

REPORTS





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,

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any G &

Larry G. Sugano Vice President - Engineering

cc: NMOCD Hobbs Office

Enclosures



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 16th 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 16th 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.

ENVIRONMENTAL LAB OF T , 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

		BENZENE	TOLUENE	ETHYLBENZENE	m.p-XYLENE	0-XYLENE	
ELT#	FIELD CODE	(mg/l)	(mg/i)	(mg/l)	(mg/l)	(mg/l)	
17428	Iva 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	Bell 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 79	0.248	0.138	
17439	Sohio St. #1- #18	3.35	0.331	0.114	0.469	0.280	
17440	Sohio St. #1- #28	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 - #20	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	
17449	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

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Raland K. Tuttle

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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/Iced

ELT#	FIELD CODE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYLBENZENE (mg/l)	m.p-XYLENE (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 7269	#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

adk

Reland K Tuttle

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

		Ca	Mg	Na	κ	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	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	1 02	8.1	487	150	0	281
	ANALYSIS DATE	3/24/99	3/24/99	3/24/99	3/24/99	3/18/99	3/18/99	3/18/99	3/18/99
	QUALITY CONTROL	53.9	5.1	55.9	5.2	5140	48	•	×
	TRUE VALUE	50.0	5.0	50.0	5.0	5000	50	*	*
	% PRECISION	108	102	111	104	103	96	*	* .

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

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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
1 7269	#29 G.S. State	ND	ND	0.369	ND	0.0080	ND	ND	ND
	REPORTING LIMIT	0.0050	0.005	0.010	0.0010	0.0050	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								

3-26-99

6 Request for Analysis	51010 B- 51010 B- 51010 W	-2 ^h OS 9/9,00, 9/2,00, 100, 00, 00, 00, 00, 00, 00, 00, 00, 00,	20 (Y/N)										QC Package: (check one)	Tier 1 D Tier 2 D QC Summary	Yellow Copy Retained by Client Pink Copy Retained by Sampler
GULF STATES JALYTICAL	6310 Rothway, Houston, Texas 77040 (713) 690-4444, Fax (713) 690-5646 Address: Denven, CO Tele #: そのよの3 Fax #: Project #: Project Location:	# of Conta	ainers r Dther Oil udge Soil Vater Date Date Date Date	() 3-17 8:36 V	(17268)3-17 8: 44 2 3 1 1 (17268)3-17 4:05 2 3	· (17269) 3-17 9:25 4 3							Requested Turnaround Special Detection Limits	M. hutes. GSAI Group:	White Copy to Accompany Samples to Lab
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633 Seventeenth Street Suite 1550 Denver, Colorado 80202

KBEI FEB 2 2 1999

February 16, 1999

CERTIFIED MAIL

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

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

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 January 8, 1999. These samples represent the sixth quarter of monitoring. The total BTEX concentrations continue to decline. We will continue to analyze water samples quarterly from the subject project.

Because the following wells have had at least four consecutive quarters of acceptable BTEX concentrations, we formally request final closure for these projects: Vera (pit and monitor well #5), State NBN (pit and monitor well #7), Iva Com (monitor wells #1 & #2), Mable Com (monitor well #3). Please advise if this request is acceptable.

In response to your January 15, 1999 correspondence, please be advised that we are scheduling the installation of additional monitor wells in accordance with the conditions set forth in your letter. Additionally, we respectfully request an extension until May 1, 1999 to submit our next progress report rather than the April 1 deadline specified in your letter. This will allow us to stay on our current quarterly monitoring schedule. Please advise if this is not acceptable.

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

Very truly yours,

Lany G Degamo

Larry G. Sugano Vice President - Engineering

cc: NMOCD Hobbs Office

Enclosures





Executive Summary

Iva COM

Monitor Wells # 1, 2

No sample from either Iva COM well has ever revealed a BTEX component concentration in excess of standards. Tipperary may request closure of monitor wells nos. 1 and 2. The source well is still producing free product on occasion and has not been tested for BTEX.

