UST 8459

unocal 5472

DATE: January 16, 2003

CONOCOPHILLIPS QUARTERLY REPORT

Former Unocal Site No.: 5472 Tosco Project Manager: Consulting Co./Contact Person:

Consultant Project No.: Primary Agency/Regulatory ID No.: Other Parties to Receive Copies:

3460 First Avenue South, Seattle, WA Timothy D. Johnson

GeoEngineers, Inc./Lisa Bona 4823-350-06

Ecology LUST Incident No. 1975

Ben Amoah-Forson, Washington State Department of Ecology; Mike Hess, First

Western Development Services

WORK PERFORMED THIS QUARTER [Fourth - 2002]:

Address:

GeoEngineers and H2Oil Recovery restarted the system on October 18, 2002. The system had been down since December 18, 2001, while the site was repayed with portland cement concrete by the current site owner.

GeoEngineers monitored the system parameters and H2Oil Recovery conducted system O&M from October to December 2002.

WORK PROPOSED FOR NEXT QUARTER (First - 2003):

- Monitor the system operation parameters on a monthly basis.
- H2Oil Recovery will conduct system O&M.

Current Phase of Project:	Remediation	(Assmnt, Remed., etc.)
Frequency of Sampling:	Not applicable	(Quarterly, etc.)
Frequency of Monitoring:	Monthly, if system operating	(Monthly, etc.)
Are LPH Present On-site:	Not measured by GEI during the Fourth Quarter 2002	(Yes/No)
Hydrocarbons Recovered This Quarter:	Approximately 8 gallons via vapor phase	
Hydrocarbons Recovered to Date:	Approximately 130 gallons via vapor phase	
Bulk Soil Removed to Date:	1,140 cubic yards by AGRA	(cubic yards)
Water Wells or Surface Waters w/in a 1,000' Radius & Their Respective Directions (if known):	Unknown.	(Distance and Direction)
Current Remediation Techniques:	Air sparging with vapor extraction. A carbon vessel unit treats vapors before emission into the atmosphere.	(SVES, LPH Removal, etc.)
Permits for Discharge:	PSCAA Notice of Construction 8121	(NPDES, POTW, etc.)
Approximate Depth to Groundwater	Not measured by GEI during Fourth Quarter 2002	(Measured Feet)
Groundwater Gradient:	Not calculated. See report by ERI.	(Bearing)
		(Magnitude)
Maximum TPH-G/Benzene Concentrations:	Not sampled. See report by ERI.	· (μg/l)

- The system was down because of a malfunction of the heat exchanger for the air sparge compressor upon H2Oil Recovery's visit on October 24, 2002. H2Oil Recovery replaced the air sparge compressor sound enclosure cooling fan and restarted the system.
- The influent vapor concentration was greater than 50 parts per million (ppm) after restarting the system on October 18, 2002. It is our opinion that the influent vapor concentrations decreased rapidly and were 11.3 ppm by our November 21, 2002 visit, one month after restarting the system.



2924 Colby Avenue Everett, Washington (425) 252-4565



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Former Unocal Site No. 5472
January 16, 2003
Page 2

Summary of Unusual Activity:	<u>]</u>
Agency Directive Requirements:]

None
Independent remedial action

Attachments:

- Table 1: Summary of Vapor Extraction Catalytic Oxidizer Operation and Pounds Removed
- Table 2: Summary of Vapor Extraction Vacuum
- Table 3: Summary of Air Sparging System Operating Parameters
- Figure 1: Site Plan
- Attachment A: H2Oil Recovery Field Reports

Signed by:		Bona
for	Kurt S. Anderson,	P.G.

Title:

