:00	6447.0000	3527.84	90.44	-1.66	
10/07	03:03:00	6473.0000	3526.20	90.47	-1.64	
10/07	03:29:00	6499.0000	3524.63	90.48	-1.57	
10/07	03:55:00	6525.0000	3523.00	90.51	-1.63	
10/07	04:21:00	6551.0000	3521.40	90.52	-1.60	
10/07	04:47:00	6577.0000	3519.79	90.55	-1.61	

WELL NAME : SUNCO DISPOSAL NO. 1

DATE : 10/11/18

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F262A11.RED

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.
10/07	05:13:00	6603.0000	3518.25	90.57	-1.54	
10/07	05:39:00	6629.0000	3516.66	90.59	-1.60	
10/07	06:05:00	6655.0000	3515.15	90.61	-1.51	
10/07	06:31:00	6681.0000	3513.60	90.63	-1.55	
10/07	06:57:00	6707.0000	3512.03	90.66	-1.57	
10/07	07:23:00	6733.0000	3510.53	90.68	-1.50	
10/07	07:49:00	6759.0000	3509.01	90.70	-1.52	
10/07	08:15:00	6785.0000	3507.50	90.72	-1.51	
10/07	08:41:00	6811.0000	3505.97	90.75	-1.53	
10/07	09:07:00	6837.0000	3504.49	90.75	-1.48	
10/07	09:33:00	6863.0000	3503.07	90.79	-1.42	
10/07	09:59:00	6889.0000	3501.89	90.80	-1.18	
10/07	10:25:00	6915.0000	3500.52	90.88	-1.37	
10/07	10:51:00	6941.0000	3499.16	90.92	-1.36	
10/07	11:17:00	6967.0000	3497.71	90.92	-1.45	
10/07	11:43:00	6993.0000	3496.33	90.95	-1.38	
10/07	12:09:00	7019.0000	3495.05	90.97	-1.28	
10/07	12:35:00	7045.0000	3493.66	90.99	-1.39	
10/07	13:01:00	7071.0000	3492.32	91.00	-1.33	
10/07	13:27:00	7097.0000	3491.05	91.03	-1.28	
10/07	13:53:00	7123.0000	3489.66	91.05	-1.39	
10/07	14:19:00	7149.0000	3488.38	91.07	-1.29	
10/07	14:45:00	7175.0000	3487.16	91.08	-1.21	
10/07	15:11:00	7201.0000	3485.81	91.10	-1.35	
10/07	15:37:00	7227.0000	3484.60	91.11	-1.21	
10/07	16:03:00	7253.0000	3483.36	91.14	-1.24	
10/07	16:29:00	7279.0000	3482.10	91.14	-1.26	
10/07	16:55:00	7305.0000	3480.89	91.17	-1.22	
10/07	17:21:00	7331.0000	3479.62	91.18	-1.27	
10/07	17:47:00	7357.0000	3478.35	91.20	-1.27	
10/07	18:13:00	7383.0000	3477.16	91.22	-1.19	
10/07	18:39:00	7409.0000	3475.95	91.23	-1.22	
10/07	19:05:00	7435.0000	3474.72	91.25	-1.23	
10/07	19:31:00	7461.0000	3473.45	91.27	-1.27	
10/07	19:57:00	7487.0000	3472.25	91.29	-1.20	
10/07	20:23:00	7513.0000	3471.04	91.32	-1.21	
10/07	20:49:00	7539.0000	3469.91	91.32	-1.13	
10/07	21:15:00	7565.0000	3468.67	91.34	-1.23	
10/07	21:41:00	7591.0000	3467.53	91.35	-1.15	
10/07	22:07:00	7617.0000	3466.36	91.37	-1.17	
10/07	22:33:00	7643.0000	3465.16	91.39	-1.20	
10/07	22:59:00	7669.0000	3464.02	91.41	-1.14	
10/07	23:25:00	7695.0000	3462.91	91.42	-1.11	
10/07	23:51:00	7721.0000	3461.72	91.44	-1.19	
10/08	00:17:00	7747.0000	3460.63	91.45	-1.08	
10/08	00:43:00	7773.0000	3459.53	91.47	-1.11	
10/08	01:09:00	7799.0000	3458.46	91.49	-1.07	
10/08	01:35:00	7825.0000	3457.39	91.50	-1.06	
10/08	02:01:00	7851.0000	3456.31	91.51	-1.08	
10/08	02:27:00	7877.0000	3455.26	91.53	-1.05	
10/08	02:53:00	7903.0000	3454.20	91.54	-1.06	
10/08	03:19:00	7929.0000	3453.16	91.56	-1.04	
10/08	03:45:00	7955.0000	3452.21	91.56	- .95	
10/08	04:11:00	7981.0000	3451.21	91.58	-1.00	
10/08	04:37:00	8007.0000	3450.14	91.61	-1.07	
10/08	05:03:00	8033.0000	3449.12	91.63	-1.01	
10/08	05:29:00	8059.0000	3448.14	91.64	- .99	
10/08	05:55:00	8085.0000	3447.10	91.66	-1.03	
10/08	06:21:00	8111.0000	3446.09	91.67	-1.01	
10/08	06:47:00	8137.0000	3445.13	91.69	- .96	
10/08	07:13:00	8163.0000	3444.11	91.70	-1.02	
10/08	07:39:00	8189.0000	3443.10	91.71	-1.00	
10/08	08:05:00	8215.0000	3442.08	91.72	-1.02	
10/08	08:31:00	8241.0000	3441.06	91.75	-1.02	
10/08	08:57:00	8267.0000	3440.15	91.75	- .91	