Mable COM

Monitor Wells # 3, 4

Monitor well # 3 has recorded four consecutive quarters of acceptable BTEX concentrations. Tipperary may request closure of this well. Well # 4 has shown two consecutive quarters of acceptable BTEX concentrations. The source well has not been tested for BTEX.

Vera

Monitor Well # 5

Monitor well # 5 has shown six consecutive quarters of acceptable concentrations. Tipperary may request closure of the pit and monitor well.

Bell

Monitor Wells # 6, 13, 14

Monitor well # 13 has gone two quarters with acceptable concentrations. Wells # 6 & 14 continue to show benzene concentrations in excess of standards. Such concentrations are consistently trending lower. A delineation well is required for this site.

NBN

Monitor Well #7

Monitor well # 7 has shown four consecutive quarters of acceptable concentrations. Tipperary may request closure of the pit and monitor well.

NBF

Monitor Wells # 8, 15, 16

All well BTEX concentrations exceed standards. A delineation well is required for this site.



Page 2

Sohio State #1

Monitor Wells # 10

Though trending steadily downward, all well sample concentrations exceed standard. A delineation well is required for this site.

Sohio State "A"

Monitor Well # 11, 19, 20

The benzene concentrations in all three wells are trending sharply downward. At the present rate of decline, wells 19 & 20 will become delineation wells through natural attenuation within six months.

GS State #1

Monitor Wells # 12, 21, 22

Monitor well # 12 continues to contain free product. BTEX concentrations in wells 21 & 22 are trending downward though not as sharply as similar sites. Well # 12 should be evaluated for potential as a source well. A delineation well is required for this site.

Satellite # 4

Monitor Wells # 9, 23, 24

Well # 24 has shown four quarters of acceptable concentrations. The reported benzene concentrations from Well # 23 have been quite erratic but appear to be generally trending downward. Well # 23 presently shows acceptable concentrations. Well # 9 is steadily trending lower in benzene and should fall within acceptable limits within the next few sampling rounds.



Tipperary Corporation Tatum Pit Closure Project Quarterly Sampling Comparison

Well #	9/5/97	12/3/97	3/23/98	6/25/98	10/1/98	1/6/99
1	0.012	0.025	0.022	0.030	0.023	0.011
2	0.005	0.013	0.011	0.010	0.010	0.010
3	0.200	1.387	0.054	0.071	0.093	0.073
4	0.031	1.501	0.047	0.049	0.013	0.019
5	0.019	0.025	0.011	0.037	0.015	0.011
6	0.790	0.068	0.281	0.249	0.141	0.137
7	0.005	0.023	0.017	0.048	0.023	0.008
8	1.377	0.023	0.146	0.058	0.018	0.036
9	0.285	0.123	0.007	0.081	0.050	0.049
10	6.626	3.626	2.292	2.423	3.096	1.532
11	0.122	0.124	0.184	0.141	0.108	0.105
13	1.346	0.010	0.037	0.056	0.017	0.007
14	0.005	1.183	0.918	0.764	0.184	0.161
15	6.432	5.499	4.588	4.189	6.086	4.380
16	1.662	0.256	1.419	1.446	1.287	1.845
17	2.908	2.305	1.863	1.920	1.419	1.665
18	4.498	2.361	3.013	2.601	0.786	2.072
19	0.011	0.875	0.184	0.079	0.082	0.094
20	0.454	0.345	0.658	0.604	0.539	0.390
21	0.287	0.953	0.554	0.198	0.238	0.259
22	0.152	0.200	0.195	0.344	0.144	0.134
23	0.009	0.122	0.106	0.008	0.078	0.014
24	0.009	0.064	0.007	0.017	0.007	0.011
	107.873	80.628	59.517	42.903	27.480	13.023

C Series 19 Series10 Series 12 Series 13 Series 15 Series 16 Ceries 18 Ceries20 **Ceries22** C Series 23 Series 14 Ceries24 Ceries 11 Series 17 Ceries 21 Series 1 D Series8 Series9 Series2 D Series3 Series5 Series6 Series 7 Series4 g ഹ Sampling Quarter ო 2 0.000 40.000-120.000-100.000-80.000 --60.000-20.000-