Principal

TABLE 1 (PAGE 1 OF 3) SUMMARY OF REMEDIATION SYSTEM OPERATION AND POUNDS REMOVED

FORMER UNOCAL SITE NO. 5472 SEATTLE, WASHINGTON

Date						Influent Organic		<u></u>			Effluent Organic
Date			System	Catalyst	Heater		•	Pounds	Cumulative	Cumulative	•
Date Hours Days (deg F) (ppm) (cfm) Treated/Day3 Treated Treated⁴ (ppm) 04/11/00 8,104.2 - 546 550 - 290 - - - 0 System.down/04/12/00/10/04/18/00/Decause or power-loss to the system. 558 542 51.6 290 5 3 1 0 System.down/04/29/00/10/05/10/05/00/Decause of power-loss to the system. 05/11/00 8,361.2 10.7 561 552 104 290 3 31 4 0 System.down/05/10/00/Decause-knockout drum, was full of water. -		Catox Total		Temp ¹		Concentration ²	Flow Rate	Hydrocarbons		Gallons	Concentration ²
System.down.04112/00-to.04/18/00-because overflow batch tank was full of water 1	Date	Hours	Days	(deg F)	(deg F)	(ppm)	(cfm)	Treated/Day ³	Treated	Treated ⁴	
04/18/00 8,118.2 0.6 558 542 51.6 290 5 3 1 0 System-down/04/29/001to 05/11/00/because of power loss to the system	04/11/00	8,104.2		546	550		290			-	0
Systemidswn:04/29/00 to 05/11/00 because or power-loss to the system 05/11/00 8,361.2 10.7 561 552 104 290 3 31 4 0 System:down:05/32/00 to 05/16/00 because knockout drumwas full of water: 05/16/00 8,365.8 10.9 555 540	System down 04/12/	00 to 04/18/00 be	cause overflo	w batch tank	was full of w	ater.				Parametric Company	
05/11/00	04/18/00	8,118.2	0.6	558	542	51.6	290	5	-3	1	0
System.down.05/12/00 to 05/16/00 because knockout drum.was.full of water: 05/16/00	System down/04/29/	00 to 05/11/00 be	cause of pov	ver loss to the	system.						
05/16/00 ⁵ 8,365.8 10.9 555 540	05/11/00	8,361.2	10.7	561	552	104	290	3	31	4	0
System down 05/13/00 to 05/31/00 because knockout drum and overflow batch tank were full of water. 05/31/00 8,390.7 11.9 560 551 90.5 290 3 34 5 0 System down 06/01/00.to 06/06/00 because overflow batch tank was full of water. 06/12/00 ⁵ 8,576.3 19.7 566 547	System down 05/12/	00 to 05/16/00 be	cause knock	out drum was	full of water.						
05/31/00 8,390.7 11.9 560 551 90.5 290 3 34 5 0 System down 06/04/00 16:06/06/00 because overflow batch tank-was full of water 06/12/00 8,576.3 19.7 566 547	05/16/00 ⁵	8,365.8	10.9	555	540	4°-	<u></u>	2			
System down 06/01/00 to 06/06/00 because overflow batch tank-was full of water. 06/12/00 ⁵ 8,576.3 19.7 566 547	System:down 05/13/	00 to 05/31/00 be	cause knock	out drum and	overflow bate	h tank were full of w	ater 🖖 🏥				
06/12/00 ⁵ 8,576.3 19.7 566 547 <td>05/31/00</td> <td>8,390.7</td> <td>11.9</td> <td>560</td> <td>551</td> <td>90.5</td> <td>290</td> <td>3</td> <td>34</td> <td>5</td> <td>0</td>	05/31/00	8,390.7	11.9	560	551	90.5	290	3	34	5	0
07/06/00 9,121.1 42.4 555 549 141 270 2 86 12 0 07/19/00 ⁵ 9,430.9 55.3 550 542	System down:06/01/	00.tō:06/06/00 be	cause overflo	w batch tank	was full of w	ater. = 12.					
07/19/00 ⁵ 9,430.9 55.3 550 542	06/12/00 ⁵	8,576.3	19.7	566	547			<u></u>			
08/17/00 9,704.0 66.7 562 548 175 280 4 187 27 0 08/24/00 ⁵ 9,875.2 73.8 551 546 09/22/00 10,114.5 83.8 550 540 73.6 280 3 238 34 0 10/24/00 10,885.7 115.9 552 544 48.5 185 2 288 41 0 10/25/00 ⁵ 10,970.0 119.4 546 545 System down on 11/15/00: because of debns in the float switches: 11/22/00 10,681.0 141.4 ⁶ 546 540 49.3 280 2 332 47 ⁶ 0 12/20/00 ⁵ 11,375.4 170.4 536 550 12/29/00 11,587.0 179.2- 553 543 27.6 285 3 439 62 0 01/10/01 ⁵ 11,884.3 191.6 553 540	07/06/00	9,121.1	42.4	555	549	141	270	. 2	86	12	0
08/24/00 ⁵ 9,875.2 73.8 551 546	07/19/00 ⁵	9,430.9	55.3	550	542						
09/22/00 10,114.5 83.8 550 540 73.6 280 3 238 34 0 10/24/00 10,885.7 115.9 552 544 48.5 185 2 288 41 0 10/25/00 ⁵ 10,970.0 119.4 546 545	08/17/00	9,704.0	66.7	562	548	175	280	4	187	27	0
10/24/00	08/24/00 ⁵	9,875.2	73.8	551	546						
10/25/00 ⁵ 10,970.0 119.4 546 545	09/22/00	10,114.5	83.8	550	540	73.6	280	3	238	. 34	0
System down on 11/45/00 because of debris in the float switches 11/22/00	10/24/00	10,885.7	115.9	552	544	48.5	185	, 2	288	41	0
11/22/00 10,681.0 141.46 546 540 49.3 280 2 332 476 0 12/01/00 10,918.0 151.3 546 538 43.6 280 2 355 50 0 12/20/005 11,375.4 170.4 536 550 <td>10/25/00⁵</td> <td>10,970.0</td> <td>119.4</td> <td>546</td> <td>545</td> <td><u></u></td> <td></td> <td></td> <td></td> <td></td> <td>••</td>	10/25/00 ⁵	10,970.0	119.4	546	545	<u></u>					••
12/01/00 10,918.0 151.3 546 538 43.6 280 2 355 50 0 12/20/00 ⁵ 11,375.4 170.4 536 550	System down on 11/	15/00 because of	débris in the	float switche	S 5 14 2 15 15 15 15 15 15 15 15 15 15 15 15 15						Water Company
12/20/00 ⁵ 11,375.4 170.4 536 550	11/22/00	10,681.0	141.4 ⁶	546	540	49.3	280	2	332	47 ⁶	0
12/29/00 11,587.0 179.2- 553 543 27.6 285 3 439 62 0 01/10/01 ⁵ 11,884.3 191.6 553 540	12/01/00	10,918.0	151.3	546	538	- 43.6	280	2	355	50	0
01/10/01 ⁵ 11,884.3 191.6 553 540	12/20/00 ⁵	11,375.4	170.4	536	550						-
	12/29/00	11,587.0	179.2-	553	543	27.6	285	3	439	62	0
01/31/01 12,379.4 212.2 550 545 46.3 288 2 490 69 0	01/10/01 ⁵	11,884.3	191.6	553	540					· ·	
	01/31/01	12,379.4	212.2	550	545	46.3	288	2	490	69	0 :