WELL NAME : SUNCO DISPOSAL NO. 1

DATE : 10/11/18

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F262A11.RED

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.
10/08	09:23:00	8293.0000	3439.13	91.77	-1.01	
10/08	09:49:00	8319.0000	3438.14	91.79	-1.00	
10/08	10:15:00	8345.0000	3437.15	91.79	-.99	
10/08	10:41:00	8371.0000	3436.20	91.82	-.95	
10/08	11:07:00	8397.0000	3435.26	91.83	-.94	
10/08	11:33:00	8423.0000	3434.29	91.84	-.98	
10/08	11:59:00	8449.0000	3433.40	91.86	-.89	
10/08	12:25:00	8475.0000	3432.60	91.86	-.80	
10/08	12:51:00	8501.0000	3431.64	91.88	-.95	
10/08	13:17:00	8527.0000	3430.73	91.89	-.91	
10/08	13:43:00	8553.0000	3429.79	91.91	-.94	
10/08	14:09:00	8579.0000	3428.95	91.92	-.84	
10/08	14:35:00	8605.0000	3428.01	91.93	-.94	
10/08	15:01:00	8631.0000	3427.19	91.94	-.82	
10/08	15:27:00	8657.0000	3426.31	91.96	-.89	
10/08	15:53:00	8683.0000	3425.46	91.97	-.84	
10/08	16:19:00	8709.0000	3424.57	91.99	-.89	
10/08	16:45:00	8735.0000	3423.72	92.00	-.85	
10/08	17:11:00	8761.0000	3422.94	92.00	-.78	
10/08	17:37:00	8787.0000	3422.11	92.03	-.83	
10/08	18:03:00	8813.0000	3421.22	92.03	-.89	
10/08	18:29:00	8839.0000	3420.42	92.05	-.79	
10/08	18:55:00	8865.0000	3419.54	92.06	-.88	
10/08	19:21:00	8891.0000	3418.73	92.07	-.81	
10/08	19:47:00	8917.0000	3417.83	92.09	-.90	
10/08	20:13:00	8943.0000	3416.96	92.10	-.87	
10/08	20:39:00	8969.0000	3416.16	92.12	-.80	
10/08	21:05:00	8995.0000	3415.29	92.13	-.87	
10/08	21:31:00	9021.0000	3414.50	92.13	-.78	
10/08	21:57:00	9047.0000	3413.67	92.15	-.84	
10/08	22:23:00	9073.0000	3412.80	92.17	-.86	
10/08	22:49:00	9099.0000	3412.03	92.18	-.78	
10/08	23:15:00	9125.0000	3411.23	92.19	-.80	
10/08	23:41:00	9151.0000	3410.38	92.20	-.84	
10/09	00:07:00	9177.0000	3409.58	92.22	-.80	
10/09	00:33:00	9203.0000	3408.75	92.22	-.83	
10/09	00:59:00	9229.0000	3408.00	92.24	-.75	
10/09	01:25:00	9255.0000	3407.23	92.25	-.77	
10/09	01:51:00	9281.0000	3406.46	92.27	-.78	
10/09	02:17:00	9307.0000	3405.67	92.27	-.78	
10/09	02:43:00	9333.0000	3404.96	92.29	-.71	
10/09	03:09:00	9359.0000	3404.23	92.30	-.73	
10/09	03:35:00	9385.0000	3403.48	92.29	-.75	
10/09	04:01:00	9411.0000	3402.75	92.32	-.73	
10/09	04:27:00	9437.0000	3402.06	92.32	-.69	
10/09	04:53:00	9463.0000	3401.27	92.34	-.79	
10/09	05:19:00	9489.0000	3400.52	92.36	-.75	
10/09	05:45:00	9515.0000	3399.83	92.36	-.69	
10/09	06:11:00	9541.0000	3399.10	92.39	-.73	
10/09	06:37:00	9567.0000	3398.34	92.39	-.76	
10/09	07:03:00	9593.0000	3397.62	92.40	-.72	
10/09	07:29:00	9619.0000	3396.87	92.41	-.75	
10/09	07:55:00	9645.0000	3396.19	92.41	-.68	
10/09	08:21:00	9671.0000	3395.42	92.43	-.77	
10/09	08:47:00	9697.0000	3394.71	92.44	-.71	
10/09	09:13:00	9723.0000	3393.94	92.46	-.77	
10/09	09:39:00	9749.0000	3393.24	92.46	-.70	
10/09	10:05:00	9775.0000	3392.50	92.47	-.74	
10/09	10:31:00	9801.0000	3391.84	92.48	-.66	
10/09	10:57:00	9827.0000	3391.10	92.50	-.74	
10/09	11:23:00	9853.0000	3390.35	92.50	-.75	
10/09	11:49:00	9879.0000	3389.67	92.52	-.68	
10/09	12:15:00	9905.0000	3389.00	92.53	-.67	
10/09	12:41:00	9931.0000	3388.32	92.54	-.68	
10/09	13:07:00	9957.0000	3387.71	92.54	-.62	

