

July 26, 2007

New Mexico Oil Conservation Division District I 1625 N. French Drive Hobbs, New Mexico 88240

Attn: Environmental Engineering

RE: (1RP-1198)

Final Closure Letter South Hobbs Unit #39 3" Fiberglass Injection Line UL 'I', Sec. 6, T-19-S, R-38-E



Leak occurred on 01/28/2007, at approximately 05:00 PM. A 3" fiberglass injection line used to transfer water from South Hobbs Unit Injection Building #5 to the South Hobbs Unit Well #39 developed a hole causing spill. Valves on both ends of the line were shut to isolate leak. The normal rate for the South Hobbs Unit well #39 is 315 bbls/day at a pressure of about 840 psig. The area affected by this spill is an area measuring approximately 25' wide and 950' long to the south east of South Hobbs Unit Injection Building #5. An estimated 250 barrels of injection water was spilled. None of the spilled fluid was recovered. Mr. Kress Jones is the surface owner and utilizes the surface for grazing cattle. Depth to ground water according to State Engineers Office is an average of 76', for all wells in the area, giving this spill site a ranking of 10. Remediation of the spill site was as follows:

- 1. Piping was excavated and repaired.
- 2. Affected area was excavated and soil was disposed of at Sundance Services, Parabo Facilty near Eunice, NM. Approximately 640 cubic yards was sent to Parabo Facility for disposal.
- 3. Soil samples were gathered from affected area. 11 samples were collected on 03/01/2007 and 4 samples were collected on 07/16/2007, please see attached maps for locations and depths of samples.
- 4. NMOCD guidelines were used to insure entire site is in compliance with guidelines.

- 5. Any soils removed will be replaced with clean fresh soils, where needed.
- 6. Soil analysis data is being submitted with this final closure letter. Please see attached soil analysis from Cardinal Labs, 1 page dated 03/05/2007, and 2 pages dated 07/17/2007.

NMOCD was sent 48 hour closure sampling notice on this site twice. The first sampling occurred on 03/01/2007, 11 samples were gathered, please see map for location and depth of sample points. Since this was a water leak and no oil was spilled, only chloride tests were taken. Cardinal Laboratories data dated 03/05/2007, shows that while well below South Hobbs Unit Water Analysis chloride levels, chloride levels were still slightly elevated over background levels. The second sampling was done, after minor work at the site, on 07/16/2007. 4 samples were gathered, one at leak site and 3 samples were taken from the same sites as the previous sampling. Please see map for location and depth of sample points. Cardinal Laboratories data, dated 07/16/2007, show a dramatic drop in chloride levels and that TPH and BTex is non-detect. Visually the area is showing excellent natural vegetation growth across the entire area. Oxy feels that there will be no further impact to this area as a result of this spill. No further work is planned for this site.

If you have any questions, or if I can be of further assistance, please contact me at (505) 397-8251.

Steven M. Bishop

HES Tech/WSAH RMT Steven Bishop@oxy.com

(505) 397-8251

Attachments: Final C-141.

Hand drawn map of spill area showing sample points and depths of samples

taken on 03/01/2007.

STEVEN M. BSHOP

Cardinal Laboratories soil analysis dated 03/05/2007 (3 pages).

Hand drawn map of spill area showing sample points and depths of samples

taken on 07/16/2007.

Cardinal Laboratories soil analysis dated 07/17/2007 (3 pages).

