

AP - 018

**GENERAL
CORRESPONDENCE**

2001 - 1999

New Mexico & Metro

Rancher, City Report Water Contamination

Concerns Over Mercury Surprise Oil Company

The Associated Press

JAL — City officials and an area rancher are worried that nearby oil spills pose a threat to their water supplies.

Several wells on Clay Osborn's ranch have already suffered oilfield contamination, Osborn said.

Fears of brine and mercury contamination have led Osborn and the city of Jal to write several letters to the Oil Conservation Division about the South Langlie Jal Unit.

The unit was purchased by Chaparral Energy of Oklahoma City last year. Although it didn't cause contamination, it is the owner and must file the abatement or cleanup plan.

"We do not feel that the proposed abatement plan is extensive enough to correct the existing damage and/or prevent future contamination," Jal Mayor Mary Claiborne wrote in a letter to the conservation district. "If the current reported trend continues, we fear that there is definitely a possibility that our public water supply could be contaminated."

Although tests performed by the E.O.T.T. Pipeline Co. show that several wells on Osborn's ranch have high chloride levels, mercury has been detected only in a monitor well, Osborn said.

"If we do have it in the water, we cannot even sell our cattle," Osborn said. "If we do have mercury in our wells, we're just hung."

Robert Lang, environmental, health and safety manager for

Chaparral Energy, said this is the first he has heard about possible mercury contamination.

"I have yet to see anything regarding mercury contamination," he said. "That's a new one."

City officials say they don't believe the city's water has been affected, but it would be a good idea to do more extensive testing.

Representatives from the state Environment Department visited the Osborn ranch last week to collect water samples.

The department normally oversees only public water supplies, said Lisa Brown, a water specialist. She agreed to collect the samples because of Osborn's concern of mercury contamination.

Osborn has shut down most of his wells and has allowed stock ponds to dry up. He and his wife, Jeri,

have hauled water from town for drinking and cooking for more than a year.

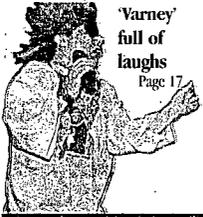
"We're getting awful tired of hauling," he said.

Lang said it's not fair to single out one company. The land has been in use since the earliest days of oil drilling, he said.

"The problem is widespread. You can pin blame on just about anybody in that part of the country, be they in the oil business, the cattle business or any other business," Lang said. "Your soils are such that anything you spill on the ground will eventually more than likely wind up in the aquifer."

The Osborns say they aren't looking for a big settlement.

"What we're after is our land restored and our water restored," Jeri Osborn said.



SUNDAY News-Sun

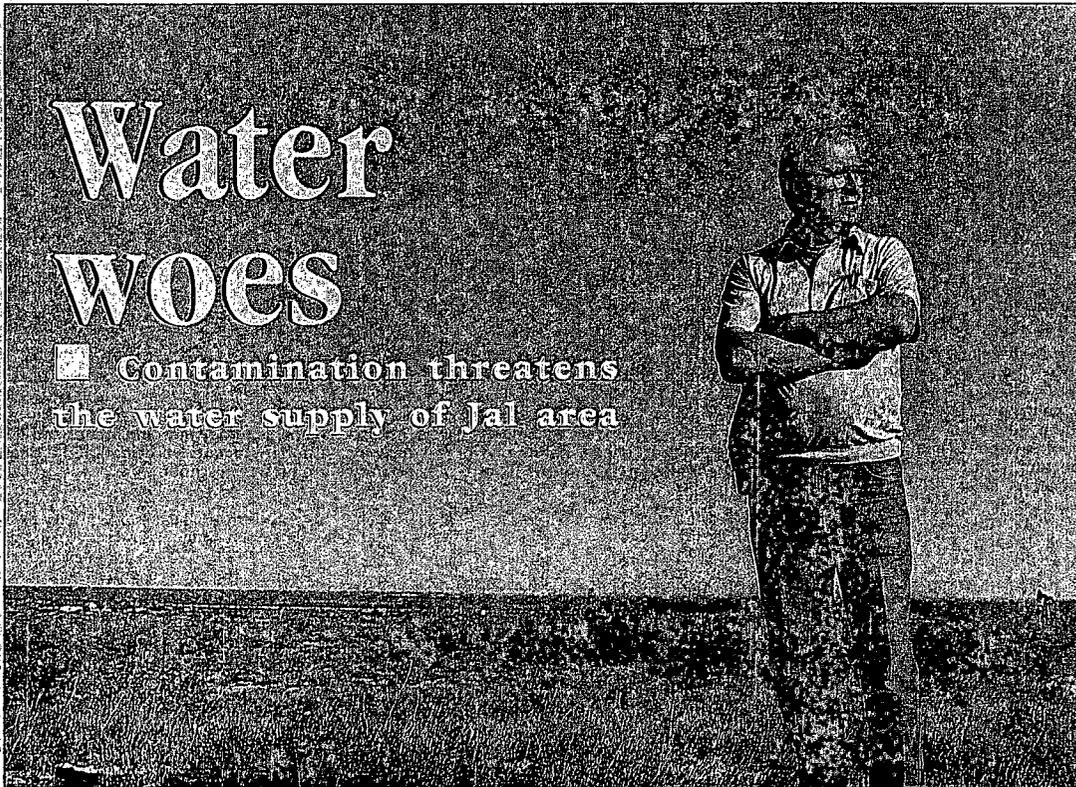
Arizona
wins opener
Page 9
WOP

74th Year, No. 193

October 28, 2001

Water woes

Contamination threatens the water supply of Jal area



Clay Osborn (above) looks over his ranch in Jal. Osborn claims his land and water are contaminated from oil companies. (Below left) A pipe found on Clay Osborn's ranch in Jal shows signs of dam-

age. Osborn claims that his land and water are contaminated as a result of oil companies.

Jal rancher, city seek plan to clean up groundwater

MARK R. FLETCHER
HOBBS NEWS-SUN

Clay Osborn's pride in his ranch just north of Jal is evident from the decorative pond full of Japanese koi to the stylish interior of his home.

Osborn and his wife, Jeri, however, worry how much longer they can continue to enjoy living on their nearly 2,000-acre ranch.

Several wells on his property have salted out from oilfield contamination and — more alarming — he has found evidence of mercury contamination.

Fears of brine and mercury contamination have led the City of Jal and the Osborns to write a series of letter to the Oil Conservation Division about the South Langlie Jal Unit. The unit, which was purchased from Bristol Resources Corporation by Chaparral Energy of Oklahoma City last year, is the subject of an abatement plan recently filed by Chaparral. Both the City of Jal and the Osborns feel the abatement plan is not adequate.

So far, no mercury has been found in Jal's water supply, and it's unclear if it is even threatened, but the city fears that may well happen.

The mercury was discovered in a monitor well installed by E.O.T.T.

Pipeline Company less than a mile from the Osborn house just north of Jal.

It is not, however, just Osborn's ranch that has become contaminated. The pollution, mostly brine and chlorides, has spread south into parts of Jal. Thus far, mercury has not been found off the Osborn ranch and the city's water supply appears safe.

The City of Jal is concerned enough about potential contamination of its wells that city officials have drafted a letter to the Oil Conservation Division expressing their concern.

The letter, dated Oct. 9 and addressed to William Olson of the Oil Conservation Division from Jal Mayor Mary C. Claiborne, expresses support for several property owners who have been affected by the contamination and criticizes the abatement plan.

"We do not feel that the proposed abatement plan is extensive enough to correct the existing damage and/or prevent future contamination," the letter reads. "If the current reported trend continues, we fear that there is definitely a possibility that our public water supply could be contaminated."

Although several wells in the area have "salted out" and tested with very high chloride levels, so far no mercury has been detected in any private wells — except the monitor well on the Osborn ranch — or in the city's water supply.



An unknown gas escapes from a burning pit on the Clay Osborn's ranch Wednesday night. The source of the gas is unclear, however, Osborn keeps it burning to prevent a back-up and possible explosion on his property.

Osborn learned of the potential mercury contamination after a test performed by the E.O.T.T. Pipeline Company.

He added that if the company had not done the testing, he may never have known that mercury was present. He also added that he doesn't know exactly which company is responsible for the mercury.

Robert C. Lang, the environmental, health and safety manager with Chaparral Energy, said the possibility of mercury contamination

Anti-sea-wid

Funeral heli-handler kills

WASHINGTON — Service buried a n anthrax — the seco while the sea widened Saturday, nesses in Washingtc tion centers. Anti there might be a se ter, or more, not yet

With the nation or mail, the post offic contract to buy devices to sanitize The equipment w Washington, where spread from mail ce the White House to the CIA.

The Supreme Cot antibiotics as a p other employees in Walks, Washington tor, said Saturday. N had been reported, h

Senate Majority L of South Dakota, w anthrax-related let was angry about th Americans must mc "We cannot be par slowed by our sadne the weaknesses in fronting bioterroris tect our people," Democratic respon weekly radio addres

In New Jersey, sta that about 600 peopl ic areas of a Hamill cessing facility wh should take antibio tion applies mainly 300 corporations w mail. Five New Jers contracted the disea

In Washington, po continued testing f tion in congressio facilities. The Ford ings at the House c the Senate's Hart of closed, as well as Dirksen building, garage was sche Monday.

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Dr. Gregory Marti Medical Center said nation discovered F sional offices in t Office Building was "We feel quite con no cases of anthra: men's office," he s offices and at the Su

Contamination

from PAGE 1

is news to him. "I have yet to see anything regarding mercury contamination. That's a new one," he said.

Although the brine contamination is bad enough, Osborn said he is especially concerned about the possibility of mercury contamination.

"If we do have it in the water, we cannot even sell our cattle," Osborn said. "If we do have mercury in our wells, we're just hung."

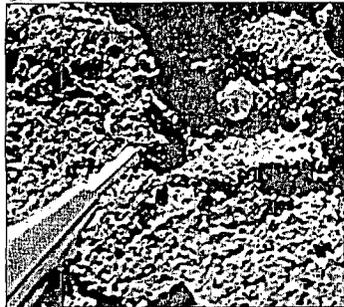
Darrell Stephenson, a Jal City councilor and Lea County commissioner, said he wants the City of Jal to test for metals in its water system. Stephenson's property is also just north of Jal and he said he worries that if there is mercury contamination on Osborn's property it may have found its way into the water.

Stephenson said he doesn't believe the city's water has been affected, but said it would be a good idea to test the city's water anyway to make sure.

"I don't think the people of Jal know if the water is contaminated," Stephenson said.

So far, only private wells along the north edge of town have been contaminated with brine and chlorides. It's not clear if the contamination includes mercury or if it threatens the city's municipal supply.

On Monday, representatives from the state Environment Department visited the Osborn ranch to collect water samples. Lisa D. Brown, a water resource engineering specialist with the Environment Department,



TAMMY MCKINLEY/HOBBS NEWS-SUN
Traces of mercury are found on the Jal ranch of Clay Osborn Monday. Osborn recently had his wells salinated and is testing for mercury in his water.

said normally, the department oversees only public water supplies. However, since Osborn's concerns involve possible mercury contamination, Brown agreed to collect samples at his home and the Stephensons as a courtesy.

Most alarming for Stephenson, his wife Joan has tested positive for mercury. Tests conducted earlier this year by a Roswell physician showed very elevated levels of mercury.

Stephenson said he has not heard of anyone else in the area testing positive for mercury levels, and said they are not sure yet what the source of the positive results were. He said the mercury could have come from old dental fillings or some other source, but with mercury found closely in Osborn's land, they are also concerned the material may have found its way into the ground water.

"We've got to start eliminating all these sources and find out where it's coming from," Osborn said.

While the possibility of mercury contamination is still somewhat speculative, the brine and chloride levels are not.

After finding the wells contaminated with chlorides and brine, Osborn shut off most of his wells and allowed the stock ponds on his ranch to dry up. In spots where the spills were particularly large, entire swaths of vegetation have simply died, leaving only the open sandy soil and a few salt-tolerant weeds. The Osborns have been hauling water from town to use for drinking and cooking for more than a year.

"We're getting awful tired of hauling," Osborn said.

The area in question, the South Langlie Jal Unit, is currently owned by Chaparral Energy. That company is not, however, the one responsible for the contamination.

Chaparral bought the unit out of bankruptcy when it acquired Bristol Resources. The company

admits it didn't particularly want that area, and knew there was some pending litigation because of the contamination.

"We did buy it out of bankruptcy (and) initially it was not part of the sales package. But when you go into a bankruptcy like that, you don't always have it come out the way you want it to," Lang said.

He also said that it's not fair to single out one company. He especially points out that the SLJU area has been in use since the earliest days of the oilfield in Lea County — perhaps as far back as the 1920s — and that makes it hard to pin responsibility on just one person or company. He also notes that the soils in the area make ground water contamination especially easy.

The problem is widespread, you can pin blame on just about anybody in that part of the country, be they in the oil business, the cattle business, or any other business," Lang said. "Your soils are such that anything you spill on the ground will eventually more than likely wind up in the aquifer. There's no totally impermeable barrier between the surface and the first aquifer."

Lang also points out that not all the wells in the area are contaminated, and that it would be premature to place all the responsibility on Chaparral until further tests have been done.

"I have no reason to doubt Mr. Osborn," Lang said. "It appears that he does have a water problem. But there are also ... wells from this same zone where the water is very good and not too far from him."

Although Chaparral is not the company that caused the contamination, it is the owner and must file an abatement plan. The company filed a stage-1 abatement with the OCD in August to start the process of deciding what cleanup procedures should be taken. This is the same plan the City of Jal wrote a letter in response to, and Osborn also finds the abatement plan inadequate.

The context of the abatement plan is too general," Osborn wrote in his rebuttal to Chaparral's plan, "and incorrectly assumes that the ground-water resources underlying the Osborn property was initially of poor quality."

Lang, who authored Chaparral's plan, has pointed out that elevated levels of chlorides have been detected as far back as the early 1950s, long



TAMM
Lisa Brown from the New Mexico one of the wells on Cl Environment, Department Drinking Water Monday to test for me Division out of Clovis gathers water from

before Bristol or Chaparral became involved.

"They've been contaminated for quite some time," Lang said.

For their part, the Osborns said they aren't after a big settlement; they simply want Chaparral to put their land back in order.

"What we're after is our land restored and our water restored," Jeri Osborn said.

The Osborns say they wanted to retire on the ranch. The area has particular sentimental value for them since Jeri's great-grandmother homesteaded the property in 1908.

Jeri Osborn said they continue to stick it out on their ranch because they hope eventually something will change.

"We keep hoping somebody will help," she said.

Osborn said over time his attempts to document the leaks and spills Bristol was responsible for became something of a contest.

"When they found out I was a cowboy with a camera, they tried to get out here to cover it up before I could get here," Osborn said.

Osborn's documentation efforts often paid off. In a letter from Olson to officials at Bristol about their environmental assessment of conditions on Osborn's ranch, Olson notes that OCD staff visited the ranch and found things

weren't quite the way Bristol said they were.

In addition, the OCD's inspection and Mr. Osborn's documents show that there are several other BRC (Bristol Resources Corporation) spill sites upgradient of Mr. Osborn's wells that were not addressed in BRC's environmental assessments," the letter reads.

"It's just sickening sometimes, the amount of damage that's been done," Osborn said. "You get mad is what you do."

By his own estimation Osborn has already spent tens of thou-

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Contamination threatens family's history on ranch

MARK R. FLETCHER HOBBBS NEWS-SUN

For Jeri Osborn the condition of her ranch is especially difficult.

Osborn's great grandmother, Elydia C. Winters, homesteaded there around 1908, and the ranch has a long history in her family — several family members were born and died on the ranch. Now the Osborns fear it may have become so heavily contaminated they may have to abandon it.

"(They) all died right out there," Jeri Osborn says of the ranch she and her husband Clay now call home. "It means a lot to us."

Osborn said she grew up at the ranch. The original homestead is still standing, which the Osborns now use as a stor-

had room after room added to it over the years. Its rough and rugged ancestry shows in the slanting, do-it-yourself-or-don't style floor.

Outside an old windmill still stands, though the wooden water tub blew away in a recent windstorm. Jeri Osborn added that several of the original outbuildings — a shed and a barn also received some damage in the same storm, along with several cottonwood trees.

The trees were also victims of the rising salt levels in the water, with the storm delivering the coup-de-grace.

Osborn said the house doesn't even have a foundation, but rests directly on the ground. She added they have thought

are too high, and they fear it may fall apart in the process.

Osborn said she has a lot of memories of living out on the ranch, and recalls meeting Winters when she was nearing the end of her long life — she died in the 1960s at age 99.

Winters must have been tough as nails to survive in a desolate place long before comforts like electricity and good roads made their way to this dusty spot of the world.

Osborn said Winters' first husband, Jon Ball, died shortly after they arrived. Osborn wears the ring he gave her with the initials J.B. inscribed on it.

The Osborns began buying up the property from the other heirs; most of whom she says

back," Osborn said.

Osborn said she wants to keep up their fight to get their land and water cleaned up because they like the place, not only for its long family history — but because it's just a beautiful spot.

Both Osborns speak lovingly of the wide-open clear view they have in several directions and the star-bedecked night sky that arches over their ranch.

"We like it here, it's nice and quiet," Jeri Osborn said.

She still hopes they can find a way to get their property restored, but admits that she sometimes worries that it may not be possible.

"Yes. That thought is out there," she said of having to

City of Jal

Telephone (505) 395-3340
Fax (505) 395-2243

523 Main
PO Drawer 340
Jal, New Mexico 88252

October 9, 2001

New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Attention: William C. Olson, Hydrologist

Re: Stage 1 Abatement Plan Proposal for Chaparral Energy, Inc.

Dear Mr. Olson:

Chaparral Energy has submitted a Stage 1 Abatement Plan Proposal for the South Langlie Unit site located near Jal, New Mexico in portions of Sections 7, 8, 17 and 18 of Township 25 South, Range 37 East, NMPM, Lea County, NM. They do operate or have operated injection wells at this site.

We do agree that Chaparral needs to conduct a complete investigation to determine exactly what problems exist, report findings and take the necessary action to reverse existing problems. However, the City of Jal will not be responsible for any expenses incurred by Chaparral Energy, Inc.

We do not feel that the proposed abatement plan is extensive enough to correct existing damage and/or prevent future contamination. It is our belief that additional well testing should be done. The plan should include testing of area wells that may not have been yet labeled as contaminated. Plus, test wells should be drilled in an area that is not situated in a straight line, but in a staggered formation.

If the current reported trend continues, we fear that there is definitely a possibility that our public water supply could be contaminated.

Thank you for your assistance and consideration.

Sincerely,



Mary C. Claiborne, Mayor

Chaparral Energy, Inc

701 Cedar Lake Blvd. ♦ Oklahoma City, OK 73114-7806
(405) 478-8770 ♦ Fax: (405) 478-1947

October 8, 2001

New Mexico Oil Conservation Division
Attn: Bill Olson, Hydrologist
1220 South St. Francis Drive
Santa Fe, NM 87505

Dear Mr. Olson:

Attached you will find a copy of the Notice of Publication sent to Chaparral Energy, Inc. from the Lovington Daily Leader, regarding the Stage 1 Abatement Plan for the South Langlie Jal Unit.

Should you require anything further, please contact the undersigned.

Sincerely,



Robert C. Lang IV, REM, CEA
Environmental, Health & Safety Manager

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

John Graham being first duly sworn on oath deposes and says that he is Publisher of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled
Notice Of Publication

~~was numbered~~ ~~in the~~
~~County of New Mexico~~, was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, ~~once each week on the same day of the week~~, for one (1) day consecutive weeks, beginning with the issue of September 25, ~~19~~ 2001 and ending with the issue of September 25, ~~19~~ 2001

And that the cost of publishing said notice is the sum of \$ 51.83 which sum has been (Paid) ~~XXXXXX~~ as Court Costs

Subscribed and sworn to before me this 9th day of October, ~~19~~ 2001

Debra Schilling
Notary Public, Lea County, New Mexico

My Commission Expires June 22, ~~19~~ 2002

LEGAL NOTICE NOTICE OF PUBLICATION STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations, the following Stage 1 Abatement Plan Proposal has been submitted to the Director of the Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, New Mexico 87505. Telephone (505) 476-3440.

