District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM
88211
District III
1000 Rio Brazos Rd, Aztec,

NM 87410

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LF Closed State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>J.B. Gould Company</u> Telephone <u>: (5</u>	05) 774-6584
Address: P.O. Box 43 Lindrith, New Mexico 87029	
Facility Or: <u>Joseph B. Gould 5 Phillips 32,</u> Well Name	AUG 2001
Location: Unit D. Section 32, T25N, R3W	2007.3
Pit Type: Separator X Dehydrator Other	
Land Type: BLM <u>X</u> , State, Fee, Other	
Pit Location: Pit dimensions: length <u>20'</u> , width <u>25'</u> , depth <u>13" Below center</u> (Attach diagram) Reference: wellhead X, other	of pit
Direction from reference: 20° South of East	
Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points) 0
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than1000 feet from all other water sources)	Yes (20 points) No (0 points) <u>0</u>
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points) 0
	RANKING SCORE (TOTAL POINTS): 0

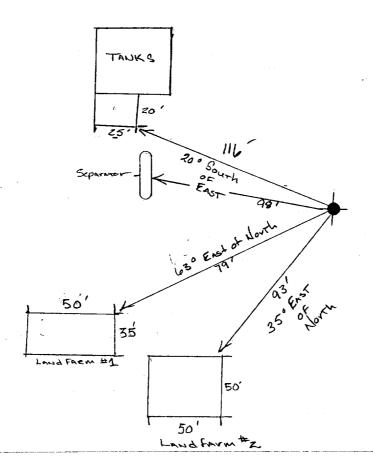
Date Remediation Started: Janu	uary 17, 2000 Date Completed: <u>Jan</u> u	<u>uary 17, 2000</u>
Remediation Method: Excavation (Check all appropriate sections) Landfarmed	x Approx. cubic yards 93 X Insitu Bioremediation	
Other		
		
Remediation Location: Onsite (i.e. landfarmed onsite, name and	X Offsited location of offsite facility)	
taken at the bottom of the excave encountered. Sep pit appeared the sidewalls was collected. The	rock was encountered at 13 inches be ation at the bedrock. The sidewalls w to have been set into a sandstone sho removed soils are to be landfarmed	elf. A 4-point composite sample from onsite.
Ground Water Encountered:	No X Yes Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample location: Refer to attached	l Table
attach sample results and diagram of sample	Sample depth	
locations and depths)	Sample Date`	Sample Time
	Sample Results Refer to attached	Table
	Benzene (ppm)	
	Total BTEX (ppm)	
	Field headspace (ppm)	
	TPH	
Ground Water Sample: Yes _	No (If yes, attach sample	results)
AS AN AGENT FOR J.B. GOUL TRUE AND COMPLETE TO TH	D COMPANY, I HEREBY CERTIFY T E BEST OF MY KNOWLEDGE AND	THAT THE INFORMATION ABOVE IS BELIEF
SIGNATURE	0	DATE _ 8 . 25 - 0]
PRINTED NAME Lawrence	e Trujillo TITLE Senior Environment	tal Technician_
(CCD.)		



612 E Murray Dr. Farmington, NM 87401 PH. (505) 325-5667 FAX. (505) 327-1496

Site Map

Location: JB Gould #5 Phillips 32 Unit: D Section: 32 Township: 25N Range: R8W



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OVIMI/PID READINGS AND LABORATORY RESULTS

		J.B. GOULD #5 PHILLIPS 32 SEP PIT	32 SEP PIT	
Sample Location	PID Units	PID Units Date/Time	Diesel Range Organic	Gasoline Range Organics
			mdd	mdd
Center of Pit @ bedrock	PID Inop.	PID Inop. 11/2/99, 11:17	6160.0	BDL
Sidewall Composite @	PID Inop.	PID Inop. 11/2/99, 11;17	518.0	BDL
bedrock				

BDL: Below Detection Limits

Operator: Joseph B. Gould Company Location Name: Joseph B. Gould #5 Phillips 32 Location: Unit D, Section 32, T25N, R3W Risk Ranking: 0

RATIONALE FOR RISK-BASED CLOSURE OF PRODUCTION PITS LOCATED OUTSIDE OF THE VULNERABLE ZONE IN SAN JUAN BASIN

This production pit location was ranked according to the criteria in the New Mexico Oil Conservation Division's Unlined Surface Impoundment Closure Guidelines and received a ranking score of zero. The estimated depth to groundwater is greater than 100-feet beneath ground surface (bgs), the pit is not in a well head protection area, and there are no surface water bodies within 1,000 horizontal feet of the pit location.

