## 1R- 266

## REPORTS

# DATE: 4/27/1999



633 Seventeenth Street Suite 1550 Denver, Colorado 80202

April 27, 1999

**CERTIFIED MAIL** 

Mr. William C. Olson New Mexico Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

RE: April 1999 Progress Report Tatum Pit Closure Project Lea County, NM

### RECEIVED

#### MAY 0 6 1999

ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

Dear Mr. Olson:

Please find enclosed additional results from our monitor wells in the subject project area. These results are from water samples taken on April 1, 1999. These samples represent the seventh quarter of monitoring. We will continue to analyze water samples quarterly.

In our January 1999 progress report, we requested final closure for these projects: Vera (pit and monitor well #5) and State NBN (pit and monitor well #7). In your letter dated March 29, 1999, you requested a water table potentiometric map as well as the magnitude of the hydraulic gradient at these sites to complete your review of our request. Please be advised that we are currently constructing this data and it will be forwarded to you as soon as it is completed.

Additional monitor wells were constructed March 15-16 at the following pit sites: Bell A, State NBF, Sohio 1, Sohio A, and GS State. Complete water analyses from these new monitor wells are included in this report. It appears that an additional monitor well will be necessary for the Sohio 1 and Sohio A pit sites. These will be installed accordingly.

If you have any questions, please call me at (303) 293-9379.

Very truly yours,

Jamy G D

Larry G. Sugano Vice President - Engineering

cc: NMOCD Hobbs Office

Enclosures



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#### **Executive Summary**

#### Iva COM

Having completed six consecutive quarters of sampling monitor wells 1 & 2 with no BTEX component exceeding WQCC standards, we began a sampling program from the source well. The results are presented in this report. We do not plan to continue to sample wells 1 & 2.

#### Mable COM

Monitor well #3 has passed six consecutive quarters with no BTEX component exceeding WQCC standards. We do not plan to continue monitoring the location, but will provide complete analyses (RCRA 8 metals, BTEX, and major cation / anions) at the conclusion of the sampling program for the source well. Monitor well #4 showed a slight increase in BTEX concentrations reflecting a normal seasonal increase in water table levels. The source well shows moderate benzene and xylene concentrations.

#### Vera

The analytical results of six consecutive quarterly samplings described in our February 16<sup>th</sup> summary revealed no BTEX component concentration in excess of WQCC standards. Tipperary requests final closure of this pit.

#### Bell A

Monitor wells 6, 13 & 14 show normal increases in BTEX concentrations due to seasonal changes within the water table. An additional delineation well (#25) was drilled a distance of 150' southeast of the mid-point of wells 13 & 14. The drilling log is included within this report. The analytical results of water samples obtained from this new well reflect no BTEX, RCRA 8 metals or cation / anion concentrations in excess of WQCC standards. (See Environmental Labs of Texas log no. 17265).

#### NBF

Monitor wells 8, 15 & 16 show normal increases in BTEX concentrations due to seasonal changes within the water table. An additional delineation well (#26) was drilled at a distance of 150' southeast of the mid-point of wells 15 & 16. The drilling log is included within this report. The analytical results of water samples obtained from this new well reflect no BTEX, RCRA 8 metals or cation / anion concentrations in excess of WQCC standards. (See Environmental Labs of Texas log no. 17266).

#### NBN

The analytical results of six consecutive quarterly samplings described in our February 16<sup>th</sup> summary revealed no BTEX component concentration in excess of WQCC standards. Tipperary requests final closure of this pit.

#### Sohio State #1

Monitor wells 10, 17 & 18 show normal increases in BTEX concentrations due to seasonal changes within the water table. An additional delineation well (#28) was drilled at a distance of 150' southeast of the mid-point of wells 17 & 18. The drilling log is included within this report. The analytical results of water samples obtained from this new wells reflect acceptable RCRA 8 metals and cation / anion concentrations however the BTEX concentrations are in excess of WQCC standards. (See Environmental Labs of Texas log no. 17268). A fifth monitor well will be drilled, cased, developed and tested.

#### Sohio State A

Monitor wells 10, 19 & 20 show normal increases in BTEX concentrations due to seasonal changes within the water table. An additional delineation well (#27) was drilled at a distance of 150' southeast of the mid-point of wells 19 & 20. The drilling log is included within this report. The analytical results of water samples obtained from this new well reflect acceptable RCRA 8 metals and cation / anion concentrations however the BTEX concentrations are in excess of WQCC standards. (See Environmental Labs of Texas log no. 17267). A fifth monitor well will be drilled, cased, developed and tested.