WELL NAME : SUNCO DISPOSAL NO. 1

DATE : 10/11/18

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F262A11.RED

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.
10/09	13:33:00	9983.0000	3386.99	92.57	-.72	
10/09	13:59:00	10009.0000	3386.27	92.58	-.72	
10/09	14:25:00	10035.0000	3385.66	92.58	-.61	
10/09	14:51:00	10061.0000	3385.01	92.60	-.65	
10/09	15:17:00	10087.0000	3384.38	92.60	-.63	
10/09	15:43:00	10113.0000	3383.76	92.61	-.62	
10/09	16:09:00	10139.0000	3383.15	92.63	-.62	
10/09	16:35:00	10165.0000	3382.51	92.63	-.63	
10/09	17:01:00	10191.0000	3381.90	92.64	-.61	
10/09	17:27:00	10217.0000	3381.27	92.65	-.63	
10/09	17:53:00	10243.0000	3380.66	92.66	-.61	
10/09	18:19:00	10269.0000	3380.04	92.66	-.62	
10/09	18:45:00	10295.0000	3379.43	92.68	-.61	
10/09	19:11:00	10321.0000	3378.80	92.69	-.63	
10/09	19:37:00	10347.0000	3378.20	92.70	-.60	
10/09	20:03:00	10373.0000	3377.56	92.71	-.63	
10/09	20:29:00	10399.0000	3376.95	92.72	-.61	
10/09	20:55:00	10425.0000	3376.29	92.73	-.66	
10/09	21:21:00	10451.0000	3375.68	92.74	-.61	
10/09	21:47:00	10477.0000	3375.06	92.76	-.63	
10/09	22:13:00	10503.0000	3374.44	92.76	-.62	
10/09	22:39:00	10529.0000	3373.83	92.78	-.61	
10/09	23:05:00	10555.0000	3373.22	92.78	-.61	
10/09	23:31:00	10581.0000	3372.62	92.79	-.60	
10/09	23:57:00	10607.0000	3371.99	92.80	-.63	
10/10	00:23:00	10633.0000	3371.40	92.82	-.58	
10/10	00:49:00	10659.0000	3370.81	92.82	-.59	
10/10	01:15:00	10685.0000	3370.25	92.82	-.56	
10/10	01:41:00	10711.0000	3369.69	92.84	-.56	
10/10	02:07:00	10737.0000	3369.06	92.84	-.63	
10/10	02:33:00	10763.0000	3368.53	92.86	-.53	
10/10	02:59:00	10789.0000	3367.99	92.87	-.54	
10/10	03:25:00	10815.0000	3367.43	92.88	-.57	
10/10	03:51:00	10841.0000	3366.91	92.89	-.52	
10/10	04:17:00	10867.0000	3366.33	92.89	-.58	
10/10	04:43:00	10893.0000	3365.80	92.91	-.53	
10/10	05:09:00	10919.0000	3365.25	92.91	-.55	
10/10	05:35:00	10945.0000	3364.75	92.92	-.50	
10/10	06:01:00	10971.0000	3364.07	92.93	-.68	
10/10	06:27:00	10997.0000	3363.56	92.93	-.51	
10/10	06:53:00	11023.0000	3363.16	92.95	-.41	
10/10	07:19:00	11049.0000	3362.86	92.96	-.29	
10/10	07:45:00	11075.0000	3362.25	92.96	-.61	
10/10	08:11:00	11101.0000	3361.60	92.98	-.65	
10/10	08:37:00	11127.0000	3361.11	92.98	-.49	
10/10	09:03:00	11153.0000	3360.53	92.99	-.58	
10/10	09:29:00	11179.0000	3359.98	93.00	-.55	
10/10	09:55:00	11205.0000	3359.47	93.01	-.51	
10/10	10:21:00	11231.0000	3358.89	93.01	-.58	
10/10	10:47:00	11257.0000	3358.33	93.03	-.57	
10/10	11:13:00	11283.0000	3357.81	93.03	-.51	
10/10	11:39:00	11309.0000	3357.33	93.05	-.49	
10/10	12:05:00	11335.0000	3356.78	93.05	-.54	
10/10	12:31:00	11361.0000	3356.24	93.07	-.54	
10/10	12:57:00	11387.0000	3355.79	93.07	-.45	
10/10	13:23:00	11413.0000	3355.25	93.07	-.55	
10/10	13:49:00	11439.0000	3354.76	93.09	-.49	
10/10	14:15:00	11465.0000	3354.22	93.09	-.54	
10/10	14:41:00	11491.0000	3353.72	93.11	-.50	
10/10	15:07:00	11517.0000	3353.24	93.12	-.48	
10/10	15:33:00	11543.0000	3352.73	93.12	-.51	
10/10	15:59:00	11569.0000	3352.31	93.13	-.42	
10/10	16:25:00	11595.0000	3351.78	93.13	-.53	
10/10	16:51:00	11621.0000	3351.31	93.14	-.47	
10/10	17:17:00	11647.0000	3350.88	93.15	-.43	