Chaparral Energy, Inc. Robert C. Lang, Environmental, Health & Safety Manager, 8770, 701 Cedar Lake Blvd., Oklahoma City, Oklahoma, 73114-7806, has submitted a Stage 1 Abatement Plan Proposal for the South Langlie Unit Site, located near Jalisco, New Mexico, in portions of Sections 7, 8, 17, and 18 of Township 25 South, Range 37 East NMPM, Lea County, New Mexico. Chaparral Energy, Inc. operates oil and gas production and injection wells at the site. Chloride and total dissolved solids in excess of New Mexico Water Quality Control Commission standards have been observed in ground water at the site. The Stage 1 Abatement Plan Proposal presents the following subsurface investigation activities: determine site geology and hydrogeology; conduct a registered water well search within a 1 mile radius of the site; install monitoring wells; collect

soil samples for field screening and/or laboratory analysis from each boring; collect ground water samples for laboratory analysis from each monitoring well; obtain depth to ground water measurements and calculate the ground water gradient and direction; survey fall well locations by a professional land surveyor, registered in the State of New Mexico; and prepare a report summarizing field activities and laboratory results.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The State Abatement Plan Proposal may be viewed at the above address or at the Oil Conservation Division Hobbs District Office, 1625 N. French Drive, Hobbs, New Mexico 88240. Telephone (505) 393-6161 between 8:00 a.m. and 4:00 p.m. Monday through Friday. Prior to ruling on any proposed Stage 1 Abatement Plan Proposal, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which written comments may be submitted. Published in the Lovington Daily Leader September 25, 2001.

Chaparral Energy, Inc

701 Cedar Lake Blvd. ♦ Oklahoma City, OK 73114-7806
(405) 478-8770 ♦ Fax: (405) 478-1947

October 8, 2001

New Mexico Oil Conservation Division
Attn: Bill Olson, Hydrologist
1220 South St. Francis Drive
Santa Fe, NM 87505

Dear Mr. Olson:

Attached you will find a copy of the Notice of Publication sent to Chaparral Energy, Inc. from the Hobbs News-Sun and the Albuquerque Journal, regarding the required Stage 1 Notice of Publication. Notices were sent to all three newspapers but as of this writing no written response has been returned to us from the Lovington Daily Leader. The Lovington Daily Leader has been requested to send us an Affidavit of Publication. As soon as it arrives a copy will be forwarded to you.

Also attached are Affidavits of Mailing. The first one covers the names we were sent by the State of New Mexico. The second covers all owners of record within one mile of the South Langlie Jal Unit.

Should you require anything further, please contact the undersigned.

Sincerely,



Robert C. Lang IV, REM, CEA
Environmental, Health & Safety Manager

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

of 1

weeks.

Beginning with the issue dated

September 22 2001

and ending with the issue dated

September 22 2001

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 24th day of

September 2001

Jodi Henson

Notary Public.

My Commission expires
October 18, 2004
(Seal)

LEGAL NOTICE
September 22, 2001

NOTICE OF PUBLICATION
STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations the following Stage 1 Abatement Plan Proposal has been submitted to the Director of the Oil Conservation Division, 1220 St. Francis Dr. Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

Chaparral Energy, Inc., Robert C. Lang, Environmental, Health & Safety Manager, Telephone (405) 478-8770, 73114-7806, has submitted a Stage 1 Abatement Plan Proposal for the South Langlie Jal Unit site, located near Jal, New Mexico in portions of Sections 7, 8, 17, and 18 of Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Chaparral Energy, Inc. operates oil and gas production and injection wells at the site. Chloride and total dissolved solids in excess of New Mexico Water Quality Control Commission standards have been observed in ground water at the site. The Stage 1 Abatement Plan Proposal presents the following subsurface investigation activities:

- determine site geology and hydrology; conduct a registered well search within a 1 mile radius of the site;
- install monitoring wells; collect soil samples for field screening and/or laboratory analysis from each boring;
- collect ground water samples for laboratory analysis from each monitoring well; obtain depth to ground water measurements and calculate the ground water gradient and direction; survey all well locations by a professional land surveyor registered in the State of New Mexico; and prepare a report summarizing field activities and laboratory results.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The Stage 1 Abatement Plan Proposal may be viewed at the above address or at the Oil Conservation Division Hobbs District Office, 1625 N. French Drive, Hobbs, New Mexico 88240, Telephone (505) 393-6161 between 8:00 a.m. and 4:00 p.m. Monday through Friday. Prior to ruling on any proposed Stage 1 Abatement Plan Proposal, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which written comments may be submitted.

#18442

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

02105572000 02550273
Chaparral Energy, Inc.
701 Cedar Lake Blvd.
OKLAHOMA CITY, OK 73114-7806

Advertising Receipt

Hobbs Daily News-Sun

201 N Thorp
P O Box 850
Hobbs, NM 88241-0850
Phone: (505) 393-2123
Fax: (505) 397-0610

Robert Lang
Chaparral Energy, Inc.
701 Cedar Lake Blvd.
OKLAHOMA CITY, OK 73114-7806

Cust#: 02105572-000
Ad#: 02550273
Phone: (405)478-8770
Date: 09/21/01

Ad taker: Meg **Salesperson:** **Classification:** 672

Description	Start	Stop	Ins.	Cost/Day	Surcharges	Total
07 07 Daily News-Sun	09/22/01	09/22/01	1	59.95		59.96
Affidavit for legals						2.00

Payment Reference:

Total: 61.96
Tax: 3.72
Net: 65.68
Prepaid: 0.00

LEGAL NOTICE
September 22, 2001

NOTICE OF PUBLICATION
STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations, the following Stage 1 Abatement Plan Proposal has been submitted to the Director of the Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

Chaparral Energy, Inc., Robert C. Lang, Environmental, Health & Safety Manager,
Telephone (405) 478-8770, 73114-7806, has submitted a Stage 1 Abatement Plan P
proposal for the South Langlie U&I Unit site, located near U&I, New Mexico in portions of

Total Due 65.68

STATE OF NEW MEXICO
County of Bernalillo SS

RECEIVED OCT - 12 2001

Bill Tafoya, being duly sworn, declares and says that he is Classified Advertising Manager of **The Albuquerque Journal**, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made of assessed as court cost; that the notice, copy of which is hereto attached, was published in said paper in the regular daily edition, for 1 times, the first publication being on the 24 day of Sept, 2001, and the subsequent consecutive publications on _____, 2001.

[Signature]
Sworn and subscribed to before me, a Notary Public, in and for the County of Bernalillo and State of New Mexico this 24 day of Sept of 2001.

PRICE 36.31

Statement to come at end of month.

ACCOUNT NUMBER 083283

CLA-22-A (R-1/93)

OFFICIAL
Samantha
NOTARY
STATE OF NEW MEXICO
My Commission Expires: 10
[Signature]

NOTICE OF PUBLICATION
STATE OF NEW MEXICO
ENERGY, MINERALS AND
NATURAL RESOURCES
DEPARTMENT OIL
CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations, the following Stage 1 Abatement Plan Proposal has been submitted to the Director of the Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

Chaparral Energy, Inc., Robert C. Lang, Environmental, Health & Safety Manager, Telephone (405) 478-8770, 701 Cedar Lake Blvd., Oklahoma City, Oklahoma 73114-7806, has submitted a Stage 1 Abatement Plan Proposal for the South Langley Jal Unit site, located near Jal, New Mexico in portions of Sections 7, 8, 17 and 18 of Township 25 South, Range 87 East, NMPM, Lea County, New Mexico. Chaparral Energy, Inc. operates oil and gas production and injection wells at the site. Chloride and total dissolved solids in excess of New Mexico Water Quality Control Commission standards have been observed in ground water at the site. The Stage 1 Abatement Plan Proposal presents the following subsurface investigation activities: determine site geology and hydrogeology; conduct a registered water well search within a 1/2 mile radius of the site; install monitoring wells; collect soil samples for field screening and/or laboratory analysis; from each boring, collect ground water samples for laboratory analysis from each monitoring well; obtain depth to ground water measurements and calculate the ground water gradient and direction; survey all well locations by a professional land surveyor; register in the State of New Mexico; and prepare a report summarizing field activities and laboratory results.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The Stage 1 Abatement Plan Proposal may be viewed at the above address or at the Oil Conservation Division Hobbs District Office, 1625 N. French Drive, Hobbs, New Mexico 88240. Telephone (505) 393-6161, between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed Stage 1 Abatement Plan Proposal, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which written comments may be submitted.
Journal: September 24, 2001

AFFIDAVIT OF MAILING

ROBERT C. LANG IV, being first duly sworn, upon oath states:

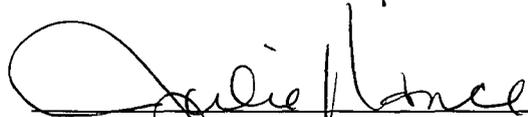
I am the Environmental, Health & Safety Manager for Chaparral Energy, Inc. whose address is 701 Cedar Lake Blvd., Oklahoma City, OK 73114-7806. On September 19, 2001 I caused to be mailed Notice of Chaparral Energy, Inc.'s application to the New Mexico Oil Conservation Division for Approval of the Stage 1 Abatement Plan Proposal for the South Langlie Jal Unit in Leas County, New Mexico.

The statements contained in this Affidavit are true and correct and any false statement may subject the affiant to a charge of perjury.

FURTHER AFFIANT SAYETH NOT.



Subscribed and sworn to before me this 20th day of September,
20 01.



Notary Public

My Commission Expires:

3/6/05

South Langlie Jal Unit Labels

A F & A M Lodge	P.O. Box 904	Jal, NM 88252	
Abraham R. Navarrette	1607 E Bond	Hobbs, NM 88240	
Adan Escareno	c/o Daryl Reed	P.O. Box 696	Jal, NM 88252
Alfred R. Posey	P.O. Box 567	Jal, NM 88252	
Alice P. Martinez	P.O. Box 494	Jal, NM 88252	
Allen J. Dutton	179 Ricketts Road	Hamilton, MT 59840	
Allied Chemical Corp. Meridian Oil Inc-Ad Valorem	801 Cherry St.	Fort Worth, TX 76102	
Allsup's #32	P.O. Box 1907	Clovis, NM 88101	
Alonzo V. Briones	P.O. Box 962	Jal, NM 88252	
Alton W. Cox	P.O. Box 1015	Jal, NM 88252	
Alvaro Hernandez Jr.	P.O. Box 1061	Jal, NM 88252	
American Legion Rex Baird Post # 38	P.O. Box 1145	Jal, NM 88252	
Amy Marie Freeman	8308 Woodlake Place	Tampa, FL 33615	
Anabell Holden	c/o Norman Pender	P.O. Box 177	Jal, NM 88252
Andres Juarez	P.O. Box 155	Jal, NM 88252	
Andres M. Ortega, Jr.	7402 Diana	Odessa, TX 79764	
Andres T. Orozco	c/o Alicia Mack	7101 Dixie Dr.	Austin, TX 78744
Angel Gonzalez	P.O. Box 54	Jal, NM 88252	
Anita Yarborough	P.O. Box 1146	Jal, NM 88252	
Antonio Armendariz, Jr.	P.O. Box 853	Jal, NM 88252	
Antonio H. Gonzales	P.O. Box 718	Jal, NM 88252	
Antonio Holquin	P.O. Box 489	Jal, NM 88252	
Apolinar Castillo	4027 Eunice Hwy	Hobbs, NM 88240	
Apostolic Assembly of the Faith in Christ Jesus, Inc.	1924 E Oak	Hobbs, NM 88240	
Armando Cervantes	608 East Stanolind Rd.	Hobbs, NM 88240	
Armando Meza	P.O. Box 619	Jal, NM 88252	
Armstrong Family Trust	P.O. Box 1267	Jal, NM 88252	
Arron D. Dobbs	P.O. Box 1113	Jal, NM 88252	
Arturo C. & Sylvia Lopez	P.O. Box 945	Jal, NM 88252	
Arturo Lujan	P.O. Box 899	Jal, NM 88252	
Assembly of God Church	Drawer B	Jal, NM 88252	
Aubrey G. Watson	P.O. Box 772	Jal, NM 88252	
Audrey L Vasquez & Jack Harbison	P.O. Box 173	Jal, NM 88252	
B. G. Snider	P.O. Box 684	Jal, NM 88252	
B. H. Chisolm	P.O. Box 369	Jal, NM 88252	
Barney Hart Hubbs	P.O. Box 1897	Pecos, TX 79772	
Barney Hubbs	P.O. Box 1897	Pecos, TX 79772	
Beatrice Carrasco & James Licon	P.O. Box 698	Jal, NM 88252	
Beatrice H Shipler	P.O. Box 344	Jal, NM 88252	
Belly W. Cramer	c/o Silvio Cervantes	P.O. Box 927	Jal, NM 88252

South Langlie Jal Unit Labels

Ben H. Chance	P. O. Box 638	Jal, NM 88252	
Benjamin T. Fisher & Rueben Lujan	P.O. Box 444	Jal, NM 88252	
Bernard R. Volpe	P.O. Box 258	Jal, NM 88252	
Betty L. Holland	P.O. Box 1147	Jal, NM 88252	
Betty White, James & Benny Stephens	7025 Eunice Hwy	Hobbs, NM 88240	
Bill Alaxendar	P.O. Box 121	Jal, NM 88252	
Bill G. Taylor	1106 N Country Club	Carlsbad, NM 88220	
Bill H. Evans	P.O. Box 1197	Jal, NM 88252	
Bill R. Garrett	1211 Whitehouse Dr.	Colorado Springs, CO 80904	
Billie B. Clarke	23 Broadway Village Dr., Apt. A	Columbia, MO 65201	
Billy C. Lewallen	P.O. Box 412	Jal, NM 88252	
Billy C. Lewallen	P.O. Box 1120	Jal, NM 88252	
Billy Hart Gubbs	c/o Donnie W. Green	P.O. Box 1103	Jal, NM 88252
Billy Kirby	P.O. Box 421	Jal, NM 88252	
Billy L. Bentle	P.O. Box 533	Jal, NM 88252	
Billy W. Mosley	800 Del Mar Lane	Arlington, NM 76012	
Blocker Family Trust	c/o Chad A. Merchant	P.O. Box 365	Jal, NM 88252
Bobby G. Burkett	P.O. Box 515	Jal, NM 88252	
Bobby G. Wells	P.O. Box 757	Jal, NM 88252	
Bobby W. Smith	P.O. Box 956	Jal, NM 88252	
Bonner Ivey	P.O. Box 11	Lometa, TX 76853	
Brininstool LLC	P.O. Drawer A	Jal, NM 88252	
Brumley Elton Ray	P.O. Box 322	Jal, NM 88252	
Buren L. Pittman	P.O. Box 870	Jal, NM 88252	
Burl A. Hiles	P.O. Box 258	Jal, NM 88252	
C. A. Reno	c/o Virginia Baeza Carillo	2080 Austin Drive	Las Cruces, NM 88001
C. W. Rogers Jr. et al	P.O. Box 531	Jal, NM 88252	
C.D. Smith	Star Route 1, Box 114	Jal, NM 88252	
C.D. Woolworth Trust	c/o Jal Public Library Fund	P.O. Box 178	Jal, NM 88252
C.R. Franklin	c/o J.D. Franklin	3709 Cedar Springs	Midland, TX 79703
Carl Caudle	P.O. Box 774	Jal, NM 88252	
Cardean Walls	P.O. Box 1003	Jal, NM 88252	
Carlos C. Martinez	P.O. Box 50	Jal, NM 88252	
Carlos Navarrete	P.O. Box 628	Jal, NM 88252	
Carmen Pulido	P.O. Box 87	Jal, NM 88252	
Carolina Cervantes	P.O. Box 51	Jal, NM 88252	
Carolyn Rooks	P.O. Box 950	Valiant, OK 74764	
Carolyn Taylor	1106 N. Country Club	Carlsbad NM 88220	
Carroll H. & Mabel P. Leavell	Drawer D	Jal, NM 88252	
Castle Tower Corp	Communications Media Tax Serv%	Pmb 353 4017 Washington Rd	Mc Murray, PA 15317

South Langlie Jal Unit Labels

Celso Villanueva & Barbara Serrano Anaya	P. O. Box 688	Jal, NM 88252	
Chamber of Commerce	Box 1205	Jal, NM 88252	
Chaparral Service Inc.	Drawer 1769	Eunice, NM 88231	
Charles H. Brame	P. O. Box 384	Jal, NM 88252	
Charles R. Walter Jr.	P. O. Box 546	Jal, NM 88252	
Charles R. Walter Jr.	c/o Curt Pittam	P. O. Box 1284	Jal, NM 88252
Charles Taff	P. O. Box 203	Jal, NM 88252	
Charlie David Albertson	P. O. Box 574	Jal, NM 88252	
Charlie Kemp	P. O. Box 991	Jal, NM 88252	
Chris E. Chesser et al	c/o William Roy Cates, JR	P. O. Box 1207	Jal, NM 88252
Jal Church of Christ	P. O. Box N	Jal, NM 88252	
Church of God	P. O. Box 841	Jal, NM 88252	
Cindy L. Granado	P. O. Box 288	Jal, NM 88252	
Cities Development Co.	c/o Barney Hubbs	P. O. Box 1897	Pecos, TX 79772
City of Jal	Drawer 340	Jal, NM 88252	
Clara Fletcher	P. O. Box 525	Jal, NM 88252	
Clara Jane Miller	c/o Jal Public Library Fund Trust	P. O. Box 178	Jal, NM 88252
Clara Snow	P. O. Box 764	Jal, NM 88252	
Clarence Lee Hardin	P. O. Box 1212	Jal, NM 88252	
Claude F. Kizzar	P. O. Box 1198	Jal, NM 88252	
Claudia Mae Stewart	Box 206	Jal, NM 88252	
Clifford H. Reid	P. O. Box 405	Jal, NM 88252	
Clinton H. Adams	2512 Quail Point	Midland, TX 79705	
Clotilde Lujan	c/o Angela Navarrete	P. O. Box 1052	Jal, NM 88252
Clovis L. Hallman	P. O. Box 1266	Jal, NM 88252	
Cobra Industries, Inc.			
Cody Neil Pritchard	P. O. Box 626	Jal, NM 88252	
Commissioner of Public Lands State Land Office	P. O. Box 1148	Santa Fe, NM 87504-1148	
Cosme Cervantes	P. O. Box 51	Jal, NM 88252	
Coy J. Ward Trust	P. O. Box 608	Jal, NM 88252	
Curt Pittam.	P. O. Box 325	Jal, NM 88252	
Dales E. Miller	P. O. Box 108	Jal, NM 88252	
Daniel Baeza	P. O. Box 690	Jal, NM 88252	
Daniel K. Hanakins	c/o Associates Financial Services	105 Decker Drive 7 Crestview	Irving, TX 75062
Daniel M. Baeza	Box 690	Jal, NM 88252	
Dannie P. & Shannon P. Maberry	P. O. Box 868	Jal, NM 88252	
Danny D. Thompson	P. O. Box 855	Jal, NM 88252	
Danny E. Galle	P. O. Box 337	Jal, NM 88252	
Danny Emerson	P. O. Box 185	Jal, NM 88252	
Darrell E. Bailey Sr	P. O. Box 1225	Jal, NM 88252	

