

GW-269

REMEDATION

REPORT

YEAR(S):

MAY 2008

May 14, 2008

Oil Conservation Division
Environmental Bureau
Attn: Leonard Lowe
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Subject : Southern Union Gas Services, LTD Boyd Compressor Station
Reference GW-269

Dear Leonard,

Enclosed please find a Remediation Plan for the removal of the facilities below grade tank "BGT", the removal of all of the associated compression equipment, concrete bases, and above grade tanks. For background reference a discharge plan renewal was submitted to your office on January 11, 2007. This was followed up by a site visit by your office on August 22, 2007.

Southern Union Gas Services has come to an agreement with the property owner on lease retirement and removal of equipment.

We will begin the process of removal and remediation upon the NMOCD's approval of the attached remediation plan.

If you have any questions regarding this notification or plan please feel free to contact me at (575) 631-9376

Sincerely,



Tony Savoie
Waste Management and Remediation Specialist
Southern Union Gas Services

RECEIVED
2008 MAY 19 PM 4 23



**Southern Union
Gas Services**

Remediation Plan

Below Grade Tank

&

Boyd Compressor Station

GW-269

Project # BGT-003

Unit ltr."J" Section 26 Twns. 22S Range 37E

Lea County, New Mexico

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2009 MAY 19 PM 4 23

Site Remediation Plan

Southern Union Gas Services
BGT-006
&
Boyd Compressor Station
GW-269

Unit ltr. J Section 26, Twns. 22S, Range 37E

Waste Management and Remediation Specialist

Signature Tony Savoie

Date: 5/14/08

Tony Savoie
P.O. Box 1226
Jal, New Mexico 88252
575-631-9376
E-mail: tony.savoie@sug.com

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-144
June 1, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes No

Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank

Operator: Southern Union Gas Services Telephone: 575-395-2116 e-mail address: tony.savoie@sug.com
Address: P.O. Box 1226 Jal, New Mexico 88252
Facility or well name: Boyd Compressor API #: _____ U/L or Qtr/Qtr _J Sec 26 T 22S R 37E
County: Lea Latitude 32 deg. 21.748 Longitude 103 deg. 07.830W NAD: 1927 1983
Surface Owner: Federal State Private Indian

Pit	Below-grade tank	
Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl	Volume: <u>_80</u> bbl Type of fluid: <u>_</u> Produced water and crude oil Construction material: <u>_</u> Fiberglass _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. <u>_</u> Tank was installed by SUGS before the BGT regulations were written <u>_</u>	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) Average 54 ft.	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.) No, 1956 Horiz. Ft. to a private water well	Yes No	(20 points) (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.) 3347 Horizontal Ft. to Monument Draw	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)
Ranking Score (Total Points)		10 Points

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite offsite If offsite, name of facility _____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No Yes If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: The Below Grade Tank will be removed in accordance with the NMOCD proposed Pit and Below Grade Tank Rules.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .

Date: _May 13, 2008

Printed Name/ John A. Savoie

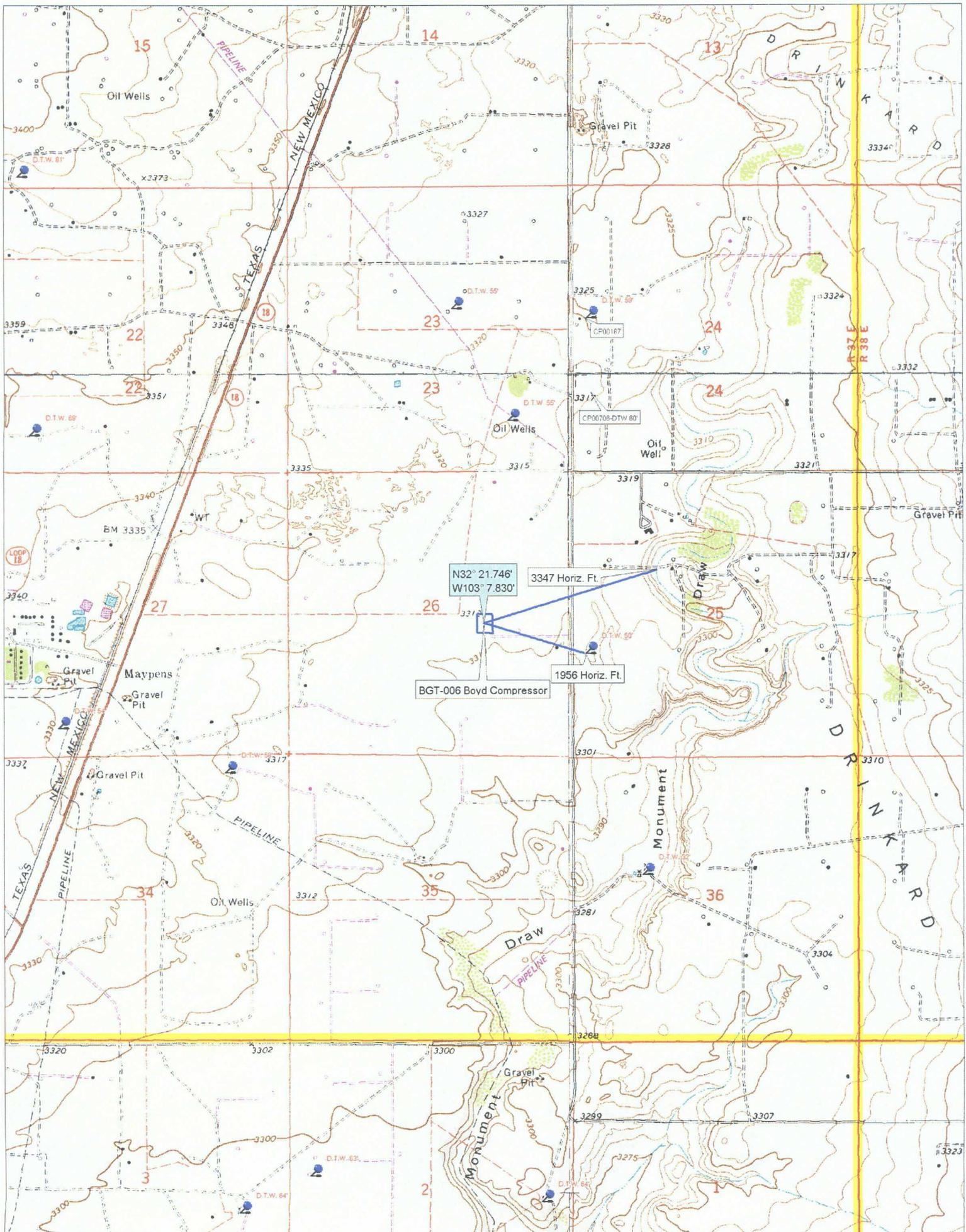
Title _Waste Management and Remediation Specialist

