

SID RICHARDSON ENERGY SERVICES CO.
Jal, N.M.

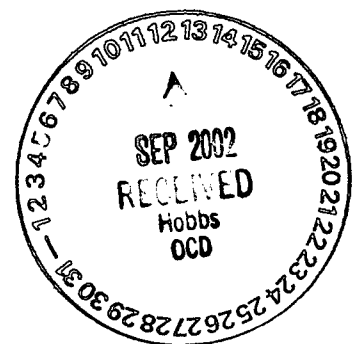
**SITE REMEDIATION
PLAN**

RELEASE SITE: Owens 4" JOB # 2002-019

UNIT LETTER "D"

**SECTION 36, TOWNSHIP 21 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO**

Sid Richardson - 34951
facility - FPAC0603949525
incident - nPAC0603949667
application - pPAC0603949750



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PREPARED FOR:

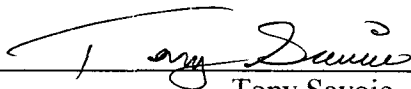
SID RICHARDSON ENERGY SERVICES CO.

P.O. BOX 1226

JAL, NEW MEXICO 88252

Mr. Randall Dunn

PREPARED BY:



Tony Savoie

E.H.S. Compliance Coordinator

Job # 2002-019

July 8, 2002

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ASSESSMENT

REMEDICATION PLAN

GROUNDWATER ASSESSMENT—S.E.O. REPORT

TOPO MAP

FIGURE 1-- SITE SKETCH BEFORE REMEDIATION

PHOTO—BEFORE REMEDIATION PHOTOS 1,2, &3

ASSESSMENT:

Assessment activities began on 7/3/02. The area was sketched, and photographed. An excavated area measuring approximately 4 ft. wide by 125 ft. long by was observed where a natural gas pipeline had leaked and a pipeline repair had taken place. There were two areas of oil stained soil near the center and on the sidewalls of the excavation. There were no oil stains visible on the surface area around the excavation. It was observed that the old 4" line had been left in place and a new 4" poly line installed along side the old steel line. There had been a previous replacement on the steel line in the south end of the excavation. There was a stressed area measuring approximately 60 ft. X 70 ft. observed at the south end of the replacement area. Site details are identified in Figure 1.

The leak was discovered at 9:00 a.m. on 6/25/02. There were no hydrocarbon liquids observed on the surface, the leak was detected by walking the pipeline and observing for gas odors. Based on the estimated amounts of gas and liquids released, a C-141 was not filled out and no verbal report was required.

An average depth to water report was downloaded from the State Engineers Office web site. There were no registered wells found in Section 36, Township 21S, Range 37E. A water well search of the surrounding sections revealed no registered wells recorded in the State Engineers report. Table 6 of the Ground-Water Report #6 recorded 7 wells in the neighboring sections of section 36, but none in section 36. The land owner has a well south-east of the site with a reported depth to water at 67 ft. below ground surface. The estimated distance from the site to the landowners well is 1090 horizontal feet. The nearest surface water body is a man-made pond south east of the site. The estimated horizontal distance is 1075 ft.

CLOSURE STANDARDS

The New Mexico Oil Conservation Division "NMOCD" Guidelines for Remediation of Leaks, Spills, and Releases contains the standard criteria for remediation activities. A ranking analysis for the site was performed to determine appropriate soil remediation levels. The ranking analysis is as follows:

Depth to Ground Water	Greater than 50 ft. but less than 100 ft.	10 Points
Well Head Protection	Greater than 1000 ft. to a water source	0 Points
Surface Water Body	Greater than 1000 ft. to a surface water body	0 Points
Total Ranking Score		10 Points

Based on the total ranking score, the closure objectives for this site for concentrations of benzene, BTEX, and TPH in soil are summarized below.

CONSTITUENT	CLOSURE CONCENTRATIONS (mg/kg)
BENZENE	10
BTEX	50
TPH	1000

REMEDIATION PLAN:

The current landowner is Bob Wallach.

The landowner has a concern about hydrocarbon contamination in the well 1090 ft. south-east of the site.

Two areas of concern were noted and reported to the landowner while discussing clean-up procedures.

The two areas were located just to the north and south of the Sid Richardson release site.

The stained soil will be excavated to determine horizontal and vertical extent of the release.

Soil excavated to a depth of 17 ft. below ground surface will be sampled to achieve a bottom hole TPH level of 100 mg/kg.

The excavated soil will be stockpiled, sampled and handled in agreement with the landowner and NMOCD

All soil samples will be screened in the field using a photo-ionization detector (PID). Prior to use, the PID will be calibrated to an isobutylene gas standard. Soil samples will be prepared and shipped to the laboratory for analysis.

