OK

District I
P.O. Box 1980, Hobbs, NM

District II
P.O. Drawer DD, Artesia, NM 88210

District III
1000 Rio Brazos Rd, Aztec, NM 87410

Denny E. Foust
DEPUTY OIL & GAS INSPECTOR
DEC 17 1998

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

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JUL 31 1998
OIL CON. DIV.
DIST. 3

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Burlington) **Telephone:** 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Witt #1 (Burlington)

Location: Unit N Sec 33 T 29N R 11W County San Juan

Pit Type: Separator ☐ Dehydrator ☑ Other Abandoned DH pit.

Land Type: BLM ☐ State ☐ Fee ☑ Other

Pit Location: Pit dimensions: length 20 ' width 20 ' depth 3 '

(Attach diagram) Reference: wellhead ☑ other

Footage from reference: 130'

Direction from reference: 85 Degrees ☐ East North ☑ of ☑ West South ☐

Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	20
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1,000 feet from all other water sources)	Yes No	(20 points) (0 points)	0
Distance to Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points)	20
	RANKING SCORE (TOTAL POINTS) :		40

Witt #1 (Burlington)

Date Remediation Started: 4/21/98 **Date Completed:** 4/21/98

Remediation Method: Excavation X Approx. Cubic Yard 134

(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds) 134

Other

Remediation Location: Onsite X Offsite

(i.e., landfarmed onsite, name and location of offsite facility)

Backfill Material Location:

General Description of Remedial Action:

Excavated contaminated soil to a pit size of 39' X 31' X 3' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

*** Sandstone encountered at 3'. See attached risk analysis and lab analysis form.

Ground Water Encountered: No ✔ Yes Depth

Final Pit Closure Sampling:

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample Location Bottom of excavation.

Sample depth 3'

Sample date 4/21/98 Sample time 11:25:00 AM

Sample Results

Benzene (ppm) 7.4000

Total BTEX (ppm) *** 271.4000

Field headspace (ppm)

TPH (ppm) 750.00 Method 8015

Vertical Extent (ft) Risk Analysis form attached Yes ✔ No

Ground Water Sample: Yes No ✔ (If yes, see attached Groundwater Site Summary Report)

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

DATE **July 27, 1998**

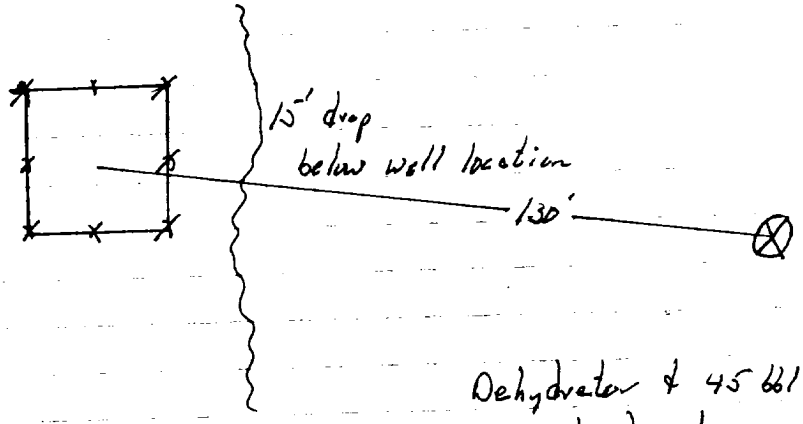
SIGNATURE Gary Cook

PRINTED NAME AND TITLE **Gary Cook**
Environmental Technician III

Witt #1

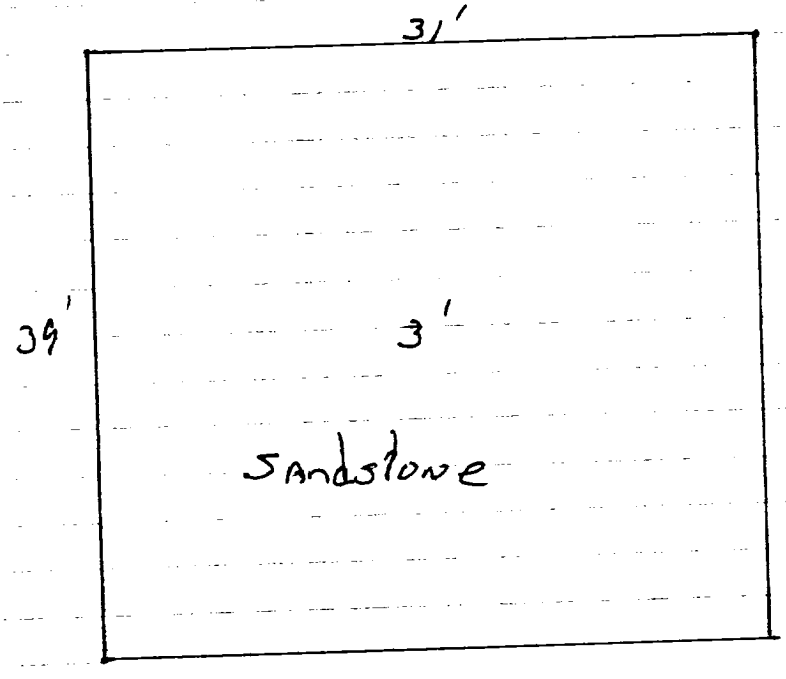
4/21/97

Burlington Resources
Sec. 33, 29 N, 11 W, N



Dehydrator & 45 bbl removed from service
pit abandoned.