Signature _____

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or

Approval:

Printed Name/Title _____ Signature _____ Date: _____



N32° 21.746'
W103° 7.830'

3347 Horiz. Ft.

1956 Horiz. Ft.

BGT-006 Boyd Compressor



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www.delorme.com



Southern Union Gas Services

Boyd Compressor Station

Job #BGT-006

Ranking Analysis

NMOCD Standards			Points
Depth to Ground Water	Greater than 100 ft.		0
Depth to Ground Water	Less than 100 ft. but greater than 50 ft.		10
Depth to Ground Water	Less than 50 ft.		20
Well Head Protection	Less than 1000 ft. from a water source, or;	Yes	20
	Less than 200 ft. from private domestic water source	No	0
Distance to Surface water body	Less than 200 Horizontal. ft.		20
Distance to Surface water body	200 to 1000 Horizontal ft.		10
Distance to Surface water body	Greater than 1000 Horizontal ft.		0
Action levels	>19	10-19	0-9
Benzene (mg/kg)	10	10	10
BTEX (mg/kg)	50	50	50
TPH (mg/kg)	100	1000	5000

Site Ranking		Points
Depth to Ground Water "Avg."	54 ft. Average	10
Well Head Protection	1956 Horiz. Ft.	0
Surface Water Body	3347 Horiz. Ft.	0
Total Ranking Score		10

Site Closure Objective	
Benzene (mg/kg)	10
BTEX (mg/kg)	50
TPH (mg/kg) "Surface"	1000
Chloride mg/kg	250

Remediation Plan:

The below grade tank will be completely free of any liquids prior to starting the excavation activities. The soil will be excavated around the sidewalls of the tank to a depth of approximately 8 ft. B.G.S. The tank will then be lifted out of the ground intact to observe for any damage to the bottom or side-walls of the tank.

Samples will be collected from the undisturbed soils beneath the tank and analyzed for Total Hydrocarbons EPA method (8015M) and Chloride EPA method 300.1

All samples will be field screened with a "PID" The soil sample with the highest PID reading will be analyzed separately and tested for BTEX.

Soil with TPH values greater than 100 mg/kg or chloride 250 mg/kg will be transported to the S.U.G.S. Landfarm or remediated on site following the NMOCD recommended guidelines.

Tank Cleaning and Removal

The above ground storage tanks will be emptied, cleaned and removed from the site location. Any contamination found near or beneath the tankage will be remediated using the same procedures as listed above.

The facility fence will be left intact until the area has been re-vegetated.

The above ground piping that is still in service will be left intact.