WELL NAME : SUNCO DISPOSAL NO. 1

DATE : 10/11/18

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F262A11.RED

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.
10/10	17:43:00	11673.0000	3350.34	93.17	-.54	
10/10	18:09:00	11699.0000	3349.87	93.17	-.47	
10/10	18:35:00	11725.0000	3349.39	93.17	-.48	
10/10	19:01:00	11751.0000	3348.99	93.18	-.40	
10/10	19:27:00	11777.0000	3348.48	93.19	-.51	
10/10	19:53:00	11803.0000	3347.98	93.20	-.49	
10/10	20:19:00	11829.0000	3347.54	93.21	-.44	
10/10	20:45:00	11855.0000	3346.98	93.21	-.56	
10/10	21:11:00	11881.0000	3346.53	93.23	-.46	
10/10	21:37:00	11907.0000	3346.06	93.22	-.46	
10/10	22:03:00	11933.0000	3345.60	93.24	-.46	
10/10	22:29:00	11959.0000	3345.11	93.24	-.49	
10/10	22:55:00	11985.0000	3344.63	93.25	-.48	
10/10	23:21:00	12011.0000	3344.16	93.26	-.47	
10/10	23:47:00	12037.0000	3343.62	93.27	-.53	
10/11	00:13:00	12063.0000	3343.19	93.27	-.43	
10/11	00:39:00	12089.0000	3342.74	93.28	-.46	
10/11	01:05:00	12115.0000	3342.30	93.29	-.44	
10/11	01:31:00	12141.0000	3341.87	93.29	-.43	
10/11	01:57:00	12167.0000	3341.39	93.31	-.48	
10/11	02:23:00	12193.0000	3340.97	93.31	-.42	
10/11	02:49:00	12219.0000	3340.52	93.31	-.45	
10/11	03:15:00	12245.0000	3340.05	93.33	-.47	
10/11	03:41:00	12271.0000	3339.67	93.33	-.39	
10/11	04:07:00	12297.0000	3339.21	93.33	-.46	
10/11	04:33:00	12323.0000	3338.83	93.35	-.38	
10/11	04:59:00	12349.0000	3338.33	93.36	-.50	
10/11	05:25:00	12375.0000	3337.97	93.36	-.36	
10/11	05:51:00	12401.0000	3337.57	93.37	-.40	
10/11	06:17:00	12427.0000	3337.13	93.38	-.44	
10/11	06:43:00	12453.0000	3336.72	93.39	-.41	
10/11	07:09:00	12479.0000	3336.25	93.39	-.47	
10/11	07:35:00	12505.0000	3335.87	93.40	-.38	
10/11	08:01:00	12531.0000	3335.51	93.40	-.36	
10/11	08:20:00	12550.0000	3326.01	93.40	-9.50	END FALL-OFF
10/11	08:20:15	12550.2500	3312.85	93.38	-13.17	
10/11	08:20:30	12550.5000	3296.73	94.08	-16.11	
10/11	08:20:45	12550.7500	3280.04	94.79	-16.69	
10/11	08:21:00	12551.0000	3262.50	95.50	-17.55	
10/11	08:21:15	12551.2500	3244.38	96.21	-18.12	
10/11	08:21:30	12551.5000	3226.14	96.91	-18.24	
10/11	08:21:45	12551.7500	3207.74	97.62	-18.39	
10/11	08:22:00	12552.0000	3190.78	98.33	-16.96	
10/11	08:22:15	12552.2500	3177.27	99.04	-13.52	
10/11	08:23:15	12553.2500	3172.54	102.27	-4.72	
10/11	08:24:15	12554.2500	3174.82	105.89	2.28	
10/11	08:25:15	12555.2500	3175.35	109.50	.53	
10/11	08:26:15	12556.2500	3175.81	112.88	.46	STOP @ 4000'
10/11	08:28:00	12558.0000	3177.07	116.13	1.26	
10/11	08:29:45	12559.7500	3157.31	118.58	-19.76	
10/11	08:30:00	12560.0000	3140.07	118.73	-17.25	
10/11	08:30:15	12560.2500	3120.56	118.86	-19.51	
10/11	08:30:30	12560.5000	3096.76	119.00	-23.79	
10/11	08:30:45	12560.7500	3069.26	119.14	-27.51	
10/11	08:31:00	12561.0000	3040.05	119.29	-29.21	
10/11	08:31:15	12561.2500	3007.72	119.42	-32.33	
10/11	08:31:30	12561.5000	2972.53	119.56	-35.19	
10/11	08:31:45	12561.7500	2936.49	119.71	-36.05	
10/11	08:32:00	12562.0000	2897.33	119.84	-39.16	
10/11	08:32:15	12562.2500	2857.97	119.71	-39.36	
10/11	08:32:30	12562.5000	2818.49	119.39	-39.48	
10/11	08:32:45	12562.7500	2778.57	119.08	-39.92	
10/11	08:33:00	12563.0000	2750.76	118.77	-27.81	
10/11	08:35:30	12565.5000	2745.47	115.58	-5.29	
10/11	08:38:15	12568.2500	2744.49	112.45	-.98	

