

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Risk Bedrock

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OIL CON. DIV.
DIST. 3

PIT REMEDIATION AND CLOSURE REPORT

Operator: Chateau Oil And Gas (Williams Field Services) Telephone: (801) 584-6361
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900
WellName: CHAMPLIN #2A (85082)
Location: Unit or Qtr/Qtr Sec N Sec 35 T 27N R 4W County Rio Arriba
PitType Dehydrator
LandType: Forest

Pit Location: Pit dimensions: length 16 ft., width 15 ft., depth 15 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: ft.

Direction from reference: 152 Degrees East of North

Depth To Ground Water:	Less than 50 feet	(20 points)
(Vertical distance from	50 feet to 99 feet	(10 points)
contaminants to seasonal	Greater than 100 feet	(0 points)
high water elevation of		<u>0</u>
ground water)		

Wellhead Protection Area:	Yes	(20 points)
(Less than 200 feet from a private	No	(0 points)
domestic water source, or; less than		<u>0</u>
1000 feet from all other water sources)		

Distance To Surface Water:	Less than 200 feet	(20 points)
(Horizontal distance to perennial	200 feet to 1,000 feet	(10 points)
lakes, ponds, rivers, streams, creeks,	Greater than 1,000 feet	(0 points)
irrigation canals and ditches)		<u>0</u>

Ranking Score (TOTAL POINTS): 0

Date Remediation Started: 7/23/98

Date Completed: 7/23/98

Remediation Method: Excavation ☒

Approx. Cubic Yard 135

(check all appropriate sections)

Landfarmed ☒Insitu Bioremediation ☐

Other Landfarmed soil after mechanical aeration. LF Headspace 0ppm

Remediation Location: Onsite ☒ Offsite

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

General Description Of Remedial Action:

The pit was excavated to remove gross petroleum contamination. The excavated material was mechanically aerated and placed into an onsite landfarm.

Ground Water Encountered: No

Final Pit:

Sample location CHAMPLIN 2A-V-EXFL-01

Closure Sampling:

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

Two samples were collected, one sample from the excavation bottom and the second sample was made up of 4 points from each excavation wall.

Sample depth 16 Feet

Sample date 7/23/98

Sample time 11:25

Sample Result

Benzene (ppm) <0.05

Total BTEX (ppm) 1090.85

Field Headspace (ppm)

TPH (ppm) 20

Ground Water Sample: No

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

DATE 10-11-99 Rev.

SIGNATURE 

PRINTED NAME Mark Harvey for Williams Field Services
AND TITLE PROJECT COORDINATOR



Environmental Services
P.O. Box 58900
Salt Lake City, UT 84158-0900

Pit Closure and Retirement Addendum- Risk Assessment

Any residual contamination remaining at the Champlin #2A poses low risk to human health and the environment. This conclusion is based in part on the information below:

Toxicity Information

Toxicity values for TPH have not been established due to the variability of the chemical makeup of TPH. Normally, the toxicity is based on the toxicity of the particular constituents of concern which may be present and are evaluated based on health-based standards. The most common constituents examined include benzene, ethylbenzene, toluene, and xylene.

In the absence of constituents of concern or when the concentrations of the constituents of concern are negligible, the acceptable level of TPH is established by considering the following:

- No liquid product should remain in the soil
- The TPH should not harm vegetation
- The TPH concentrations should not create an odor nuisance
- Hydrocarbon vapors which may emanate from the impacted soil should not generate harmful or explosive vapors
- Site monitoring should indicate that TPH levels are stable or declining

While residual TPH and / or BTEX contamination may exist at this site, excavation activities were suspended based on encountering bedrock or production equipment which limited continued safe excavation. Based on the analysis of the soil confirmation sample and the site conditions, closure of this site is warranted for the following reasons:

1. Soils which exhibited high levels of TPH and BTEX have been removed.
2. Residual TPH concentrations are below levels which would be problematic based on the criteria above.
3. Discharge has been eliminated and a steel tank installed to prevent any future release to soils.
4. Depth to groundwater is estimated at greater than 100'.
5. Vertical migration of contamination is limited due to bedrock and/or the low vertical hydraulic conductivity of underlying soils.
6. TPH concentrations will not increase and are likely to degrade over time in-situ.