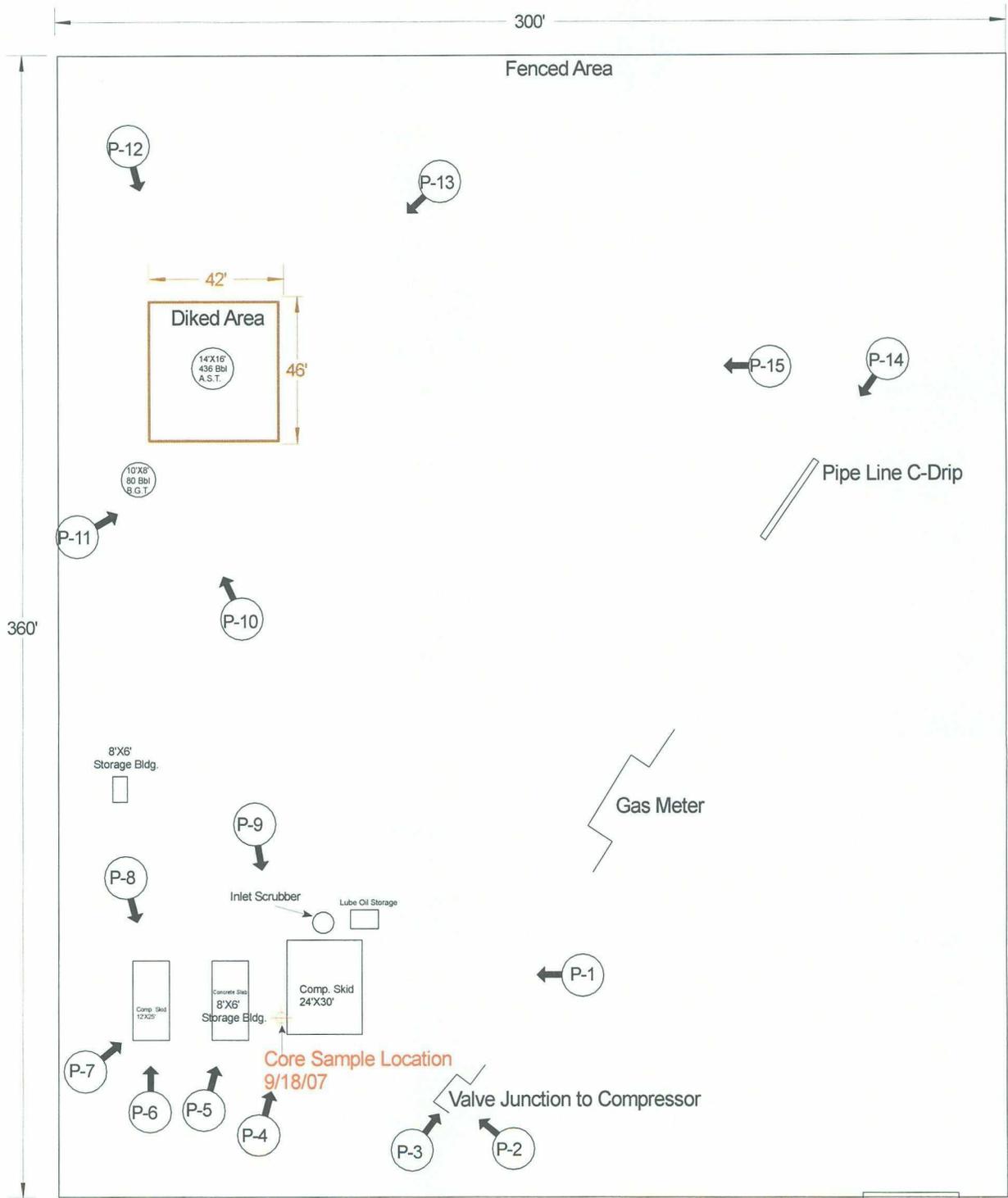
Compressor Skids and Concrete

The compressor skids will be removed along with any un-used above ground piping.

The concrete slabs will be cleaned and busted up for transfer to an approved waste management facility.

The soil around the engine bases has been analyzed for hazardous waste characteristics and found to be non-hazardous.

The remediation of the lube-oil soil will be addressed under the same closure guidelines as stated above.



Photographed and Sketched 8/13/08

Entrance Gate

NMOCD GW-269

Unit Itr. "J"
 Section 26
 Twns. 22 S
 Range 37 E
 County: Lea, N.M.
 GPS
 Lat. 32-21.747 N
 Long 103-07.830 W

Approximate
 Scale 1"= 50'



SITE PLAN: Boyd Compressor Station

BGT-006

Lea County Area

Figure 1



Photo 1



Photo 2



Photo 3

Southern Union Gas Services Site: Boyd Compressor Station
Job # BGT-006
Site Assessment 5/13/08