The primary source, discharge to pit has been removed. There has been no discharge to the pit for at least four (4) years and the pit has been closed for at least one year.

Each pit was back filled with clean soil and graded in a manner to divert precipitation away from excavated area. Minimal infiltration of rainfall is expected. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching the residual hydrocarbons.

There is no source material at the ground surface, so direct contact with livestock and populations is not likely.

In general, outside of the vulnerable area and alluvial valleys, bedrock material is generally encountered within twenty (20) feet of the ground surface. Bedrock material in the San Juan Basin consists of interbedded sandstone, shale and clays. According to Freeze and Cherry, 1979, the hydraulic conductivity of the bedrock material are as follows:

Sandstone 10⁻⁹ to 10⁻¹³ cm/sec Shale 10⁻¹² to 10⁻¹⁶ cm/sec Clay 10⁻¹² to 10⁻¹⁵ cm/sec

Based on this information, the residual hydrocarbons should not migrate to groundwater.

Natural process (bioremediation) is degrading the residual hydrocarbon to carbon dioxide and water and will continue until source is gone, therefore minimizing any impact to the environment.

Based on the above information, it is highly unlikely that any source material will impact groundwater or ever find an exposure pathway to effect human health, therefore

Joseph B. Gould Company requests closure of this pit location.

On Site Technologies Limited Partnership Rskevl.doc OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Jan-00

Client:

On Site Technologies Limited

Work Order:

0001019

Lab ID:

0001019-01A

Matrix: SOIL

Project:

J.B. Gould #5 Phillip 32; 4-1641

Client Sample Info: J.B. Gould #5 Phillip 32

Client Sample ID: Sidewall Composite

Collection Date: 1/17/2000 11:55:00 AM

COC Record: 10493

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DM
T/R Hydrocarbons: C10-C28	652	25		mg/Kg	1	1/24/2000
GASOLINE RANGE ORGANICS	5	SW8015B				Analyst: DM
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	1/18/2000

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

1 of 1

ON SITE

OFF: (505) 325-5667

LAB: (505) 325-1556

ANALYTICAL REPORT

TECHNOLOGIES, LTD.

Date: 28-Jan-00

Client:

On Site Technologies Limited

Work Order:

0001019

Lab ID:

0001019-02A

Matrix: SOIL

Project:

J.B. Gould #5 Phillip 32; 4-1641

Client Sample Info: J.B. Gould #5 Phillip 32

Client Sample ID: Center Pit

Collection Date: 1/17/2000 12:05:00 PM

COC Record: 10493

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SI	V8015B				Analyst: DM
T/R Hydrocarbons: C10-C28	16500	250		mg/Kg	10	1/24/2000
GASOLINE RANGE ORGANICS	SI	V8015B				Analyst: DM
T/R Hydrocarbons: C6-C10	112	18		mg/Kg	100	1/19/2000

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

I of I

District I P.O. Box 1980, Hobbs, NM District II P.O. Drawer DD, Artesia, NM 88211 <u>District III</u> 1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO **APPROPRIATE** DISTRICT OFFICE AND 1 COPY TO