Latest South Hobbs Unit Water Analysis taken at South Hobbs Unit Central T/B

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

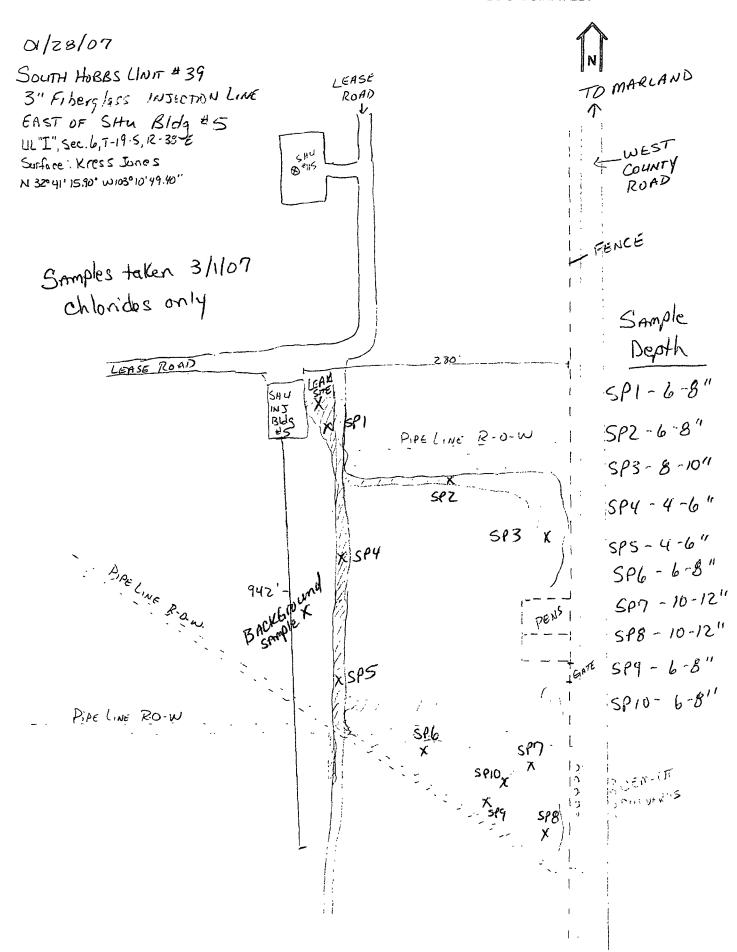
Form C-141

Revised October 10, 2003

Release Notification and Corrective Action

						OPERAT	OR		☐ Initia	ıl Report		Final Report		
				ited Partnership		Contact Steven M. Bishop								
				, N.M. 88240		Telephone No. (505) 397-8251								
Facility Nan	ne South I	Hobbs Unit#	39	\ .	F	acility Type								
Surface Own	ner Kress	Jones		Mineral Ov	vner		lo							
	Zwanza			LOCA	TION	OF REI	LEASE							
Unit Letter	Section	Township	Range	Feet from the	North/S	South Line	Feet from the	West Line	County					
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			Latit	ude 32°41`15.90	)"	Longitude	103°10`49.40	,,						
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		$\boxtimes$	Yes	No 🔲 Not Rec	uired	Gary Wink	via Pager							
By Whom? Steven M. B	ichon					Date and H 01/28/2007								
Was a Water		ched?					lume Impacting t	he Wa	tercourse.					
			Yes 🛚	No		N/A								
If a Watercou	rse was Im	pacted, Descr	ibe Fully.*	*		<u></u>								
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Spilled fluid	d ran appr I in a large	er area on the	50' to the e southea	southeast of Sourst end of the spill or recent snow on	area.	Unable to r	ecover any spill	ed flu	id. Area at	fected is in				
regulations al public health should their o	l operators or the envi perations h iment. In a	are required to a ronment. The lave failed to a ladition, NMC	o report ar acceptant adequately OCD accep	e is true and comple nd/or file certain re- ce of a C-141 repor- r investigate and re- ptance of a C-141 re-	lease no t by the mediate	otifications are NMOCD messes contamination	nd perform correct arked as "Final R on that pose a thr	tive ac eport" eat to g	tions for rel does not rel ground water	eases which nieve the opera r, surface was	nay end ator of er, hun	danger liability nan health		
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Printed Name	: Steven M	. Bishop			/	Approved by	District Supervise	or: El	NVIRONN 	VENIAL F	NGII	NEEK		
Title: HES Te	chnician					Approval Date: 9.17.08 Expiration Date:								
E-mail Addre	ss: Steven	Bishop@oxy	.com		Conditions of Approval:									
Date: 07/26	/2007		Pho	ne: (505) 397-8251						1 stacifed		-		
		Sheets If No		202,000										

PLEASE DRAW SKETCH OF SPILL AND INDICATE WHERE SPILL ORIGINATED.





