

2R - 31

APPROVALS

YEAR(S):

1994



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

BRUCE KING
GOVERNOR

OIL CONSERVATION DIVISION
ARTESIA DISTRICT OFFICE



ANITA LOCKWOOD
CABINET SECRETARY

MATTHEW BACA
DEPUTY SECRETARY

March 23, 1994

Mr. George M. Harris, Jr.
Alpha West, Inc.
200 N. Loraine, Suite 500
Midland, Texas 79701

RE: Bioremediation Clean-up Procedure
Pogo Producing Company
23 State #1
Sec.23, T.25S, R.27E
Eddy County, New Mexico

Dear Mr. Harris:

The New Mexico Oil Conservation Division (OCD) has completed a reviewed of your "Bioremediation Clean-up Procedure" dated March 15, 1994 for bioremediation at the Pogo Producing Company 23 State #1.

The above mentioned closure plan is hereby approved with the following conditions:

1. The remediation project will conform to the OCD "Guidelines For Remediation of Leaks, Spills and Releases."
2. Provide the OCD with the composition of the biosystem or Material Safety Data Sheets.
3. Verticle extent will be determined and enclosed in the final report.

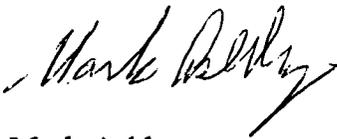
Mr. George Harris
March 23, 1994
Page 2

4. A closure report will be submitted to the OCD district and Santa Fe offices within 60 days of final clean-up.
5. The OCD will be notified at least 72 hours in advance of all closure activities such that the OCD may have the opportunity to witness the activities and/or split samples.

Please be advised that OCD approval does not relieve Pogo Producing Company of liability if closure activities determine that contamination exists which is beyond the scope of the closure plan. In addition, OCD approval does not relieve Pogo Producing Company of liability for compliance with other federal, state or local laws and/or regulations.

If you have any questions, please do not hesitate to contact me at (505) 748-1283.

Sincerely,



Mark Ashley
District Geologist

cc: Bill Olson - OCD, Santa Fe, New Mexico

2R - 31

**GENERAL
CORRESPONDENCE**

YEAR(S):

1994



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
ARTESIA DISTRICT OFFICE

BRUCE KING
GOVERNOR

RECEIVED

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ANITA LOCKWOOD
CABINET SECRETARY

MATTHEW BACA
DEPUTY SECRETARY

August 9, 1994

Mr. Don Riggs
Pogo Producing Company
5 Greenway Plaza, Suite 2700
Houston, Texas 77046-0504

RE: Bioremediation Clean-up Procedure
Pogo Producing Company
23 State #1
Sec.23, T.25S, R.27E
Eddy County, New Mexico

Dear Mr Riggs:

On July 21, 1994 the New Mexico Oil Conservation Division (OCD) made a field inspection of Pogo's reported spill at the above mentioned location. The field inspection consisted of hand auguring through the spill area to delineate the vertical extent of contamination, and sampling an adjacent water well in the area.

To determine the vertical extent, the OCD hand augured a borehole to a total depth of approximately 9 feet. During auguring activities field soil samples were surveyed for volatile organics using a hand held photoionization detector. Volatile organic concentrations in samples from all depths were above 100 ppm.

Inspection of water wells revealed one located approximately 1/2 mile southeast of the spill in unit letter G of Sec.23, T.25S, R.27E. Total depth of the well is 76 feet and the water table is approximately 25 feet from the surface.

The OCD's field inspection has shown that petroleum contaminants have migrated vertically at least 9 feet in the spill area. The full vertical extent has yet to be determined. Based on the site ranking criteria within the enclosed OCD guidelines and the measured depth to ground water the required degree of remediation is 10 ppm Benzene, 50 ppm total BTEX, and 100 ppm TPH.

Mr. Don Riggs
August 9, 1994
Page 2

As a result of this inspection, the OCD requires that Pogo determine the vertical extent of the contamination and that Pogo supply the OCD with a report containing the vertical extent of contamination and the remainder of the conditions provided in the OCD's letter dated March 23, 1994. This report will be submitted to the OCD Artesia Office and the OCD Santa Fe Office by October 9, 1994.

Please notify the OCD at least 72 hours in advance of all activities such that the OCD may have the opportunity to witness the events and/or split samples. If you have any questions, please do not hesitate to contact me at (505) 748-1283.

Sincerely,



Mark Ashley
District Geologist

xc: Bill Olson, NMOCD, Santa Fe, New Mexico
George M. Harris, Jr., Alpha West, Inc., Midland, Texas

State of New Mexico

Energy, Minerals and Natural Resources Department

SUBMIT 2 COPIES TO
APPROPRIATE DISTRICT
OFFICE IN ACCORDANCE
WITH RULE 116 PRINTED
ON BACK SIDE OF FORM

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Abilene, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