OIL CONSERVATION DIVISION

P.O. Box 2088

SANTA FE OFFICE

Landfarm Remediation and Closure Report

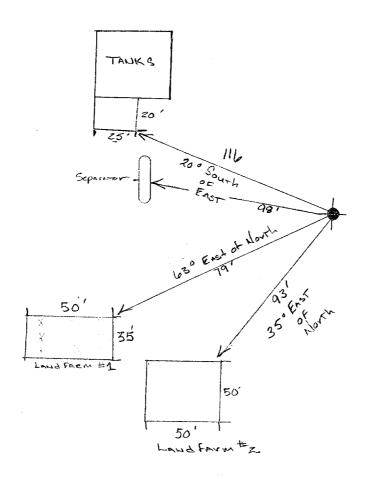
Owner/Operator: Joseph B. Gould Company Telephone: (505) 7	74-6584
Address: P.O. Box 43 Lindrith, New Mexico 97029	A STATE OF THE PARTY OF THE PAR
Facility or Well Name: Joseph B. Gould #5 Phillips 32 Landfarm #1	AUG 2001
Location: Unit or QTR/Qtr D, Section: 32, T25N, R8W County: Rio Arriba Land Type BLM X, State , Fee , Other Landfarm location Length: 50' Width: 35'	Carried States
Reference: Wellhead: X Other: Footage from reference: 79 feet	a Agreement
Direction from reference:63 Degrees East of North	
Refer to attached map for land farm location	
GENERAL DISCRIPTION of LANDFARM ACTIVITIES: Soils were placed in landfarm in 8 to 12 inch lifts. Soils were turned approximately expectation weather allowed. Landfarm was sampled every quarter when weather allowed. For grab samples were arbitrarily collect from the landfarm and composited. Refer to attand field screening results	each Sampling event 9
SAMPLING INFORMATION Type of sample: Grab: Composite: 9 points	
Sample Depth: 6 to 8 inches	
Sample Date: Refer to attached laboratory results Sample Time: Refer to attache Laboratory Analysis: BTEX (ppm) TPH (ppm) OVM/PID units	d laboratory results
Refer to attached map for sample location. Laboratory results attached	
AS AN AGENT FOR J.B. GOULD COMPANY, I HEREBY CERTIFY THAT THE INFORMAND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	ATION ABOVE IS TRUE
SIGNATURE DATE 8.23	.01
PRINTED NAME Lawrence Trujillo TITLE Senior Environmental Tech	nician_



612 E Murray Dr. Farmington, NM 87401 PH. (505) 325-5667 FAX. (505) 327-1496

Site Map

Location: <u>JB Gould #5 Phillips 32 Unit: D</u> Section: <u>32 Township: 25N Range: R8W</u>



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LANDFARMS LABORATORY RESULTS TABLE

3670 Not 11,000 9560 3740	LOCATION/LANDFARM	DATE	OVM/PID READINGS (UNITS)	DIESEL RANGE ORGANICS (PPM)	GASOLINE RANGE ORGANICS (PPM)
5/4/2000 Not 8/8/2000 0.1 11,000 4/16/2001 0.0 9560 7/23/2001 0.0 3740	J.B. Gould#5 Land farm #1	1/14/2000	0.1	3670	BDL
5/4/2000 Not 8/8/2000 0.1 11,000 4/16/2001 0.0 9560 7/23/2001 0.0 3740					
8/8/2000 0.1 11,000 4/16/2001 0.0 9560 7/23/2001 0.0 3740	J.B. Gould#5 Land farm #2	5/4/2000		Not	Sampled
4/16/2001 0.0 9560 7/23/2001 0.0 3740	J.B. Gould#5 Land farm #2	8/8/2000	0.1	11.000	BDI
7/23/2001 0.0 3740	J.B. Gould#5 Land farm #2	4/16/2001	0.0	9560	BDI
	J.B. Gould#5 Land farm #2	7/23/2001	0.0	3740	₩.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Jan-00

Client:

On Site Technologies Limited

Work Order:

0001019

Lab ID:

0001019-03A

Matrix: SOIL

Project:

