State o Energy, Minerals and N	f New Mexico atural Resources Department	
Outside OIL CONSERV	ATION DIVISION	
Novm-LF Santa Fe, New	Box 2088 Mexico 87504-2088 AND CLOSURE REPORT	2 22
		`
PitType Dehydrator	, - ((())))
LandType: BLM		
Pit Location: Pit dimensions: length (Attach diagram)	17ft., width 16ft., depth	8ft.
Reference: Wellhead		
Footage from reference	: 118 ft	
Direction from referen		
Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 po 50 feet to 99 feet (10 po Greater than 100 feet (0 po	ints)
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes (20 po No (0 po	
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet (20 po 200 feet to 1,000 feet(10 po Greater than 1,000 feet(0 po	ints)
	Ranking Score (TOTAL POINTS)	: <u>0</u>

Date Remediation Sta	rted: 11/21/00	Date Completed:	11/21/00		
Remediation Method:	Excavation 🖌	Approx. Cubic Yard	81		
(check all appropriate sections)	Landfarmed 🔽	Insitu Bioremediatio	on 🗔		
	Other Landfarmed so	oil after mechanical aeration.			
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)	n: Onsite 🗹 Of	fsite			
General Description	Of Remedial Action:				
-	ove gross petroleum contaminated and placed into an onsite l	tion. Encountered BEDROCK a and farm.	tt 8'. The excavated		
Ground Water Encount	ered: 0				
Final Pit:	Sample location V	AND #1A-V-EXFL-01			
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and	Two samples were collected, one sample from the excavation bottom and the second sample was made up of 4 points from each excavation wall.				
depths)	Sample depth 8 '				
	Sample date 11/2	21/00 Sample ti	.me 16:56		
	Sample Result				
	Benzene (ppm) 0.05			
	Total BTEX (ppm) 0.66			
	Field Headsp	ace (ppm)			
	TPH (ppm) 38	30			
Ground Water Sample:	0				
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF					
DATE 12-20-01 SIGNATURE MAZIMO PRINTED NAME Mark Harvey for Williams Field Services AND TITLE Proj. Coordinato					

METER	(ALOKAV)
PIT RETIREME	NT FORM
Date:/2/-00	Weather Mosny CLoy ~ 45
Well Name VANDERSLICE # IA Operator BURLINGTO,	
Land Type: BLM STATE FEE INDIAN	County SAN JUAN
One Call Made (505-765-1234)? 🔗 N	
Line Marking Evident? () N	**** //
	TRA (/ L'ESTER >
	Tel Le
Pit Location:	I SEC
Reference Wellhead X Other	<i>,</i>
Distance from: <u>118</u>	
Direction: <u>42</u> Degrees <u>E N \times</u>	
of W S	
_ <u></u>	
Starting Pit Dimensions <u>15 x 15 x 2</u>	Accoss
Final Pit Dimensions <u>17 X 16 X</u>	N
Organic Vapor Readings: Start Soil Desc	SITE SKETCH
	SAND
@ 4'	SAND SS FRAGINENTS
@ 6'	FRACTURED SS
@ 8′	BEDROCK - SANDGTONG SUBTONG
@	
<u> </u>	
Well Proximity To: Residence, Domestic Water Wel	
Arroyo, Wash, Lake, Stream <u>was</u>	SH (COX CANYON) ~ 12 MILE NORTH
Estimated or Known Distance to	Ground water <u>> 100'</u>
Source of Backfill (if other than processed material _	
Samples collected: Type Progress Verification	
Progress Verification:	D ID VAND # IA - V-EXWA-01 SOD/ water
Progress: Verification:	IDsoil / water
Sample sent to Lab Via: Courier Hand Carried O	ther Preservative: ICE Other
Ur	FEALING + BLOUROWN LINES - SOME STANDING GATER + XIN W/ SANDY SON - EXCANATE -MATERIAL HAS MONGRAFE
Dead in the second s	RADI Ober - DARK GRET TO BLOCK STRUTCIOG - SIDEWALLS
	TAIN TO FROM 2-8'BES - SCRATE - SCRATE FLOOR + SIDEVALLS
	OSE MATERIAL - EXCANATION LIMITED DUE TO DEDROCK-
REMOVE SURFICIAL STA	INGENG & DEHY
Soil Shipped to:	7.2
(pit sketch-show sample pts.) Prepared by:	1.2 m/
	\bigcirc



Environmental Services 187 CR 4980 Bloomfield, NM 87413

Pit Closure and Retirement Addendum- Risk Assessment

The sample analyzed for confirmation at the **Vanderslice #1A** exhibited slightly elevated levels of total petroleum hydrocarbons (TPH) and / or BTEX. Toxicity information indicates that such low levels pose little 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 particular constituents of concern that may be present and which 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 low, 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