Soil TPH concentrations will be analyzed using one or all of the following methods:

EPA 418.1

EPA SW 846-8015M GRO/DRO

A vapor headspace reading taken when the samples are collected can substitute for BTEX lab samples.

At least one sample will be collected to verify Benzene and BTEX in soil concentrations using the following method:

EPA SW 846-8021B, 5030

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: Range: Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic
☒ All

AVERAGE DEPTH OF WATER REPORT 07/30/2002

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg

No Records found, try again

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No Records found, try again

New Mexico Office of the State Engineer
Well Reports and Downloads

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Suffix:	<input type="text"/>				
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			<input type="radio"/> All		
			<input type="radio"/> Non-Domestic		
			<input type="radio"/> Domestic		
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<input type="button" value="Water Column Report"/>					
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AVERAGE DEPTH OF WATER REPORT 07/30/2002

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
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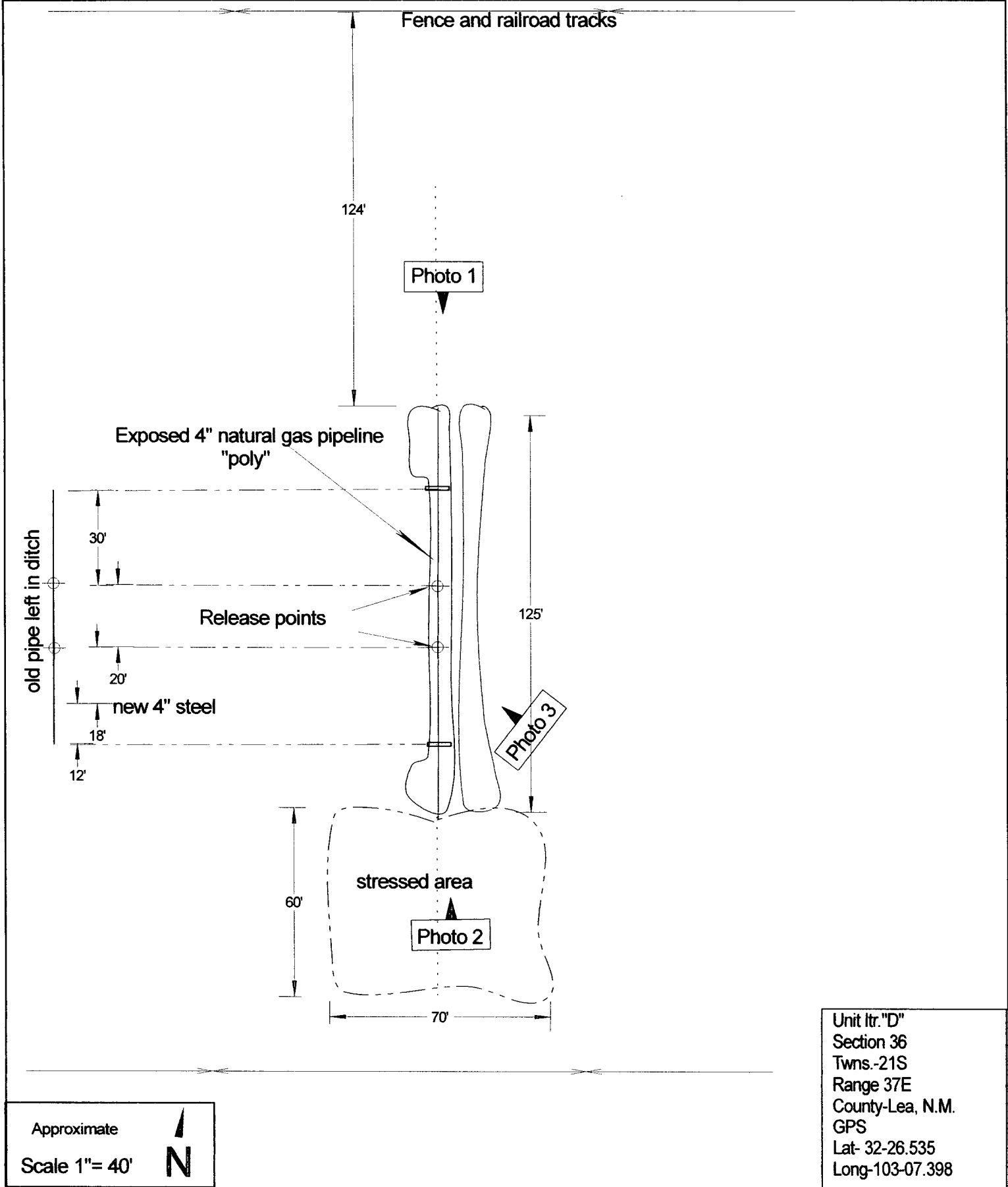
New Mexico Office of the State Engineer
Well Reports and Downloads