J.B. Gould #5 Phillip 32; 4-1641

Client Sample Info: J.B. Gould #5 Phillip 32

Client Sample ID: Landfarm Composite

Collection Date: 1/17/2000 12:00:00 PM

COC Record: 10493

Result	PQL	Qual Units	DF	Date Analyzed
sv	V8015B			Analyst: DM
3670	125	mg/Kg	5	1/24/2000
SV	V8015B			Analyst: DM
ND	0.18	mg/Kg	1	1/18/2000
	3670 SV	SW8015B 3670 125 SW8015B	SW8015B 3670 125 mg/Kg SW8015B	SW8015B 3670 125 mg/Kg 5 SW8015B

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

1 of 1



OFF: (505) 325-5667 FAX: (505) 327-1496 LAB: (505) 325-1556 FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 11-Aug-01

Client:

On Site Technologies Limited

Work Order:

0107037

Lab ID:

0107037-01A

Matrix: SOIL

Project:

4-1641-5; J.B. Gould #5 - Phillips 32

Client Sample Info: Phillips 32 Lindrith, NM

Client Sample ID: J.B. Gould #5 Landfarm #2

Collection Date: 7/23/2001 9:19:00 AM

COC Record: 11480

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV 3740	V8015B 250	mg/Kg	10	Analyst: DM 8/8/2001

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

ON SITE TECHNOLOGIES, LTD.

CHAIN OF CUSTODY RECORD

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499 LAB: (505) 325-5667 • FAX: (505) 327-1496

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Telefax No. Title Name LACEY Truly Company 1.8.601 Mailing Address City, State, Zip Telephone No. OT STJUSER ТЯОЧЭЯ 14.91 Project No. 4-465 Dept アとる City, State, Zip Purchase Order No.: Company Address Name TO INVOICE SEND

MHS COCHOIS OIL LAB ID Date/Time **ANALYSIS REQUESTED** Description of the second Peceived by: Received by: Containers Number of PRES. TIME MATRIX 1155 | Sol Date/Time Date/Time 1600 PROJECT LOCATION: J.B. GOULD # 5 Phillip 32 DATE SAMPLE IDENTIFICATION Compastr & Company SAMPLER'S SIGNATURE: Speriols Relinquished by: Relinquished by: Relinquished by:

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

To Re-order Call 325-9400 or Fax 325-9764 Biplibig repities FORM # 01

By Date

10 Working Days

24-48 Hours

Rush

Received by:

Date/Time

fethod of Shipment:

Authorized by:

Special Instructions / Remarks:

Date

(Client Signature <u>Must</u> Accompany Request)

CHAIN OF CIRCLE

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499 LAB: (505) 325-5667 • FAX: (505) 327-1496

ON SITE
TECHNOLOGIES, LTD.

] o / Page:

Title 14.91 Project No. 4-45 Purchase Order No.:

MA S. C. LAB ID COLLOIG. OIL Date/Time, [Date/Time Date/Time By Date **ANALYSIS REQUESTED** Telefax No. 10 Working Days Name LAREY Trull Company J. R. Govill Special Instructions / Remarks: 24-48 Hours The U Valley Mailing Address City, State, Zip Telephone No. Servential Preceived by. Received by: Received by: Rush Containers **Т**ВРОЯТ Number of 1240 1155 Soul Litter PRES. TIME NATRIX 18/28/ Date/Time SAMPLE Date/Time Date/Time PROJECT LOCATION: J.R. GOLD # 5 Phillip 32 Kas Dept. Date (Client Signature Must Accompany Request) SAMPLE IDENTIFICATION Conservation of (Course Services アンピン SAMPLER'S SIGNATURE: City, State, Zip Company A. 1. 1. Address Aethod of Shipment: Name Relinquished by: Authorized by: Relinquished by: Relinquished by: INVOICE 1 SEND

Vellow - LAB Pink - Sampler Gotdenrod - Client

Distribution: White - On Site

20+1

CHAIN OF CUSTODY RECORD Date: 7/23/0/

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499 LAB: (505) 325-5667 • FAX: (505) 327-1496

ON SITE

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City, State, Zip Farm 1	NIN	10713		a	Telephone No.		321	Tele	Telefax No	1881	
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Authorized by:	Date	7/23/0									
(Client Signature Must Accompany Request)											
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