South Langlie Jail Unit Labels

Darrell Reed	P.O. Box 696	Jal, NM 88252	
Darold E. Stephenson	P.O. Box 749	Jal, NM 88252	
Daryl D. Snell	P.O. Box 592	Jal, NM 88252	
David C. Baum & Vicki K. Gwynne	P.O. Box 14075	Odessa, TX 79761	
David D. Ford	Box 837	Jal, NM 88252	
David E. McFadden	P.O. Box 382	Jal, NM 88252	
David F. Artalejo, et al	P.O. Box 603	Jal, NM 88252	
David H. Randall Trust	10802 Est County Road 106	Midland, TX 79706	
David L. Hammons	P.O. Box 79	Jal, NM 88252	
David Maness	P.O. Box 1114	Jal, NM 88252	
David Michael Passarella	8105 Forest Mesa	Austin, TX 78759	
David Sutor	P.O. BOX 70	Jal, NM 88252	
David T. Artalejo	P.O. Box 603	Jal, NM 88252	
De Wayne Chesser	P.O. Box 1018	Jal, NM 88252	
Delard A. Miller	P.O. Box 1021	Jal, NM 88252	
Delbert Melby	P.O. Box 54	Westby, MT 59275	
Della Taylor Laman	2601 Radio Blvd	Carlsbad, NM 88220	
Denise I. Arroya	P.O. Box 210	Jal, NM 88252	
Dennis Allen	9081 County Road 865	Princeton, TX 75407	
Desdie Pauline Wilkerson	c/o Richard K. Townsen	1351 Andy Lane #523	Abilene, TX 79605
Deward T. Taylor	Star Route Box 173	Kermit, TX 79745	
Don W. Green	P.O. Box 758	Jal, NM 88252	
Don W. Tibbets	P.O. Box 387	Jal, NM 88252	
Donald H. Adams & Peggy J. Adams	P.O. Box 828	Jal, NM 88252	
Donald R Welch	P.O. Box 37	Jal, NM 88252	
Donald R. Trice Trust	P.O. Box 553	Jal, NM 88252	
Donald Ray Huff	1166 HWY 261	Broonville, IN 47601	
Donald Whitten, et. al.	P.O. Box 1713	Oracle, AZ 85623	
Doris L. & Allen D. Speed	P.O. Box 212	Jal, NM 88252	
Dorothy J. Jackson	P.O. Box 1079	Kermit, TX 79745	
Douglas W. Harrison	P.O. Box 992	Jal, NM 88252	
Doyle Hartman	P.O. Box 10426	Midland, TX 79702	
Duane F. Walden	P.O. Box 293	Jal, NM 88252	
Dulces N. Jarez	P.O. Box 800	Jal, NM 88252	
Dulces P. Lujan	P.O. Box 1095	Jal, NM 88252	
E. W. Rusche	c/o Humberto Rodrigues	P.O. Box 794	Jal, NM 88252
Earl R. Stanton	P.O. Box 483	Stratford, OK 74872	
Eddie & Linda Hill	P.O. Box 208	Jal, NM 88252	
Eddie L. Collins	P.O. Box 1248	Jal, NM 88252	
Edith H. Hill	P.O. Box 544	Jal, NM 88252	

South Langlie Jal Unit Labels

Edna Mason	P.O. Box 5072	Carlsbad, NM 88221	
Eduardo Navarrete	P.O. Box 19	Jal, NM 88252	
Edwin E. Eberhard	P.O. Box 272	Downey, CA 90241	
Edwin Lee Cogburn	905 S. James	Monahans, TX 79756	
EI Paso Natural Gas Co. Ad Valorem Tax Dept.	P.O. Box 2511	Houston, TX 77252	
Elia Mendoza	P.O. Box 25	Monument, NM 88265	
Eliazor Ibarra	P.O. Box 642	Jal, NM 88252	
Eloise L. Dobbs	P.O. Box 446	Jal, NM 88252	
Elsie F. Snider	P.O. Box 684	Jal, NM 88252	
Emma Navarrete	P.O. Box 314	Jal, NM 88252	
Erma Avis Brewer Et al	P.O. Box 602	Jal, NM 88252	
Erma Granada Meza	P.O. Box 74	Jal, NM 88252	
Eugene Immel	P.O. Box 862	Jal, NM 88252	
Eugenia Lopp	8100 Spiry Road	Evansville, IN 47715	
Eutimio Ramirez	P.O. Box 609	Jal, NM 88252	
Eva Aguirre	P.O. Box 257	Jal, NM 88252	
F. J. Jenkins	c/o Judy Jenkins Neal	4721 Janie Ave.	Millington, TN 38053
F. M. Slack	c/o Leta K. Slack	3631 Crestline Rd.	Ft. Worth, TX 76107
Faustino O. Ramirez	P.O. Box 1347	Hobbs, NM 88241	
Faye M. Bryant (Brinnstool)	107 S Greasewood St.	Ft. Stockton, TX 79735	
Felipe Juarez Jr.	2530 W TEXAS	Carlsbad, NM 88220	
Felix Hernandez	P.O. Box 729	Jal, NM 88252	
Fernando Navarrete & Javier Garcia	P.O. Box 77	Jal, NM 88252	
Fifth St. Baptist Church	Drawer 11	Jal, NM 88252	
First Baptist Church	P.O. Box 358	Jal, NM 88252	
Floyd Mathis	Drawer B B	Jal, NM 88252	
Floyd A. Mosley	800 Del Mar Lane	Arlington, NM 76012	
Floyd C. Pilcher	P.O. Box 146	Jal, NM 88252	
Floyd Lee	P.O. Box 1075	Jal, NM 88252	
Floyd Mathis	P.O. Drawer BB	Jal, NM 88252	
Floyd's Property	P.O. Box BB	Jal, NM 88252	
Floyd's Pumping & Roustabout Service	Drawer BB	Jal, NM 88252	
Fonzy Abeyta	P.O. Box 458	Jal, NM 88252	
Francisco Arroyo	P.O. Box 210	Jal, NM 88252	
Francisco Ramos	P.O. Box 565	Jal, NM 88252	
Francisco S. Muniz		Jal, NM 88252	
Francisco Javier Garcia	P.O. Box 254	Jal, NM 88252	
Frank B. Frame	P.O. Box 1017	Jal, NM 88252	
Frank D. Gage Trust	P.O. Box 1092	Jal, NM 88252	
Frank J. Lima	P.O. Box 999	Jal, NM 88252	

South Langlie Jail Unit Labels

Frank Klimek	P.O. Box 1133	Jal, NM 88252	
Frank L. Higgins	P.O. Box 60024	Midland, TX 79711	
Fred B. Cooper	RR #1 Box 141	Blossom, TX 75416	
Freddie J. Watson	P.O. Box 874	Jal, NM 88252	
Freddie Joe Ragain	P.O. Box 754	Jal, NM 88252	
Freddie Watson Dunlap	c/o Cindy Gray	Box 140	Jal, NM 88252
Fulfer Electric	P.O. Box 578	Jal, NM 88252	
G L Oil & Drilling Co.	Drawer	Jal, NM 88252	
G. L. Hobbs	P.O. Box 519	Jal, NM 88252	
G. R. Hale	P.O. Box 1205	Lovington, NM 88260	
G. W. Ramsey & Charlene Hobbs	P.O. Box 426	Jal, NM 88252	
Gale D. Morris	P.O. Box 576	Jal, NM 88252	
Gary L. Payne	#9 Vine Street	New Caney, TX 77357	
Gary M. Orr	P.O. Box 803	Jal, NM 88252	
Gary Neill Blocker Trust	P.O. Drawer C	Jal, NM 88252	
Gary W. Tipton, Jr.	P.O. Box 315	Jal, NM 88252	
Genaro S. Valles, Jr.	P.O. Box 1201	Jal, NM 88252	
Genaro Valles, Jr.	Box 363	Jal, NM 88252	
Gene Armstrong	P.O. Box 1267	Jal, NM 88252	
Genee H. Schubert	2020 Vega Court	Hobbs, NM 88240	
Geneva & Juan Jose Florez	P.O. Box 227	Jal, NM 88252	
George E. Ridlon	410 E. Country	Roswell, NM 88201	
George G. Segovia, Sr.	P.O. Box 138	Jal, NM 88252	
George G. Swain	P.O. Box 197	Jal, NM 88252	
George W. Washburn	P.O. Box 328	Jal, NM 88252	
Gerald W. Knight	P.O. Box 512	Jal, NM 88252	
Geraldine Osborn & Clay Osborn	P.O. Box 1285	Jal, NM 88252	
Geraldine Williams	P.O. Box 20	Jal, NM 88252	
Gertrude Faber	P.O. Box 893	Jal, NM 88252	
Gilberto N. and Eulojia Communez	P.O. Box 700	Jal, NM 88252	
Gloria M. Nunez	P.O. Box 759	Jal, NM 88252	
Gold Star Service Co, Inc.	P.O. Box 1480	Eunice NM 88231	
Gregg H Fulfer, et al	P.O. Box 863	Jal, NM 88252	
Gregorio Herrera	P.O. Box 882	Jal, NM 88252	
Gregory H. Fulfer	P.O. Box 578	Jal, NM 88252	
Gregory Lloyd Gray	901 Mechem Drive	Ruidoso, NM 88345	
GTE Southwest Inc.	c/o Property Tax Dept.	P.O. Box 152206	Irving, TX 75015
Guadalupe Fuentes	P.O. Box 700	Jal, NM 88252	
Guadalupe Ramos	P.O. Box 836	Jal, NM 88252	
Guan D. Miller	P.O. Box 536	Jal, NM 88252	

South Langlie Jail Unit Labels

Gumercindo Ortega	P. O. Box 850	Jal, NIM 88252	
Hardin-Simmons University Hardin-Simmons Station	Drawer B	Abilene, TX 79601	
Harold G. Holmans	P. O. Box 1016	Jal, NIM 88252	
Harold L. Higgins	P. O. Box 957	Jal, NIM 88252	
Harold Norman & Connie Mathis Bouton, Jr.	803 Peterson St.	Royse City, TX 75189	
Harvey L. Webb	P. O. Box 475	Jal, NIM 88252	
Harvey Tavaréz	P. O. Box 41	Jal, NIM 88252	
Helen Jo Washburn	512 N 4th St	Belen, NM 87002	
Henry H. Fulter	P. O. Box 863	Jal, NIM 88252	
Henry H. Harrison, Jr. & Ronald M. Harrison	1120 Wilma	Tyler, TX 75701	
Henry Pearson Norton II	1201 NW 15th	Andrews, TX 79714	
Herbert B. Young	P. O. Drawer 413	Lovington, NM 88260	
Hernaldo Beltran	P. O. Box 14	Balmorhea, TX 79718	
Hernandez, Felix	P. O. Box 729	Jal, NIM 88252	
Homero Valeriano	P. O. Box 29	Jal, NIM 88252	
Horace B. Owens Heirs	c/o Betty Owens Dolph	1605 Melrose Circle	Garland, TX 75042
Hortencia Tavaréz & Juan Luis Ramirez	P. O. Box 1165	Jal, NIM 88252	
Huberto Rodriguez	P. O. Box 794	Jal, NIM 88252	
Hugh C. Albertson	c/o Melzora Huddleston	P. O. Box 433	Jal, NIM 88252
Hugh Hardaway	Box 1981	Jal, NIM 88252	
Humberto Juarez	P. O. Box 780	Jal, NIM 88252	
Humberto R. Muzquiz	P. O. Box 411	Jal, NIM 88252	
Humberto Rodriguez	P. O. Box 794	Jal, NIM 88252	
Ida E. Fry, et. al.	P. O. Box 1088	Jal, NIM 88252	
IMC Mortgage Company	4501 Erskine Dr., Suite 50	Cincinnati, OH 45242	
IOOF Lodge # 44	310 N. Love	Lovington, NM 88260	
Ibby Abernathy	1427 Crabb	Carlsbad, NM 88220	
Irene McGarvey	c/o Gregg Fulter	P. O. Box 578	Jal, NIM 88252
Irene Wilson Smith	St Rt 1, Box 114	Jal, NIM 88252	
Isabel Valles	P. O. Box 363	Jal, NIM 88252	
Isidro Navarrete	P. O. Box 628	Jal, NIM 88252	
Ismael M. Lujan	P. O. Box 268	Jal, NIM 88252	
Ismael O. Ramirez	P. O. Box 248	Jal, NIM 88252	
Israel U. Rairez	1221 Hancock	Odessa, TX 79761	
Iva Lee Calley Riggs	P. O. Box 3896	West Sedonia, AZ 86340	
J. B. & Hazel Green	ST Rt 1, Box 96	Jal, NIM 88252	
J. C. Bean	P. O. Box 514	Jal, NIM 88252	
J. Cozette Mitchell	P. O. Box 880	Jal, NIM 88252	
J. T. Crawford	P. O. Drawer T	Anderson, MO 64831	
J. T. Crawford Trust et al	Drawer T	Jal, NIM 88252	

South Langlie Jail Unit Labels

J. Yvonne Brown & Bonita L. Kidd	P.O. Box 662	Jal, NM 88252	
Jack D. Hedgpeth	P.O. Box 1045	Jal, NM 88252	
Jacqueline Marie Thames et al	P.O. BOX 48	Jal, NM 88252	
Jacques M. Moore	Drawer A A	Jal, NM 88252	
Jaime R. Lujan & Aracely L. Lujan	P.O. Box 78	Jal, NM 88252	
Jal Country Club	P.O. Box 1283	Jal, NM 88252	
Jal Fishing Tools	P.O. Box 1079	Kermit, TX 79745	
Jal Hospital District	P.O. Box Drawer Z	Jal, NM 88252	
Jal Public Library Trust	P.O. Box 178	Jal, NM 88252	
Jal Public Schools	P.O. Box 1386	Jal, NM 88252	
Jal Welding & Machine Works, Inc	P.O. Box 970	Jal, NM 88252	
James Allen & Lucille Bryant	8204 Indigo Court Ne	Albuquerque, NM 87122	
James Alvin Davis	P.O. Box 1379	Hobbs, NM 88241	
James Burruss	P.O. Box 691	Jal, NM 88252	
James D. Minnick	P.O. Box 910	Jal, NM 88252	
James E. Berni	c/o David Ellis	P.O. Box 222	Bloomfield, NM 87413
James Gary Book	P.O. Box 936	Jal, NM 88252	
James H. Kennedy	P.O. Box 554	Jal, NM 88252	
James H. Locklar	P.O. Box 598	Jal, NM 88252	
James I. and Tammy L. Pirtle	P.O. Box 39	Jal, NM 88252	
James L. Callaway	P.O. Box 38	Orla, TX 79770	
James L. Tucker	P.O. Box 143	Jal, NM 88252	
James Lee Townsend & Dama Morris	404 Debbie Lane	Alvin, TX 77511	
James M. Gilmore	P.O. Box 215	Jal, NM 88252	
James R. Gilliam	P.O. Box 715	Jal, NM 88252	
James R. Schooley	P.O. Box 1005	Jal, NM 88252	
James Richard Snider	P.O. Box 234	Jal, NM 88252	
James S. McHahan	P.O. Box	Jal, NM 88252	
Jauan Carlos Tavaréz	c/o Carloto Tavaréz	P.O. Box 41	Jal, NM 88252
Javier G. Rodriguez	Box 1132	Jal, NM 88252	
Javier Tavaréz	P.O. Box 41	Jal, NM 88252	
Jerald W. Jones	P.O. Box 153	Jal, NM 88252	
Jerlean McKenney	308 N. Pine Street	Ponca City, OK 74601	
Jerold W., Rebecca Joan & Daniel J. Doom	HCR 68 Box 188	Jal, NM 88252	
Jerry L. McNeese	P.O. Box 148	Jal, NM 88252	
Jerry R. Galle	Drawer RR	Jal, NM 88252	
Jerry T. Nave & Suzanne Bryan	P.O. Box 821	Perryton, TX 79070	
Jesse D. Grice	Jesse D. Grice c/o Ocie W. Grice	P.O. Box 876	Jal, NM 88252
Jesse F. O'Rear	Box 156	Jal, NM 88252	
Jesus Cervantes	1036 SW 58th	Oklahoma City, OK 73109	

South Langlie Jail Unit Labels

Jesus G. Contreras & Dora O Gutierrez	P.O. Box 562	Jal, NM 88252	
Jesus Guzman	P.O. Box 30	Jal, NM 88252	
Jim White	P.O. Box 14	Jal, NM 88252	
Jimmie D. Terrell	P.O. Box 888	Jal, NM 88252	
Jimmy Heath	P.O. Box 455	Jal, NM 88252	
Jimmy Hill	919 East Winkler	Kermit, TX 79745	
Jimmy Joe Doom	Star Route	Jal, NM 88252	
Jimmy Lewallen	Drawer DD	Jal, NM 88252	
Jimmy R. Hill	1002 Jicarilla	Hobbs, NM 88240	
Jimmy Samaniego, Jr.	P.O. Box 808	Jal, NM 88252	
Jimmy Walter Hill	P.O. Box 776	Jal, NM 88252	
Joandra Navarette	P.O. Box 77	Jal, NM 88252	
Joquin H. Baeza	P.O. Box 38	Jal, NM 88252	
Joe Abeyta	P.O. Box 109	Jal, NM 88252	
Joe C. Chance	P.O. Box 1221	Kermit, TX 79745	
Joe M. Navarro	P.O. Box 502	Jal, NM 88252	
Joe Tuten	P.O. Box 645	Jal, NM 88252	
John A. Savoie	P.O. Box 205	Jal, NM 88252	
John B. Shreffler	P.O. Box 135	Jal, NM 88252	
John C. Merryman Trust	c/o Roland Donnell Castleberry	P.O. Box 908	Jal, NM 88252
John C. Spurling	13730 Norland	San Antonio, TX 78232	
John Cantu	P.O. Box 695	Jal, NM 88252	
John D. Allen	Lazy Acres TR CRT #1 DBA	P.O. Box 459	Jal, NM 88252
John Mark Lee & Dixie L. Lee	5008 Dearborne	El Paso, TX 79924	
John N. Moody	P.O. Box 643	Jal, NM 88252	
John R. Hurta & Norma Engman	619 West Cochiti	Hobbs, NM 88240	
John R. Ledingham	P.O. Box 251	Jal, NM 88252	
John Savoie	P.O. Box 735	Jal, NM 88252	
John T. Storm	P.O. Box 308	Jal, NM 88252	
John Tawney	P.O. Box 54	Goldsmith, TX 79741	
John W. Collins	c/o John L. Collins	3231 Zion Lane	El Paso, TX 79904
John W. Youngblood	P.O. Box 969	Jal, NM 88252	
Johnco Equipment Company Inc	P.O. Box 2446	Hobbs, NM 88240	
Johnny Lee Warren	P.O. Box 953	Jal, NM 88252	
Johnny Mack Owen	P.O. Box 1103	Jal, NM 88252	
Johnny W. Chapman	P.O. Box 875	Jal, NM 88252	
Jones Family Trust	c/o Meurig M. Jones, Trustee	406 Spring Pines	Spring, TX 77386
Joni S. Alexander	109 Panther	Jal, NM 88252	
Jose Lopez, Jr.	P.O. Box 68	Jal, NM 88252	
Jose M. Lopez, Sr.	P.O. Box 616	Jal, NM 88252	