Notes appear on page 3 of 3.

TABLE 2 (PAGE 2 OF 3)

		System	Catalyst	Heater	Influent Organic Vapor		Pounds	Cumulative	Cumulative	Effluent Organic Vapor
	· Catox Total	Total	Temp ¹	Temp	Concentration ²	Flow Rate	Hydrocarbons	Pounds	Gallons	Concentration ²
Date _	Hours	Days	(deg F)	(deg F)	(ppm)	(cfm)	(cfm) Treated/Day ³ Tre		Treated⁴	(ppm)
System down on app	proximately 01/03/	01 because	of power loss							
02/14/01 ⁵	12,472.0	216.1	556	540					:	
02/20/01	12,583.0	220.7	548	541	13.6	280	2	507	72	0
System down on app	proximately 03/01/	01:because	of power loss	471376			<i>2</i> 46 年 8. 作			
· 03/21/01 ⁵	12,807.0	230.0	550	535	ν× 🔐			 ,		
03/21/01	12,807.1	230.0	548	536	10.4	280	4	540	77	0
04/13/01	13,357.0	252.9	544	538	43.6	280	2	581	82	0
04/25/01 ⁵	13,641.3	264.8	550	548	•	`				
05/03/01	13,836.0	272.9	548	539	6.8	280	3	634	90	0
05/18/01 ⁵	14,181.6	287:3	550	552			-			
06/08/01	14,606.0	305.0	553	546	7.4	280	2	701	99	0
System down on 06/1	I/01 because of hi	gh level in kr	ockout tank.	System resta	arted five times betw	een 06/12/01	and 06/15/01 Sys	stem left down	on 06/15/01 unt	II H2Oil Recovery
can replace worn chec	k valve (on 06/20/	01).								
06/20/01 ⁵	14,623.1	305.7	556	546						
07/10/01	15,093.2	325.3	550	539	14.7	280	3	767	109	0
07/24/01 ⁵	15,437.5	339.6	550	. 545			**			
08/03/01	15,666.0	349.1	545	537	26.3	280	. 2	824	117	0
Catalytic oxidizer remo										
Vapor extraction syste										
batch tank and was lef	16,407.6	380.0	n:HZ@II:Reco	very restarted			ut down the system	1	T	T
10/18/02	10,407.0	380.0			15 71.3	280 205	. 1	858	122	0
System down on 10/2	4/02 because he		r causadishi	itdown H20		1	4 arga compressor	858	122	0
system.5									die coomy iai	rand restailed
11/19/02 ^{5,7}	The state of the s	405.0			15	250	1	883	125	0
11/21/02		407.0			11.3	250	1	884	125	0
12/18/02 ^{5,7}	•• •	432.0		. 	15	250	1	909	129	0
12/26/02	**	440.0			16.4	250	1	918	130	0
Notes appear on page 3	of 3	•				·	·		1	<u> </u>