Environmental and Site Conditions

Based on an evaluation of topography, this site is believed to have ground water greater than 100' below ground surface. Due to the immobility of these types of contaminants through soil and a lack of continuous transporting mechanisms, it is very likely that the residual contamination in the pit will degrade in the short term under existing conditions, or certainly during the life of the producing well. Observations and data collected from other sites suggests that contaminant concentrations would diminish vertically and likely be less than 10 ppm within the next 4 - 10 feet of *soil* depth. Notwithstanding, bedrock was discovered at 3 1/2' on the pit bottom. This condition retards vertical migration of contaminants and serves to significantly limit potential groundwater impact.

While residual TPH and/or BTEX may exist at this site, closure of this site is warranted for the following reasons:

- 1. The majority of soils which exhibited high levels of TPH and BTEX have been removed.
- 2. Residual TPH concentrations are below levels considered 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 / BTEX concentrations will not increase and will likely degrade over time from natural processes occurring in-situ.
- 7. Further excavation at the site is impractical due to bedrock.

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 all closure criteria cannot be practically attained. Additional information may be found in the Technical Background Document titled: *Risk Based Closure of Unlined Surface Impoundment Sites, San Juan Basin, New Mexico.*

12- 5-00;12:25PM;WILLIAMS

12/05/00 13:18 FAX 13162327730

QWAL LAB

0011655

Ø 09

QWAL LABORATORIES, INC.

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

LABORATORY REPORT:

SENT WILLIAMS GAS PIPELINE TO: 187 COUNTY ROAD # 4980 BLOOMFIELD, NM 87413 MARK HARVEY PROJECT: TAA PITS

Reference Fraction:0011655-08A Sample ID: VAND #1A-V-EXFL-01 Sample Date Collected: 11/21/0016:56:00

12/05/00 DATE COLLECTED: 11/21/00

REFERENCE #:

DATE REPORTED:

DATE RECEIVED: 11/28/00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO BTEX	SW846-0015D OA1/8021B	380	MG/KG	2.0	12/30/00	BEM
BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)		ND ND 0.072 0.492 103	MG/KG MG/KG MG/KG MG/KG 125	0.050 0.050 0.050 0.050 75	11/29/00 11/29/00 11/29/00 11/29/00	MB MB

ND=NONE DETECTED PQL=PRACTICAL QUANTITAION LIMIT SU=STANDARD UNITS B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER LABORATORY DIRECTOR

QWAL LAB

Ø 08

12/05/00 13:18 FAX 13162327730

QWAL LABORATORIES, INC.

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

LABORATORY REPORT:

REFERENCE #: 0011655

DATE COLLECTED: 11/21/00

DATE REPORTED:

DATE RECEIVED:

:

12/05/00

11/28/00

;5056324405

SENT	WILLIAMS GAS PIPELINE
TO :	187 COUNTY ROAD # 4980
	BLOOMFIELD, NM 87413
-	MARK HARVEY

PROJECT: TAA PITS

Reference Fraction:0011655-07A Sample ID: VAND #1A-V-EXWA-01 VALDIA Sample Date Collected: 11/21/0016:52:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO BTEX	SW846-8015D OA1/8021B	6590	MG/KG	200.0		BEN
BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)	· · · ·	12.4 56.0 16.4 278 111	MG/KG MG/KG MG/KG MG/KG 125	0,50 0.50 0.50 0.50 0.50 75	11/29/00 11/29/00	MB MB

ND=NONE DETECTED PQL=PRACTICAL QUANTITAION LIMIT SU=STANDARD UNITS B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER LABORATORY DIRECTOR

.

QWAL LABORATORIES, INC.

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

LABORATORY REPORT:

REFERENCE #: 0012654

TO: 295 CHIPE	<i>CITY, UTAH 84158</i> Ey	-	DATE REI DATE COI DATE RE(LLECTED:	01/04/01 12/22/00 12/28/00	***
Reference Fract Sample ID: VAN Sample Date Col	ion:0012654-03A DERSLICE #1A-V-LF-03 lected: 12/22/0011:	3 10:00 form; 38	Sample M	fatrix;	SOIL	
TEST	METHOD	RESULT	UNITS	PQL	ANALYZED B	= Y
TPH-DRO	SW846-8015I	4130	MG/KG	10.	0 12/30/00 B	 E№

ND=NONE DETECTED PQL=PRACTICAL QUANTITAION LIMIT SU=STANDARD UNITS B=DETECTED IN METHOD BLANK

and the second second

APPROVED BY:

FERRY KOESTER LABORATORY DIRECTOR

ومحاجب والمستعدين والمراجع والمراجع والمراجع