Tipperary Quarterly Sampling Comparison

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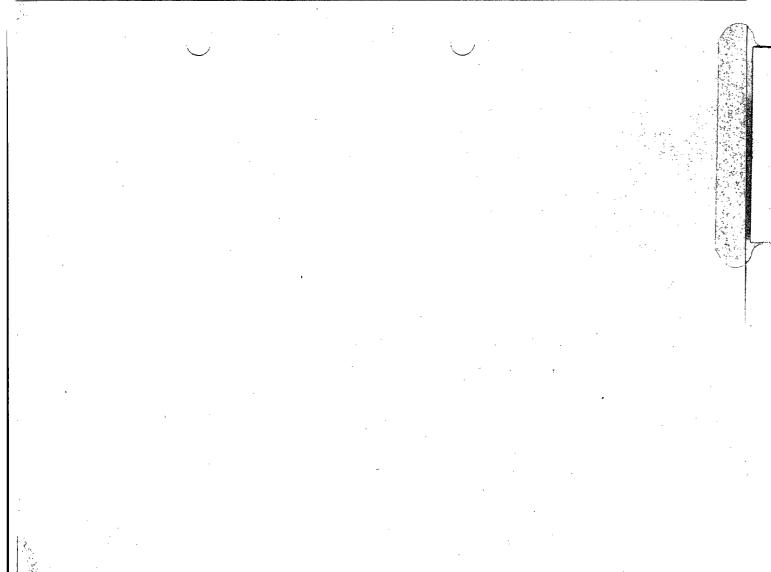
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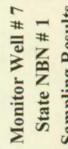
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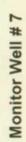
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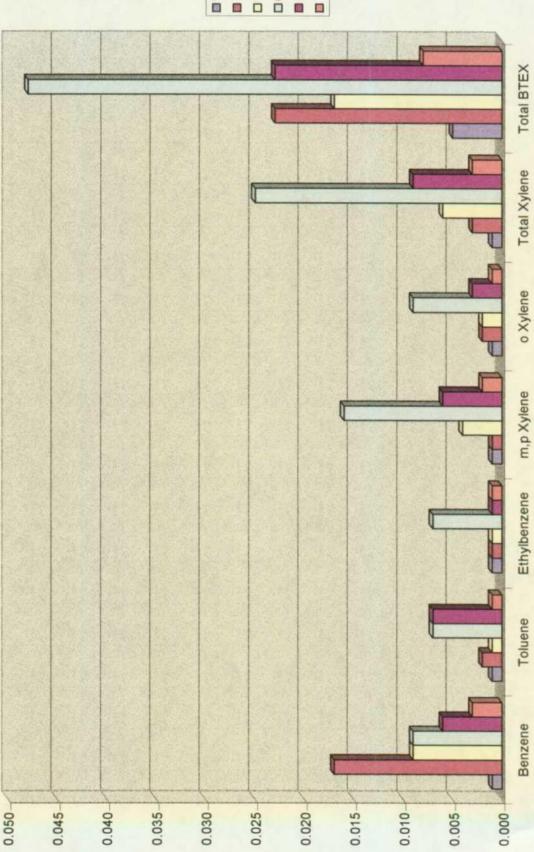


Sampling Results

Lab.#	12482	13174	14063	14662	15594	16601
Sample Date	9/5/97	12/3/97	3/23/98	6/25/98	10/1/98	1/6/99
Benzene	0.001	0.017	0.009	0.009	0.006	0.003
Toluene	0.001	0.002	0.001	0.007	0.007	0.001
Ethylbenzene	0.001	0.001	0.001	0.007	0.001	0.001
m,p Xylene	0.001	0.001	0.004	0.016	0.006	0.002
o Xylene	0.001	0.002	0.002	0.009	0.003	0.001
Total Xylene	0.001	0.003	0.006	0.025	0.009	0.003
Total BTEX	0.005	0.023	0.017	0.048	0.023	0.008







■ 9/5/97 ■ 12/3/97 □ 3/23/98 ■ 10/1/98 ■ 10/1/98