Notes appear on page 3 of 3.

TABLE 2 (PAGE 3 OF 3)

Note

- The system was received with a baseline of 8 104 total hours operation
- Measured using a Photovac Micro TIP photoionization detector
- Calculated as follows when cat-ox not in use: lb/day = influent concentration (ppm); flow rate (cfm); 70 (assumed molecular weight of gasoline); (3.8 x10E2)
- Conversion of 7.05 pounds per gallon.
- Measurements provided by H2Oil Recovery
- The total hour meter was not advancing between the October 25 and November 22, 2002 site visits. An estimated 22 operating days during this period was used to calculate cumulative pounds and gallons of hydrocarbons treated.
- These data represent conservative assumptions on system measurements. Actual measurements were not obtained by H2Oil Recovery
- enotimeasured or not applicable : deg F = degrees Fahrenheit : ppm = parts per million : crm = cubic feet per minute
- Bolding indicates a measurement obtained during the current reporting period:

EVER:\CONOCOPHILLIPS\4823350\06\FINALS\Q4-02TABLES1-3.XLS

TABLE 2 SUMMARY OF VAPOR EXTRACTION VACUUM

FORMER UNOCAL SITE NO. 5472 SEATTLE, WASHINGTON

		Well Vacuum (inches H₂O)						
Date	VE-1	VE-2	VE-3	VE-4	VE-5	System		
05/11/00	40	45	40	40	44	40		
05/31/00	35	35	35	34	35	40		
06/06/00	18	18	18	20	20	20		
07/06/00	14	15	14	15	15	50		
08/17/00	17	20	17	18	20	20		
09/22/00	16	17	17	18	18	20		
10/24/00	10	50	30	50	50	60		
11/22/00	40	38	40	40	40	40		
12/29/00	35	36	35	36	36	40		
01/31/01	38	38	38	38	38	40		
02/20/01	40	40	40	40	40	42		
03/21/01	30	31	31	31	32	35		
04/13/01	39	39	38	39	39	42		
05/03/01	39	40	39	40	40	42		
06/08/01	38	40	38	38	39	42		
07/10/01	34	34	34	34	34	40		
		34	34		34	38		
08/03/01 09/05/01	34 0	0	0	34 0	0	0		
10/03/01	40	40	40	40	40	40		
10/18/02	35	35	35	35	35	35		
11/21/02	20	20	20	20	20	20		
12/26/02	35	35	35	35	35	35		

Notes:

Bolding Indicates a measurement obtained during the current reporting period.

