

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

September 9, 2003

Mr. David Turrentine Turrentine Oil & Gas

Re: Sample Plan Approval Request: Great Western Federal Tank Battery Site Reference UL- M, Sec – 28 T-9S R-38E Eddie Seay, Agent for Turrentine Oil & Gas, Letter Date: August 29, 2003

Dear Mr. Turrentine,

The Sample Delineation Plan Proposal submitted to the New Mexico Oil Conservation Division (NMOCD) by Mr. Eddie Seay for Turrentine Oil & Gas is **hereby approved** with the following condition:

- If the proposed sample plan does not adequately define horizontal and vertical delineation of contamination, the plan will be modified to determine the extents.

Please be advised that OCD approval of this plan does not relieve Turrentine Oil & Gas liability should their operations fail to adequately investigate contaminants that threaten ground water, surface water, human health or the environment. Additionally, OCD approval does not relieve Turrentine Oil & Gas of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need assistance please feel free to call or e-mail me at (505) 393-6161, x111 or email lwjohnson@state.nm.us

Sincerely,

Larry Johnson - Environmental Engineer

Cc:

Chris Williams - District I Supervisor Bill Olson - Hydrologist Paul Sheeley-Environmental Engineer

Jurrentine - 158919 Facility - PPAC 0604055103 Application - PPAC 0604055174

WORK PLAN GREAT WESTERN TANK BATTERY

For the investigation portion of the work plan, Turrentine plans to use a backhoe to delineate the vertical and horizontal extent of the contamination. A backhoe will be used to take samples at various locations noted on attached map, plus any other test site that the OCD or BLM deem necessary. The backhoe has the ability to take samples to approximately fifteen (15) feet. Samples will be taken at two (2) feet, five (5) feet, ten (10) feet and TD on each excavated area. Sampling will be taken and processed according to OCD guidelines for leaks, spills and releases. Turrentine will perform the testing phase within 30 days of approval.

Once the analytical has been reviewed, a remediation plan can be discussed with the regulatory agencies involved, and a formal plan for cleanup will be filed. Turrentine will notify OCD and BLM of all activities.

If you have any questions, please call.

Sincerely,

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236







& Proposed sampling points

July 18, 2003

NMOCD Environmental ATTN: Larry Johnson 1625 N. French Drive Hobbs, NM 88240-1750

RE: Turrentine Oil & Gas Work Plans

Mr. Johnson:

Find within work plans for the two sites located North of Bronco, NM, on the Gandy Ranch. I have included photos and water chemistry of the Gandy Windmill and a water well located approximately 2 miles West of the Gandy well.

We appreciate your time, and if you have any questions, please call.

Sincerely,

Eddie W Sen

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236

cc: Paul Evans, BLM



Turrentine Oil & Gas Inc.

Work Plan

8.20-03 BAU TALK WIEDDY. FOULEST THAT HE SUBMIT A DETAIL SAMPLE PLATE, DATE OF ANTICIPATED DORK PLAND TOXT THIS SUBMITTAL 15 TOO VAGUE TO ACCEPT. HO MENTION OF PIT CLOSURE ON GREAT WESTER FED

Great Western Federal

Unit M Section 28, Tws. 9 S., Rng. 38 E

Lea Co., NM



Work Plan Turrentine Oil & Gas Great Western Federal Tank Battery Sect. 28, Tws. 9 S., Rng. 38 E.

Purpose:

The purpose of this work plan is to cleanup and remediate in and around the battery site die to years of leaks and discharges. There were no new discharges, only landowner concerns and government compliance. This plan will allow remediation in a manner that will protect the environment and the groundwater surrounding the subject location.

Investigation:

Turrentine Oil & Gas proposed to use a backhoe to determine the vertical and horizontal extent of the oil contamination. Samples will be taken and screened on location using a PID for BTEX and sending final soil samples to the laboratory for TPH and chloride concentrations.

Method:

First of all, Turrentine plans to remove the existing battery and reconstruct the facility near the entrance to the lease.

Turrentine plans to excavate the highly contaminated soils and dispose this in an OCD approved landfarm facility. We also plan to mix and blend some of the lower contaminated material to a target limit set forth in the OCD "Guidelines for Remediation of Leaks, Spills and Releases". Based on the ranking score, we have a 1000 ppm TPH limit at this site.

The site will be restored to as close to original as possible, and contoured and seeded.

Turrentine Oil and Gas will notify the OCD and BLM before starting any work. All analytical data and sampling information will be provided in a report.

Turrentine Oil & Gas will follow all environmental and safety guidelines in it endeavor to remediate this site.

Please let me know if you approve.

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO: (505) 392-6949

Receiving Date: 06/10/03 Reporting Date: 06/15/03 Project Owner: D. TURRENTINE Project Name: GANDY/TURRENTINE Project Location: NW TATUM, NM Sampling Date: 07/10/03 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: AH

LAB NUMBER SAMPLE ID	P-Alkalinity (mg/L)	T-Alkalinity (mg/L)	Hardness (mg/L)	Chloride (mg/L)	Sulfates (mg/L)	рН (s.u.)
ANALYSIS DATE	07/14/03	07/14/03	07/14/03	07/14/03	07/14/03	07/14/03
H7798-1 TG #1 Gans	0	179	272	120	51.6	7.71
H7798-2 TB #1 3 5 19 19	0	212	266	92	39.6	7.58
Que Control	NR	NR	55	1020	54.39	7.01
Tr. Value QC	NR	NR	50	1000	50.00	7.00
% Recovery	NR	NR	110	102	109	100
Relative Percent Difference	NR	NR	0	0	0.7	0.6
METHODS: EPA 600/4-79-02	-	-	130.2	325.3	375.4	150.1
Standard Method	2320 B	2320 B	-	-	-	-
LAB NUMBER SAMPLE ID	Hydroxides (mg/L)	Carbonate: (mg/L)	Bicarbonat (mg/L)	Conductivity (umhos/cm)	TDS (mg/L)	
ANALYSIS DATE	07/14/03	07/14/03	07/14/03	07/14/03	07/15/03	
H7798-1 TG #1	0	0	219	1091	599	
H7798-2 TB #1	0	0	258	889	533	1
						-
Quality Control	NR	NR	1068	1322	NR	-
True Value QC	NR	NR	1000	1413	NR	
% Recovery	NR	NR	107	93.6	NR]
Relative Percent Difference	NR	NR	7.7	0.7	12.1]