South Langlie Jail Unit Labels

Jose Navarrette	P.O. Box 284	Precidio, TX 79845	
Jose Ortalejo	P.O. Box 669	Jal, NIM 88252	
Jose R. Hernandez	P.O. Box 262	Jal, NIM 88252	
Jose Ramirez	P.O. Box 663	Jal, NIM 88252	
Jose Ruiz, Sr.	P.O. Box 396	Jal, NIM 88252	
Jose Valeriano	P.O. Box 867	Jal, NIM 88252	
Joseph Lowell McManes	P.O. Box 1014	Jal, NIM 88252	
Joy W. Brown	P.O. Box 152	Clyde, TX 79510	
Joyce Carol Mosley	HC 67 Box 120	Nogal, NM 88341	
Joyce Jean Kimble	Drawer 490	Jal, NIM 88252	
Juan Gaytan	P.O. Box 130	Jal, NIM 88252	
Juan Irigoyen	P.O. Box 582	Jal, NIM 88252	
Juan J. Villegas	P.O. Box 16091	Las Cruces, NM 88004	
Juan M. Lujan	c/o Ismail M. Lujan	P.O. Box 268	Jal, NIM 88252
Juan R. Tarin & Arnoldo A. Tarin	P.O. Box 314	Jal, NIM 88252	
Juan Soto	P.O. Box 815	Jal, NIM 88252	
Juanita Newberry	P.O. Box 961	Jal, NIM 88252	
Judy Maxine Bailey	c/o Michael S. Locklar	P.O. Box 352	Jal, NIM 88252
Julian V. Rodriguez	P.O. Box 7	Jal, NIM 88252	
Kathrynne A. Whitworth	P.O. Box 1227	Jal, NIM 88252	
Keith Alan Walter	P.O. Box 164	Jal, NIM 88252	
Key Energy Services- Permian	P.O. Box 10190	Midland, TX 79702	
Kirkwood & Darby	300 E. Belknap, Suite 400	Fort Worth, TX 76111	
L. C. Myers & Delma L. Bostic	P.O. Box 1124	Jal, NIM 88252	
L. C. Myers & Delma L. Bostic	P.O. Box 563	Jal, NIM 88252	
La Vodis A. May	P.O. Box 1272	Jal, NIM 88252	
Lanexco, Inc	P.O. Box 2730	Midland, TX	
Lanina H. Shiplet et al	P.O. Box 247	Jal, NIM 88252	
Larry Hammons	P.O. Box 79	Jal, NIM 88252	
Larry Steve Bowen	P.O. Box 1055	Jal, NIM 88252	
Larry Wayne Hill	HCR 1 Box 81	Jal, NIM 88252	
Lavodis A. May	P.O. Box 137	Jal, NIM 88252	
Lawrence D. Hardin	P.O. Box 401	Jal, NIM 88252	
Lea Partners Kirkwood & Darby	3000 E Belknap, Ste. 400	Fort Worth, TX 76111	
Leatha Z. Guilliams	P.O. Box 573	Jal, NIM 88252	
Leavell Insurance & Real Estate	P.O. Drawer D	Jal, NIM 88252	
Lena Marchiondo	20829 E Parliament Ct	Parker, CO 80138	
Lera Jo Kingston	P.O. Box 1547	Mason, TX 76856	
Leroy W. Ragain	P.O. Box 25	Jal, NIM 88252	
Leslie Wayne Bond	525 S. Avenue "C"	Kermit, TX 79745	

South Langlie Jal Unit Labels

Lewis B. & Steven L. Burselson	P.O. Box 2479	Midland, TX 79702	
Lillian Irene Lanehart et al	c/o Bruce Lanehart	3594 Hadden Hall Road	Atlanta GA 30327
Lillie P. Burress	P.O. Box 513	Jal, NM 88252	
Linda L. Conway	P.O. Box 746	Jal, NM 88252	
Linden R. Immel	P.O. Box 879	Jal, NM 88252	
Lloyd A. Moore	P.O. Box 647	Jal, NM 88252	
Lloyd D. Pruett	P.O. Box 826	Jal, NM 88252	
Lois Miller	DBA Tradewind Electronics	1703 Johnson St.	Carlsbad, NM 88220
Lonnie D. Allsup	P.O. Box 1907	Clovis, NM 88101	
Loree Crawford	RR 3, Box 3592	Anderson, MO 64831	
Lorenza O. Salinas & Robert O. Salinas	P.O. Box 139	Jal, NM 88252	
Lorenzo Cervantes & Sandra Cervantes	P.O. Box 415	Jal, NM 88252	
Louise Webb	P.O. Box 475	Jal, NM 88252	
Lowell C. Lewis	P.O. Box 849	Jal, NM 88252	
Lucille Webb & Maridean Stautcenberger	P.O. Box 97	Jal, NM 88252	
Luis D. & Teresa H. Herrera	P.O. Box 687	Jal, NM 88252	
Luis Madrid	P.O. Box 94	Jal, NM 88252	
Luis Zavala	P.O. Box 968	Jal, NM 88252	
Lydia Soto Nieto	c/o Fernando Camunez	P.O. Box 657	Jal, NM 88252
Manix Energy, LLC	P.O. Box 2818	Midland, TX 79702	
Manuel B. Lujan	P.O. Box 268	Jal, NM 88252	
Manuel H. Baeza	P.O. Box 806	Jal, NM 88252	
Manuel Herrera, Jr.	406 S. Mesquite	Carlsbad, NM 88220	
Marc Farris	P.O. Box E E	Jal, NM 88252	
Marciano Morales	P.O. Box 299	Jal, NM 88252	
Marcos Alonso	P.O. Box 1406	Jal, NM 88252	
Marcos Alonso De La Cruz	P.O. Box 1406	Eunice, NM 88231	
Marcos R. Gallegos	P.O. Box 562	Jal, NM 88252	
Mario Camunez	P.O. Box 89	Jal, NM 88252	
Martin Porras & Celia Porras	P.O. Box 233	Jal, NM 88252	
Mary Ann Moore	P.O. Box 1302	Jal, NM 88252	
Mary C. Elkins	P.O. Box 356	Jal, NM 88252	
Mary F. Valeriano	P.O. Box 867	Jal, NM 88252	
Mary Joleen Annette Pomar	Ronald C. Willard DBA	DRAWER 0	Hobbs, NM 88240
Maryetta L. Harvey et al	P.O. Box 225	Jal, NM 88252	
Mavit Lea Goedeke	HC 30, Box 25	Brownwood, TX 88252	
Mc Mahan, J S	P.O. BOX 216	Jal, NM 88252	
McCord Enterprises	P.O. Box 38446	Germantown, TN 38138	
Melvin G. Harper	P.O. Box P	Jal, NM 88252	
Merced Juarez	P.O. Box 273	Jal, NM 88252	

South Langlie Jail Unit Labels

Merced Sanchez	P.O. Box 655	Jal, NM 88252	
Merle M. Shaffer	P.O. Box 661	Jal, NM 88252	
Merryman Construction	Drawer D	Jal, NM 88252	
Merryman Construction Company	P.O. Drawer U	Jal, NM 88252	
Michael A. Huntington	P.O. Box 1051	Jal, NM 88252	
Michael D. Hughes	P.O. Box 486	Jal, NM 88252	
Michael N. May	P.O. Box 1272	Jal, NM 88252	
Michael W. Chance	P.O. Box 658	Jal, NM 88252	
Mike Emerson	P.O. Box 75	Jal, NM 88252	
Mike T. Ramos	P.O. Box 280	Jal, NM 88252	
Millard Armstrong	P.O. Box 391	Jal, NM 88252	
Monico J. Maes	P.O. Box 269	Jal, NM 88252	
Mrs. H. R. Womack	c/o D. M. Beene	2515 Lemonwood Lane	Houston, TX 77038
Murray Ward Ballard	P.O. Box 63	Jal, NM 88252	
Myrtis I. Heaton	P.O. Box 184	Jal, NM 88252	
Nadine Owen	c/o Delrose Scott et al	2000 N Fowler	Hobbs, NM 88240
Nell R. Addison et al	P.O. Box 1282	Jal, NM 88252	
Nellie Jean Winkley & Roy Winkley	P.O. Box 1321	Jal, NM 88252	
Nettie Fay Williams et al	P.O. Box 681	Jal, NM 88252	
Noemi Lujan	P.O. Box 1095	Jal, NM 88252	
Nona Joyce Mauldin, et. al.	c/o Rufus Wilks	2305 West Lakeview Drive	Hobbs, NM 88240
Nora Mary Martinez Rivera	c/o Christine E. Liges	P.O. Box 130	Jal, NM 88252
Norma Fae Moore	P.O. Box 484	Jal, NM 88252	
Norma Miller	P.O. Box 1247	Jal, NM 88252	
Norman Robert Cline	803 Hillcrest	Jal, NM 88252	
Norwood Family Trust	% Bobby G. Norwood	Jal, NM 88252	
Olen C. O'Neil	P.O. Box 88	Jal, NM 88252	
Olga Saucedo	P.O. Box 136	Jal, NM 88252	
Ollie Mae Jayroe	P.O. Box 134	Jal, NM 88252	
Opal Armstrong	P.O. Box 1167	Jal, NM 88252	
Oran O. Whitten	c/o Gregg Fulfer	P.O. Box 578	Jal, NM 88252
Oscar Gonzales	5401 Abitia	Carlsbad, NM 88220	
Oscar Rodriguez	P.O. Box 792	Jal, NM 88252	
Otho G. Clary, Jr.	P.O. Box 1884	Hobbs, NM 88241	
Otho Glider Clary, et al	P.O. Box 34	Jal, NM 88252	
P. H. Neville	c/o Gregg Fulfer	P.O. Box 578	Jal, NM 88252
Pablo Navarrete	P.O. Box 915	Jal, NM 88252	
Parnell Bean	P.O. Box 514	Jal, NM 88252	
Patricia F. Hewett Huntington	c/o Devra L. Post	P.O. Box 734	Jal, NM 88252
Patricia N. Sinclair	P.O. Box 245	Jal, NM 88252	

South Langlie Jail Unit Labels

Paul E. Diffee	P.O. Box 1084	Jal, NM 88252	
Pauline Duckworth	P.O. Box 3633	San Angelo, TX 76901	
Pearson Oil Company, Inc	717 W Sanger	Hobbs, NM 88240	
Pedro Martinez	P.O. Box J J	Jal, NM 88252	
Pedro N. Ruiz	P.O. Box 869	Jal, NM 88252	
Peggy Joan Davis, et al	c/o Ethel Taylor	P.O. Box 381	Jal, NM 88252
Peter A. Panagopoulos & P. V. Panagopoulos	1805 Sandy Lane	Carlsbad, NM 88220	
Phyllis A. Jones	P.O. Box 1083	Jal, NM 88252	
Phyllis White	P.O. Box 294	Jal, NM 88252	
Pilar Ramirez	P.O. Box 323	Jal, NM 88252	
Poli Acostal	c/o Gilberto Ortega	P.O. Box 400	Jal, NM 88252
Porter E. Powell	P.O. Box 1352	Jal, NM 88252	
Pradipkumar Bhakta	P.O. Box 1344	Jal, NM 88252	
Primal Energy Corp.	211 Highland Cross Suite 227	Houston, TX 77073	
QL Oil & Drilling Co	P.O. Drawer J	Jal, NM 88252	
R. A. Walls	36 Howard Drive	Artesia, NM 88210	
R. C. Kiker	P.O. Box 963	Jal, NM 88252	
R. L. Shipman	P.O. Box 27	Jal, NM 88252	
Rafael Marquez	P.O. Box 1105	Jal, NM 88252	
Ralph A. Koenig	62751 S 630 Rd	Fairland, OK 74343	
Ramiro Gonzalez	P.O. Box 40	Jal, NM 88252	
Ramon C. Lopez & Yolanda F. Lopez	P.O. Box 1196	Jal, NM 88252	
Ramon D. Marquez	P.O. Box 503	Jal, NM 88252	
Ramon Prieto	P.O. Box 858	Jal, NM 88252	
Randall Healy	P.O. Box 727	Jal, NM 88252	
Randy W. Ward	P.O. Box 608	Jal, NM 88252	
Randy Ward	P.O. Box 995	Jal, NM 88252	
Rapid Transport, Inc.	P.O. Box 1221	Kermit, TX 79745	
Raul C. Trevino	P.O. Box 571	Jal, NM 88252	
Raul Jessie O. Ramirez	HCR 68 Box 95	Jal, NM 88252	
Raul L. Mendoza	2770 Marilee Ct.	Hemet, CA 92343	
Raul Rojas	P.O. Box 664	Jal, NM 88252	
Ray Dorsey	Drawer YY	Jal, NM 88252	
Raymon E. Harlas	P.O. Box 671	Ruidoso, NM 88345	
Raymond Cantu, Jr.	P.O. Box 555	Jal, NM 88252	
Raymond Jones et al	P.O. Box 648	Jal, NM 88252	
Raymundo Fabela	P.O. Box 64	Jal, NM 88252	
Rebecca J. Doom	Star Rt.	Jal, NM 88252	
Rebecca Joan, Jerold and Daniel Doom	HCR 68 BOX 188	Jal, NM 88252	
Reecie M. Cole	P.O. Box 1194	Jal, NM 88252	

South Langlie Jail Unit Labels

Rena L. Briones	c/o Linda Hallman	P.O. Box 366	Jal, NM 88252	Jal, NM 88252
Reymundo Favela	P.O. Box 64	Jal, NM 88252		
Richard F. Smith	P.O. Box 701	Jal, NM 88252		
Richard Hill	P.O. Box 572	Jal, NM 88252		
Richard K. Townsend	Star Rte Box 83	Glen Rose, TX 76043		
Richard L. Kerby	P.O. Box	Jal, NM 88252		
Richard McClain	P.O. Box 1090	Jal, NM 88252		
Richard S. Pittam	P.O. Box 252	Jal, NM 88252		
Richard W. Posey	P.O. Box 796	Jal, NM 88252		
Richie D. Cooper	P.O. Box 884	Jal, NM 88252		
Rick C. Valles	P.O. Box 1201	Jal, NM 88252		
Ricky A Smith et al	P.O. Box 174	Jal, NM 88252		
Rita S. Watson	P.O. Box 805	Jal, NM 88252		
Robert A. Wilson	2100 Market St.,	Midland, TX 79703		
Robert D. Carr	c/o Doris L. Speed	P.O. Box 212	Jal, NM 88252	Jal, NM 88252
Robert E. Baty, Trust	P.O. Box 272	Jal, NM 88252		
Robert E. Campbell	614 South 6TH	Carlsbad, NM 88220		
Robert E. Chance	c/o Michael W. Chance	P.O. Box 658	Jal, NM 88252	Jal, NM 88252
Robert E. Justis	7221 Meadowlark Pl	Ranch Cucamonga, CA 91701		
Robert J. Fowler	P.O. Box 386	Jal, NM 88252		
Robert M. Sappington	P.O. Box 1109	Jal, NM 88252		
Robert O. Dimmick	609 Bulette Dr.	Carson City, NV 89703		
Robert T. Ayres, Jr.	1366 Allenford Avenue	Los Angeles, CA 90049		
Roberta L. Barnes	P.O. Box 535	Jal, NM 88252		
Roberto O. & Lorenza O. Salinas	P.O. Box 139	Jal, NM 88252		
Robin Tracy Antley	P.O. Box 394	Jal, NM 88252		
Rodrigo Navarrete	P.O. Box 12	Jal, NM 88252		
Rodrigo Navarrete, Jr.	P.O. Box 79	Jal, NM 88252		
Roger C. Huff	1144 Hwy 261	Boonville, IN 47601		
Roger Lower	c/o West Texas Appraisal Associates	P.O. Box 7275		Abilene, TX 79608
Ronald C. Willard	P.O. Drawer O	Jal, NM 88252		
Ronald E. Brittain	P.O. Box 827	Jal, NM 88252		
Ronald E. Haynes	P.O. Box 417	Jal, NM 88252		
Ronald M. Harrison	1120 WILMA	Tyler, TX 757010		
Ronald Snow	P.O. Box 285	Jal, NM 88252		
Ronnie C. Walls	P.O. Box 1032	Jal, NM 88252		
Ronnie G. Killgore	42 Comanche Road	Carlsbad, NM 88220		
Rosemary Davis	P.O. Box 197	Jal, NM 88252		
Roy S. Peugh Jr	P.O. Box 1264	Jal, NM 88252		
Roy S. Peugh, Jr.	c/o Roy S. Peugh, III	P.O. Box 784		Jal, NM 88252

South Langlie Jal Unit Labels

Ruben Lujan	P.O. Box 444	Jal, NM 88252	
Ruben Ramos	P.O. Box 756	Jal, NM 88252	
Ruel Gatewood	P.O. Box 69	Jal, NM 88252	
Runco Inc	8100 W Alabma	Hobbs, 88240	
Russ Watson	c/o Rita S. Watson	Jal, NM 88252	
Russell D. Martin	P.O. Box 597	Jal, NM 88252	
Russell J. Whited	300 S Kentucky	Roswell, NM 88201	
Ruth Ely Trust	P.O. Box 981	Jal, NM 88252	
Ruth R. Ely	P.O. Box 981	Jal, NM 88252	
S. A. Searcy	P.O. Box 1057	Jal, NM 88252	
S. E. Shreffler	P.O. Box 263	Jal, NM 88252	
S. L. Hewett	P.O. Box 373	Jal, NM 88252	
S.D. Snider	P.O. Box 517	Jal, NM 88252	
Salamon D. Tavarez	P.O. Box 41	Jal, NM 88252	
Salamon S. Ramos	P.O. Box 565	Jal, NM 88252	
Sally E. Grando	P.O. Box 108	Jal, NM 88252	
Sam R. Beckham	c/o Beckham Ranch	P.O. Box 1203	Jal, NM 88252
Sammuel Carrasco	P.O. Box 785	Jal, NM 88252	
Sammuel D. Snider	P.O. Box 517	Jal, NM 88252	
Sammuel Richard Cooper	Rt. 1 Box 141B	Blossom, TX 75416	
Santa Frano	P.O. Box 464	Jal, NM 88252	
Saul A. Monroy	P.O. BOX 479	Jal, NM 88252	
Scott Locklar	P.O. Box 352	Jal, NM 88252	
Sergio & Debra K. Garcia	P.O. Box 1077	Jal, NM 88252	
Sergio O. Tavarez	P.O. Box 414	Jal, NM 88252	
Sherman Tipton	P.O. Box 921	Jal, NM 88252	
Shirley A. Jones	2890 C ½ Rd	Grand Junction, CO 81501	
Silvio & Mary Ellena Cervantes	P.O. Box 464	Jal, NM 88252	
Silvio Cervantes	P.O. Box 464	Jal, NM 88252	
Southwestern Public Service Co.	P.O. Box 1261	Amarillo, TX 79170	
Soutwest Texas Fuels Inc.	2030 Andrews Hwy.	Odessa, TX 79761	
Stanley D. Reeves	P.O. Box 646	Jal, NM 88252	
Steve D. Mantooth	P.O. Box 144	Jal, NM 88252	
Susan Elizabeth Lancaster Lake	3701 108th Street	Lubbock, TX 79423	
Susie M. Tankersley	P.O. Box 158	Jal, NM 88252	
Tany Cordes & Carolyn J. Hamilton	P.O. Box 91	Jal, NM 88252	
Terry Gayle Terrell et al	3409 NE Chelwood Park Blvd	Albuquerque, NM 87111	
Texas New Mexico Railroad, Deloitte & Toucheh. LLP	400 W. 15th Street #1700	Austin, TX 78701	
Thelma M. Cooper	P.O. Box 72	Jal, NM 88252	
Theo Essman	Drawer V	Jal, NM 88252	