NOTIFICATION OF FIRE, BREAKS, SPILLS, LEAKS, AND BLOWOUTS

OPERATOR Pogo Producing Company					ADDRESS P.O. Box 2504, Houston, TX 77252			TELEPHONE # (713) 297-5000	
REPORT OF	FIRE	BREAK	SPILL X	LEAK	BLOWOUT	OTHER*			
TYPE OF FACILITY	DRLG WELL	PROD WELL	TANK BTRY	PIPE LINE	GASO PLNT	OIL RFY	OTHER* (Frac tanks) Temporary Tank Battery		
FACILITY NAME: State 23 Well #1									
LOCATION OF FACILITY Unit D, 660 FNL, 660 FWL					SEC. 23	TWP. 25S	RGE. 27E	COUNTY Eddy	
DISTANCE AND DIRECTION FROM NEAREST TOWN OR PROMINENT LANDMARK									
DATE AND HOUR OF OCCURRENCE 3/2/94 Overnight					DATE AND HOUR OF DISCOVERY 3/3/94 A.M.				
WAS IMMEDIATE NOTICE GIVEN?		YES X	NO	NOT RE-QUIRED	IF YES, TO WHOM Ray Smith of NMOCD				
BY WHOM					DATE AND HOUR				
TYPE OF FLUID LOST Crude oil with some produced water.					QUANTITY OF LOSS 300 bbls.		VOLUME RE-COVERED 0		
DID ANY FLUIDS REACH A WATERCOURSE?		YES	NO X	QUANTITY NA					
IF YES, DESCRIBE FULLY** NA									
DESCRIBE CAUSE OF PROBLEM AND REMEDIAL ACTION TAKEN** This facility was vandalized. Overnight, some one closed one of the equalizer line valves, thus causing produced crude oil and water to spill onto the ground. The off pad area will be disked and nutrients will be added per NMOCD recommendations.									
DESCRIBE AREA AFFECTED AND CLEANUP ACTION TAKEN** The production pad and an area approximately 65 yards by 15 yards off the pad was stained with oil.									
DESCRIPTION OF AREA		FARMING	GRAZING	URBAN	OTHER* Brush country				
SURFACE CONDITIONS		SANDY X	SANDY LOAM	CLAY	ROCKY	WET	DRY X	SNOW	
DESCRIBE GENERAL CONDITIONS PREVAILING (TEMPERATURE, PRECIPITATION, ETC.)** Dry, Approximately 75° F.									

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

SIGNED *Don A. Riggs*

PRINTED NAME AND TITLE: Manager of Environmental Operations
DATE: 3/3/94

Re: State 23 #1

5-12-94

Mark,

The State 23 #1 was visited by myself & E.L. Gonzales of Alpha-West on Wednesday, 5-11-94, to evaluate spill response action to be taken.

E.L. intends to deep disc off the pad & apply nitrogen, bacteria & a catalyst.

On the pad, E.L. intends to power wash the caliche with bacteria in the water.

Pogo is in the process of abandoning this site & turning it over to Yates Petroleum. We will wait to powerwash the pad until after the equipment, including the frac tanks, are removed so we can get to all of the contamination.

I'm on my way to Roswell to pick up surface & groundwater maps from the State Engineers office. I'll keep you informed of our progress.

DON RIGGS
MANAGER OF
ENVIRONMENTAL OPERATIONS



POGO PRODUCING COMPANY

5 GREENWAY PLAZA, SUITE 2700
HOUSTON, TEXAS 77046-0504
713/297-5045
FAX 713/297-4926

P.O. BOX 2504
HOUSTON, TEXAS 77252-2504

Don A. Riggs



State of New Mexico
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT
 Santa Fe, New Mexico 87505

STATE OF
 NEW MEXICO
 OIL
 CONSERVATION
 DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

Telephone Personal

Time 0900

Date 3/24/94

Originating Party

Other Parties

Bill Olson - Envir. Bureau

Mark Ashley - OED Activities

Subject

Pago Producing - 23 state federal #1 spill remediation

Discussion

Reviewed his fax on Pago remediation of 300 bbl spill of oil
 Question where will they wash oil?

Told to approve with conditions

- 1.) Composition of bio-system provided to OED
- 2.) Soils remediated to OED guidelines
- 3.) document vertical extent of contamination
- 4.) final report to OED within 60 days of remediation

Conclusions or Agreements

He will send out approval with cc to me

Distribution

Signed

Bill Olson

ALPHA WEST, INC.

200 N. LORAIN, SUITE 500
MIDLAND, TEXAS 79701
915-683-5384 FAX 915-684-8746

MAR 18 1994

OIL CONSERVATION DIVISION
Mr. Mark Ashley
Drawer DD
Artesia, New Mexico 88211

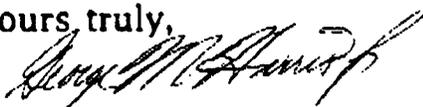
March 15, 1994

Dear Mr. Ashley:

Per request of Mr. E L Gonzales, I am sending you the proposed bioremediation procedure to be performed at the **23 State Federal #1** location for **POGO Producing Company**.

I believe Mr. Gonzales has discussed this job and procedure with you and wanted me to send you a hard copy for your information. If you have any questions, feel free to call me at 915-683-5384.

Yours truly,



George M. Harris, Jr.
Petroleum Engineer
Vice President of Operations

**POGO PRODUCING COMPANY
23 STATE FEDERAL #1
EDDY COUNTY, NEW MEXICO**

**BIOREMEDIATION CLEAN-UP
PROCEDURE**

WELLSITE LOCATION TREATMENT:

Prepare microbial system. Clean location using high pressure application of microbial system to wash oil from area. Utilize 720 G of bio-system.

OFF WELLSITE RANGELAND TREATMENT:

Install tiller on tractor and prepare affected soil by tilling. Mix microbial system and apply to soil. Incorporate system into the soil with the tiller. Re-apply and incorporate, utilize a total of 3 - 720 G. loads of bio-system. After 30 days apply first maintenance phase. If necessary, a second maintainance treatment will be applied after 60--- days.