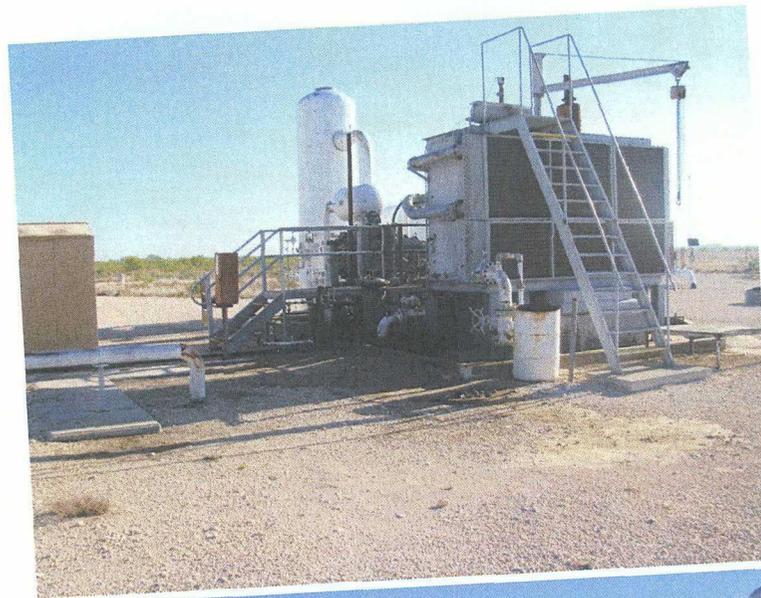


Photo 4

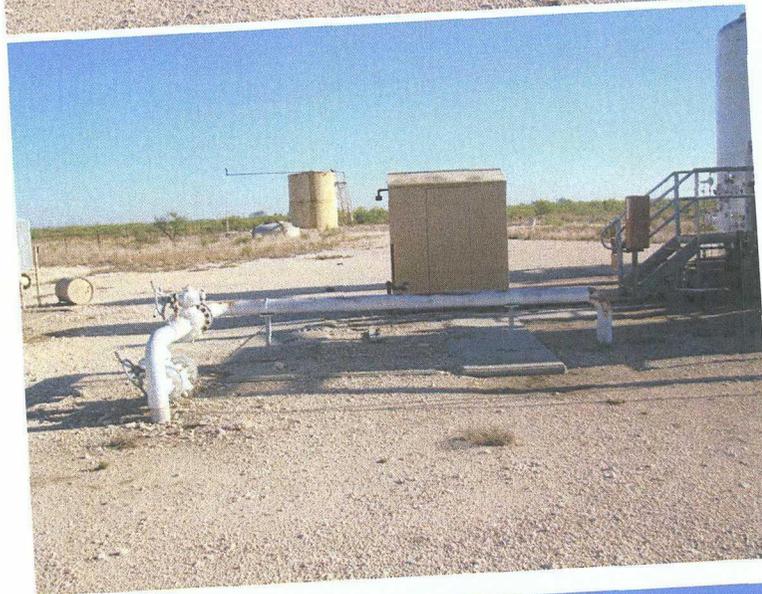


Photo 5

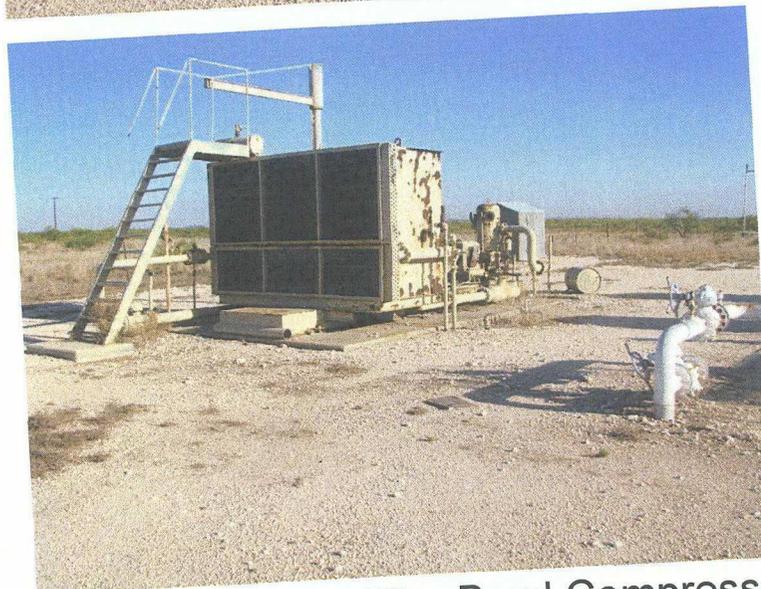


Photo 6

Southern Union Gas Services Site: Boyd Compressor Station
Job # BGT-006
Site Assessment 5/13/08

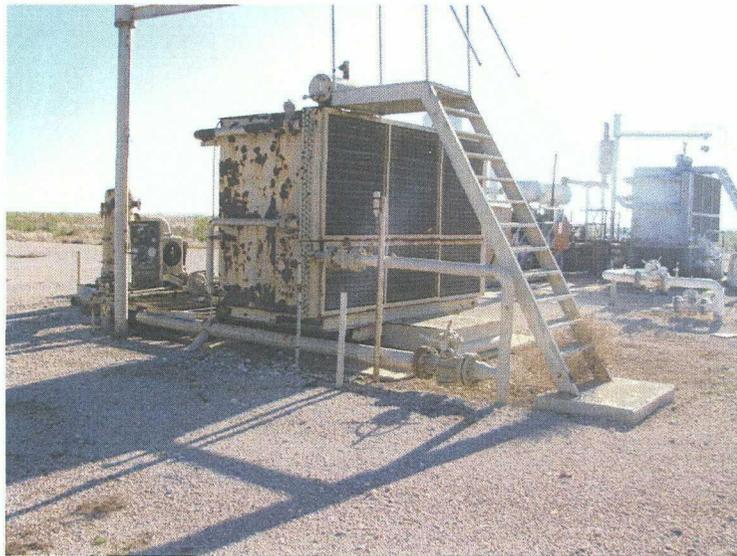


Photo 7



Photo 8

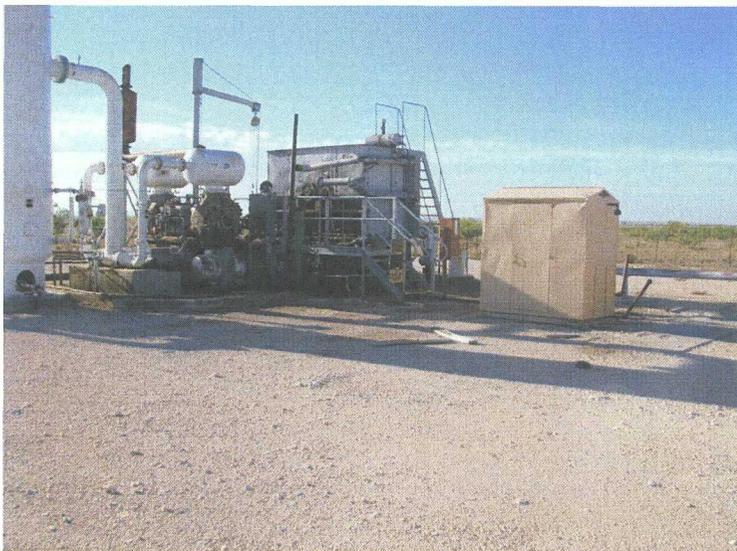


Photo 9

Southern Union Gas Services Site: Boyd Compressor Station
Job # BGT-006
Site Assessment 5/13/08