South Langlie Jail Unit Labels

Theodore Johnson, et al	Box 1948	Hobbs, NM 88240	
Theofilo Romero	Box 785	Jal, NM 88252	
Thomas E. Deck	P.O. Box 359	Jal, NM 88252	
Thomas G. Clinton	9412 Bedford Drive	Odessa, TX 79764	
Thomas McBee	P.O. Box 1122	Jal, NM 88252	
Thomas W. Seyler, Sr.	P.O. Box 595	Jal, NM 88252	
Timoteo Perez	P.O. Box 585	Jal, NM 88252	
Tito P. Hernandez	P.O. Box 207	Jal, NM 88252	
Tom Love & Ernestine M. Love	1305 Blvd Waay #130	Walnut Creek, CA 94595	
Town & Country Food Stores Inc.	P.O. Box 5581	San Angelo, TX 76902	
Travis G. Lenard	P.O. Box 1117	Jal, NM 88252	
Truman Hamlett	P.O. Box 985	Jal, NM 88252	
Turnco Inc.	P.O. Box 1240	Graham, TX 76046	
Una Dell Watson	P.O. Box 442	Jal, NM 88252	
Vann M. Kidd, Jr.	P.O. Box 662	Jal, NM 88252	
Veda Mae Gaskin	Bogie Lane A-1 Box 13	Ruidoso, NM 88345	
Veila D. Cordova	P.O. Box 128	Jal, NM 88252	
Veila Velasquez	P.O. Box 674	Jal, NM 88252	
Vernon D. Rheay	P.O. Box 297	Jal, NM 88252	
Vernon Huntington, Trust	P.O. Box 504	Jal, NM 88252	
Vicki R. Pearce	P.O. Box 196	Jal, NM 88252	
Victor G. Rodriguez	P.O. Box 890	Jal, NM 88252	
Victor V. Brothers	P.O. Box 509	Jal, NM 88252	
Vincent Savala	P.O. Box 739	Jal, NM 88252	
Virginia Baeza Carillo	2080 Austin Drive	Las Cruces, NM 88001	
Virginia M. Bassett	1306 North Eva	San Antonio, TX 78232	
Vivian M. Franco	P.O. Box 844	Jal, NM 88252	
W. E. Ferguson and Lola Marie Morrow	P.O. Box 304	Jal, NM 88252	
W. Fred Sappington	P.O. Box 1119	Jal, NM 88252	
W. H. Brininstool	P.O. Drawer A	Jal, NM 88252	
W. H. Taylor, Jr.	403 South Mesa	Carlsbad, NM 88220	
W. K. Cooper	P.O. Box 1078	Jal, NM 88252	
W. L. Dungan	P.O. Box 909	Jal, NM 88252	
W. M. Kemp	P.O. Box 1026	Jal, NM 88252	
W. P. Jackson	P.O. Box 1079	Kermit, TX 79745	
W. R. & Eva Stuart Est	100 Lake Shore	May, TX 76857	
W. V. Huntington	P.O. Box 504	Jal, NM 88252	
Wanliss E. Armstrong, Trust	P.O. Box 1267	Jal, NM 88252	
Wayne W. Webster	P.O. Box 1063	Jal, NM 88252	
Wells Fargo Bank	Corporate Properties	P.O. Box 63931	San Francisco, CA 94163

South Langlie Jail Unit Labels

Wes & Roni Karen Perry	P.O. Box 371	Midland, TX 79702	
West Star Mortgage Corp.	c/o James Robert Gilmore	P.O. Box 215	Jal, NM 88252
Western Heights Inc	101 Woods Lane	Cedar Park, TX 78613	
Western Hts. Inc.	c/o David L. Hammons	P.O. Box 79	Jal, NM 88252
Wilburn D. Pirtle, Sr.	P.O. Box 1002	Jal, NM 88252	
Wilburn Donald Pirtle, Jr.	321 South Cedar St.	Kermit, TX 79745	
William W. & Lucille Webb	P.O. Box 97	Jal, NM 88252	
William C. Webster	P.O. Box 702	Jal, NM 88252	
William Dale Ragain	P.O. Box 43	Jal, NM 88252	
William E. Elliott	P.O. Box 264	Jal, NM 88252	
William F. Mosley, Jr.	P.O. Box 1351	Jal, NM 88252	
William H. Harris	P.O. Box 124	Jal, NM 88252	
William R. & Donnie W. Green	P.O. Box 1103	Jal, NM 88252	
William W. Webb	P.O. Box 92	Jal, NM 88252	
Willard Redden	P.O. Box 108	Jal, NM 88252	
Woolworth, C D Trust	c/o Jal Pupblic Library Fund	P.O. Box 178	Jal, NM 88252
Youths Activity	P.O. Box 340	Jal, NM 88252	
Yvonne Frymire	P.O. Box 193	Jal, NM 88252	
Zia Natural Gas Company	P.O. Box 541	Worland, WY 82401	

Clay Osborn
P. O. Box 1285
Jal, New Mexico 88252

October 4, 2001

RECEIVED

OCT 09 2001

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Lori Wrotenbery
New Mexico Oil Conservation Division
1220 South St. Francis Dr.
P. O. Box 6429
Santa Fe, New Mexico 87505

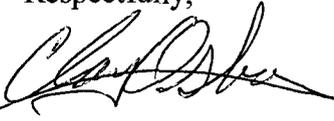
RE: South Langlie Jal Unit

Dear Ms. Wrotenbery:

Enclosed please find the comments in response to the Chaparral Energy, Inc. stage one abatement plan presented for the South Langlie Jal Unit. Each response refers to specific comments as presented by Chaparral Energy, Inc.

Again, thank you for the opportunity to comment on this proposal. I look forward to your comments and response. Should you need further input or have questions, please do not hesitate to contact me at 505.395.2510 or 505.631.1900.

Respectfully,



Clay Osborn

Cc: Bill Olson
New Mexico Oil Conservation Division
P.O. Box 6429
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

October 4, 2001

From:

Mr. Clay Osborn
Rocky Top Ranch
P.O. Box
Jal, New Mexico

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OCT 09 2001

To:

Director
Oil Conservation Division
1220 St. Francis Dr.
Santa Fe, New Mexico 87505

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Subject: Comments on the Chaparral Energy, Inc. "Amended South Langlie Jal Unit (SLJU) Stage I Abatement Plan," August 23, 2001

To the Director of the Oil Conservation Division;

Thank you for the opportunity to comment on the above referenced Abatement Plan submitted to the New Mexico Energy Minerals and Natural Resources Department, Oil Conservation Division by Chaparral Energy, Inc. Comments are sequential and are as follows;

EXECUTIVE SUMMARY:

"... the USGS has stated that the once potable ground water in this area started to become nonpotable as early as 1953."

COMMENT: The context of the USGS report is that intentional and accidental releases of crude oil, natural gas, and produce brine water from oil and gas operations have generally had a negative impact on the near surface ground waters in southern Lea County. Indeed, ground water in some areas of the Osborn property are not potable, however, non impacted ground water is present and protectable, i.e., The Pond Monitoring Well, Section 18 T25S R37E, July 2001, Chloride 239 mg/L and Total Dissolved Solids 1280 mg/L.

"Chloride contents of 610 ppm and higher has been found in several shallow water wells in the Jal, New Mexico area at this time.

COMMENT: Table 8, USGS Report #6, Nicholson and Clebsch, 1961, does record a 1953 chloride level of 610 mg/L in Section 15 three miles to the east but also shows chloride in a section 20 well within 1 mile of the Osborn property to be 168 mg/L in 1942. Section 19, adjacent to the section 18 on the south has a 1942 recorded chloride value of 54 mg/L.

"Since the injection of saltwater in the SLJU did not begin until early 1971, it is highly improbable that this unit was the cause of any of the groundwater contamination of Mr. Osborn's wells.

COMMENT: The fact the SLJU did not begin injection until 1971 is immaterial and does not support the conclusion that the SLJU is not the source of the current soil and ground water contamination on the Osborn property. Rather, the historical USGS data referenced previously establishes a relatively pristine ground water resource prior to the development of the areas' oil and gas resources on the Osborn property.

1.4 SITE HISTORY:

“(According to the USGS) Chloride contents of 610 ppm and higher was found in several water wells in the Jal, New Mexico area at that time.”

COMMENT: This statement is inaccurate. The 610 ppm chloride value is the highest value recorded for the eight wells listed in the report that exist in T25S R37E.

“Chloride pollution of the shallow aquifer appears to cover most of Lea County, New Mexico.”

COMMENT: This statement implies that all shallow ground water in Lea County has been degraded by chloride pollution, this is clearly not the case, however, point sources such as historic pits and unremediated leaks and spills are potential contaminant source terms.

1.5 SUMMARY OF PREVIOUS INVESTIGATIONS

“Sampling and testing showed some high chloride levels, but it also indicated the damage done was either from much earlier releases (prior to Bristol taking over operations of the unit), releases from off-site or the chlorides could be naturally occurring.”

COMMENT: The leaks and spills that have occurred within the unit on the Osborn property have contributed to the degradation of the aquifer. Migration of contaminants from a source up-gradient of the Osborn property needs to be determined. Evidence provided in the USGS report #6 Table 8 clearly shows that the background ground water chloride levels are <100 mg/L.

2.1 SITE GEOLOGY AND HYDROLOGY

Paragraph 2, 2nd & 3rd sentences - “Triassic rocks in the area have a regional dip of less than 1 degree to the southeast. There are reverse dips in the area generally around depressions. Groundwater flow tends to follow this regional dip within the area of the SLJU.”

COMMENT: The USGS Report #6 Plate 2. Ground-Water Map of Southern Lea County, New Mexico, is included in the Abatement Plan on page 22 and indicates that, on the Osborn property, the aquifer surface contour to be south southwest not to the southeast. This should be confirmed and will be important, as each point source is studied.

2.2 VERTICAL & HORIZONTAL EXTENT OF THE POLLUTION

Paragraph 2, 2nd sentence; “Water samples shall also be taken and analyzed for BTEX, TDS, Chlorides (Cl), Bromides (Br), Bicarbonates (HCO_3), Sulfate (SO_4), Magnesium (Mg), Potassium (K), and Sodium (Na) in an attempt to determine the presence of natural waters in the area as opposed to waters from oil and gas production operations.”

COMMENT: A definition of “natural waters” should be provided and consider especially the historical data provided in the USGS Report #6, 1961.

2.3 MAGNITUDE OF VADOSE-ZONE & GROUNDWATER CONTAMINATION

“Vadose-zone contamination has not been determined.”

COMMENT: Previous studies commissioned by Bristol and the Osborn’s have identified vadose-zone contamination above background levels.

2.6 INVENTORY OF WATER WELLS....

COMMENT: The first sentence should read “one-mile radius” instead of “one-mile perimeter.”

3.0 SURFACE-WATER HYDROLOGY

3rd sentence – “No lakes, ponds, creeks or streams were seen during the course of a recent physical investigation of the surface, only very shallow and broad areas that can conduct floodwater runoff were seen.”

COMMENT: A manmade pond is located in the western part of section 18 T25S R37E that receives run-off from the west and is used as a livestock watering. This pond may be dry during parts of the year depending on rainfall. The Osborn’s also have a pond on the east side of their home located on the east side of Section 18 and is maintained with local ground water.

3.4 IMPACT TO SURFACE WATER AND STREAM SEDIMENTS

“Any release of produced water onto the surface will have little to no impact upon surface waters and stream sediments.”

COMMENT: A study of the surface dip should be made to confirm the impact on the Osborn ponds. Likewise, the Jal Lake is located down gradient and also may ultimately receive run-off from the Osborn property and the surrounding area.

3.5.1 BIOLOGICAL ASSESSMENT OF FISH

“There are no known fish in this area.”

COMMENT: The Osborn’s have several mature Japanese Koi in the house pond. The pond in the southwest corner of section 18 does not have a permanent fish population.

3.5.3 BIOLOGICAL ASSESSMENTS OF BENTHIC MACROINVERTEBRATES

“There are no known benthic macroinvertebrates in this area.”

COMMENT: Benthic macroinvertebrates, i.e., insect larvae and small crustaceans are endemic to all surface water bodies where the water chemistry promotes survival. Surveys of the benthic macroinvertebrates can provide a rapid assessment of water quality.

The context of the abatement plan is too general and incorrectly assumes that the ground water resource underlying the Osborn property was initially of poor quality. The plan must first inventory the leak sites and focus on identifying and characterizing these specific locations to ensure against further ground water degradation. Similarly, the locations of the proposed “test holes to the base of the aquifer,” will provide valuable information toward characterizing the aquifer but will not provide information as to vertical and horizontal extents of contamination at specific leak or spill sites and, in particular, the chloride concentration gradients in the vadose zone and ground water. More “test holes” should be planned for each inventoried leak site. Finally, to rule out the possibility of well casing failure, the abatement plan should review and verify that the producing and injection wells on the Osborn property have passed all the NMOCD required casing integrity tests in the past.

Included below are Attachments I, II, III, and IV, i.e., Clay Osborn Ranch Journal, Leak Photographs, USGS map with known leak sites, and Bristol Resources file documentation, respectively.

Attachment I: Clay Osborn Ranch Journal

Clay Osborn Ranch Journal	
Date	Entry
January 11, 1997	Injection line leak west of the tank battery.
April 18, 1997	Leak west of tank battery ran east past TB then south on lease road. Estimate volume ~200 barrels of salt water.
April 19, 1997	Water still standing in road. Had to tell Bristol pumper to get truck to pick up water. Geo Willis; witness.
May 4, 1997	Bristol had 2 injection line leaks north of the house. Had been leaking several days.
May 5, 1997	Water standing in Bell hole. (Pictures)
April 16, 1998	Injection line leak next to Winters "C" lease, called OCD. No water recovered. Estimated spill volume @ 100 to 150 bbls out. All went into ground.
September 1, 1998	Injection line leak north of well #9. Leaked long time. Estimated volume of spill is ~200 to 500 bbls. Backhoe drove all over our pasture. No water recovered. All went into ground.
January 10, 1999	Injection line leak north of house. Had been leaking for a long time. Estimated 800-1000 bbls out. No water recovered. Was at site with roustabouts. Cow walked on wet ground. Went down to front shoulders. I called OCD.
January 11, 1999	Found another leak north of the house 9:30 PM. Ran ^{1/4 mile} , called OCD talked to Chris. 500-1000 bbls out. No water recovered.
January 18, 1999	Had to call OCD. Injection line leak @ well #4. Water was running out of line. Line clamp would not hold. They also had a leak inside yard @ pump station.
February 13, 1999	Found Injection line leaks south of pump station and west of pump station. Took pictures. Also found leak south of pump station south side of road. Another leak inside pump station yard. Water and oil ran west into pasture. Another leak west of production tank battery, north side of road. Also pumper for Bristol opened valves on bottom of tanks and ran water and oil west into pasture.
March 8, 1999	Bristol had injection leak inside pump station yard. Ran south into pasture.
March 26, 1999	Bristol had a large leak south of pump station 25-35 bbls estimated. Also found another leak inside pump station yard. (Video #2)
April 19, 1999	Injection line leak south of pump station. Used topsoil and grass to cover up with. Meet new lady pumper.
April 20, 1999	Found another leak inside yard & pump station. Shows lots of salt on surface. (Video #3)

Clay Osborn Ranch Journal	
Date	Entry
May 8, 1999	All wells in SLJU SI. Found leak @ pump station. & Well #4 vegetation west of well #9 dying.
May 27, 1999	Pipe in ground-oil running out south side of Tank Battery. (Video)
June 9, 1999	Bristol well #9 had leak ran into pasture. Johnson Construction cleaning up. (Video) Sink hole west of #9 spotted on injection line right-of-way (video)
June 16, 1999	Cornerstone on location. Digging core holes north of house.
July 3, 1999	Bristol pumper let tanks run over. Opened bleed valves on bottom of tank and ran salt water on pump station location 30-60 bbls ran out. (took video) Opening valves was a deliberate act.
July 11, 1999	SLJU SI for 8 days now.
July 17, 1999	Bristol water tanks back in service. P&M construction did not put gasket on manhole plate west tank. Salt water 30-40 bbls ran south across pump station location. Ground now has heavy salt build up.
July 20, 1999	Bristol starting digging old TB west of house.
July 20, 1999	Bristol drilling water well north of house.
August 10, 1999	Bristol had flowline leak @ well #25. Oil and water out.

Attachment II: Leak Photographs



BRISTOL RESOURCES
INJECTION LINE LEAK SOUTH OF WELL #9 5-4-97



5-5-99

BRISTOL RECOURCES CORP.



09/01/1998

Injection line keak

NORTH OF WELL #9

09/01/1998

BRISTOL RECOURCES CORP. SLJU

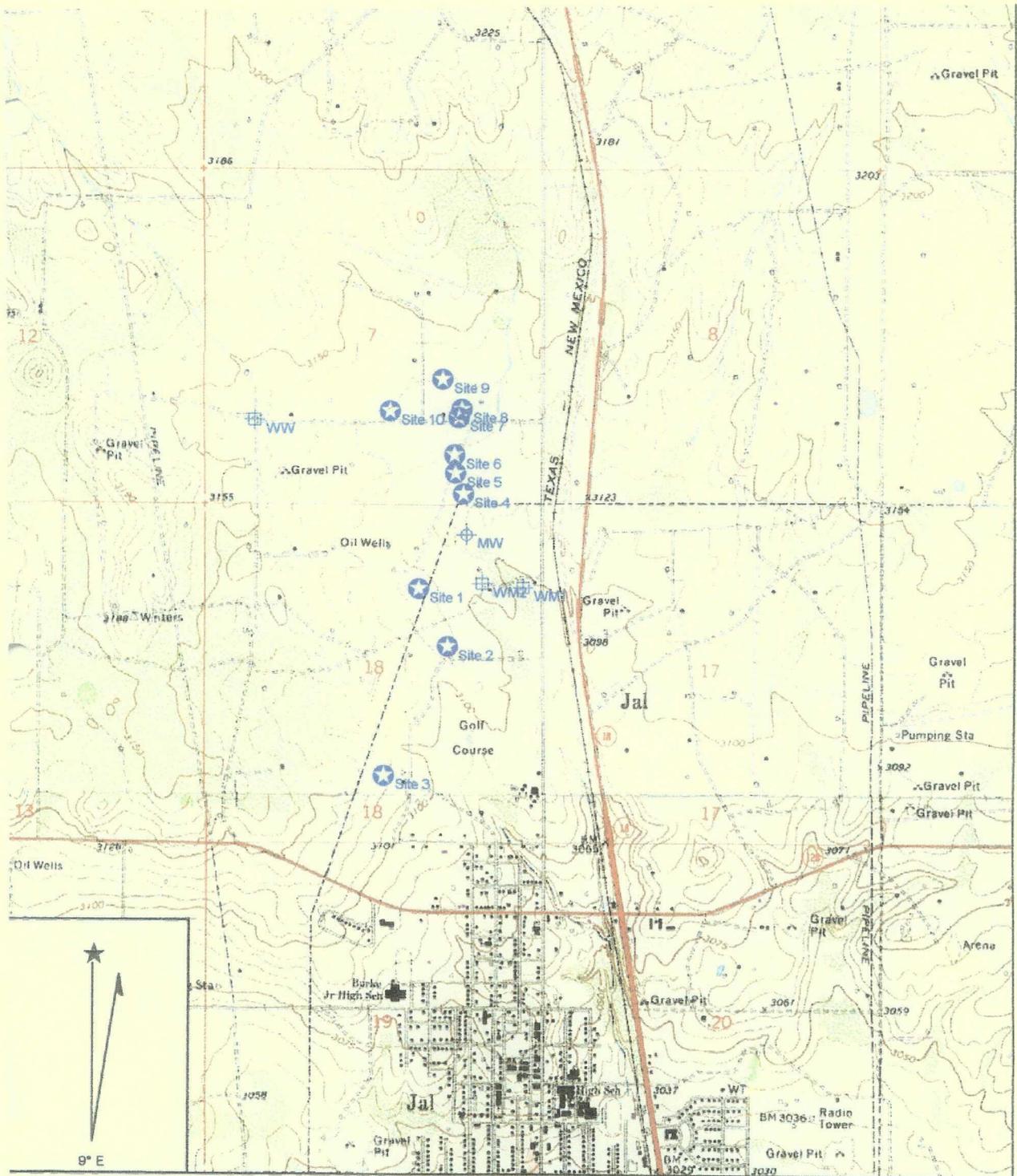


TANK VALVES OPENED EAST TANK 50 TO 60 BBLs OUT

TANK AT PUMP STATION

07/03/1999

Attachment III: USGS Map with Known Leak Sites



Name: JAL NW
Date: 12/20/99
Scale: 1 inch equals 2000 feet

Location: 032° 08.0716' N 103° 11.6874' W
Caption: Osborn Ranch Site Map

Copyright (C) 1997, Maptech, Inc.