TABLE 3 SUMMARY OF AIR SPARGING SYSTEM OPERATING PARAMETERS

FORMER UNOCAL SITE NO. 5472 SEATTLE, WASHINGTON

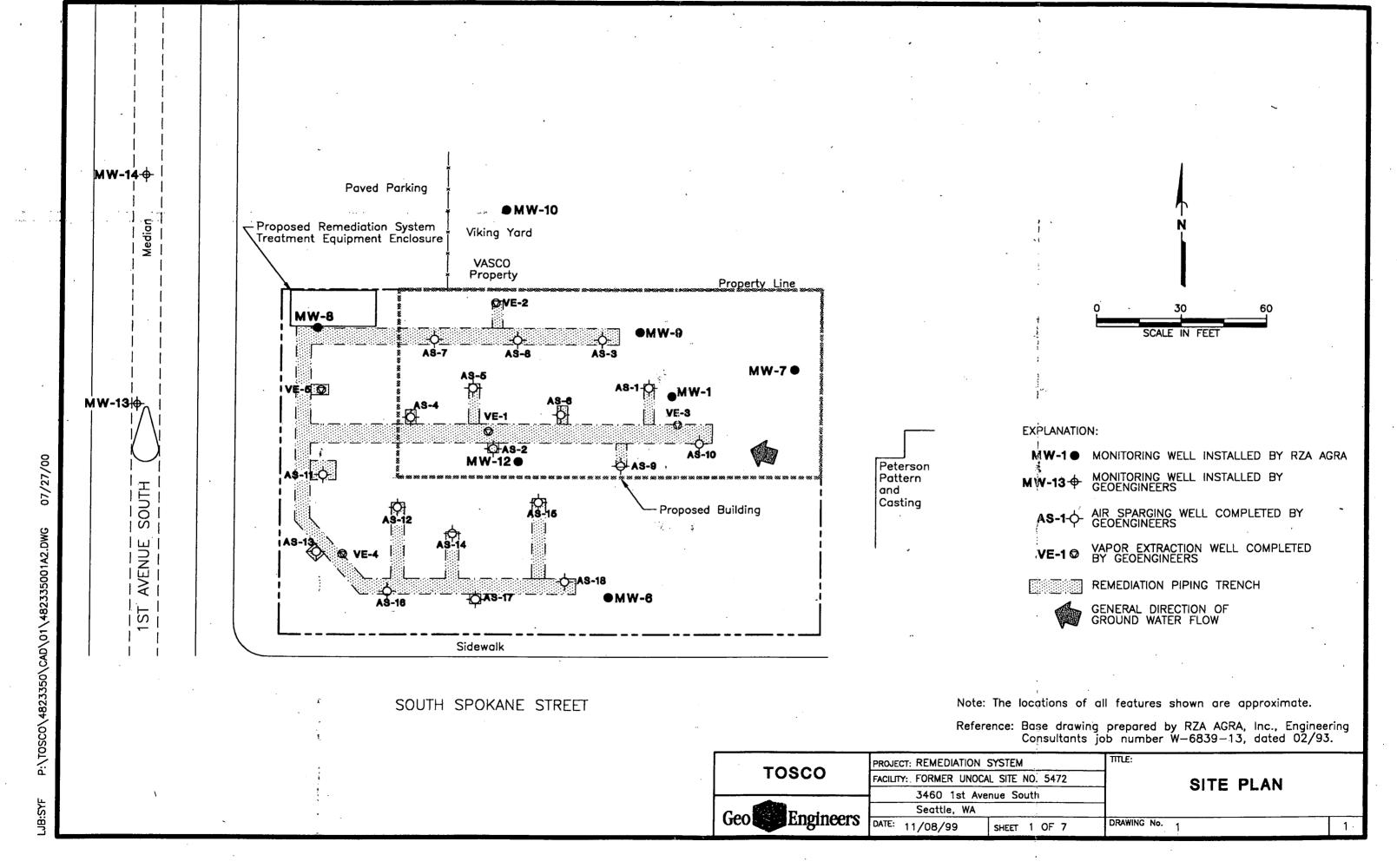
Date	Sparge Wells On	Average Injection Pressure (psi)	Average Injection Flow Rate (cfm/well)
04/18/00	AS-1 through AS-18	4.5	5
05/11/00	AS-1 through AS-18	5	5
05/31/00	AS-1 through AS-18	. 6	5.5
06/06/00	AS-1 through AS-18	5	6
07/06/00	AS-1 through AS-18	4.5	6
08/17/00	AS-1 through AS-18	5	5
09/22/00	AS-1 through AS-18	5	6
10/24/00	AS-1 through AS-18	4	7
11/22/00	AS-1 through AS-18	5	7
12/29/00	AS-1 through AS-18	4	7
01/31/01	AS-1 through AS-18	4	7
02/20/01	AS-1 through AS-18	4	7
03/21/01	AS-1 through AS-18	5	7
04/13/01	AS-1 through AS-18	4	7
05/03/01	AS-1 through AS-18	4	7
06/08/01	AS-1 through AS-18	4	7
07/10/01	AS-1 through AS-18	4	7
08/03/01	AS-1 through AS-18	4	7
09/05/01	AS-1 through AS-18	4	7
10/03/01	AS-1 through AS-18	4	7
10/18/02	AS-1 through AS-18	3	7
11/21/02	AS-1 through AS-18	3.5	77
12/26/02	AS-1 through AS-18	3.5	7

Notes

psi = pounds per square inch cfm = cubic feet per minute Bolding indicates the current reporting period.