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Search Radius:	<input type="text"/>				
County:	<input type="text" value="▼"/>	Basin:	<input type="text" value="▼"/>	Number:	<input type="text"/>
Suffix:	<input type="text"/>				
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<input checked="" type="radio"/> All					
<input type="button" value="Well / Surface Data Report"/>			<input type="button" value="Avg Depth to Water Report"/>		
<input type="button" value="Water Column Report"/>					
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Sid Richardson Energy Service Co. Jal, N.M.	SITE PLAN: "Owens 4"	2002-019
	Lea County Area	Figure 1

Photo 1

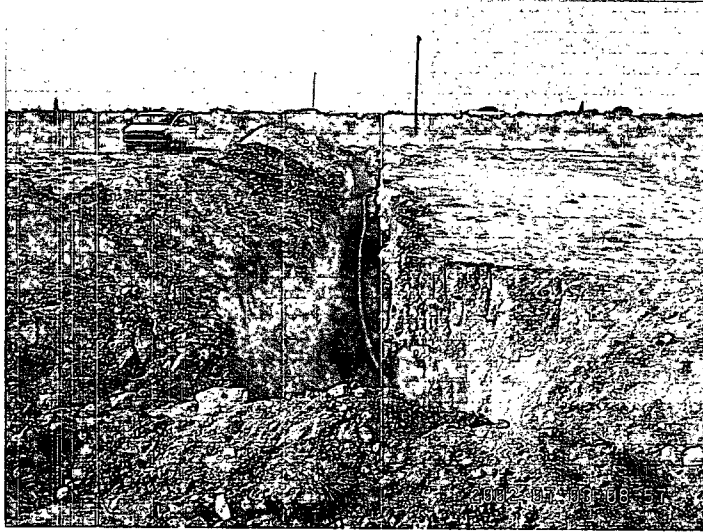


Photo 2

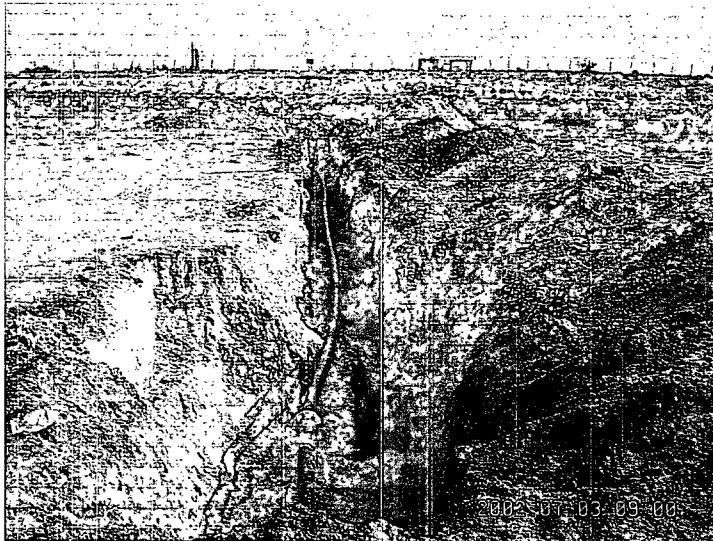
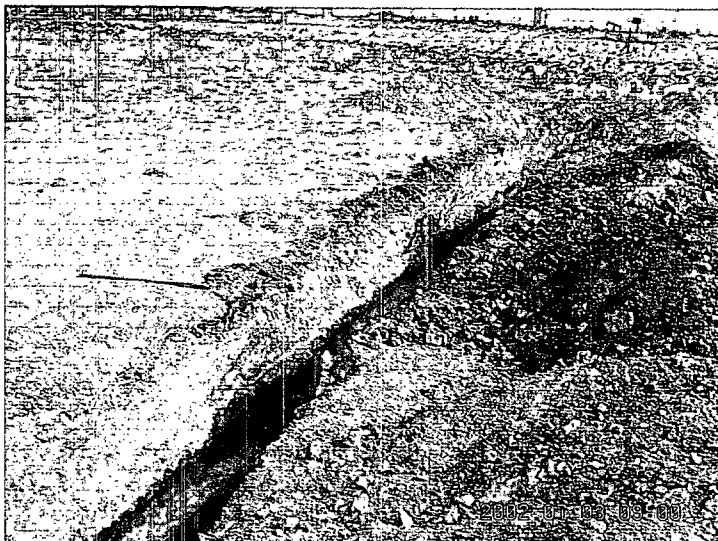


Photo 3



Sid Richardson Site: Owns 4" Job # 2002-019

Before Remediation 7/3/02