Attachment IV: Bristol Resources file documentation

To: Dan Abney

16-Aug-99

*From
Bristol's
Files*

Re: Oil/Water Leaks South Langlie Jal Unit

Listed Below are the only two reports found at the OCD Office

<u>Date:</u>	<u>Size</u>	<u>Map Location</u>		<u>Reported</u>
4/24/98	20'x20'	??	Water	Eddie Elliot
11/30/98	25'x40'	??	Water	Yes

Other Leaks that were reported by Bristol or Clay Osborne but no confirmation report was available at the OCD office.

<u>Date:</u>	<u>Size</u>	<u>Map Location</u>	<u>Fluid Lost</u>	<u>Reported</u>
1/10/99			Water	Yes
Injection leak between well # 9 and Well # 13 WI				
1/11/99			Water	Yes
Injection leak in front of the oil storage battery in the middle of the road				
1/15/99			Water	Yes
Injection leak inside the Water Injection Tank Battery				
4/10/99				Yes
Injection leak inside the Water Injection Tank Battery				
4/19/99				Yes
Injection leak at the corner of the main road to water station				

4/23/99 Yes
Injection leak at WI well # 4 small drip no fluid out did not report

5/20/99
Clay Osborne lock gate to Water Station and install a keep out sign

5/27/99
Gate to water station was unlocked and sign removed.

6/10/99 Yes
Pump stuck on Well # 9 polish rod pulled out of stuffing box

7/3/99 Yes
Hole in West 500 BBIs water tank

7/17/99 Yes
Gasket not installed properly on West 500 BBIs tank leaking at manway

8/10/99 Yes
Flowline leak on well # 25 Dresser Sleeve replaced on fiberglass line

October 1, 2001

Director of the Oil Conservation Division
1220 St. Francis Dr.
Santa Fe, NM 87505

Re: Letter from Chaparral Energy, Inc. 9-26-01

Dear Sirs/Madam:

I am responding as an interested party or person with the following comment:

The State of New Mexico is aware of our water wells having chlorides which are too high to use on our pecan orchard. Jerry Sexton, a Hobbs employee spent a lot of time and effort here not long before he retired from his job at the office in Hobbs. Mr. Sexton told us our wells were too badly contaminated to use on our pecan orchard and took many samples, etc.

We no longer use these wells to water the pecan orchard or anything else on our property.

We are very interested in where the water was contaminated and the party responsible held liable.

Thank you for your consideration in this matter

Sincerely,


Darrell E. Bailey

Darrold E. Stephenson and
JoAn R. Stephenson
P. O. Box 749
Jal, New Mexico 88252

30 September 2001

New Mexico Energy, Minerals, and
Natural Resources Department
Attn: William C. Olson, Hydrologist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RECEIVED

OCT 10 2001

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Re: Stage 1 Abatement Plan Proposal for Chaparral Energy Inc.

Dear Mr. Olson:

We own property with two pumping water wells, adjoining Clay Osborn in Jal, New Mexico. There will be an attachment to this letter of a copy of laboratory testing of both of these wells. Both wells are so contaminated that the water is not potable. It has been undrinkable for several years. Due to increased contamination of our wells, the vegetation including some trees has died. We have testing to prove that year by year the contamination has increased.

Chaparral Energy has submitted a Stage 1 Abatement Plan Proposal for the South Langlie Unit site located near Jal, New Mexico in portions of Sections 7, 8, 17, and 18 of Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. They do operate or have operated injection wells at this site.

We do agree wholeheartedly that Chaparral needs to conduct the investigation to determine site geology and hydrogeology; conduct a registered water well search within a one (1) mile radius of the site; install monitoring wells; collect soil samples for field screening and/or laboratory analysis from each boring; collect ground water samples for laboratory analysis from each monitoring well; obtain depth to ground water measurements and calculate ground water gradient and direction; survey all well locations by a professional land surveyor registered in the state of New Mexico and prepare a report summarizing field activities and laboratory results. **We do not, however intend to pay for any of the expenses of the proposed abatement plan.** We have already been out considerable expense on the testing of our wells. We, the property owners are not responsible for the mess that has been made of our water supply. Owners of these oil wells should be responsible!

We do believe that we have the constitutional right to the enjoyment of our property. That right has been infringed on due to the fact that our enjoyment has been taken away by the contamination of our wells.

If this trend continues, we fear the citizens of Jal, New Mexico will one day be without water to drink!

Thank you for your consideration in this matter.

Sincerely,


Darrold E. Stephenson
JoAn R. Stephenson

Attachments: Copy of Well test Data/ Darrold & JoAn Stephenson Property
List of Citizens Concurring with Darrold & JoAn Stephenson



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
 ATTN: BOB ALLEN
 703 E. CLINTON, SUITE #103
 HOBBS, NM 88240
 FAX TO: (505) 393-4388

Receiving Date: 01/12/00
 Reporting Date: 01/17/00
 Project Number: NOT GIVEN
 Project Name: STEPHENSON
 Project Location: NOT GIVEN

Sampling Date: 01/12/00
 Sample Type: GROUNDWATER
 Sample Condition: COOL & INTACT
 Sample Received By: GP
 Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K Conductivity (mg/L) (u mhos/cm)	T-Alkalinity (mgCaCO ₃ /L)
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ANALYSIS DATE:	01/14/00	01/13/00	01/13/00	01/13/00	01/13/00	01/13/00
H4572-1 HOUSE WELL	482	187	72	9.5	2670	152
H4572-2 GEODECKE WELL	483	167	73	9.4	2720	172
Quality Control	NR	80.0	48.7	5.00	1392	NR
True Value QC	NR	80.0	50.0	5.00	1413	NR
% Recovery	NR	100	97.4	100	98.5	NR
Relative Percent Difference	NR	0	0.6	0.8	0.2	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
----------	-------------	-----------	------	-------	-------

	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
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ANALYSIS DATE:	01/13/00	01/14/00	01/13/00	01/13/00	01/13/00	01/14/00
H4572-1 HOUSE WELL	^{SRP} 250 461	981	0	185	7.13	2579
H4572-2 GEODECKE WELL	^{SRP} 250 497	871	0	210	7.14	2713
Quality Control	1010	48.63	NR	971	7.03	NR
True Value QC	1000	50.00	NR	1000	7.00	NR
% Recovery	101	97.3	NR	97.1	100	NR
Relative Percent Difference	10.0	2.9	NR	3.0	0.1	

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
----------	-------------	-------	-------	-------	-------	-------

Amy Hill
 Chemist

01/17/00
 Date

PLEASE READ AND UNDERSTAND: Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

LIST OF CITIZENS CONCURRING WITH DARROLD & JOAN STEPHENSON

WE CONCUR WITH THE VIEWPOINT OF DARROLD & JOAN STEPHENSON
CONCERNING STAGE 1 ABATEMENT PLAN FOR CHAPARRAL ENERGY, INC.

FONZY & Susie Abeyta	501 W. Nebraska St.	PO. Box 158
Jesse & Laraine O'Keefe	614 Sunth 6th	PO. BOX 156
CLAUDE & VIKKI RIVES	409 S. 9th	P.O. Box 1162
Jimmy & Irma Romaniega	609 5th S. 6th	Jal. N.M.
John & Mary Ann Reed	20 Sandy Lane	Jal. N.M., P.O. Box 34
Johnny M. Owen	28 Sandy Lane	Jal. Dan Medina
Ronald Castillo	531 S. 5th	Jal. Thon MOKAC
Bernice Gonzales	606 S. 8th	Jal. n.m.eo
Paul J. J. J.	705 EASY ST.	Jal NM. 88252
W. G. G. G.	714 Poplar	Jal. NM. 88252
Martina & Mike Willis	116 W. Nebraska	Jal. NM 88252
Robert P. M. M.	620 S. 7th	Jal. N.M. 88252
Deborah Sheek	601 S. 4th ST	Jal. 88252
Cherrie Skaggs	8304 W Nevada	Jal. 88252
Dorinda Shamke	416 S 4th	Jal. NM 88252
Leticia Lujan	902 Ocho Rd	Jal NM 88252
M. L. L. L.	806 Poplar	Jal NM 88252
Paul Rose	803 Hackberry	Jal. N.M. 88252
Jan Bagan	811 Ocho Rd	Jal NM 88252
Norma Granada	505 S. 4th.	Jal NM 88252
Barbara Lujan	221 N. 5th.	Jal. NM 88252
Theresa Lujan	909 Oak	Jal. NM 88252
Robert P. Volpe	611 S. 5th St	Jal. N.M. 88252
Charlette Volpe	611 S 5th St	Jal. NM. 88252
Rosa Lujan	437 So 2nd St	Jal NM 88252
Johnnie Barclay	P.O. Box 1225	Jal. NM 88252
Dorree Barclay	P.O. Box 1225	Jal. NM 88252
J. K. M. M.	P.O. Box 463	Jal. NM 88252
Eva Antley	POB 1207	Jal. N.M. 88252
John Melancon	PO BOX 639	Jal. NM 88252
Robert P. M. M.		
Ronald B. Smith	P.O. BOX 671	Jal. N.M. 88252

COPY

IVA LEE CALLEY RIGGS

Post Office Box 3896
West Sedona, AZ 86340

Phone: 928/ 282-7177
Fax: 928/ 204-9096
ivalee@email.mon.com

September 29, 2001

Robert C. Lang, Environmental, Health & Safety Manager
CHAPARRAL ENERGY, INC.
701 Cedar Lake Boulevard
Oklahoma City, OK 73114-7806

Thank you for my copy of the New Mexico Oil Conservation Division Regulations, Stage One Abatement Plan Proposal.

I do not believe that I own any royalty leased to Chaparral Energy, Inc. Nor am I familiar with the South Langlie Jal Unit site located near Jal, New Mexico in portions of Sections 7, 8, 17 and 18 of Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

I DO own royalty in Sections 14, 21, 22, 23, and 27, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico. Also Section 31, Township 23 South Range 36 East, NMPM, Lea County, New Mexico.

The last Division Order, dated January 5, 1987, effective July 1, 1986, for Lease or Unit known as Langlie Mattix WF Unit (Tracts 1 thru 6) was to
Citation Oil and Gas Corp.,
16800 Greenspoint Park Drive, South Atrium, Suite 300
Houston, Texas 77060-2304
713/874-9877

Please inform me if this information is incorrect.

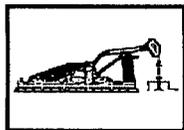
Sincerely,



Iva Lee Calley Riggs, Royalty Owner

cc: Citation Oil and Gas Corp.
[Address Above]
Director of the Oil Conservation Division
1220 St. Francis Drive
Santa Fe, N.M. 87505

Hobbs News-Sun



Cash Petroleum

Good Morning

Thursday,
November 1,
2001

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Jal Contamination

MARK R. FLETCHER

HOBBS NEWS-SUN

JAL – With contamination north of town officials in Jal say there's reason for concern, but not panic.

While some private wells along the north side of the city may be imperiled, the city draws its water from wells more than six miles south of town.

And nobody, even those directly affected by the contamination, has said the city's water supply is contaminated.

City officials are taking prudent steps to ensure that it stays that way - including extra rounds of testing and monitoring - but they point to the fact that Jal's water wells are far away from the contaminated areas and more than 600 feet deep.

As part of their ongoing monitoring, Lisa D. Brown, a water resource engineering specialist with the New Mexico Environment's Drinking Water Bureau, collected samples from the city's water system early last week.

Brown collected the samples at the same time she collected samples from the Osborn ranch. She said the collection was routine, and that the city was due for an inspection. Brown said she doubts the city's water supply will be affected by the contamination north of town, although some additional private wells within the city limits may be affected.

Brown said it would be two to six weeks before the tests results come back.

Whatever the test, Jal officials are confident the water is safe.

"We are very confident that our water is safe to drink," said City Clerk Skeet Posey.

The City of Jal has sent a letter, which was dated Oct. 9, to the OCD expressing support for the landowners north of town indicating that the city wants efforts taken to ensure that their water supply stays safe.

Posey said there hasn't been a big run on bottled water, nor has she

WEATHER

Hobbs, NM
73 °F
Partly Cloudy
at 8:55 AM

Click for Forecast

TV Listings



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seen signs of an impending panic, but she did say people are naturally concerned.

Staff/Info

"There is a concern about the safety," Posey said. "(But) I guarantee it is safe. It is tested on a monthly basis É (and) there's not even a trace of contamination."

Viewpoint

Melba McCravey, assistant manager of Lowe's Pay and Save in Jal, said she hadn't seen a run on bottled water either and that sales have stayed where they were before news of the contamination hit. She said the only people buying bottled water were the same people who preferred bottled water all along.

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State Sen. Carroll Leavell, R-Jal, said he supported efforts to help property owners north of town deal with contamination of their land and water, but wanted to emphasize that the municipal supply is safe.

"The city of Jal has great water," Leavell said.

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Send email to [Hobbs News Sun]!



Olson, William

From: Olson, William
Sent: Tuesday, October 30, 2001 4:13 PM
To: Salisbury, Jennifer
Cc: Wrotenbery, Lori; Anderson, Roger; Williams, Chris
Subject: Briefing on Chaparral - South Langlie Jal Unit Abatement Plan

Lori wanted me to brief you on an issue that has begun to receive publicity in the Jal area. Attached is a copy of a news article on an Abatement Plan that the OCD has required in Jal, New Mexico. The article appeared in the Sunday Hobbs News Sun. The site that is being discussed is the South Langlie Jal Unit operated by Chaparral Energy, Inc. The site is an oil and gas production unit that abuts the Jal Golf Course. The surface is largely a local ranch owned by Clay and Jeri Osborn. Their ranch house is just north of the golf course.

In 1999 the OCD Hobbs District Office was working on remediation of a spill from a produced water line with Bristol Resources who, at that time, operated the unit. The investigations revealed that contamination migrated vertically into the ground water and that the ground water was contaminated with chlorides and total dissolved solids. At that time, Mr. Osborn notified the OCD that their house and ranch water wells downgradient of the spill had recently become contaminated with chlorides and total dissolved solids and that they could not drink the water. At this point, the case was referred to the Environmental Bureau.

We subsequently met with Mr. Osborn and he showed us a number of spill and pit contamination sites on the unit upgradient of the house and ranch wells. Subsequently, the OCD required that Bristol submit a Stage 1 abatement plan pursuant to OCD Rule 19. Apparently, Bristol had filed for bankruptcy and Bristol's assets were then purchased through the bankruptcy proceedings by Chaparral. The OCD then required that Chaparral, as the current operator of the unit, submit a Stage 1 Abatement Plan. Currently, the exact source of contamination of Mr. Osborn's well has not been determined. The purpose of the plan under the rule is to determine the extent of contamination related to their facilities on the unit and then to submit a plan to remediate the sites.

Recently, Chaparral submitted this plan to the OCD. Once the plan was submitted Chaparral was required, under the rule, to issue public notice in the newspaper and written notice to city and county governments and all landowners within 1 mile of the site. The public and written notice was just completed on approximately October 25th. The OCD received public comments from Mr. Osborn, a few other local landowners, the City of Jal and Carroll Leavell, representing the Jal Public Library which is also an adjacent landowner.

I expect to complete a technical review of the investigation plan and the public comments within the next week and respond in writing to Chaparral. Let me know if you need any more information.



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Contamination may threaten water supply in Jal area

MARK R. FLETCHER

Hobbs News-Sun

Clay Osborn's pride in his ranch just north of Jal is evident from the decorative pond full of Japanese koi to the stylish interior of his home.

Osborn and his wife, Jeri, however, worry how much longer they can continue to enjoy living on their nearly 2,000-acre ranch.

Several wells on his property have salted out from oilfield contamination and – more alarming – he has found evidence of mercury contamination.

Fears of brine and mercury contamination have led the City of Jal and the Osborns to write a series of letter to the Oil Conservation Division about the South Langlie Jal Unit. The unit, which was purchased from Bristol Resources Corporation by Chaparral Energy of Oklahoma City last year, is the subject of an abatement plan recently filed by Chaparral. Both the City of Jal and the Osborns feel the abatement plan is not adequate.

So far, no mercury has been found in Jal's water supply, and it's unclear if it is even threatened, but the city fears that may well happen.

The mercury was discovered in a monitor well installed by E.O.T.T. Pipeline Company less than a mile from the Osborn house just north of Jal.

It is not, however, just Osborn's ranch that has become contaminated. The pollution, mostly brine and chlorides, has spread south into parts of Jal. Thus far, mercury has not been found off the Osborn ranch and the city's water supply appears safe.

The City of Jal is concerned enough about potential contamination of its wells that city officials have drafted a letter to the Oil Conservation Division expressing their concern.

The letter, dated Oct. 9 and addressed to William Olson of the Oil Conservation Division from Jal Mayor Mary C. Claiborne, expresses support for several property owners who have been affected by the contamination and criticizes the abatement plan.

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"We do not feel that the proposed abatement plan is extensive enough to correct the existing damage and/or prevent future contamination," the letter reads. "If the current reported trend continues, we fear that there is definitely a possibility that our public water supply could be contaminated."

Although several wells in the area have "salted out" and tested with very high chloride levels, so far no mercury has been detected in any private wells – except the monitor well on the Osborn ranch – or in the city's water supply.

Osborn learned of the potential mercury contamination after a test performed by the E.O.T.T. Pipeline Company.

He added that if the company had not done the testing, he may never have known that mercury was present. He also added that he doesn't know exactly which company is responsible for the mercury.

Robert C. Lang, the environmental, health and safety manager with Chaparral Energy, said the possibility of mercury contamination is news to him.

"I have yet to see anything regarding mercury contamination. That's a new one," he said.

Although the brine contamination is bad enough, Osborn said he is especially concerned about the possibility of mercury contamination.

"If we do have it in the water, we cannot even sell our cattle," Osborn said. "If we do have mercury in our wells, we're just hung."

Darold Stephenson, a Jal City councilor and Lea County commissioner, said he wants the City of Jal to test for metals in its water system. Stephenson's property is also just north of Jal and he said he worries that if there is mercury contamination on Osborn's property it may have found its way into the water.

Stephenson said he doesn't believe the city's water has been affected, but said it would be a good idea to test the city's water anyway to make sure.

"I don't think the people of Jal know if the water is contaminated," Stephenson said.

So far, only private wells along the north edge of town have been contaminated with brine and chlorides. It's not clear if the contamination includes mercury or if it threatens the city's municipal supply.

On Monday, representatives from the state Environment Department visited the Osborn ranch to collect water samples. Lisa D. Brown, a water resource engineering specialist with the Environment Department, said normally the department oversees only public water supplies. However, since Osborn's concerns involve possible contamination, Brown agreed to collect samples at his home and the Stephensons as a courtesy.

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Most alarming for Stephenson, his wife, JoAn, has tested positive for mercury. Tests conducted earlier this year by a Roswell physician showed very elevated levels of mercury.

Stephenson said he has not heard of anyone else in the area testing positive for mercury levels, and said they are not sure yet what the source of the positive results were. He said the mercury could have come from old dental fillings or some other source, but with mercury found closely in Osborn's land, they are also concerned the material may have found its way into the ground water.

"We've got to start eliminating all these sources and find out where it's coming from," Osborn said.

While the possibility of mercury contamination is still somewhat speculative, the brine and chloride levels are not.

After finding the wells contaminated with chlorides and brine, Osborn shut off most of his wells and allowed the stock ponds on his ranch to dry up. In spots where the spills were particularly large, entire swaths of vegetation have simply died, leaving only the open sandy soil and a few salt-tolerant weeds. The Osborns have been hauling water from town to use for drinking and cooking for more than a year.

"We're getting awful tired of hauling," Osborn said.

The area in question, the South Langlie Jal Unit, is currently owned by Chaparral Energy. That company is not, however, the one responsible for the contamination.