WELL NAME : SUNCO DISPOSAL NO. 1

DATE : 10/11/18

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F262A11.RED

Date MM/DD	Time hh:mm:ss	Test Time mmmmmmmm.mmmmm	Pressure Paig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
10/11	08:39:15	12569.2500	2744.46	111.67	-.03	
10/11	08:39:30	12569.5000	2723.65	111.48	-20.81	
10/11	08:39:45	12569.7500	2690.55	111.29	-33.10	
10/11	08:40:00	12570.0000	2654.32	111.10	-36.24	
10/11	08:40:15	12570.2500	2617.66	110.90	-36.66	
10/11	08:40:30	12570.5000	2580.13	110.71	-37.52	
10/11	08:40:45	12570.7500	2542.75	110.52	-37.38	
10/11	08:41:00	12571.0000	2504.09	110.32	-38.66	
10/11	08:41:15	12571.2500	2464.94	110.01	-39.15	
10/11	08:41:30	12571.5000	2427.11	109.46	-37.83	
10/11	08:41:45	12571.7500	2394.85	108.90	-32.26	
10/11	08:42:00	12572.0000	2361.44	108.34	-33.41	
10/11	08:42:15	12572.2500	2334.88	107.79	-26.56	
10/11	08:42:30	12572.5000	2319.44	107.23	-15.44	
10/11	08:42:45	12572.7500	2312.72	106.67	-6.72	
10/11	08:44:15	12574.2500	2311.91	103.28	-.81	
10/11	08:46:00	12576.0000	2310.60	99.89	-1.31	
10/11	08:48:00	12578.0000	2309.83	96.82	-.77	STOP @ 2000'
10/11	08:49:15	12579.2500	2309.63	95.52	-.21	
10/11	08:49:30	12579.5000	2289.85	95.26	-19.77	
10/11	08:49:45	12579.7500	2247.39	95.00	-42.46	
10/11	08:50:00	12580.0000	2197.63	94.74	-49.76	
10/11	08:50:15	12580.2500	2147.01	94.47	-50.62	
10/11	08:50:30	12580.5000	2095.92	93.85	-51.10	
10/11	08:50:45	12580.7500	2049.10	93.24	-46.82	
10/11	08:51:00	12581.0000	2013.01	92.63	-36.09	
10/11	08:51:15	12581.2500	1978.05	92.01	-34.96	
10/11	08:51:30	12581.5000	1948.68	91.39	-29.37	
10/11	08:51:45	12581.7500	1926.74	90.78	-21.94	
10/11	08:52:00	12582.0000	1905.36	90.17	-21.37	
10/11	08:52:15	12582.2500	1883.13	89.56	-22.23	
10/11	08:53:30	12583.5000	1876.84	86.22	-6.29	
10/11	08:54:45	12584.7500	1875.83	82.81	-1.00	
10/11	08:56:00	12586.0000	1875.11	79.42	-.72	STOP @ 1000'
10/11	08:58:00	12588.0000	1874.27	76.28	-.84	
10/11	08:59:15	12589.2500	1873.95	74.54	-.31	
10/11	08:59:30	12589.5000	1845.15	74.23	-28.81	
10/11	08:59:45	12589.7500	1799.81	73.92	-45.34	
10/11	09:00:00	12590.0000	1762.08	73.62	-37.73	
10/11	09:00:15	12590.2500	1739.14	73.31	-22.94	
10/11	09:00:30	12590.5000	1715.06	73.00	-24.09	
10/11	09:00:45	12590.7500	1680.19	72.70	-34.87	
10/11	09:01:00	12591.0000	1634.69	72.39	-45.49	
10/11	09:01:15	12591.2500	1586.17	72.09	-48.52	
10/11	09:01:30	12591.5000	1540.53	71.78	-45.65	
10/11	09:01:45	12591.7500	1507.23	71.47	-33.30	
10/11	09:02:00	12592.0000	1482.11	71.17	-25.11	
10/11	09:02:15	12592.2500	1464.83	70.73	-17.28	
10/11	09:02:30	12592.5000	1450.61	70.21	-14.22	
10/11	09:04:00	12594.0000	1439.64	67.10	-10.97	
10/11	09:05:30	12595.5000	1439.76	64.03	.12	
10/11	09:07:15	12597.2500	1439.15	60.89	-.61	
10/11	09:09:30	12599.5000	1438.68	57.81	-.47	SURFACE STOP
10/11	09:11:00	12601.0000	1442.52	56.15	3.84	
10/11	09:11:15	12601.2500	.01	55.89	-1442.51	
10/11	09:15:00	12605.0000	.01	52.29	.00	