Since there are no nearby receptors or domestic water sources, this site poses little risk to human health and the environment. Closure is justified based on the relatively low total petroleum hydrocarbon (TPH) concentration and the fact that benzene, toluene, ethylbenzene, and xylene meet applicable closure criteria. Additional information may be found in the Technical Background Document titled: *Risk Based Closure of Unlined Surface Impoundment Sites, San Juan Basin, New Mexico.*

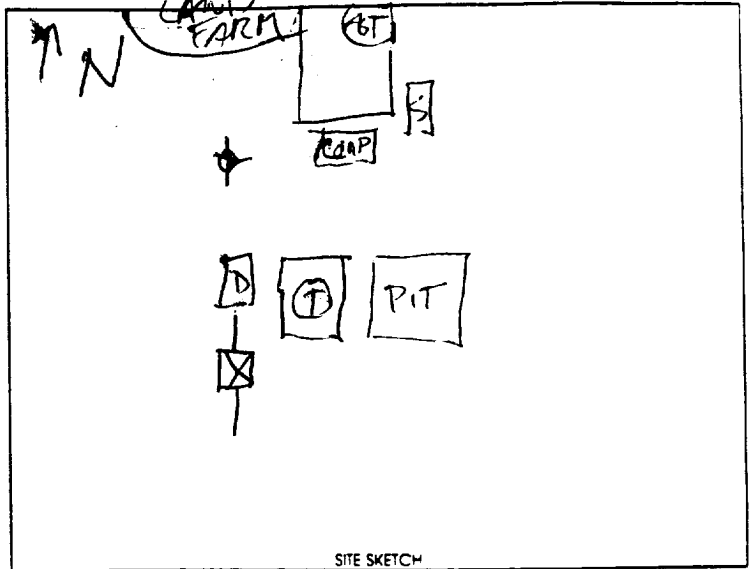
PIT RETIREMENT FORM

Date: 7/26/98 85082 Weather SUNNY
 Well Name CHAMPLIN 2A Operator CHATEAU Sec 35 T27N R36W UL
 Land Type: BLM STATE FEE INDIAN County RIO ARriba
 One Call Made (505-765-1234)? Y N
 Line Marking Evident? Y N

Pit Location:

Reference Wellhead X Other _____
 Distance from: WELL HEAD
 Direction: 152 Degrees X E N X
 of
 W S

Starting Pit Dimensions 12 x 12 x 2
 Final Pit Dimensions 16 x 15 x 15



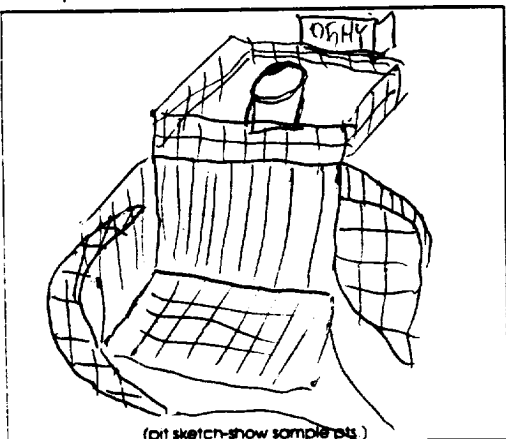
Organic Vapor Readings: Start _____ Soil Description: SILTY SAND
 @ 2' _____
 @ 4' _____
 @ 6' _____
 @ 8' _____
 @ 10' _____
 @ 15' _____
SILTY SAND - ROCK

