Appendix D2

Clovis 2 Field Data Sheets

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ΔH 2
Δ 0

1 1

FIELD DATA RECORD

T C21
CLOVIS 2
10/19/04
PERA OR Clarke/TEPD
METE BO NO. 4204
OCAL M 0945
AR /STOP 0945/1418

DIAMETER 2
1.001
1.728

PI UBE 0.84
PROBE DI 3/8"
PR BE ENGTH 4'

SAMPLE TRAIN LEAK
BEFORE 15.0 in. Hg OK
AFTER 10.0 in. Hg OK
JBE LEAK TEST
ORE 5.8"-OK AFTER 6.0"-OK

PLANT MI 04-014 CLOVIS
MBIEN TEMP 60
MI TE M 29.42
R. Hg -0.22
PR URE O
SSUMI MOI UR % ~1%
ASSUM % 30.4
SSUM O % <1
M MW WET, %
AS MW %

POINT	CLOCK TIME	DRY GAS METER cu. ft.	VELOCITY dP in. H2O	ORIFICE dH in. H2O DESIRED	ORIFICE dH in. H2O ACTUAL	TEMPERATURES (F) 1 STACK	2 PROBE	3 FILTER	4 IMPNGR	PUMP VAC in. Hg
			~~3.44~~ 3.23		69.4	1704		AMB		
START	0	112.53	—	—	—	—	—	—	—	
1	10 (5x2)	120.60	0.10 x2	2.10 x2	2.10 x2	65 x2	63	64	47	4.5
2	~~15~~	124.71	0.10	2.10	2.10	67	64	66	47	4.5
3	20	128.90	~~0.11~~	~~2.3~~ 2.2	2.2	68	64	67	47	5.0
4	25	133.10	0.11	2.2	2.2	68	64	67	47	5.0
5	30	137.61	0.12	2.3	2.3	69	76	67	47	5.0
6	35	142.45	0.13	2.7	2.7	69	65	69	47	6.0
7	40	147.05	~~0.13~~	2.9	2.9	69	65	68	47	~~7.0~~
8	45	151.90	0.15	3.1	3.1	69	65	69	47	~~7.0~~
9	50	157.10	0.15	3.1	3.1	69	66	68	46	~~7.0~~
10	55	162.10	0.17	3.5	3.5	69	66	66	47	8.0
11	60	167.60	0.17	3.5	3.5	69	66	68	47	8.0
12	65:24	173.21	~~0.17~~	3.5	3.5	69	66	69	47	8.0
1	70	177.60	0.12	2.5	2.5	68	66	69	48	5.5
2	75:01	181.84	0.12	2.5	2.5	67	66	68	47	5.5
3	80	186.40	0.13	2.7	2.7	68	65	64	48	6.0
4	85	191.60	0.14	~~3.0~~	3.0	66	65	65	47	7.0
5	90	196.40	0.13	2.7	2.7	69	65	65	47	6.5
6	95	201.20	0.14	3.0	3.0	67	66	66	48	7.0
7	100	206.00	0.13	2.7	2.7	69	66	66	49	6.0
8	105	210.50	0.14	3.0	3.0	69	66	66	49	7.0
9	110	215.90	0.14	3.0	3.0	69	66	62	49	7.0
10	115	220.50	0.14	3.0	3.0	69	66	67	49	7.0
11	120	225.50	0.14	3.0	3.0	68	66	66	49	7.0
12	125:00	230.43	0.14	3.0	3.0	68	66	65	49	7.0
	Theta: 125	Vm: 117.90	AVG √dP: ~~0.138~~ 0.365		AVG dH: ~~0.734~~ 2.78	Ts: ~~171~~ 68.2				

NOTE: SWITCHED TO 5 MIN PER POINT

TEMP. STARTED NEARLY 11:11am, END POINT 2. RESTART @ 13:20 hrs

.5

FIELD DATA RECORD

PAGE 1 of 1

RUN NO. C22
LOCATION Clovis 2
DATE 10/20/04
OPERATOR Clarke
METER BOX NO. 4204
LOCAL TIME 9:14 am
START/STOP 9:14 /

STACK DIAMETER 12"
Ym: 1.001
H@: 1.728

PITOT TUBE FACTOR 0.84
NOZZLE DIAMETER 3/8" in.
PROBE LENGTH 4' ft.