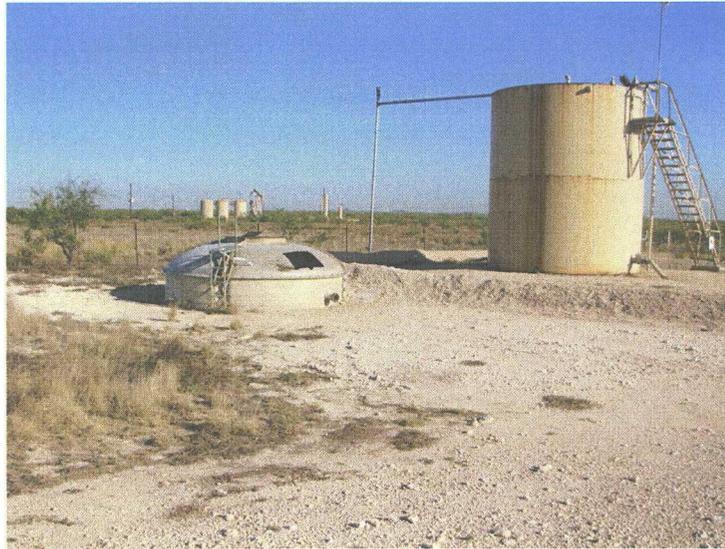


Photo 10

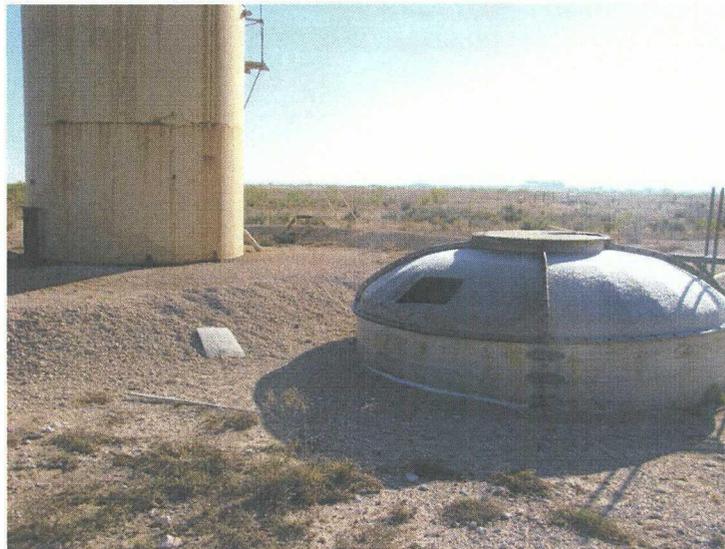


Photo 11

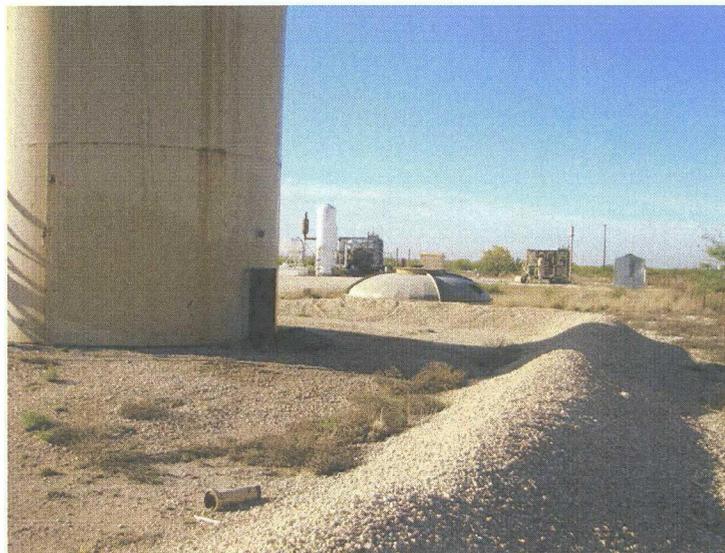


Photo 12

Southern Union Gas Services Site: Boyd Compressor Station
Job # BGT-006
Site Assessment 5/13/08