Chaparral bought the unit out of bankruptcy when it acquired Bristol Resources. The company admits it didn't particularly want that area, and knew there was some pending litigation because of the contamination.

"We did buy it out of bankruptcy, (and) initially it was not part of the sales package. But when you go into a bankruptcy like that you don't always have it come out the way you want it to," Lang said.

He also said that it's not fair to single out one company. He especially points out that the SLJU area has been in use since the earliest days of the oilfield in Lea County – perhaps as far back as the 1920s – and that makes it hard to pin responsibility on just one person or company. He also notes that the soils in the area make ground water contamination especially easy.

"The problem is widespread; you can pin blame on just about anybody in that part of the country be they in the oil business, the cattle business or any other business," Lang said. "Your soils are such that anything you spill on the ground will eventually more than likely wind up in the aquifer. There's no totally impermeable barrier between the surface and the first aquifer."

Lang also points out that not all the wells in the area are contaminated, and that it would be premature to place all the responsibility on Chaparral until further tests have been done.

"I have no reason to doubt Mr. Osborn," Lang said. "It appears that he does have a water problem. But there are also E wells from this same zone where the water is very good and not too far from him."

Although Chaparral is not the company that caused the contamination, it is the owner and must file an abatement plan. The company filed a stage-1 abatement with the OCD in August to start the process of deciding what cleanup procedures should be taken. This is the same plan the City of Jal wrote a letter in response to, and Osborn also finds the abatement plan inadequate.

"The context of the abatement plan is too general," Osborn wrote in his rebuttal to Chaparral's plan, "and incorrectly assumes that the ground-water resources underlying the Osborn property was initially of poor quality."

Lang, who authored Chaparral's plan, has pointed out that elevated levels of chlorides have been detected as far back as the early 1950s, long before Bristol or Chaparral became involved.

"They've been contaminated for quite some time," Lang said.

For their part, the Osborns said they aren't after a big settlement; they simply want Chaparral to put their land back in order.

"What we're after is our land restored and our water restored," Jeri Osborn said.

The Osborns say they wanted to retire on the ranch. The area has particular sentimental value for them since Jeri's great-grandmother homesteaded the property in 1908.

Jeri Osborn said they continue to stick it out on their ranch because they hope eventually something will change.

We keep hoping somebody will help," she said.

Osborn said over time his attempts to document the leaks and spills Bristol was responsible for became something of a contest.

"When they found out I was a cowboy with a camera, they tried to get out here to cover it up before I could get here," Osborn said.

Osborn's documentation efforts often paid off. In a letter from Olson to officials at Bristol about their environmental assessment of conditions on Osborn's ranch, Olson notes that OCD staff visited the ranch and found things weren't quite the way Bristol said they were.

"In addition, the OCD's inspection and Mr. Osborn's documents show that there are several other BRC (Bristol Resources Corporation) spill sites upgradient of Mr. Osborn's wells that were not addressed in BRC's environmental assessments," the letter reads.

"It's just sickening sometimes, the amount of damage that's been done," Osborn said. "You get mad is what you do."

By his own estimation Osborn has already spent tens of thousands of dollars on environmental tests and other costs in his quest to get his ranch put back in order, but he feels the contest may be a bit one-sided.

"They can outlast us," Osborn said of the oil companies' superior funds and resources.

Lang said his company is committed to abiding by whatever plan the OCD decides to impose. He also said Chaparral would continue to look into the condition of the Osborn ranch.

"We are going to look into the allegations and see what can be done," Lang said. "We bought it. We didn't do it, but we bought it, and whatever the state says needs to be done that's what we're going to do.

"And we'll try to get things right by him as best we can."

Reporter Mark R. Fletcher can be reached at 505-397-4556, ext. 133, or at markmrf@hotmail.com.

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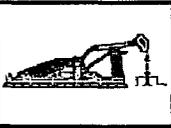
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Long family history part of ranch

MARK R. FLETCHER

Hobbs News-Sun

For Jeri Osborn the condition of her ranch is especially difficult.

Osborn's great grandmother, Elydia C. Winters, homesteaded there around 1908, and the ranch has a long history in her family – several family members were born and died on the ranch. Now the Osborns fear it may have become so heavily contaminated they may have to abandon it.

"(They) all died right out there," Jeri Osborn says of the ranch she and her husband Clay now call home. "It means a lot to us."

Osborn said she grew up at the ranch. The original homestead is still standing, which the Osborns now use as a storage area. The old house has had room after room added to it over the years. Its rough and rugged ancestry shows in the slanting, do-it-yourself-or-do-without style floor.

Outside an old windmill still stands, though the wooden water tub blew away in a recent windstorm. Jeri Osborn added that several of the original outbuildings – a shed and a barn also received some damage in the same storm, along with several cottonwood trees.

The trees were also victims of the rising salt levels in the water, with the storm delivering the coup-de-grace.

Osborn said the house doesn't even have a foundation, but rests directly on the ground. She added they have thought of trying to save the old building, but the costs of raising it are too high, and they fear it may fall apart in the process.

Osborn said she has a lot of memories of living out on the ranch, and recalls meeting Winters when she was nearing the end of her long life – she died in the 1960s at age 99.

Winters must have been tough as nails to survive in a desolate place long before comforts like electricity and good roads made their way to this dusty spot of the world.

Osborn said Winters' first husband, Jon Ball, died shortly after they arrived. Osborn wears the ring he gave her with the initials J.B. inscribed on it.

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The Osborns began buying up the property from the other heirs; most of whom she says were willing to sell.

Staff/Info

"I always wanted to come back," Osborn said.

Viewpoint

Osborn said she wants to keep up their fight to get their land and water cleaned up because they like the place, not only for its long family history – but because it's just a beautiful spot.

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Both Osborns speak lovingly of the wide-open clear view they have in several directions and the star-bedecked night sky that arches over their ranch.

Search

"We like it here, it's nice and quiet," Jeri Osborn said.

She still hopes they can find a way to get their property restored, but admits that she sometimes worries that it may not be possible.

"Yes. That thought is out there," she said of having to abandon the property, "but we sure don't want to."

Reporter Mark R. Fletcher can be reached at 505-397-4556, ext. 133, or at markmrf@hotmail.com.

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Send email to [Hobbs News Sun]!

Olson, William

From: Bob Lang [bobl@chaparralenergy.com]
Sent: Monday, September 17, 2001 8:30 AM
To: 'Olson, William'
Subject: RE: South Langlie Jal Unit

Yes, I understand written notice goes out first. I plan to send it to all those you listed on the floppy disk as well as all parties contiguous to the Unit. We will be sending a landman to the area to get names and addresses.

Bob Lang
Environmental, Health & Safety Manager
(405) 478-4643 Ext. 1130 (O)
(405) 478-4162 (F)

bobl@chaparralenergy.com <mailto:bobl@chaparralenergy.com>

-----Original Message-----

~~From: Olson, William [mailto:WOLSON@state.nm.us]~~
Sent: Friday, September 14, 2001 2:39 PM
To: 'Bob Lang'
Subject: RE: South Langlie Jal Unit

The notice is to be published just once in each publication. However, as stated in OCD's correspondence you need to issue written notice pursuant to Rule 19.G.(1) prior to the publication.

-----Original Message-----

From: Bob Lang [mailto:bobl@chaparralenergy.com]
Sent: Friday, September 14, 2001 11:55 AM
To: Bill Olson (E-mail)
Subject: South Langlie Jal Unit

Bill,

I have been trying to call your office, but every number I try is a busy signal. Hopefully, this will get through.

I have received your letter approving our Abatement Plan. I am in the process of having the letter published in the newspapers per your letter, but no one seems to know how often it is to be published. I've heard every day for a week/month, only once, once a week for a month. Most say "I don't know." Could I have some direction please.

Thanks.

Bob Lang
Environmental, Health & Safety Manager
(405) 478-4643 Ext. 1130 (O)
(405) 478-4162 (F)

bobl@chaparralenergy.com <mailto:bobl@chaparralenergy.com>



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

September 10, 2001

Mr. Carroll H. Leavell
Board of Trustees of the Jal Public Library Fund
P.O. Box 178
Jal, New Mexico 88252

**RE: GROUND WATER ABATEMENT PLAN (AP-18)
CHAPARRAL ENERGY - SOUTH LANGLIE JAL UNIT**

Dear Mr. Leavell:

Lori Wrotenbery asked me to respond to your August 16, 2001 correspondence requesting information on the abatement plan for Chaparral Energy, Inc.'s (Chaparral) South Langlie Jal Unit located in portions of Sections 7, 8, 17 and 18 of Township 25 South, Range 37 East, Lea County, New Mexico.

Pursuant to OCD Rule 19, the OCD required an abatement plan because of contamination of Mr. Clay Osborn's water wells and the fact that upgradient oilfield operations (formerly operated by Bristol Resources Corporation but recently purchased by Chaparral) were shown to have a number of leaks and spills, one of which was shown to have contaminated ground water in excess of state standards. The abatement plan is broken into 2 stages, a Stage 1 Abatement Plan Proposal and a Stage 2 Abatement Plan Proposal.

The purpose of the Stage 1 Abatement Plan Proposal is for the responsible person to determine the magnitude and extent of contamination that is related to their operations. The rules require that the responsible person provide public notice of the plan and allows a 30 day period for receipt of public comments. Based upon a technical review of the proposal and consideration of the public comments, the OCD resolves deficiencies in the proposal with the responsible person and issues administrative approval of the Stage 1 Abatement Plan. The responsible person then conducts the investigations at the site and provides a Stage 1 Investigation Report to the OCD for approval.

Once the extent of contamination has been determined, the responsible person is required to submit a Stage 2 Abatement Plan Proposal which contains a proposed plan to remediate the site to state standards. The rule also requires that the responsible person provide public notice of the plan and allows a 30 day period for receipt of public comments and public requests for a hearing on the merits of the plan. A request for a public hearing must be in writing and must include the reasons

Mr. Carroll H. Leavell
September 10, 2001
Page 2

why a hearing should be held. Based upon a technical review of the proposal and consideration of the public comments, the OCD attempts to resolve deficiencies in the proposal with the responsible person and then determines whether the Stage 2 Abatement Plan is administratively approvable or denied. If the plan is administratively denied, the applicant will be notified and it will be its responsibility to request a hearing appealing the denial. If the Stage 2 Abatement Plan is determined to be administratively approvable, the OCD will notify the applicant and all intervenors of the conditions under which the plan would be approved. All intervenors will be allowed fifteen (15) days from receipt of the determination to notify the OCD whether they still wish to proceed to hearing.

Recently, Chaparral filed a Stage 1 Abatement Plan Proposal to investigate the extent of contamination at the site. This proposal is available for public inspection at either the OCD Santa Fe Office or the OCD Hobbs District Office. The OCD has included your name as an intervenor in this case and you will receive copies of all OCD correspondence concerning the abatement plan.

The OCD appreciates your input on the issues relating to this abatement plan. If you have any questions or comments, please do not hesitate to contact me at (505) 476-3490 or Bill Olson of my staff at (505) 476-3491.

Sincerely:



Roger C. Anderson
Environmental Bureau Chief

RCA/wco

xc: Lori Wrotenbery, Director
Chris Williams, OCD Hobbs District Supervisor
Robert Lang, Chaparral Energy, Inc.
Clay Osborn



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenberg
Director
Oil Conservation Division

September 7, 2001

CERTIFIED MAIL
RETURN RECEIPT NO: 5357-7898

Mr. Robert C. Lang IV
Chaparral Energy, Inc.
701 Cedar Lake Blvd.
Oklahoma City, Oklahoma 73114-7806

RE: STAGE 1 ABATEMENT PLAN PROPOSAL (AP-18)
SOUTH LANGLIE JAL UNIT
JAL, NEW MEXICO.

Dear Mr. Lang:

The New Mexico Oil Conservation Division (OCD) has reviewed Chaparral Energy, Inc.'s (Chaparral) August 22, 2001 "AMENDED SOUTH LANGLIE JAL UNIT STAGE I ABATEMENT PLAN" and March 23, 2001 "SOUTH LANGLIE JAL UNIT STAGE I ABATEMENT PLAN". These documents contain Chaparral's proposed Stage 1 abatement plan for investigation of the extent of contamination related to Chaparral's South Langlie Jal Unit located in portions of Sections 7, 8, 17 and 18 of Township 25 South, Range 37 East, Lea County, New Mexico.

The OCD has determined that the above referenced Stage 1 Abatement Plan Proposal is administratively complete. Before the OCD can complete a review of the Stage 1 proposal, the OCD requires that:

1. Chaparral issue by September 22, 2001 the enclosed Stage 1 notice of publication in the Albuquerque Journal, Lovington Daily Leader and Hobbs News Sun pursuant to OCD Rule 19.G.(2).
2. Prior to issuing public notice, Chaparral shall issue written notice of the Stage 1 proposal pursuant to OCD Rule 19.G.(1). Enclosed you will find a 3.5" disk containing a "Word" listing "those persons, as identified by the Director, who have requested notification" pursuant to OCD Rule 19.G.(1).(d). The disk also contains the contact for the New Mexico Trustee for Natural Resources.

3. Chaparral provide the OCD with proof of publication and proof of written notice by October 9, 2001.

If you have any questions, please contact Bill Olson of my staff at (505) 476-3491.

Sincerely,



Roger C. Anderson
Environmental Bureau Chief

RCA/wco

enclosures

cc: Chris Williams, OCD Hobbs District Office
Clay Osborn
Carroll H. Leavell

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations, the following Stage 1 Abatement Plan Proposal has been submitted to the Director of the Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

Chaparral Energy, Inc., Robert C. Lang, Environmental, Health & Safety Manager, Telephone (405) 478-8770, 701 Cedar Lake Blvd., Oklahoma City, Oklahoma, 73114-7806, has submitted a Stage 1 Abatement Plan Proposal for the South Langlie Jal Unit site, located near Jal, New Mexico in portions of Sections 7, 8, 17 and 18 of Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Chaparral Energy, Inc. operates oil and gas production and injection wells at the site. Chloride and total dissolved solids in excess of New Mexico Water Quality Control Commission standards have been observed in ground water at the site. The Stage 1 Abatement Plan Proposal presents the following subsurface investigation activities: determine site geology and hydrogeology; conduct a registered water well search within a 1 mile radius of the site; install monitoring wells; collect soil samples for field screening and/or laboratory analysis from each boring; collect ground water samples for laboratory analysis from each monitoring well; obtain depth to ground water measurements and calculate the ground water gradient and direction; survey all well locations by a professional land surveyor registered in the State of New Mexico; and prepare a report summarizing field activities and laboratory results.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The Stage 1 Abatement Plan Proposal may be viewed at the above address or at the Oil Conservation Division Hobbs District Office, 1625 N. French Drive, Hobbs, New Mexico 88240, Telephone (505) 393-6161 between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed Stage 1 Abatement Plan Proposal, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which written comments may be submitted.



STATE OF
 NEW MEXICO
 OIL
 CONSERVATION
 DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

Telephone

Personal

Time 1600 hrs.

Date 8/27/01

Originating Party

Bill Olson - Envir. Bureau

Other Parties

Bob Lang - Chaparral Energy

Subject

South Langley T&L Unit

Discussion

Called about late stage 1 plan

Conclusions or Agreements

Stage 1 plan shipped out this morning Fed-X

Distribution

Signed

Bill Olson

Chaparral Energy, Inc

701 Cedar Lake Blvd. ♦ Oklahoma City, OK 73114-7806
(405) 478-8770 ♦ Fax: (405) 478-1947

22 August 2001

RECEIVED

AUG 28 2001

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

New Mexico
Energy, Minerals and Natural Resources Department
Attn: William C. Olson, Hydrologist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Amended South Langlie Jal Unit Stage I Abatement Plan

Dear Mr. Olson:

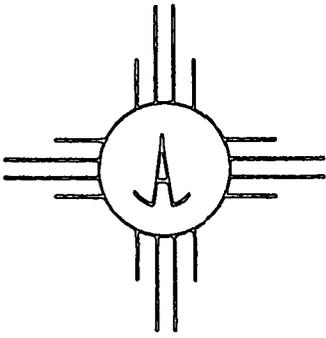
Attached is Chaparral Energy Inc.'s amended Stage I Abatement Plan for the unit. We are already collecting data for this operation. Should you require anything further please contact me at the numbers below.

Sincerely,



Robert C. Lang IV, REM, CEA
Environmental, Health & Safety Manager
(405) 478-4643 Ext. 1130 (O)
(405) 478-4162 (F)

cc: Chris Williams, OCD Hobbs District Office
Clay Osborn, Jal, New Mexico



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OIL CONSERVATION DIV.

01 AUG 23 PM 12:33 Telephone 505 395-2464

August 16, 2001

Ms. Lori Wrotenbery
New Mexico Energy & Mineral Department
Oil Conservation Division
PO Box 6429
Santa Fe, New Mexico 87505

Dear Ms. Lori Wrotenbery,

The Board of Trustees of the Jal Public Library Fund will appreciate information from your department concerning future activity of Chaparral Energy on the South Langlie Jal Unit located in sections 8 and 17 of T25S, R37 E.

We would appreciate a copy of the abatement plan and to be kept informed of the activity and status of the above-mentioned property. Our concern is surface pollution and ground water pollution on the Trust Property.

Sincerely,

Carroll H. Leavell
Board of Trustees of the Jal Public Library Fund

CL/gm

Olson, William

From: Bob Lang [bobl@chaparralenergy.com]
Sent: Monday, August 13, 2001 9:15 AM
To: Bill Olson (E-mail)
Subject: South Langlie Jal Unit Abatement Plan

Bill,

Chaparral Energy Inc. sent my draft of the Stage 1 Abatement Plan for this unit to an attorney in Santa Fe for review, corrections, additions, etc. several weeks ago. I still have not seen or heard anything from them or from our corporate counsel about it. I am pushing for a reply not later than this week, but honestly do not know when it will come back from Santa Fe. Hopefully, all will be ready to go by the end of August.

I hereby request an extension until 31 August 2001 to get the Stage 1 Abatement Plan to you.

Robert C. Lang IV, REM, CEA
Environmental, Health & Safety Manager
(405) 478-4643 Ext. 1130 (O)
(405) 478-4162 (F)
bobl@chaparralenergy.com

Olson, William

From: Bob Lang [bobl@chaparralenergy.com]
Sent: Monday, July 16, 2001 11:27 AM
To: 'Olson, William'
Subject: RE: South Langlie Jal Unit Abatement Plan

Bill,
Thank you. We are still awaiting the legal files form Bristol. Supposedly, there is much more we have not seen in these files and I do not wish to repeat what has already been done. We have been promised the files this week. As soon as I know more I will contact you.

Robert C. Lang IV, REM, CEA
Environmental, Health & Safety Manager
(405) 478-4643 Ext. 1130 (O)
(405) 478-8559 (F)

-----Original Message-----
From: Olson, William [mailto:WOLSON@state.nm.us]
Sent: Monday, July 16, 2001 11:04 AM
To: 'Bob Lang'
Subject: RE: South Langlie Jal Unit Abatement Plan
Importance: High

The below referenced extension request is approved.

From: Bob Lang [SMTP:bobl@chaparralenergy.com]
Sent: Wednesday, July 11, 2001 4:25 PM
To: Bill Olson (E-mail)
Cc: Bob Kelly; Jim Miller; Mike Rossiter; Mark
Subject: South Langlie Jal Unit Abatement Plan

Fischer

Bill,

We need to request a two week extension on replying to your Notice of Violation on the South Langlie Jal Unit. We have requested data from the field and from the previous owner (promised but not yet delivered) that we need in order to better respond to the State's requirements. We hope to have the Stage I Abatement Plan ready for submission to you not later than 27 July 2001.

Should this not be acceptable, please let me know as soon as possible and we will submit what we have already put together.