SAMPLE TRAIN LEAK TEST
BEFORE 15.0 in. ~~H2O~~ Hg - OK
AFTER 12.0 in. ~~H2O~~ Hg - OK
PITOT TUBE LEAK TEST
BEFORE 5.4" H_2O - OK AFTER 5.5" H_2O OK

PROJECT NO. 04-614
PLANT NAME Clovis
AMBIENT TEMP (F)
METER TEMP (F) 60
BAR. PRESS ("Hg) 24.32
STATIC PRESSURE ("H2O) -0.22
ASSUMED MOISTURE (%) ~1
ASSUMED O2 (%) 20.9
ASSUMED CO2 (%) <1
ASSUMED MW (WET, %)
ASSUMED MW (DRY, %)

POINT	CLOCK TIME	DRY GAS METER (cu. ft.)	VELOCITY dP (in. H2O)	ORIFICE dH (in. H2O) DESIRED	ORIFICE dH (in. H2O) ACTUAL	TEMPERATURES (F) 1 STACK	2 PROBE	3 FILTER	RESIN	4 IMPGR	PUMP VAC (in. Hg)
START	0	230.65	~~0.08~~	~~1.7~~	~~1.7~~	~~64~~	~~63~~	~~64~~		~~51~~	~~5~~
1	5	236.6	~~0.12~~ 0.08	~~2.5~~ 1.7	~~2.5~~ 1.7	~~64~~ 64	63	64		51	~~5~~ 5.0
2	10	239.9	0.12	2.5	2.5	65	63	64		50	6.5
3	15	242.5	0.11	2.3	2.3	65	64	66		49	6.5
4	20	246.9	0.11	2.3	2.3	68	65	66		49	6.5
5	25	251.4	0.11	2.3	2.3	68	65	66		49	6.5
6	30	255.8	0.11	2.3	2.3	68	65	66		51	6.5
7	35	259.9	0.13	2.7	2.7	69	65	66		51	7.5
8	40	265.0	0.14	2.9	2.9	70	65	67		51	8.5
9	45	270.0	0.15	3.1	3.1	69	66	67		50	9.0
10	50	275.-	0.16	3.4	3.4	69	66	68		50	9.5
11	55	280.5	0.17	3.6	3.6	69	66	67		50	10.0
12	60	285.91	0.17	3.6	3.6	69	66	68		50	10.0
1	65	290.-	0.10	2.1	2.1	66	66	69		52	6.5
2	70	294.4	0.12	2.5	2.5	66	66	67		50	7.0
3	75	298.8	0.12	2.5	2.5	65	66	67		50	7.0
4	80	303.5	0.13	2.7	2.7	60 66	66	68		50	7.5
5	85	308.2	0.13	2.7	2.7	68	66	68		50	7.5
6	90	312.8	0.13	2.7	2.7	68	66	68		50	7.5
7	95	317.5	0.13	2.7	2.7	67	66	68		50	7.5
8	100	322.1	0.13	2.7	2.7	67	66	68		51	7.5
9	105	326.9	0.14	2.9	2.9	67	66	69		51	8.0
10	110	331.8	0.14	2.9	2.9	68	66	67		51	8.0
11	115	336.5	0.14	2.9	2.9	67	66	67		51	8.0
12	120:	341.37	0.14	2.9	2.9	67	66	67		51	8.0
	Theta:	Vm: 110.72	avg dP:		avg dH: 2.70	avg Ts					

E

N

ΔH / ΔP = 2.1 / 0

FIELD DATA RECORD

C23
CLOUDS 2
10/21/94 Clark/Todd
4204
0907 Dyn
0905 /

M 0.84 3/8" in. 1 4/ ft.