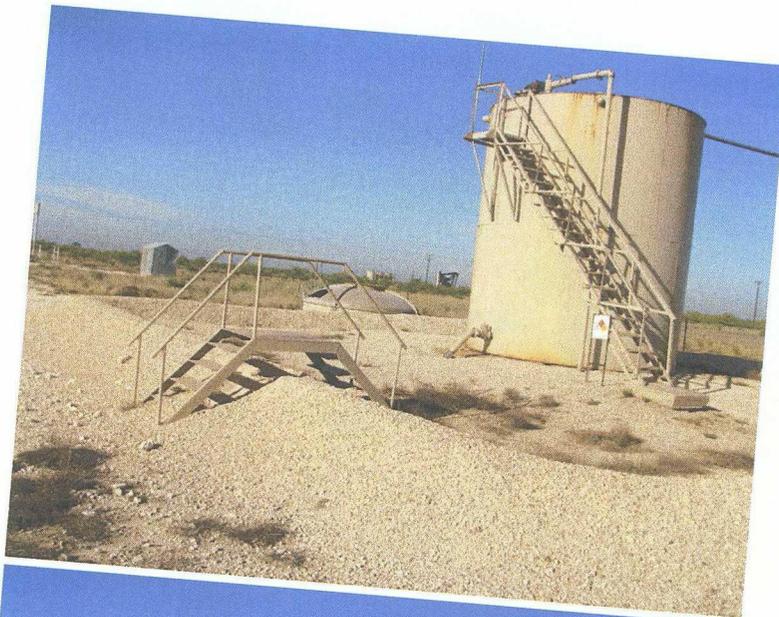


Photo 13

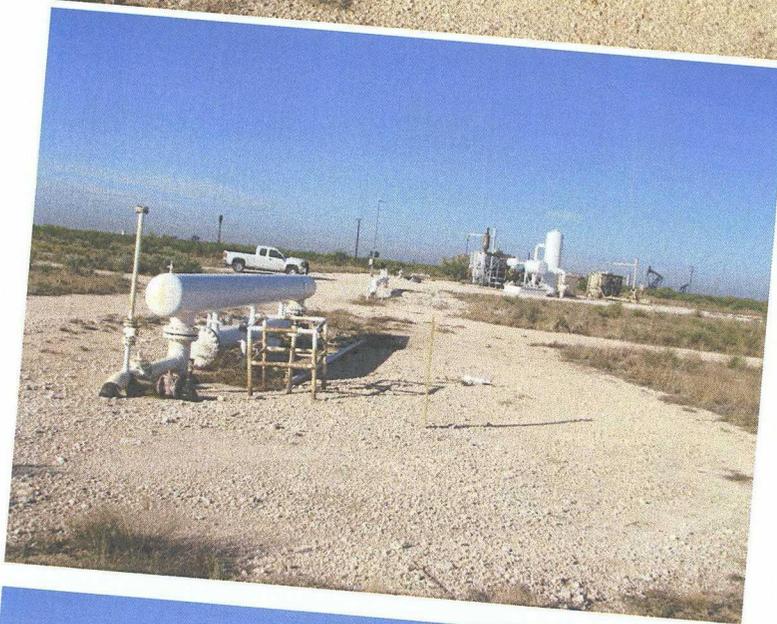


Photo 14

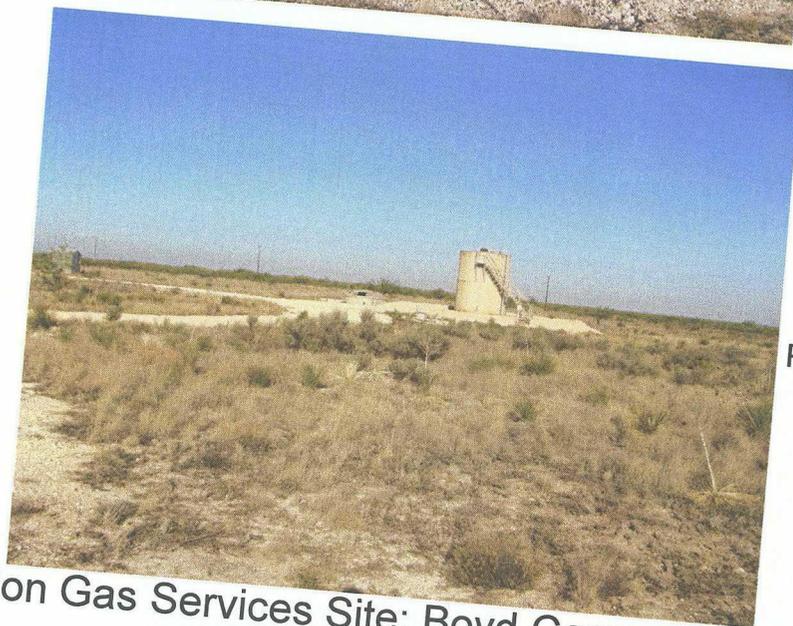


Photo 15

Southern Union Gas Services Site: Boyd Compressor Station
Job # BGT-006
Site Assessment 5/13/08

Hazardous Waste Determination

Date Sampled		9/18/2007	
location		Boyd Compressor	
Report #		289820	
Matrix		Soil	
Destination: Unkown			
Volume transported:			
Date:			
Toxicity	Analytical mg/kg	Reg limit (TCLP) mg/kg	Determination
Benzene	ND	0.5	Non-hazardous
Mercury	ND	0.2	Non-hazardous
Arsenic	ND	5.0	Non-hazardous
Barium	0.792	100.0	Non-hazardous
Cadmium	0.013	1.0	Non-hazardous
Chromium	ND	5.0	Non-hazardous
Lead	ND	5.0	Non-hazardous
Selenium	ND	1.0	Non-hazardous
Silver	ND	5.0	Non-hazardous
Reactive			
Cyanide	ND	250.0	Non-hazardous
pH	7.78 pH units	<2 or >12.5 pH units	Non-hazardous
Sulfide	ND	500.0	Non-hazardous
Ignitability			
	>150 Deg. F	<60 deg C	Non-hazardous
TPH	Analytical	Reg limit	Determination
	mg/kg	mg/kg	
418.1	51400	1000	Remediate

Analytical Report 289820

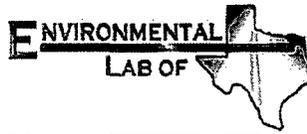
for

Southern Union Gas Services-Jal

Project Manager: Tony Savoie

Boyd Compressor

26-SEP-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers:

Houston, TX T104704215

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Midland - Corpus Christi - Atlanta



26-SEP-07

Project Manager: **Tony Savoie**
Southern Union Gas Services-Jal
610 Commerce
Jal, NM 88252

Reference: XENCO Report No: **289820**
Boyd Compressor
Project Address: SE of Eunice

Tony Savoie:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 289820. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 289820 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

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Sample Cross Reference 289820

Southern Union Gas Services-Jal, Jal, NM

Boyd Compressor

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Surface Composite	S	Sep-18-07 10:00	3 In	289820-001
# 1 Core @ 2'	S	Sep-18-07 10:00	2 ft	289820-002
# 1 Core @ 4'	S	Sep-18-07 10:00	4 ft	289820-003
# 2 Core @ 2'	S	Sep-18-07 11:00	2 ft	289820-004
# 2 Core @ 4'	S	Sep-18-07 11:00	4 ft	289820-005
# 2 Core @ 6'	S	Sep-18-07 11:00	6 ft	289820-006
# 2 Core @ 8'	S	Sep-18-07 11:00	8 ft	289820-007
# 2 Core @ 10'	S	Sep-18-07 11:00	10 ft	289820-008



Certificate of Analysis Summary 289820

Southern Union Gas Services-Jal, Jal, NM

Project Name: Boyd Compressor

Project Id:
Contact: Tony Savoie
Project Location: SE of Eunice

Date Received in Lab: Sep-18-07 02:46 pm
Report Date: 26-SEP-07
Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	289820-001	289820-002	289820-003	289820-004
		Surface Composite	-3 In	SOIL	Sep-18-07 10:00		# 1 Core @ 2'	# 1 Core @ 4'	# 2 Core @ 2'
							2 ft	4 ft	2 ft
							SOIL	SOIL	SOIL
							Sep-18-07 10:00	Sep-18-07 10:00	Sep-18-07 11:00
TCLP Benzene by EPA 8021B	<i>Extracted:</i>	Sep-20-07 11:02							
	<i>Analyzed:</i>	Sep-25-07 13:31							
	<i>Units/RL:</i>	mg/L RL							
Benzene			ND	0.0010					
TCLP Mercury by SW 7470A	<i>Extracted:</i>	Sep-20-07 10:30							
	<i>Analyzed:</i>	Sep-20-07 10:30							
	<i>Units/RL:</i>	mg/L RL							
Mercury			ND	0.0001					
TCLP Metals by SW846 6010B	<i>Extracted:</i>	Sep-20-07 08:46							
	<i>Analyzed:</i>	Sep-20-07 08:46							
	<i>Units/RL:</i>	mg/L RL							
Lead			ND	0.200					
Arsenic			ND	0.200					
Chromium			ND	0.050					
Silver			ND	0.040					
Selenium			ND	0.200					
Barium			0.792	0.020					
Cadmium			0.013	0.010					