#### G.S. State

Monitor wells 21 & 22 show normal increases in BTEX concentrations due to seasonal changes within the water table. An additional delineation well (#29) was drilled at a distance of 150' southeast of the mid-point of wells 21 & 22. The drilling log is included within this report. The analytical results of water samples obtained from this new well reflect no BTEX, RCRA 8 metals or cation / anion concentrations in excess of WQCC standards. (See Environmental Labs of Texas log no. 17269).

#### Satellite #4

BTEX concentrations within monitor wells 9 & 23 remain essentially unchanged from the January, 1999 sampling round.

Page

2

ENVIRONMENT LAB OF , Inc.

TIPPERARY ATTN: MR. VICTOR A. VICE P.O. BOX 857 TATUM, NM 88267 FAX: 505-398-6510 FAX: 281-646-8996

Receiving Date: 04/02/99 Sample Type: Water Project : None Given Project Location: None Given

Analysis Date: 4/05 & 4/06/99 Sampling Date: 04/01/99 Sample Condition: Intact/Iced

<b>FI 74</b>		BENZENE	TOLUENE	ETHYLBENZENE	m.p-XYLENE	o-XYLENE
ELT#	FIELD CODE	(mg/i)	(mg/i)	(mg/l)	(mg/l)	(mg/l)
17428	lva Com Source Well	2.05	4.15	0.902	5.50	3.80
17429	Mable Com Source Well	0.486	0.432	0.066	1.00	0.713
17430	Mable Com #4	0.012	0.008	0.002	0.010	0.006
17431	Beil A #6	0.139	0.013	0.006	0.011	0.006
17432	Bell A #13	0.021	0.018	0.003	0.009	0.006
17433	Bell A #14	0.108	0.015	0.004	0.009	0.005
17434	NBF #8	0.032	0.002	0.004	0.003	0.001
17435	NBF #15	3.11	1.98	0.214	0.767	0.435
17436	NBF #16	3.15	0.164	0.078	0.219	0.098
17437	Sohio St. #1- #10	2.34	0.067	0.168	0.203	0.100
17438	Sohio St. #1- #17	1.35	0.092	0.0 <b>79</b>	0.248	0.138
17439	Sohio St. #1- #18	3.35	0.331	0.114	0.469	0.280
17440	Sohio St. <b>#1- #28</b>	0.446	0.065	0.011	0.041	0.058
17441	Sohio St. A - #11	0.048	0.008	0.004	0.014	0.010
17442	Sohio St. A - #19	0.026	0.010	0.006	0.016	0.010
17443	Sohio St. A - <b>#20</b>	0.547	0.011	0.005	0.030	0.009
17444	Sohio St. A - #27	0.056	0.007	0.006	0.007	0.013
17445	G.S. State #21	0.124	0.008	0.042	0.012	0.007
17446	G.S. State #22	0.059	0.010	0.036	0.022	0.014
17447	G.S. State #29	0.004	<0.001	<0.001	0.035	<0.001
17448	Satellite #4 - #9	0.027	0.005	0.004	0.004	0.002
1 <b>7449</b>	Satellite #4 - #23	0.004	0.004	0.001	0.003	0.002
	% IA	102	99	97	97	99
	% EA	100	97	97	91	95
	BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8020,5030

Raland K

<u>4-7-99</u> Date

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TIPPERARY OIL & GAS 633 17TH DENVER, COLORADO 80202 FAX: 281-646-8996 (Mike Griffin)

Receiving Date: 03/17/99 Sample Type: Water Project : Tatum Dileneation Project Location: Tatum, New Mexico Analysis Date: 03/17/99 Sampling Date: 03/17/99 Sample Condition: Intact/loed

ELT#	FIELD CODE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYLBENZENE (mg/l)	m,p-XYLENÉ (mg/l)	o-XYLENE (mg/l)	
17265	#25 Bell	0.006	0.004	0.004	0.005	0.004	
17266	#26 NBF	0.002	0.003	0.001	0.002	0.001	
17267	#27 Sohio A	0.118	0.019	0.005	0.004	0.008	
17268	#28 Sohio #1	0.156	0.008	0.003	0.010	0.005	
1 <b>7269</b>	#29 G.S. State	0.012	0.012	0.004	0.021	0.041	

% IA	104	100	99	98	99
% EA	108	104	101	102	103
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8020,5030

Caladk 1

Raland K. Tuttle

<u>3-26-99</u> Date



TIPPERARY OIL & GAS 633 17TH DENVER. COLORADO 80202 FAX: 281-646-8996(Mike Griffin)

Receiving Date: 03/17/99 Sample Type: Water Project : Tatum Dileneation Project Location: Tatum, N.M.