End of excavation:



OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

On Site Technologies, LTD.

Date: *29-Apr-98*

CLIENT: PNM - Public Service Company of NM
Project: Witt #1 (BR)
Lab Order: 9804032

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *29-Apr-98*

Client: PNM - Public Service Company of NM
Work Order: 9804032
Lab ID: 9804032-01A **Matrix:** SOIL
Project: Witt #1 (BR)

Client Sample Info: Witt #1 (BR)
Client Sample ID: 9804211105; Bottom @ 3ft.
Collection Date: 4/21/98 11:25:00 AM
COC Record: 7113

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
		SW8015				Analyst: HR
DIESEL RANGE ORGANICS						
T/R Hydrocarbons: C10-C28	750	25		mg/Kg	1	4/27/98
		SW8020A				Analyst: DC
BTEX						
Benzene	7400	1000		µg/Kg	1000	4/24/98
Toluene	52000	2000		µg/Kg	1000	4/24/98
Ethylbenzene	16000	1000		µg/Kg	1000	4/24/98
m,p-Xylene	160000	2000		µg/Kg	1000	4/24/98
o-Xylene	36000	1000		µg/Kg	1000	4/24/98
Surr: Fluorobenzene	104.0	70-130		%REC	1000	4/24/98
Surr: 1,4-Difluorobenzene	96.7	70-130		%REC	1000	4/24/98
Surr: 4-Bromochlorobenzene	109.7	70-130		%REC	1000	4/24/98

271400
271.400ppm

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *29-Apr-98*

Client: PNM - Public Service Company of NM
Work Order: 9804032
Lab ID: 9804032-02A **Matrix:** SOIL
Project: Witt #1 (BR)

Client Sample Info: Witt #1 (BR)
Client Sample ID: 9804211125; Walls @ 2ft.
Collection Date: 4/21/98 11:25:00 AM
COC Record: 7113

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
		SW8015				Analyst: HR
DIESEL RANGE ORGANICS						
T/R Hydrocarbons: C10-C28	52	25		mg/Kg	1	4/27/98
		SW8020A				Analyst: DC
BTEX						
Benzene	150	50		µg/Kg	50	4/24/98
Toluene	600	100		µg/Kg	50	4/24/98
Ethylbenzene	250	50		µg/Kg	50	4/24/98
m,p-Xylene	2200	100		µg/Kg	50	4/24/98
o-Xylene	750	50		µg/Kg	50	4/24/98
Surr: Fluorobenzene	103.5	70-130		%REC	50	4/24/98
Surr: 1,4-Difluorobenzene	102.4	70-130		%REC	50	4/24/98
Surr: 4-Bromochlorobenzene	108.4	70-130		%REC	50	4/24/98

3950
3.950 ppm

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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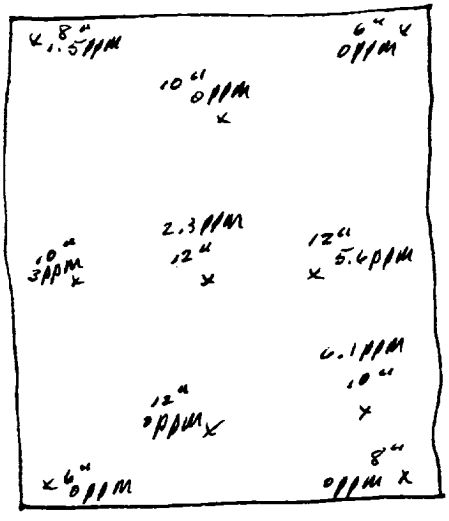
WHH
~~Burlington~~ #1
(N) 33-29N-11W
Burlington
San Juan County
Lab Sample # ~~980604[illegible]50~~ 9806041010
Field Head Space 15 ppm

N



OFF: (505) 325-5667

ON SITE

TECHNOLOGIES, LTD.

LAB: (505) 325-1556

On Site Technologies, LTD.

Date: *08-Jun-98*

CLIENT: PNM - Public Service Company of NM
Project: Landfarm Composites
Lab Order: 9806013

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

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OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *08-Jun-98*

Client: PNM - Public Service Company of NM
Work Order: 9806013
Lab ID: 9806013-06A **Matrix:** SOIL
Project: Landfarm Composites

Client Sample Info: Burlington Witt #1
Client Sample ID: 9806041010: Landfarm
Collection Date: 6/4/98 10:10:00 AM
COC Record: 5224

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015**				Analyst: **HR**
T/R Hydrocarbons: C10-C28	53	25		mg/Kg	1	6/5/98

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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Well Name:	Witt #1 (Burlington)
Well Legals:	Unit N, Sec 33, T29N, R11W
Pit Type:	Dehydrator
Horizontal Distance to Surface Water:	Less than 200 feet
Groundwater Depth:	Less than 50 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Witt #1 (Burlington) well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 30 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash (Kutz Wash Canyon). (Reference: topographic map.)

2. PNM excavated 134 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached analytical results). Source removal minimizes the possibility of surface water contamination.

3. Sandstone was encountered at 3 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.

4. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the Witt #1 (Burlington) well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.