PHONE (325) 573-7001 · 2111 BEECHWOOD · ABILENE, TX 78803

PHONE (505) 393-2326 - 101 E MARLAND - HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 03/01/07 Reporting Date: 03/05/07 Project Owner: OXY

Project Name: SHU 39 INJECTION LINE

Project Location: HOBBS, NM

Analysis Date: 03/03/07 Sampling Date: 03/01/07 Sample Type: SOIL

Sample Condition: COOL&INTACT

Sample Received By: LB

Analyzed By: HM

CI LAB NO. SAMPLE ID (mg/kg) H12288-1 SP1 704 H12288-2 SP2 2447 H12288-3 SP3 1328 H12288-4 SP4 752 BKGND H12288-5 < 16 H12288-6 SP5 912 H12288-7 SP6 272 H12288-8 SP7 640 2543 H12288-9 SP8 H12288-10 SP9 784 SP10 32 H12288-11 490 Quality Control 500 True Value QC 98 % Recovery Relative Percent Difference 1.0

METHOD: Standard Methods 4500-CIB

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

<u>n 3 -05 - 0 7</u> Date

H12288

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbe, NM 88248 1915) 673-7001 Fay 1915) 673-7020 1505) 393-2926 Fay 1505) 303-2426

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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 605-393-2476.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

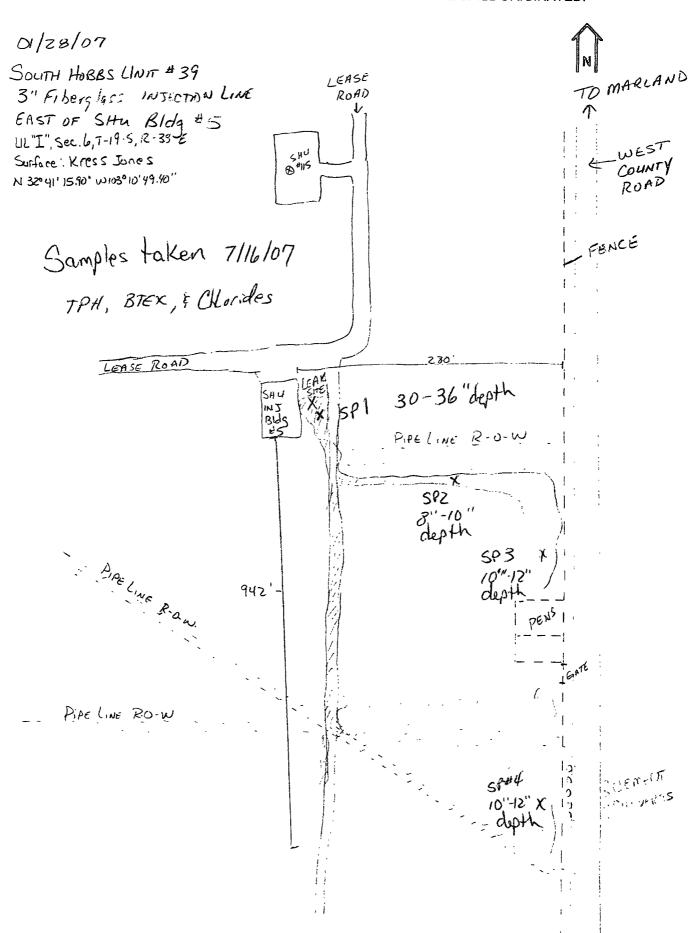
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

## SPILL MAP

PLEASE DRAW SKETCH OF SPILL AND INDICATE WHERE SPILL ORIGINATED.





#### PHONE (915) 673-7001 @ 2111 BEECHWOOD @ ABILENE, TX 78603

PHONE (506) 303-2326 0 101 E. MARLAND @ HOBBS NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805

**HOBBS, NM 88241** FAX TO: (505) 397-0397

Receiving Date: 07/16/07 Reporting Date: 07/17/07 Project Owner: OXY Project Name: SHU #39