 *
 * EVENT SUMMARY *
 *

COMPANY : AGUA MOSS, LLC

PAGE : B1

WELL NAME : SUNCO DISPOSAL NO. 1

DATE : 10/11/18

WELL LOCATION : SAN JUAN COUNTY, NEW MEXICO

FILE REF: F262A11.RED

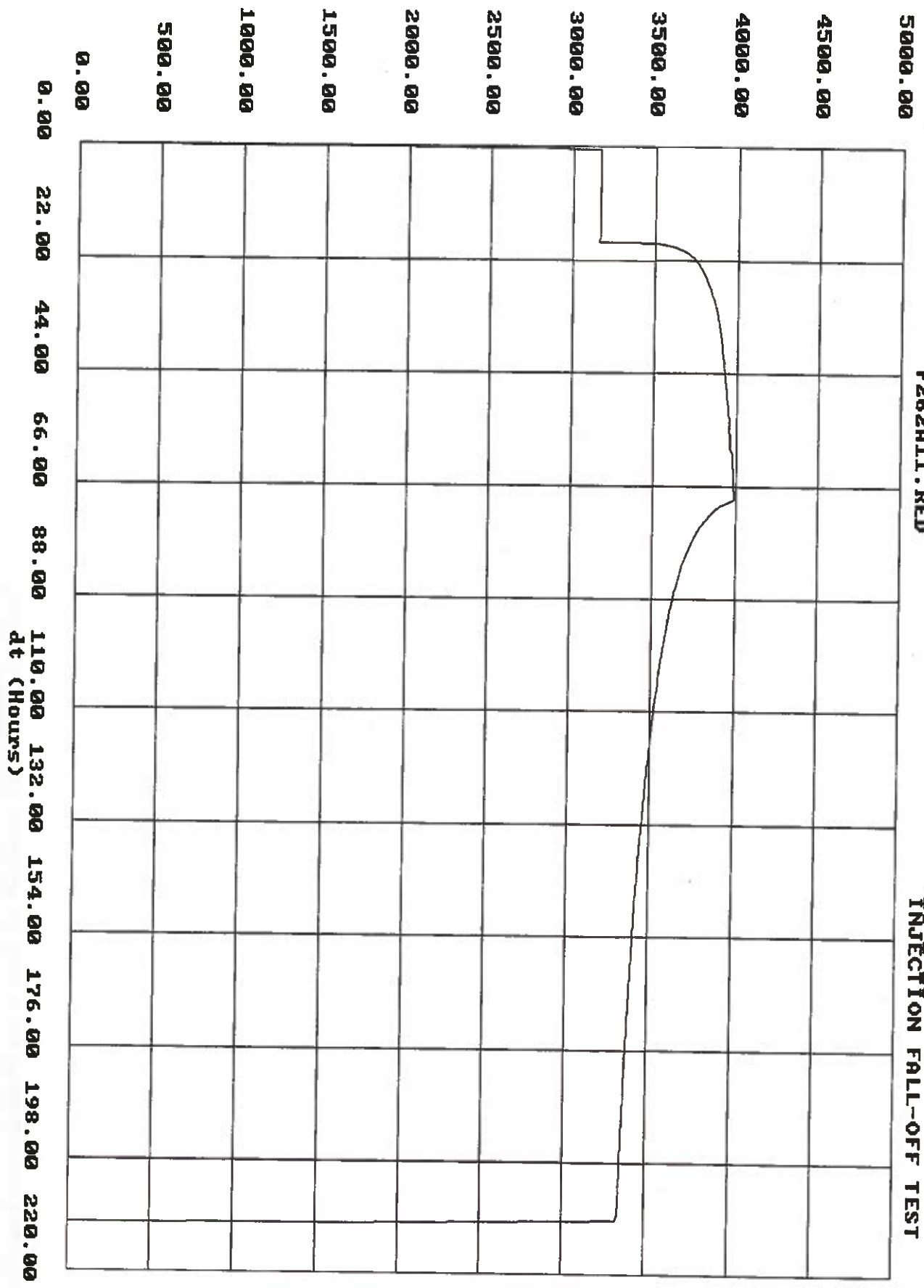
Date	Time	Test Time	Key Event	Pressure	Temp
MM/DD	hh:mm:ss	mmmmmm.mmmmm		Psig	Deg F
10/02	15:17:00	7.0000	PRESSURED UP LUBRICATOR	1245.16	73.84
10/02	15:17:30	7.5000	TRIPPED IN WELL W/TANDEM INSTRUMENTS	1266.15	73.50
10/02	15:40:15	30.2500	TANDEM INST. @ 4362'	3167.13	112.44
10/03	09:25:00	1095.0000	BEGAN INJECTION	3164.24	96.90
10/05	12:00:00	4130.0000	END INJECTION - BEGAN FALL-OFF	3989.86	77.29
10/11	08:20:00	12550.0000	END FALL-OFF	3326.01	93.40
10/11	08:26:15	12556.2500	STOP @ 4000'	3175.81	112.88
10/11	08:48:00	12578.0000	STOP @ 2000'	2309.83	96.82
10/11	08:56:00	12586.0000	STOP @ 1000'	1875.11	79.42
10/11	09:09:30	12599.5000	SURFACE STOP	1438.68	57.81

SUNCO DISPOSAL, NEW MEXICO
SAN JUAN COUNTY, F262A11. RED

AGUA MOSS, LLC
Pressure vs dt

TEFFELLER, INC.
INJECTION FALL-OFF TEST

Pressure (Psig)



Company: AGUA MOSS, LLC
 Well: SUNCO DISPOSAL NO. 1
 Field: MESA VERDE FORMATION
 Engineer: NEIL TEFTELLER
 Gauge Type: ELECTRONIC MEMORY
 Gauge Range: 0 - 5000
 Gauge Depth: 4362 ft
 Serial No.: 262

County: SAN JUAN
 State: NEW MEXICO
 Date: 10/11/2018
 Well Type: DISPOSAL
 Test Type: GRADIENT
 Status: SHUT IN
 File Name: 67495

Tubing: 2-7/8"	TO 4282'	Packer Depth	4282 ft
Tubing:	TO	PBTD	4706 ft
Casing: 5-1/2"	TO 4750'	Oil Level	
Perfs.: 4350' - 4460'		H2O Level	
Elevation: 5872'		Zero:	

Shut-in BHP	3335 @ 4362 ft	Shut-in BHT	0 F @ 0 ft
Shut-in WHP	1439	Shut-in WHT	0 F

[Tefteller Incorporated]

#	MD	TVD	PRESSURE	PSI/ft
1	0	0	1439.00	
2	1000	1000	1875.00	0.436
3	2000	2000	2310.00	0.435
4	3000	3000	2744.00	0.434
5	4000	4000	3176.00	0.432
6	4362	4362	3335.00	0.439