METHODS: EPA 600/4-79-02 120.1 160.1 2320 B 2320 B 2320 B Standard Method -

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, whother limitation, business interruptions, loss of use, or loss of profits subsidiaries, affiliated or pagessors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

			Salar Sa	AK HINBURGES AK	Jo ta series Geetty Beeres Beeres		Stall Stall Stall	A H Con R M Lewis child Some Fe W.H. And	OIIDev Co. of Tex	• • • • • • • • • • • • • • • • • • •
	26 25 6	isurr red		irt.west eto: ar/J. Wea	29 27 27 27 27 27 27 27 27 27 27 27 27 27	And Assessed	Mock C. Gondy, S Mock C. Gondy, S Mocdo etal 105200 PMALENDE DESARY PMALENDE DESARY	Moct C Mill NC Moods Feature 10 Slog 2 Million		and the second s
	Red Pedicin	(Consist of the constant of th		8	A Federal	HBP office HBP office HBP HBP HBP	00) (00) (00) (00) (00) (00) (00) (00)		1 Hubereta W JLL Cox Pocific Huz Inna (Tex Pocific) Proce In Cox I Strate Cox Marco UL Cox I Strate Cox Marco US MI US M Pocific I Pocific Cox Pocific I Pocific I Pocific Cox Pocific I Pocific I Pocif	N. Huberstol M. JI M. Pocific) 1155 S. Massure (T S. Massure (T S. Massure (T) S. Massure
	Grt Mest'n, etol Gr. Nest'n, Fred Gr. M. 1994, S. M. 1994, Brown		n-i-s	West'n Drig o Isse Dra Peorson-Sibert Seets of Make West Drig West Drig Metermol At rule S. Success Metermol At rule S. Success Metermol At rule S. Success	Marathon		Greatern, etcl.	Fig. Red Fig. R	Texas Pacific) (Texas Pocific) Fina Fina Fina Fina Fina Fina Fina Fina	Texas Pacific) HBP SATS 059 21 SATS 050 21 SATS 050 25 SATS 050 25
e Alexandre	Gritwiestin etdi MSS MSS WINA WINA WINA WINA			Brown 51 19 Feed Kelly	Aikman Brossfed	Called Chem, Mesh	varethorn) Fras.codfam.ctol Fr Gessification (100 / 500 / 500 / 500) to 5200 (LR.McDermott) Ukarahon (R.S. Cooley) Ukarahon (R.S. Cooley) Ukarahon (R.S. Cooley) (L.) Fed (Bilbry Si ~ 2 emoth Fed (Bilbry Si ~ 2 owy) W.B. Bilbry Si ~ 2 owy) W.B. Bilbry Si	(Nigrethon) Fbg Refer Internation Internation Internation (Internation (Internation) (All Milliopers (2)	A.A.C. A.A.C. Dobt 1995 - Clair - S. M.I - S. M.
60 - I 8	HBC	R S Cooligida 2-1-6(3) N.W.03318 S.M. Basen, S	2	Yotes Pet. Sabe Kess Mobilden Kess Mobilden Kess Mobilden Kess Mobilden Kess Mobilden Kess Kess Kess Kess Kess Kess Kess Kess Kess Kess Kess Kess Kess Kess Kess Kess	(Heep O(1) Flag-Redfern 068035 Brown 35 J.M. Brown S	Brown 84" P8 - 2 22 - 0 Ivan Brown S	Jackson 1 Huber Jackson 1 Oel Jackson 1 Jackson The State of Chombers K U.S., MI 2 Jaco W.P. Bilbrey	C.W.KEY	Sharey S	
	A range of the second s	" (Aztec) "Davenpor" "Davenpor" "Anonana Mila In Compact Mila In Compact Mila	Flog-Redfern to base of sk "Brown" el Li Deedi Li Brow	Assoc OSE (Demoniton C1); Tent France (Demon	(J.C. Russell) Gene Milfordetb 0 6 7 6 9 3 0 6 7 6 9 3 7 Toles - Fed	Flag 1 T.L. Red Fem Ingram etcl., 17.1.82 to 5200, <u>1</u> .5591 066884 <u>1</u> .5591 (Del-Apache) helow 5200		S.R. No- bie Fdn., MI G.T.Hall M.I. G.T.Hall M.I.	Mountain Fuel Supply 2-1-82 15048 U. S., M Bill Miller	
	Mones Provide Provident Provide Provident Provide Provident Provide Provident Provide Provident Provide Provide Provident Provide Provide Provi	a	P P P		Collega Collega Collega Collega Collega Ted Coundy,S	NG CONT	Aran Drawn Ar Tywer Man Dorwn C Thellini G T. Hellini Aran Drawn	An and an	Carlos and a second se	
	Harrist	ti fet of Arright	W Duncan, etal T i sez	Agriculta Kotherine D. L.F.W. Collingre D. Dugery Refer A. 1994 Refer Acts 24 Refer Acts 24 Refer Acts 25 Refer Ac	WH-Gilmore					



.... in the second second

and the second

1.00









ي.