EVER:\CONOCOPHILLIPS\4823350\06\FINALS\Q4-02TABLES1-3.XLS





ATTACHMENT A H2OIL RECOVERY FIELD REPORTS

Phillips 66

Equipment Maintenance Report

Phillips 66 Contact: Mr. Tim Johnson		Date: 10/24/02
Consultant & Contact: Geo Engineers, Inc Lisa Bona		Time: 12:30 PM
Contractor & Contact: H2 Oil Recovery Equipment, Inc	Scott Wakefield	Weather: 60's & Overcast
1.0 System Description: Phillips 66 Site #5472, 3460 First A Sutorbilt 4MP blower (3600 rpm) with 10 hp (230 vac, 1725 rpm Goulds 1ST 1/2 hp auto pump (230 vac, 1 ph), and 80 gal. Poly to 3 ph, 1755 rpm) motor and magnetic motor starter, and heat exch All controls in Nema 4 boxes. (attach schematic including manufacturer and date of purchase)	n, TEFC, 1 ph) m ank, Sutorbilt 4H anger (mod #XC	notor, 55 gal. Moisture separator with IP sparge blower with 20 hp (460vac,
2.0 Operational Hours During This Reporting Period:	5110 H200 223	Total Operating Hours for this
Available (Total) Hours	(a)	System:
Operating Hours	- (b)	Hours since last major overhaul
Downtime Hours	- (a-b)	(if applicable):
3.0 Routine Maintenance Required and Performed:		
Description		Date
Observe complete system operation. Change oil and grease blower. Inspect intak	ke	10/24/02
filters, replace if needed. Check belt tension, adjust if needed.	- _	
Record amps on blower motors.	- -	
	-	
	-	
.0 Equipment Readings and Measurements:		
SVE blower amps - 6.0/6.0/6.6 @ 20" water vac		
Sparge blower amps - 21.2/21.2/21.0 @ 15" psi		Hour meter - n/a
Auto pump amps - 3.0/3.0 Heat exchanger amps - 1.5/1.5/1.5		· · · · · · · · · · · · · · · · · · ·
Batch tank level - 2"		
		
.0 Other Repairs Performed, parts needed, etc:	<u> </u>	
eplace sparge sound enclosure cooling fan - old unit and failed.		
hone service does not work. Qwest is looking at it today (10/24/02).	The state of the s	
WWW -8 To -8		
		
A Vanishment Status and Descens for Descriptions		
O Equipment Status and Reasons for Downtime: stem down upon arrival due to heat exchanger thermals tripping. Reset and serve	viced system Uses a	vohanger hearings are getting
isy. Recommend motor replacement if thermals continue tripping.	riceu system. Heat e	venanter nearings are defined
		

Individual Completing this form, including company-Scott Wakefield - H2 Oil Recovery Equipment, Inc.

Phillips 66

Equipment Maintenance Report

Phillips 66 Contact: Mr. Tim Johnson	Date: 11/19/02		
Consultant & Contact: Geo Engineers, Inc Lisa Bona	Time: 11:30 AM		
Contractor & Contact: H2 Oil Recovery Equipment, Inc	Scott Wakefield	d Weather: 40's & Cloudy	
1.0 System Description: Phillips 66 Site #5472, 3460 First A Sutorbilt 4MP blower (3600 rpm) with 10 hp (230 vac, 1725 rpm, Goulds 1ST 1/2 hp auto pump (230 vac, 1 ph), and 80 gal. Poly ta 3 ph, 1755 rpm) motor and magnetic motor starter, and heat excha All controls in Nema 4 boxes. (attach schematic including manufacturer and date of purchase)	, TEFC, 1 ph) m ink, Sutorbilt 4F anger (mod #XC	notor, 55 gal. Moisture separator with HP sparge blower with 20 hp (460vac,	
2.0 Operational Hours During This Reporting Period:		Total Operating Hours for this	
Available (Total) Hours	(a)	System:	
Operating Hours	(b)	Hours since last major overhaul	
Downtime Hours	(a-b)	(if applicable):	
3.0 Routine Maintenance Required and Performed:	 		
Description		Date	
Observe complete system operation. Change oil and grease blower. Inspect intake	:	11/19/02	
filters, replace if needed. Check belt tension, adjust if needed.	•		
Record amps on blower motors.	-		
	•		
4.0 Equipment Readings and Measurements:			
SVE blower amps - 5.7/5.1/5.6 @ 22" water vac	- <u>-</u> .		
Sparge blower amps - 17.7/17.3/17.0 @ 20" psi		Hour meter - n/a	
Auto pump amps - 2.8/2.9			
Heat exchanger amps - 1.5/1.5/1.6 Batch tank level - 2"			
Datel talk 1000 - 2	•		
		<u> </u>	
		<u></u>	
.0 Other Repairs Performed, parts needed, etc:			
.0 Equipment Status and Reasons for Downtime:			
ystem operating upon arrival and departure. Phone line is working.			