Project Location: HOBBS, NM

Sampling Date: 07/16/07

Sample Type; SOIL Sample Condition: INTACT

Sample Received By: AB Analyzed By: A8

LAB NUMBER SAMPLE ID	BENŽENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE	07/16/07	07/16/07	07/16/07	07/16/07
H12894-1 SP 1	<0.002	<0.002	<0.002	<0.006
H12894-2 SP 2	<0.002	<0.002	<0.002	<0.006
H12894-3 SP 3	<0.002	<0.002	<0.002	<0.006
H12894-4 SP 4	<0,002	<0.002	<0.002	<0.006
Quality Control	0.115	0.100	0.104	0.313
True Value QC	0.100	0.100	0,100	D.300
% Recovery	115	100	104	104
Relative Percent Difference	15,1	10.3	12.4	10.7

METHOD: EPA SW-846 8021 B



PHONE (509) 393-2328 & 101 E. MARLAND & HOBBS. NM 68240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 07/16/07 Reporting Date: 07/17/07 Project Owner: OXY Project Name: SHU #39 Project Location: HOBBS, NM Sampling Date: 07/16/07 Sample Type: SOIL Sample Condition: INTACT Sample Received By: AB Analyzed By: BC/HM

	GRO	DRO	
	(C <sub>5</sub> -C <sub>10</sub> )	(>C10-C28)	CI°
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/ <b>Kg</b> )	(mg/Kg)

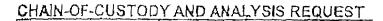
ANALYSIS DATE	07/16/07	07/16/07	07/16/07
H12894-1 SP 1	<10.0	<10.0	16
H12894-2 SP 2	<10.0	<10.0	1390
H12894-3 SP 3	<10.0	<10.0	336
H12894-4 SP 4	<10.0	<10.0	656
Quality Control	758	751	510
True Value QC	800	800	500
% Recovery	947	93.9	102
Relative Percent Difference	6.1	5.4	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CIT Std. Methods 4500-CITB \*Analyses performed on 1:4 w:v aqueous extracts.

Citemist What Poshe

Date

#### H12894A BBC



ARDINAL LABORATORIES, INC.

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<sup>†</sup> Cardinal cannot accept yerbal changes. Please fax written changes to 606-393-2476.

### MITCHELL ANALYTICAL LABORATORY

2638 Faudree Odessa, Texas 79765-8538 561-5579

Company:	Nalc	o Enei	rgy Se	ervi	ces					
Well Number: Lease: Location:	SHU T OXY	Γ-Pump					Sample Te Date Samp Sampled b	oled:	70 5/14/200 Kevin Ch	
Date Run: Lab Ref #:	5/18/ 07-ma	2007 ay-n346	96				Employee Analyzed b	#:	DOM	
				Diss	olved C	Gases				
							Mg/	L	Eq. Wt.	MEq/L
Hydrogen Sulf Carbon Dioxid Dissolved Oxy	e	(H2S) (CO2) (O2)			T ANAL		259.0	0	16.00	16.19
				(	Cations					
Calcium		(Ca++	)				450.2	4	20.10	22.40
Magnesium		Mg++	·)				156.1	6	12.20	12.80
Sodium Barium		(Na+) (Ba++	`				2,752.4	5	23.00	119.67
Danam		(Ba · ·	,	NO.	T ANAL	YZED				
Manganese		(Mn+)					.0	6	27.50	.00
					Anions					
Hydroxyl		(OH-)					.0	0	17.00	.00
Carbonate		(CO3=	)				.0	0	30.00	.00
BiCarbonate		(HCO3	•				1,490.8	4	61.10	24.40
Sulfate		(SO4=	)				450.0	0	48.80	9.22
Chloride		(Cl-)					4,304.7	3	35.50	121.26
Total Iron Total Dissolve Total Hardnes	s as C	aCO3					0.1 9,863.6 1,765.8	2	18.60	.01
Conductivity M	1ICRO	MHOS/	CM				13,18	0		
рН	7.790					Specif	ic Gravity 6	50/60	F.	1.007
CaSO4 Solubilit	y @ 80	) F.	14.	48		MEq/L,	CaSO	4 scal	e is unlikely	,
CaCO3 Scale Inde	ex									
70.0 80.0 90.0	1.5	440 570 790	100.0 110.0 120.0		1.790 2.030 2.030	130.0 140.0 150.0	0 2	2.300 2.300 2.530		