MI 1
04-014
CLOUDS SPECIALTY
60
29.54
2O) ~~-0.49~~ -0.24
%) ~1%
26.9%

A 12
1.001
1.728

M LEAK TEST
15 in. ~~H2O~~ Hg -OK
12½ in. ~~H2O~~ Hg -OK
IBE LEAK TEST
5" H2O -OK AFTER 5.5" OK

M M
M %
A %
MI MW 'W' %
MW %

POINT	CLOCK TIME	DRY GAS METER (cu. ft.)	VELOCITY dP (in. H2O) 2.99	ORIFICE dH (in. H2O) DESIRED	ORIFICE dH (in. H2O) ACTUAL 62.5	1506 ~~1476~~ TEMPERATURES (F) STACK 1	PROBE 2	FILTER 3 Amb	RESIN	IMPGR 4	PUMP VAC (in. Hg)
START	0	341.58	—	—	—	—	—	—	—	—	
1	5	345.4	0.09	1.9	1.9	62	57	58		46	5.5
2	10	349.5	0.09	1.9	1.9	60	58	58		45	5.5
3	15	353.4	0.10	2.1	2.1	62	58	58		45	6.0
4	20	357.5	0.10	2.1	2.1	62	58	58		45	6.0
5	25	361.9	0.11	2.3	2.3	63	59	59		45	7.0
6	30	366.3	0.11	2.3	2.3	63	60	58		45	7.0
7	35	371.0	0.12	2.5	2.5	63	60	59		45	7.5
8	40	375.6	0.14	2.9	2.9	62	60	59		45	9.0
9	45	381-	0.14	2.9	2.9	62	60	59		45	9.0
10	50	385.8	0.16 .16	3.4	3.4	63	60	60		46	10.0
11	~~55~~	391.0	0.16	3.4	3.4	62	60	59		45	10.0
12	60	396.3	0.16	3.4	3.4	62	60	59		45	10.0
1	65	400.6	0.11	2.3	2.3	61	60	60		46	6.5
2	70	405.1	0.13	2.7	2.7	63	60	59		45	8.0
3	75	409.7	0.12	2.5	2.5	63	60	60		45	7.5
4	80	414.2	0.12	2.5	2.5	63	61	60		45	7.5
5	85	418.8	0.12	2.5	2.5	63	61	60		45	7.5
6	90	423.3	0.12	2.5	2.5	62	60	60		45	7.5
7	95	428.2	0.12	2.5	2.5	64	60	62		45	7.5
8	100	432.4	0.12	2.5	2.5	64	60	61		45	7.5
9	105	437.21	~~0.14~~ 0.13	2.7	2.7	64	60	62		45	8.0
10	110	442.0	~~0.13~~ 0.14	2.9	2.9	65	60	62		45	8.5
11	115	446.9	0.14	2.9	2.9	64	61	63		46	8.5
12	120	451.76	0.14	2.9	2.9	64	61	63		46	8.5
	Theta: 120	Vm: 110.18	avg dP: 0.353		avg dH: 2.6	avg Ts 62.7					

FIELD DATA RECORD

E2WB2

(715)

9/27-28/08

Field

4204

1000

0830/1430

2

.001

1.728

0.84

3/8 in.

4 ft.

1

04-014

Clovis 2 baseline (Pre-t

71

60

29.91

-0.22

4

20.9

<1

RAIN LEAK TEST

16 OK in. ~~H2O~~ Hg

10 OK in. ~~H2O~~ Hg

JBE LEAK TEST

ORE 4 in H2O OK AFTER ~~25~~

POINT	CLOCK TIME	DRY GAS METER (cu. ft.)	VELOCITY dP (in. H2O)	ORIFICE dH (in. H2O) DESIRED	ORIFICE dH (in. H2O) ACTUAL	TEMPERATURES (F) STACK	PROBE	FILTER Auto	RESIN	IMPGR	PUMP VAC (in. Hg)
START	0	905.76	←	—	—	—	—	—	—	—	—
W-1	10	913.7	0.09 .09	1.9	1.9	69	72	71		51	5
2	20	922	1/0.11	2.4	2.4	71	70	71		50	6
3	30	931.00	1/0.11	2.4	2.4	70	73	71		49	6
4	40	940.2	1/0.12	2.6	2.6	70	72	70		48	7
5	50	949.2	1/0.12	2.6	2.6 2.4	70	72	71		48	7
6	60	957.3	0.10	2.0	2.0	70	71	72		49	5
7	70	965 973.79	0.10	2.0	2.0	70	71	71		49	5
8	80		0.11	2.2	2.2	70	72	71		49	5
9	90	982.52	0.12	2.4	2.4	70	72	71		48	6
10	100	991.42	0.13	2.6	2.6	71	71	71		48	6
11	110	1000.57	0.13	2.6	2.6	70	71	71		48	6
12	120	1009.24	0.12	2.3	2.3	71	71	71		48	6
W-12	130	1017.80	0.12	2.3	2.3	71	71	72		48	6
11	140	1026.75	0.13	2.6	2.6	71	71	73		48	8
10	150	1035.40	0.12	2.3	2.3	71	71	73		48	6
9	160	1043.85	0.11	2.2	2.2	72	72	73		48	6
8	170	1052.30	0.11	2.2	2.2	72	72	73		49	6
7	180	1060.35	0.10	2.0	2.0	72	72	72		49	5
6	190	1068.65	0.11	2.2	2.2	72	73	74		49	5
5	200	1076.95	0.11	2.2	2.2	75	76	76		50	5
4	210	1085.93	0.13	2.6	2.6	73	75	75		51	6
3	220	1095.20	0.14	2.7	2.7	72	74	74		49	7
2	230	1103.8	~~0.10~~ .12	2.3	2.3	73	74	74		49	6
1	240	1112.31	0.12	2.3	2.3	73	73	74		49	6
	Theta: 240	Vm: 207.05	avg dP: 0.340		avg dH: 2.33	avg Ts 71.2					