Well Proximity To: Residence, Domestic Water Well, Stock Well NONE
 Arroyo, Wash, Lake, Stream _____
 Estimated or Known Distance to Ground Water >100 Feet

Source of Backfill (if other than processed material) _____

Samples collected: Type Progress: Verification: ID CHAMPLIN 2A-V-EXWA-01 (soil) / water
 Progress: Verification: ID CHAMPLIN 2A-V-EXFL-01 (soil) / water
 Progress: Verification: ID _____ soil / water

Sample sent to Lab Via: Courier Hand Carried Other _____ Preservative: ICE Other _____



Comments: EXCAVATED + SHREDDED SOIL -
LAND FARMED ON SITE - STAINED SOIL
REMOVED FROM EXCAVATION - PETROLEUM
ODOR ENCOUNTERED - ROCK FLOOR.

Soil Shipped to: _____
 Prepared by: Mike Harris

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 9807797

SENT WILLIAMS FIELD SERVICE-MS4JI
TO: P.O. BOX 58900
SALT LAKE CITY, UTAH 84108
MARK HARVEY

DATE REPORTED: 08/05/98
DATE COLLECTED: 07/23/98
DATE RECEIVED: 07/28/98

PROJECT: JICARILLA PIT REMEDIATION

Reference Fraction: 9807797-11A

Sample ID: CHAMPLIN 2A-V-EXFL-01 / 85082

Sample Date Collected: 07/23/98 11:25:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	20.0	MG/KG	2.0	07/29/98	SKW
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	5.0	08/04/98	JLO
TOLUENE		611	MG/KG	5.0	08/04/98	JLO
ETHYLBENZENE		42.8	MG/KG	5.0	08/04/98	JLO
TOTAL XYLENES		437	MG/KG	5.0	08/04/98	JLO
BFB (SURROGATE)		110	125	75		

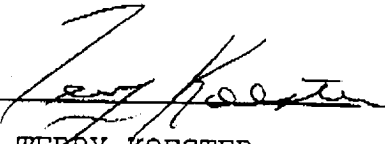
ND=NONE DETECTED

DL=DETECTION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:


TERRY KOESTER
LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 9807797

SENT WILLIAMS FIELD SERVICE-MS4JI
TO: P.O. BOX 58900
SALT LAKE CITY, UTAH 84108
MARK HARVEY
PROJECT: JICARILLA PIT REMEDIATION

DATE REPORTED: 08/05/98
DATE COLLECTED: 07/23/98
DATE RECEIVED: 07/28/98

Reference Fraction: 9807797-12A

Sample ID: CHAMPLIN 2A-V-EXWA-01 / 85082

Sample Matrix: SOIL

Sample Date Collected: 07/23/98 11:30:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	30.1	MG/KG	2.0	07/29/98	SKW
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	08/04/98	JLO
TOLUENE		2.90	MG/KG	0.050	08/04/98	JLO
ETHYLBENZENE		ND	MG/KG	0.050	08/04/98	JLO
TOTAL XYLENES		24.0	MG/KG	0.050	08/04/98	JLO
BFB (SURROGATE)		90	125	75		

ND=NONE DETECTED

DL=DETECTION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER

LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S , I N C .

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 9808562

SENT WILLIAMS FIELD SERVICE-MS4JI
TO: P.O. BOX 58900
SALT LAKE CITY, UTAH 84108
MARK HARVEY
PROJECT: JICARILLA PIT PROJECT 98

DATE REPORTED: 08/21/98
DATE COLLECTED: 08/11/98
DATE RECEIVED: 08/18/98

Reference Fraction: 9808562-05A
Sample ID: CHAMPLIN #2A-V-LF-01
Sample Date Collected: 08/11/98 07:10:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	DL	ANALYZED BY
TPH	SW846-8015	ND	MG/KG	2.0	08/20/98 SKW

ND=NONE DETECTED
DL=DETECTION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY:

Terry Koester
TERRY KOESTER
LABORATORY DIRECTOR