Analysis Date: See below Sampling Date: 3/17/99 Sample Condition: Intact/Iced

		Ca	Mg	Na	ĸ	Chloride	Sulfate	CO3	HCO3
ELT#	Field Code	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
17265	#25 Bell	189	46	281	8.7	851	300	•	150
			• •					0	159
17266	#26 NBF	31.4	16	65	6.4	53	175	0	159
17267	#27 Sohio A	144	78	377	16.2	1028	195	0	329
17268	#28 Sohio #1	715	140	4660	20.8	8685	195	0	329
17269	#29 G.S. State	178	44	102	8.1	487	150	0	281
	ANALYSIS DATE	3/24/99	3/24/99	3/24/99	3/24/99	3/18/99	3/1 <b>8/99</b>	3/18/99	3/18/99
	QUALITY CONTROL TRUE VALUE	<b>53.9</b> 50.0	5.1 5.0	55.9 50.0	5.2 5.0	5140 5000	48 50	*	*
	% PRECISION	108	102	111	104	103	96	٠	*

METHODS: EPA 4.1.1, 215.1,242.1, 273.1, 258.1,325.3, 375.4, 310.2.

K Turl

Raland K.

3-26-99 Date



TIPPERARY OIL & GAS 633 17TH DENVER, COLORADO 80202 FAX: 281-646-8996(Mike Griffin)

Receiving Date: 03/17/99 Sample Type: Water Project : Tatum Dileneation Project Location: Tatum, N.M. Analysis Date: Hg 3/23/99 Analysis Date: 3/25/99 Sampling Date: 3/17/99 Sample Condition: Intact/load

#### TOTAL METALS (mg/L)

ELT#	Field Code	Ag	As	Ba	Cd	Cr	Hg	Pb	Se
17265	#25 Bell	ND	ND	0.250	ND	0.0110	ND	ND	ND
17266	#26 NBF	ND	ND	0.201	ND	0.0060	ND	ND	ND
17267	#27 Sohio A	ND	ND	0.276	ND	0.0110	ND	ND	ND
17268	#28 Sohio #1	ND	0.028	0.709	ND	0.0220	ND	0.0090	ND
17269	#29 G.S. State	ND	ND	0.369	ND	0.0080	ND	ND	ND
	REPORTING LIMIT	0.0050	0.005	0.010	0.0010	0.00 <b>5</b> 0	0.00020	0.0030	0.0050
	ND = Not detected at the reporting	limit.							
	% INSTRUMENT ACCURACY	100	106	95	100	94	103	98	112
	% EXTRACTION ACCURACY	96	104	97	100	96	96	99	102
	METHODS: EPA 200.7, 245.2								

dK Jun

3-26-99

Request for Analysis	уля Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль Ссль	• • • • • • • • • • • • • •			QC Package: (check one) CLP D Site Specific D Tier 1 D Tier 2 D QC Summary
GULF STATES JALYTICAL 6310 Rothway, Houston, Texas 77040 (713) 600-4444 Ex (713) 600-5646	Address: D P 0 #:	Other Oil Sludge Soil Water Water	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		Requested Turnaround Special Detection Limits M. N. 4-8. GSAI Group:
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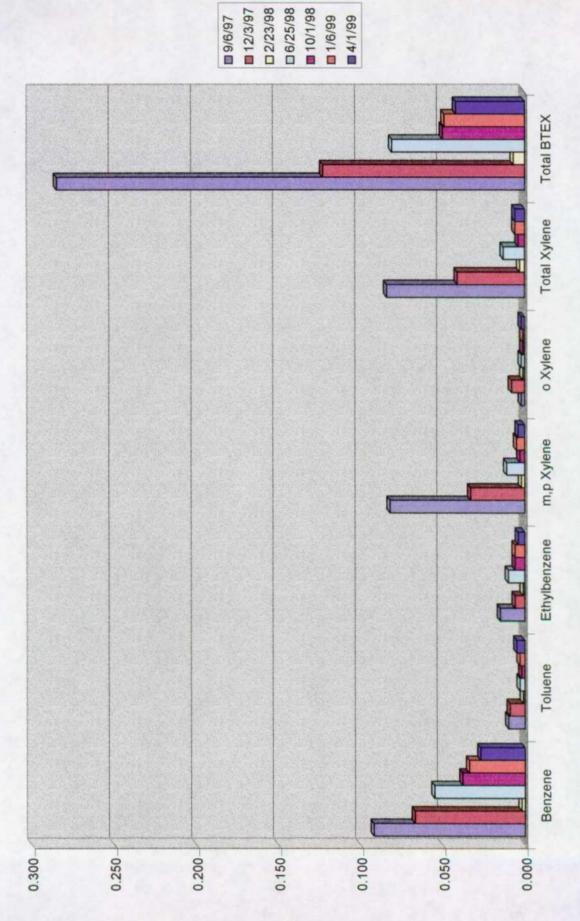
### Monitor Well # 9 Satellite # 4 Sampling Results