1.78 @ 4278' KB

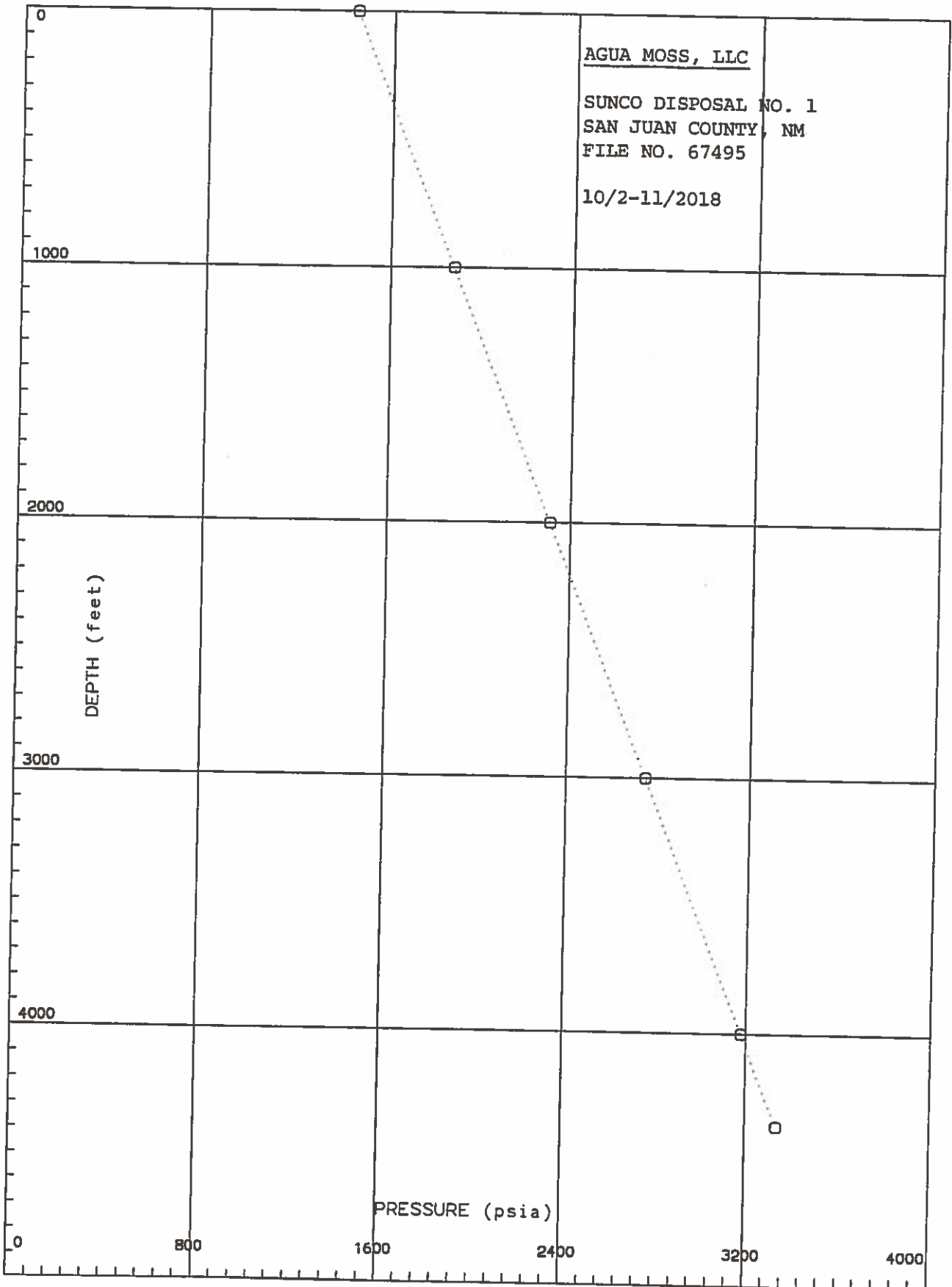
1.87 @ 4269' KB

END INJECTION - 140.25 HRS. FALL-OFF

AGUA MOSS, LLC

SUNCO DISPOSAL NO. 1
SAN JUAN COUNTY, NM
FILE NO. 67495

10/2-11/2018



SP-2000



Downhole Memory Pressure Gauge

The SP-2000 downhole memory pressure gauge is controlled by an internal microprocessor and powerful software.

The SP-2000 can stay downhole and collect data for hours or days; depending on your application. It is slimline and operates fully from battery power.

The microprocessor is capable of detecting the correct pressure and temperature and adjust the sampling rate automatically (once programmed for the test application).

The SP-2000 is tough, dependable, simple, and intelligent. If your job requires gauges that are reliable yet rugged and simple to use, the SP-2000 memory gauge, with its Hybrid-Quartz sensor is the one for you. It is so simple that a paper clip can be used to program it by changing the switch settings for the Type and Duration of test.

With the use of our simple, menu driven software, you can retrieve and report the gauge data (using a compatible computer and printer) from the tool once it is removed from the well.

Advanced reporting features are available such as data printouts, gradient reports, gradient plots and most of the standard time vs. pressure/temperature plot formats.

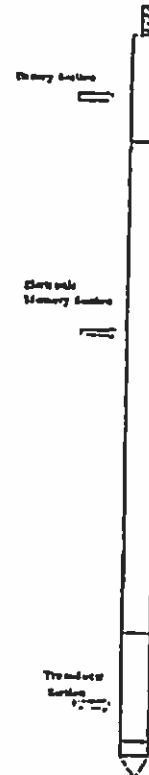
Micro-Smart Systems offers complete Well Test Interpretation, utilizing Fekete's "F.A.S.T. Well Test"™ software. This powerful state-of-the-art software includes data preparation, various analysis methods, analytical reservoir modeling and deliverability.

Micro-Smart Systems is the SMART choice for cutting-edge technology and superior customer support. We can save you time, money, and help you keep your customers satisfied.

SMART Features:

The technological features of the SP-2000 are:

- Dual EEPROM Memory
- Tool performs internal tests and delivers audible signal to confirm operation
- Multiple-run data storage capability
- User friendly software
- Convert from memory to SRO gauge with simple module change
- Compatible with Micro-Smart's production logging tools
- Standard ASCII data storage format
- Switch selectable programming without the use of a computer
- Selectable switches for duration in DAYS and TYPE of TEST
- Custom computer programming
 - up to 15 time periods
 - specify time interval, sampling rate, and ΔP switching.