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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 Brent Barron
 Odessa Laboratory Director



Certificate of Analysis Summary 289820

Southern Union Gas Services-Jal, Jal, NM

Project Name: Boyd Compressor

Project Id:
Contact: Tony Savoie
Project Location: SE of Eunice

Date Received in Lab: Sep-18-07 02:46 pm
Report Date: 26-SEP-07
Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	289820-001	289820-002	289820-003	289820-004
	<i>Field Id:</i>	Surface Composite	# 1 Core @ 2'	# 1 Core @ 4'	# 2 Core @ 2'
	<i>Depth:</i>	3 In	2 ft	4 ft	2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-18-07 10:00	Sep-18-07 10:00	Sep-18-07 10:00	Sep-18-07 11:00
Flash Point (CC) SW-846 1010	<i>Extracted:</i>				
	<i>Analyzed:</i>	Sep-19-07 09:20			
	<i>Units/RL:</i>	Deg F RL			
Flash Point		> 150 50.0			
Percent Moisture	<i>Extracted:</i>				
	<i>Analyzed:</i>	Sep-18-07 15:15	Sep-18-07 15:15	Sep-18-07 15:15	Sep-18-07 15:15
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL
Percent Moisture		6.16 1.00	15.6 1.00	16.5 1.00	12.1 1.00
Reactive Cyanide by EPA 9010	<i>Extracted:</i>				
	<i>Analyzed:</i>	Sep-20-07 16:12			
	<i>Units/RL:</i>	mg/kg RL			
Cyanide		ND 0.200			
Reactive Sulfide by SW 9030B	<i>Extracted:</i>				
	<i>Analyzed:</i>	Sep-20-07 15:50			
	<i>Units/RL:</i>	mg/kg RL			
Sulfide		ND 50.0			
Soil pH by EPA 9045C	<i>Extracted:</i>				
	<i>Analyzed:</i>	Sep-18-07 16:00			
	<i>Units/RL:</i>	SU RL			
pH		7.78			
TPH by EPA 418.1	<i>Extracted:</i>				
	<i>Analyzed:</i>	Sep-25-07 13:00	Sep-25-07 13:00	Sep-25-07 13:00	Sep-25-07 13:00
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Total Petroleum Hydrocarbons (TPH)		51400 107	54800 118	31900 120	43300 114

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 Brent Barron
 Odessa Laboratory Director



Certificate of Analysis Summary 289820

Southern Union Gas Services-Jal, Jal, NM

Project Name: Boyd Compressor

Project Id:
Contact: Tony Savoie
Project Location: SE of Eunice

Date Received in Lab: Sep-18-07 02:46 pm
Report Date: 26-SEP-07
Project Manager: Brent Barron, II

	<i>Lab Id:</i>	289820-005	289820-006	289820-007	289820-008
Analysis Requested	<i>Field Id:</i>	# 2 Core @ 4'	# 2 Core @ 6'	# 2 Core @ 8'	# 2 Core @ 10'
	<i>Depth:</i>	4 ft	6 ft	8 ft	10 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-18-07 11:00	Sep-18-07 11:00	Sep-18-07 11:00	Sep-18-07 11:00
Percent Moisture	<i>Extracted:</i>				
	<i>Analyzed:</i>	Sep-18-07 15:15	Sep-18-07 15:15	Sep-18-07 15:15	Sep-18-07 15:15
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL
Percent Moisture		17.1 1.00	22.7 1.00	22.3 1.00	17.3 1.00
TPH by EPA 418.1	<i>Extracted:</i>				
	<i>Analyzed:</i>	Sep-25-07 13:00	Sep-25-07 13:00	Sep-25-07 13:00	Sep-25-07 13:00
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Total Petroleum Hydrocarbons (TPH)		1240 2.41	47700 129	59200 129	61700 121

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 Brent Barron
 Odessa Laboratory Director



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F RPD exceeded lab control limits.
 - J The target analyte was positively identified below the MQL and above the SQL.
 - U Analyte was not detected.
 - L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K Sample analyzed outside of recommended hold time.
- * Outside XENCO'S scope of NELAC Accreditation

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2505 N. Falkenburg Rd., Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014

Phone	Fax
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(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: Boyd Compressor

Work Order #: 289820

Project ID:

Lab Batch #: 704951

Sample: 289820-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/L

SURROGATE RECOVERY STUDY

TCLP Benzene by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0415	0.0300	138	80-120	**
4-Bromofluorobenzene	0.0272	0.0300	91	80-120	

Lab Batch #: 704951

Sample: 289820-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/L

SURROGATE RECOVERY STUDY

TCLP Benzene by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0375	0.0300	125	80-120	*
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	

Lab Batch #: 704951

Sample: 499543-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

TCLP Benzene by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

Lab Batch #: 704951

Sample: 499543-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

TCLP Benzene by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0275	0.0300	92	80-120	

Lab Batch #: 704951

Sample: 499543-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

TCLP Benzene by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: Boyd Compressor

Work Order #: 289820

Project ID:

Lab Batch #: 704709

Sample: 704709-1-BKS

Matrix: Solid

Date Analyzed: 09/20/2007

Date Prepared: 09/20/2007

Analyst: AMB

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Reactive Cyanide by EPA 9010	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Cyanide	ND	0.400	0.390	98	80-120	

Lab Batch #: 705018

Sample: 705018-1-BKS

Matrix: Solid

Date Analyzed: 09/25/2007

Date Prepared: 09/25/2007

Analyst: WRU

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TPH by EPA 418.1	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Total Petroleum Hydrocarbons (TPH)	ND	12500	13400	107	65-135	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries

Project Name: Boyd Compressor

Work Order #: 289820

Analyst: AMB

Lab Batch ID: 704711

Sample: 704711-I-BKS

Units: mg/kg

Date Prepared: 09/20/2007

Batch #: 1

Project ID:
Date Analyzed: 09/20/2007

Matrix: Solid

BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Sulfide	ND	7910	7360	93	7910	7360	93	0	60-120	20	

Date Prepared: 09/20/2007

Batch #: 1

Date Analyzed: 09/25/2007

Matrix: Water

Sample: 499543-I-BKS

Units: mg/L

BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TCLP Benzene by EPA 8021B	ND	0.1000	0.0993	99	0.1	0.0957	96	4	70-125	25	

Date Prepared: 09/20/2007

Batch #: 1

Date Analyzed: 09/20/2007

Matrix: Water

Sample: 704677-I-BKS

Units: mg/L

BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TCLP Mercury by SW 7470A	ND	0.0010	0.0012	120	0.001	0.0012	120	0	75-125	20	

Relative Percent Difference RPD = $200 * |(D-F)/(D+F)|$
 Blank Spike Recovery [D] = $100 * (C)/[B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$
 All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries

Project Name: Boyd Compressor

Work Order #: 289820

Analyst: LATCOR

Lab Batch ID: 704679

Sample: 704679-1-BKS

Date Prepared: 09/20/2007

Batch #: 1

Project ID:

Date Analyzed: 09/20/2007

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TCLP Metals by SW846 6010B		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Arsenic		ND	0.800	0.783	98	0.8	0.795	99	2	80-120	20	
Barium		ND	0.200	0.198	99	0.2	0.202	101	2	80-120	20	
Cadmium		ND	0.200	0.199	100	0.2	0.203	102	2	80-120	20	
Chromium		ND	0.200	0.206	103	0.2	0.198	99	4	80-120	20	
Lead		ND	1.10	1.12	102	1.1	1.13	103	1	80-120	20	
Selenium		ND	0.400	0.403	101	0.4	0.392	98	3	80-120	20	
Silver		ND	0.100	0.091	91	0.1	0.097	97	6	80-120	20	

Relative Percent Difference RPD = $200 * (D-F) / (D+F)$

Blank Spike Recovery [D] = $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: Boyd Compressor

Work Order #: 289820

Lab Batch #: 704951

Date Analyzed: 09/25/2007

QC- Sample ID: 289820-001 S

Reporting Units: mg/L

Project ID:

Date Prepared: 09/20/2007

Analyst: SHE

Batch #: 1

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

TCLP Benzene by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Benzene	ND	0.1000	0.1010	101	70-125	

Lab Batch #: 704677

Date Analyzed: 09/20/2007

QC- Sample ID: 289820-001 S

Reporting Units: mg/L

Date Prepared: 09/20/2007

Analyst: LATCOR

Batch #: 1

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

TCLP Mercury by SW 7470A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Mercury	ND	0.0010	0.0012	120	75-125	

Lab Batch #: 704679

Date Analyzed: 09/20/2007

QC- Sample ID: 289820-001 S

Reporting Units: mg/L

Date Prepared: 09/20/2007

Analyst: LATCOR

Batch #: 1

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

TCLP Metals by SW846 6010B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Silver	ND	0.100	0.607	607	80-120	X
Arsenic	ND	0.800	0.852	107	80-120	
Barium	0.792	0.200	1.08	144	80-120	X
Chromium	ND	0.200	0.174	87	80-120	
Selenium	ND	0.400	0.425	106	80-120	
Lead	ND	1.10	1.04	95	80-120	
Cadmium	0.013	0.200	0.202	95	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference [E] = 200*(C-A)/(C+B)

All Results are based on MDL and Validated for QC Purposes



Sample Duplicate Recovery

Project Name: Boyd Compressor

Work Order #: 289820

Lab Batch #: 704625

Project ID:

Date Analyzed: 09/19/2007

Date Prepared: 09/19/2007

Analyst: RBA

QC- Sample ID: 289820-001 D

Batch #: 1

Matrix: Soil

Reporting Units: Deg F

SAMPLE / SAMPLE DUPLICATE RECOVERY

Flash Point (CC) SW-846 1010	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Flash Point	> 150	> 150	0	25	

Lab Batch #: 704543

Date Analyzed: 09/18/2007

Date Prepared: 09/18/2007

Analyst: RBA

QC- Sample ID: 289815-005 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	6.72	6.78	1	20	

Lab Batch #: 704709

Date Analyzed: 09/20/2007

Date Prepared: 09/20/2007

Analyst: AMB

QC- Sample ID: 289546-002 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY

Reactive Cyanide by EPA 9010	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Cyanide	ND	ND	NC	20	

Lab Batch #: 704711

Date Analyzed: 09/20/2007

Date Prepared: 09/20/2007

Analyst: AMB

QC- Sample ID: 289546-002 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY

Reactive Sulfide by SW 9030B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Sulfide	ND	ND	NC	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.



Sample Duplicate Recovery

Project Name: Boyd Compressor

Work Order #: 289820

Lab Batch #: 704626

Date Analyzed: 09/18/2007

QC- Sample ID: 289820-001 D

Reporting Units: SU

Project ID:

Analyst: RBA

Date Prepared: 09/18/2007

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY

Soil pH by EPA 9045C Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
pH	7.78	7.78	0	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: S.U.G.S. - Tel
 Date/ Time: 7/18/07 14:46
 Lab ID #: 289820
 Initials: AL

Sample Receipt Checklist

Client Initials

Question	Yes	No	Response	Initials
#1 Temperature of container/ cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	25 °C	
#2 Shipping container in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#3 Custody Seals intact on shipping container/ cooler?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Present	
#5 Chain of Custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#6 Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#7 Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#8 Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#11 Containers supplied by ELOT?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#12 Samples in proper container/ bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#13 Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#14 Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#15 Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#16 Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#17 Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#18 All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#19 Subcontract of sample(s)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	
#20 VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event