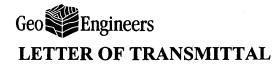
Individual Completing this form, including company-Brian Moody - H2 Oil Recovery Equipment, Inc.

Phillips 66

Equipment Maintenance Report

Brian Moody - H2 Oil Recovery Equipment, Inc.

Phillips 66 Contact: Mr. Tim Johnson		Date: 12/18/02
Consultant & Contact: Geo Engineers, Inc Lisa Bona		Time: 2:40 PM
Contractor & Contact: H2 Oil Recovery Equipment, Inc	Scott Wakefield	Weather: 40's & Cloudy
1.0 System Description: Phillips 66 Site #5472, 3460 First A Sutorbilt 4MP blower (3600 rpm) with 10 hp (230 vac, 1725 rpm, Goulds 1ST 1/2 hp auto pump (230 vac, 1 ph), and 80 gal. Poly ta 3 ph, 1755 rpm) motor and magnetic motor starter, and heat excha All controls in Nema 4 boxes. (attach schematic including manufacturer and date of purchase)	TEFC, 1 ph) months, Sutorbilt 4H anger (mod #XC)	otor, 55 gal. Moisture separator with P sparge blower with 20 hp (460vac,
2.0 Operational Hours During This Reporting Period:		Total Operating Hours for this
Available (Total) Hours	(a)	System:
Operating Hours	(b)	Hours since last major overhaul
Downtime Hours	(a-b)	(if applicable):
3.0 Routine Maintenance Required and Performed:		
Description		Date
Observe complete system operation. Change oil and grease blower. Inspect intake	1	12/18/02
filters, replace if needed. Check belt tension, adjust if needed.	•	
Record amps on blower motors.		
	•	
	-	
4.0 Equipment Readings and Measurements:	· - · · · · · · · · · · · · · · · · · ·	
SVE blower amps - 5.7/5.1/5.8 @ 20" water vac		
Sparge blower amps - 18.1/17.5/17.8 @ 17" psi		Hour meter - n/a
Auto pump amps - 2.6/2.8		
Heat exchanger amps - 1.4/1.3/1.1		kwh - 42189
Batch tank level - 2"		
Sparge belts - 8lbs @ 21" span		
	.	
5.0 Other Repairs Performed, parts needed, etc:		
`	<u></u>	
6.0 Equipment Status and Reasons for Downtime:		
System operating upon arrival and departure. Phone line is working.		
	· · · · · · · · · · · · · · · · · · ·	
Individual Completing this form, including company-		



2924 Colby Avenue Everett, WA 98201-4011 Telephone: (425) 252-4565 Fax: (425) 252-4586

To: Timothy D. Johnson ConocoPhillips				Date: January 16, 2003					
	3977 Leary Way Seattle, WA 98			File: 4823-350-06					
Regarding	g: Former Unoc	eal Site No. 5472							
We are se	nding:	Attached		Under Separate Co	over				
Copies	Date	Description							
1	1/16/03	ConocoPhillips Quar	terly Repor	rt – for 4 th Quarter of 2002					
				•					
					•				
		*							
	·				· · · · · · · · · · · · · · · · · · ·				
These are	transmitted as	checked below:							
×	For You	r Use,		As Requested	Returned				
	For Revi	ew and Comment		Other (see remarks)					
We are sei	nding via:								
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Signed:

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