"SMART AND SIMPLE"

SPECIFICATIONS:

Memory Capacity: 48,000 data sets (main memory) 2,000 data sets (backup memory) (time pressure, temp.)	Pressure Ranges: 2,500 psi (17,000 KPA) 5,000 psi (34,000 KPA) 10,000 psi (68,000 KPA) 15,000 psi (102,000 KPA) 20,000 psi (136,000 KPA)
Sampling Intervals: 1.875 seconds to 64 minutes (in binary multiples)	Weight: 11 lbs (5.0 Kg)
Diameter: 1.25 in. (31.2 mm)	Operating Temp.: 32° F to 325° F 0° C to 160° C
Resolution: Pressure .01 psi Temp. .04° F	Power: 11.2v (2 "c" cell Alkaline) 14.4v (4 "c" cell Lithium)
Accuracy: Pressure ± .05% Full Scale Temp. ± 1°F Time ± 0.5%	Length: 53 in. (1.3 m) plus battery pack 24 in. (6 m) for 9 cell pack 16 in. (4 m) for 4 cell pack



ACCURACY VERIFICATION

23-February-2018

Gauge Model SP-2000 Pressure Range 5 K
Gauge S/N 262 Accuracy 0.05% Full Scale

Applied Pressure psig	Recorded Pressure psig	Difference psi	Percent (%)
0.01	1.27	1.26	0.0252%
774.08	775.05	0.97	0.0194%
1498.24	1498.48	0.24	0.0048%
2222.36	2222.51	0.15	0.0030%
2946.53	2946.99	0.46	0.0092%
3670.66	3671.93	1.27	0.0254%
4394.87	4396.59	1.72	0.0344%
5119.00	5120.35	1.35	0.0270%
4394.87	4397.28	2.41	0.0482%
3670.66	3673.03	2.37	0.0474%
2946.53	2948.40	1.87	0.0374%
2222.36	2223.94	1.58	0.0316%
1498.24	1499.88	1.64	0.0328%
774.08	776.24	2.16	0.0432%
0.01	2.10	2.09	0.0418%

Oven Temperature: 179.7 °F Probe Temperature: 179.4 °F

Smart Gauge Calibration accuracy is confirmed.

Calibrated with RUSKA Pressure Standard, model # 2451-700-00
Serial #26618, Mass Set Serial #25608
Compensated to local acceleration due to gravity

Verified by: CM





ACCURACY VERIFICATION

23-February-2018

Gauge Model SP-2000 Pressure Range 5 K
Gauge S/N 262 Accuracy 0.05% Full Scale

Applied Pressure psig	Recorded Pressure psig	Difference	
		psi	Percent (%)
0.01	1.40	1.39	0.0278%
774.08	774.85	0.77	0.0154%
1498.24	1499.96	1.72	0.0344%
2222.36	2222.84	0.48	0.0096%
2946.53	2947.01	0.48	0.0096%
3670.66	3671.21	0.55	0.0110%
4394.87	4395.43	0.56	0.0112%
5119.00	5119.62	0.62	0.0124%
4394.87	4395.86	0.99	0.0198%
3670.66	3671.85	1.19	0.0238%
2946.53	2947.82	1.29	0.0258%
2222.36	2223.50	1.14	0.0228%
1498.24	1499.51	1.27	0.0254%
774.08	775.37	1.29	0.0258%
0.01	1.52	1.51	0.0302%

Oven Temperature: 253.9 °F Probe Temperature: 253.7 °F

Smart Gauge Calibration accuracy is confirmed.

Calibrated with RUSKA Pressure Standard, model # 2451-700-00
Serial #26618, Mass Set Serial #25608
Compensated to local acceleration due to gravity

Verified by: CM



ACCURACY VERIFICATION

23-February-2018

Gauge Model SP-2000 Pressure Range 5 K
Gauge S/N 262 Accuracy 0.05% Full Scale

Applied Pressure psig	Recorded Pressure psig	Difference psi	Percent (%)
0.01	1.40	1.39	0.0278%
774.08	774.85	0.77	0.0154%
1498.24	1499.96	1.72	0.0344%
2222.36	2222.84	0.48	0.0095%
2946.53	2947.01	0.48	0.0096%
3670.66	3671.21	0.55	0.0110%
4394.87	4395.43	0.56	0.0112%
5119.00	5119.62	0.62	0.0124%
4394.87	4395.86	0.99	0.0198%
3670.66	3671.85	1.19	0.0238%
2946.53	2947.82	1.29	0.0258%
2222.36	2223.52	1.16	0.0232%
1498.24	1499.51	1.27	0.0254%
774.08	775.37	1.29	0.0258%
0.01	1.52	1.51	0.0302%

Oven Temperature: 274.3 °F Probe Temperature: 274.4 °F

Smart Gauge Calibration accuracy is confirmed.

Calibrated with RUSKA Pressure Standard, model # 2451-700-00
Serial #26618, Mass Set Serial #25608
Compensated to local acceleration due to gravity

Verified by: CM



ACCURACY VERIFICATION

23-February-2018

Gauge Model
Gauge S/N

SP-2000
262

Pressure Range 5 K
Accuracy 0.05% Full Scale

Applied Pressure psig	Recorded Pressure psig	Difference	
		psi	Percent (%)
0.01	1.27	1.26	0.0252%
774.08	775.05	0.97	0.0194%
1498.24	1498.48	0.24	0.0048%
2222.36	2222.51	0.15	0.0030%
2946.53	2946.99	0.46	0.0092%
3670.66	3671.93	1.27	0.0254%
4394.87	4396.59	1.72	0.0344%
5119.00	5120.35	1.35	0.0270%
4394.87	4397.28	2.41	0.0482%
3670.66	3673.03	2.37	0.0474%
2946.53	2948.40	1.87	0.0374%
2222.36	2223.94	1.58	0.0316%
1498.24	1499.88	1.64	0.0328%
774.08	776.24	2.16	0.0432%
0.01	2.11	2.10	0.0420%

Oven Temperature: 168.2 °F

Probe Temperature: 168.1 °F

Smart Gauge Calibration accuracy is confirmed.

Calibrated with RUSKA Pressure Standard, model # 2451-700-00

Serial #26618, Mass Set Serial #25608

Compensated to local acceleration due to gravity

Verified by: CM