Lab.#	12485	13191	14065	14664	15596	16603	17448
Sample Date	16/9/6	12/3/97	2/23/98	6/25/98	10/1/98	1/6/99	4/1/99
Benzene	0.092	0.067	0.002	0.055	0.038	0.034	0.027
Toluene	0.010	0.009	0.001	0.003	0.002	0.003	0.005
Ethylbenzene	0.015	0.006	0.001	0.010	0.006	0.006	0.004
m,p Xylene	0.082	0.033	0.002	0.011	0.003	0.005	0.004
o Xylene	0.002	0.008	0.001	0.002	0.001	0.001	0.002
Total Xylene	0.084	0.041	0.003	0.013	0.004	0.006	0.006
Total BTEX	0.285	0.123	0.007	0.081	0.050	0.049	0.042









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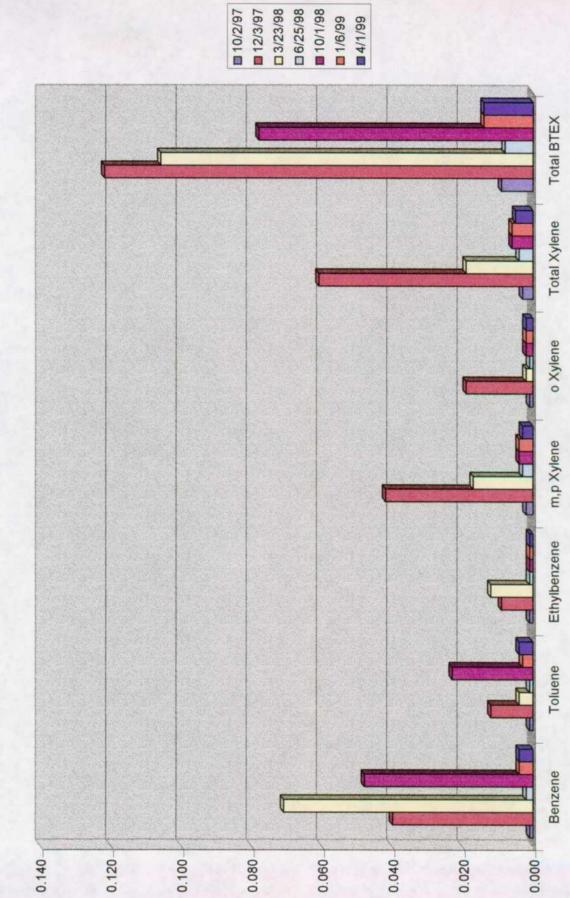


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### Monitor Well # 23 Satellite # 4 Sampling Results

Lab.#	12727	13192	14045	14677	15603	16593	17449
Sample Date	10/2/97	12/3/97	3/23/98	6/25/98	10/1/98	1/6/99	4/1/99
Benzene	0.001	0.040	0.071	0.002	0.048	0.004	0.004
Toluene		0.012	0.004	0.001	0.023	0.003	0.004
Ethylbenzene	0.001	0.009	0.012	0.001	0.001	0.001	0.001
m,p Xylene		0.042	0.017	0.003	0.004	0.004	0.003
o Xylene	0.001	0.019	0.002	0.001	0.002	0.002	0.002
<b>Fotal Xylene</b>	0.003	0.061	0.019	0.004	0.006	0.006	0.005
Total BTEX	0.009	0.122	0.106	0.008	0.078	0.014	0.014





Satellite 4 # 23

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