Thank you,

Bob

Robert C. Lang IV, REM, CEA
Environmental, Health & Safety Manager
(405) 478-4643 Ext. 1130 (O)
(405) 478-8559 (F)

Olson, William

From: Olson, William
Sent: Monday, July 16, 2001 10:04 AM
To: 'Bob Lang'
Subject: RE: South Langlie Jal Unit Abatement Plan

The below referenced extension request is approved.

From: Bob Lang [SMTP:bobl@chaparralenergy.com]

Sent: Wednesday, July 11, 2001 4:25 PM
To: Bill Olson (E-mail)
Cc: Bob Kelly; Jim Miller; Mike Rossiter; Mark Fischer
Subject: South Langlie Jal Unit Abatement Plan

Bill,

We need to request a two week extension on replying to your Notice of Violation on the South Langlie Jal Unit. We have requested data from the field and from the previous owner (promised but not yet delivered) that we need in order to better respond to the State's requirements. We hope to have the Stage I Abatement Plan ready for submission to you not later than 27 July 2001.

Should this not be acceptable, please let me know as soon as possible and we will submit what we have already put together.

Thank you,

Bob

Robert C. Lang IV, REM, CEA
Environmental, Health & Safety Manager
(405) 478-4643 Ext. 1130 (O)
(405) 478-8559 (F)



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

June 13, 2001

CERTIFIED MAIL
RETURN RECEIPT NO: 3771-7378

Mr. Robert C. Lang IV
Chaparral Oil, LLC
701 Cedar Lake Blvd.
Oklahoma City, Oklahoma 73114-7806

**RE: NOTICE OF DEFICIENCY
SOUTH LANGLIE JAL UNIT
ABATEMENT PLAN (AP-18)**

Dear Mr. Lang:

The New Mexico Oil Conservation Division (OCD) has reviewed Chaparral Oil, LLC's (Chaparral) March 23, 2001 "SOUTH LANGLIE JAL UNIT STAGE I ABATEMENT PLAN". This document contains Chaparral's Stage 1 Abatement Plan for the South Langlie Jal Unit located in Sections 7, 8, 17 and 18 of Township 25 South, Range 37 East, Lea County, New Mexico.

While the above-referenced document contains a summary of prior site investigative actions, the document is deficient because it does not contain a work plan to investigate the extent of contamination related to Chaparral's South Langlie Jal Unit. In order to correct this deficiency, the OCD requires that Chaparral submit, pursuant to OCD Rule 19.E.(3), a Stage 1 investigation work plan to design and conduct a site investigation that will adequately define site conditions, and provide the data necessary to select and design an effective abatement option. The plan shall be submitted to the OCD Santa Fe Office by July 13, 2001 with a copy provided to the OCD Hobbs District Office.

If you have any questions, please contact Bill Olson of my staff at (505) 476-3491.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief

cc: Chris Williams, OCD Hobbs District Office
Clay Osborn

Olson, William
From: Wrottenbery, Lori
Sent: Monday, June 11, 2001 2:48 PM
To: Williams, Chris
Cc: Catanach, David; Ross, Stephen; Olson, William
Subject: RE: South Langlie Jal Unit

Thanks for the update.

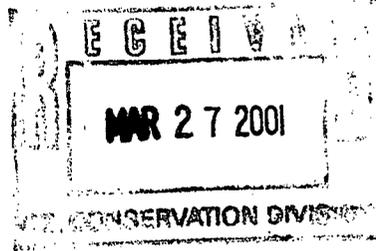
From: Williams, Chris
Sent: Monday, June 11, 2001 1:53 PM
To: Wrottenbery, Lori
Subject: South Langlie Jal Unit

I just received a response from Chaparral Energy. They are going to send a plan in with in 60 days to P&A the wells in the unit and TA possibly two for use as disposal wells in the future. Also, they are putting into a letter to me, CC you that the SLJU #4 was not shut-in during 1999,2000 but Bristol did not file C115's for that time period. Chaparral does have the volumes disposed of from that time period. They will send in amended C115's for that time period, along with their plan.

Chaparral Energy, Inc

701 Cedar Lake Blvd. ♦ Oklahoma City, OK 73114-7806
(405) 478-8770 ♦ Fax: (405) 478-1947

23 March 2001



New Mexico
Energy, Minerals and Natural Resources Department
Attn: William C. Olson, Hydrologist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: South Langlie Jal Unit Stage I Abatement Plan

Dear Mr. Olson:

Attached is Chaparral Energy Inc.'s initial Abatement Plan covering the possible pollution of groundwater by past oil and gas production operations. Steps are already being taken to remediate the unit surface and gather data pertaining to possible soil and groundwater contamination. Should you require anything further please contact me at the numbers below.

Sincerely,

Robert C. Lang IV, REM, CEA
Environmental, Health & Safety Manager
(405) 478-4643 Ext. 130 (O)
(405) 478-2034 (F)

cc: Chris Williams, OCD Hobbs District Office
Clay Osborn

CHAPARRAL ENERGY, INC.

**701 CEDAR LAKE BOULEVARD
OKLAHOMA CITY, OKLAHOMA 73114-7806**

STAGE 1 ABATEMENT PLAN

FOR THE

SOUTH LANGLIE JAL UNIT

**CONSISTING OF PORTIONS OF
SECTIONS 7, 8, 17 & 18
TOWNSHIP 25 SOUTH – RANGE 37 EAST
LEA COUNTY, NEW MEXICO**

23 March 2001

**Stage 1 Abatement Plan for the South Langlie Jal Unit
Sections 7, 8, 17 & 18-T25S-R37E, Lea County, NM**

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**Stage 1 Abatement Plan for the South Langlie Jal Unit
Sections 7, 8, 17 & 18-T25S-R37E, Lea County, NM**

1.0 INTRODUCTION

1.1 EXECUTIVE SUMMARY

Chaparral Energy, Inc. (hereinafter referred to as Chaparral) purchased the New Mexico assets of Bristol Resources Corporation (hereinafter referred to as Bristol) in late October 2000 with an effective date of 1 July 2000. Part of this purchase is the South Langlie Jal Unit (hereinafter referred to as SLJU) located along the northern edge of Jal, New Mexico. The surface owner upon whom this unit rests has reported his water wells have "salted out" in the aquifer located just below 45 feet from surface. Tests of his water wells over the years reportedly show a steadily increasing presence of chlorides to the point the water is no longer fit for human or livestock use. The New Mexico Energy, Minerals and Natural Resources Department has thus ordered Chaparral submit an abatement plan to investigate and abate ground water pollution underneath this unit.

1.2 SITE DESCRIPTION

The SLJU consists of parts of Sections 7, 8, 17 & 18 of Township 25 South, Range 37 East, Lea County, New Mexico, more precisely described as the E/2 SW/4, SE/4 and the SW/4 NE/4 of Section 7, the SW/4 of Section 8, the W/2 of Section 17 and the E/2 of Section 18, all lying in Township 25 South, Range 37 East, Lea County, New Mexico. (See Appendix A.1 and A.2)

1.3 SITE MAPS

1.3.1 7.5 Minute Series (1:24,000 Scale) Topographic Map (Composite using parts of the Jal NW Quadrangle and the Jal Quadrangle Maps, both dated 1969 and Photorevised in 1979.). See Appendix A.1.

1.3.2 Field Lease Map with the SLJU boundaries marked. Producing oil wells, saltwater injection wells and known monitoring wells are spotted on this map. See Appendix A.2.

1.4 SITE HISTORY

The SLJU sits in undeveloped rangeland just north of Jal, New Mexico. This area has been productive of oil and natural gas since the 1920's. Prior to the discovery of oil and gas in this area the property had been used as rangeland. Few improvements have been made to the area other than scattered homes, barns, corrals, and other outbuildings needed for ranching and the facilities necessary for oil and gas exploration and production. Adjoining properties, surface and subsurface, have been used in a like manner since this area was settled. From the information provided Chaparral there are at least five waterwells on the property that are, or recently have been, in use. Several other water wells and groundwater monitoring wells are located within a mile of the unit. The Jal Country Club has drilled and developed several water wells to support the vegetation on the country club grounds. These wells lie south of

**Stage 1 Abatement Plan for the South Langlie Jal Unit
Sections 7, 8, 17 & 18-T25S-R37E, Lea County, NM**

Mr. Osborn's home in the southeast corner of Section 18-T25S-R37E, Lea County, New Mexico. To date, accurate and reliable well data on these wells as to their exact location and depth to groundwater has not been seen by Chaparral personnel. Bristol, Apache Corporation, Texaco Exploration and Production, Inc., Penroc Oil Corporation and possibly others have operated the SLJU or individual producing wells within the unit in the past, according to the information at hand.

1.5 SUMMARY OF PREVIOUS INVESTIGATIONS

Starting in January 1999, Cornerstone Environmental Resources, Inc. (hereinafter referred to as CERI), on behalf of Bristol, conducted a Phase II Environmental Assessment of the property. Trenches were dug along the paths of earlier saltwater releases, at abandoned tank battery sites and on other locations that warranted deeper investigation. Soil samples were taken in an attempt to ascertain the length, width and depth of any damage due to brine from pipeline leaks or other sources. Sampling and testing showed some high chloride levels, but it also indicated the damage done was either from much earlier releases (prior to Bristol taking over operations of the unit), releases from off-site or the chlorides could be naturally occurring. Talks were held with the NMOCD to determine the appropriate actions to be taken concerning these discoveries. The NMOCD directed Bristol to determine the source of the brine water thought to have impacted the groundwater or the environment and to perform vertical and horizontal delineation of the contamination by sampling for BTEX, TPH and Chlorides.

In June 1999, CERI conducted a second Phase II Environmental Assessment of the property. Six soil borings were made to depths of 20 to 25 feet to further delineate chloride concentrations at and near the site of a recent pipeline release just north of the SLJU Well #13 WIW. These borings were to ascertain the presence and concentration of BTEX and TPH, if any. BTEX above the detection limit of 20µg/kg was not found in any of the samples analyzed. TPH was found in several places above the detection range of 1 mg/kg. (See Tables attached.) TPH in the diesel range was found only near the surface of Soil Sampling Well #3 and TPH in the gasoline range was found near the surface of Soil Sampling Well #6. Ground water was reportedly not encountered in any soil sampling well.

In January 2000, CERI conducted a third Phase II Environmental Assessment of the property. This time three sites were evaluated for the deeper presence of hydrocarbon contamination. Site 1 was an abandoned oil and gas lease tank battery. A sign at the facility identified the site as the Winters "E" Lease Tank Battery located near the W/2 NE/4 of Section 18-T25S-R37E. All production vessels had been removed and only the battery fence, concrete blocks and some junk iron remained. Site 2 was another tank battery site without production vessels. No lease sign was present to properly identify the lease, but according to the topographic map the location is near the SE/4 SW/4 NE/4 of Section 18-T25S-R37E. Site number 3 was a former flare pit located west of an abandoned tank battery located near the SW/4 SW/4 SE/4 of Section 18-25S-37E and it too had no production vessels. Soil material was found on top of a plastic tarp just west of the pit, indicating contaminated soil had been removed by parties unknown and allowed to bio-remediate in place.

**Stage 1 Abatement Plan for the South Langlie Jal Unit
Sections 7, 8, 17 & 18-T25S-R37E, Lea County, NM**

Samples at Site 1 were analyzed and found to have TPH GRO of 23.1 mg/kg and TPH DRO of 13,900 mg/kg. No BTEX was detected. The positive test came from heavy, dried hydrocarbon contaminated soils that had been scrapped up and piled in the northeast corner of the tank battery pad. This soil reportedly can be dug up and hauled to a proper disposal facility in that it is not very mobile hydrocarbon. Similar type hydrocarbon deposits were found at Site 2 and again no BTEX was detected. Testing in 1999, using EPA Method 8015 Modified, had detected TPH GRO of 1.55 mg/kg and TPH DRO of 4,160 mg/kg from this soil at the surface. Additional testing in June 2000, using EPA Method 418.1, detected TPH in the 8,000 to 8,800 mg/kg range at the surface. A surface sample at Site 3 showed TPH DRO of 24,300 mg/kg, but no BTEX or TPH GRO. Tests were also conducted on the soil that had been placed on the plastic tarp. BTEX, TPH DRO and TPH GRO were not detected. However, TPH using EPA Method 418.1 did detect TPH of 8,700 mg/kg from this source. CERI recommended the top six inches of soil at each site be removed for off-site disposal and the pit be backfilled with clean soil. Bristol and CERI felt that was all that would be necessary to bring these sites into full compliance with NMOCD regulations.

In March 2000, Safety & Environmental Solutions, Inc. (hereinafter referred to as SESI) reportedly conducted an Environmental Site Assessment on behalf of Mr. Clay Osborn, the surface owner. They reportedly made eight test borings around the Winters "E" Lease Tank Battery (SESI Site #1), four test borings at Cornerstone's second site located at SE/4 SW/4 NE/4 of Section 18-T25S-R37E (SESI Site #2) and three test borings near Cornerstone's Site #3 (SESI Site #3) in an attempt to determine the vertical extent of BTEX, TPH and Chloride contamination. Chlorides in soil were alleged to be in excess of 250 ppm to a depth of 45 feet from surface at all locations. The next set of test borings was reportedly made north of the SLJU #3 Water Injection Well and it appears SESI put in 6 bore holes to a depth of 25 feet. Several other sites were mentioned as being visually identified but not yet tested. A final site, which appears to be just south of Mr. Osborn's home, was identified by SESI as a place to install three test borings. From what Chaparral has been told, SESI sampled and tested the known water wells in the immediate vicinity of Mr. Osborn's home for the presence and concentration of chlorides. Reportedly, chloride concentrations ranged from 121 mg/l to 857 mg/l, but data was not provided on a specific well to well basis. Also, a sample of the water used by the City of Jal for watering the country club was analyzed and found to have a chloride concentration of 610 mg/l. Again, exactly which well was tested was not reported. This information is being sought.

2.0 WORKPLAN – SUBSURFACE

2.1 SITE GEOLOGY AND HYDROLOGY

Others have informed Chaparral that much of the site geology and hydrology has already been determined during the course of earlier borings, trenching and sampling of soil and water. According to the surface owner, an environmental firm has already drilled or identified several wells in Sections 7 and 18 of Township 25 South, Range 37 East. Soil and/or water samples have been taken from these wells and these samples have been analyzed for chlorides, BTEX, TPH and other contaminate. There exists the possibility

**Stage 1 Abatement Plan for the South Langlie Jal Unit
Sections 7, 8, 17 & 18-T25S-R37E, Lea County, NM**

hydraulic conductivity, transmissibility and storativity calculations have already been performed, as well as rate and direction of contaminate migration. Chaparral Energy Inc. is under separate cover requesting copies of all such reports on file with the State of New Mexico Energy, Minerals and Natural Resources Department. Once this data is in hand it will be analyzed and a determination made as to what course of action needs to be taken to abate any pollution problem that may have come from SLJU operations.

2.2 VERTICAL & HORIZONTAL EXTENT OF THE POLLUTION

Several test borings apparently have been made throughout the unit area. However, the exact extent of any pollution, both horizontally and vertically, has not been adequately established. The proposed request for information from the state should help determine if chloride contamination extends off-site (off of the SLJU) and how much of the 45 foot aquifer is chloride contaminated. Existing data may also determine the source or sources of any contamination, or at least enable one to make a logical decision on where to drill next.

2.3 MAGNITUDE OF VADOSE-ZONE & GROUNDWATER CONTAMINATION

Vadose-zone contamination has not been determined. No report made available to Chaparral to date mentions a vadose-zone being encountered. It is hoped data on the vadose-zone and groundwater contamination is available in already completed reports. Should data be missing or otherwise unavailable this area shall be addressed in subsequent investigations and reports.

2.4 SUBSURFACE HYDRAULIC PARAMETERS, INCLUDING:

2.4.1 HYDRAULIC CONDUCTIVITY

This has yet to be determined.

2.4.2 HYDRAULIC TRANSMISSIBILITY

This has yet to be determined.

2.4.3 HYDRAULIC STORATIVITY

This has yet to be determined.

2.4.4 RATE OF CONTAMINATE MIGRATION

This has yet to be determined.

2.4.5 DIRECTION OF CONTAMINATE MIGRATION

Previous borings and measurements appear to indicate groundwater is moving to the southeast, possibly from the hills located north and west of Jal, New Mexico. This flow

**Stage 1 Abatement Plan for the South Langlie Jal Unit
Sections 7, 8, 17 & 18-T25S-R37E, Lea County, NM**

crosses the unit and would cause pollution from sources west of the unit to pass underneath the property of Mr. Osborn and the City of Jal, New Mexico. Any proposed test well or wells should help confirm the direction of groundwater flow and the presence, or lack thereof, of chloride, BTEX and hydrocarbon contamination of the aquifer.

2.5 INVENTORY OF WATER WELLS INSIDE THE CONTAMINATED AREA

The true extent of groundwater contamination is not fully known at this time. From previous sampling it appears most all of the water wells underlying Mr. Osborn's surface have chloride concentrations in excess of permissible levels (250 mg/l). The same may possibly be said of the water wells used by the City of Jal, New Mexico in their golf course watering operations. Once the full extent of the contamination of these wells has been determined a more accurate water well count will be made. See the attached table provided by Bristol representatives listing known water wells in the area for a partial listing of water wells with known chloride contamination problems. At present, no reliable data has been seen as to the exact location and depth of any water well in the area. A survey by a licensed land surveyor may be required to accurately determine the location and elevation of all water wells. Water well owners in the area may need to be required to provide well data should said data not be a part of the State of New Mexico's records. A request is being made to the State of New Mexico State Engineer's Office for all data pertaining to water wells in the area. This data shall be incorporated into the initial report filed by Chaparral.

2.6 INVENTORY OF WATER WELLS WITHIN ONE-MILE OF THE PERIMETER OF THE THREE-DIMENSIONAL BODY WHERE THE STANDARDS OF SEC. 4103.B ARE EXCEEDED

The one-mile perimeter of the three-dimensional body where the standards of Section 4103.B are exceeded is not fully known at this time. Further examination of existing records is required to determine this perimeter after which an inventory can be conducted. A partial list of waterwells in the area is attached in the Appendix.

2.7 LOCATION OF SUCH WELLS ACTUALLY AFFECTED BY POLLUTION

A listing of known wells actually affected by pollution is attached to this document. See the Appendix.

2.8 LOCATION OF SUCH WELLS POTENTIALLY AFFECTED BY POLLUTION

Wells potentially affected by pollution is unknown at this time. Once this phase of the investigation is over a list will be prepared.

3.0 WORKPLAN – SURFACE

At the present time no written surface workplan has been prepared. Once this investigation is over and a source, or sources, of possible contamination have been determined a surface

**Stage 1 Abatement Plan for the South Langlie Jal Unit
Sections 7, 8, 17 & 18-T25S-R37E, Lea County, NM**

workplan will be prepared that addresses the pollution of groundwater in the area. Steps are already underway to restore abandoned wellsites and remediate known areas of surface pollution on the SLJU.

3.1 SURFACE-WATER HYDROLOGY

A preliminary assessment of the surface water hydrology on the unit proper indicates a relatively flat surface cut by several shallow northwest to southeast running gullies. No intermittent streams or creeks nor any ponds or lakes are shown on the topographic map for the lands comprising the unit. No lakes, ponds, creeks or streams were seen during the course of a recent physical investigation of the surface, only very shallow and broad areas that can conduct floodwater runoff were seen.

3.2 SEASONAL STREAM FLOW CHARACTERISTICS

There are no streams or creeks on the surface of the unit. Erosional gullies contain flowing water only after heavy rainfall events and even then only for a very short period of time.

3.3 GROUNDWATER/SURFACE WATER RELATIONSHIPS

Based on the maps seen to date, a physical inspection of the property and conversations with those who claim to know the area, surface waters in the form of rainfall tend to soak into the ground very quickly. Just beneath the top soil (mostly sand) is a layer of fractured caliche and limestone, but they allegedly provide little to no protection for the aquifer.

3.4 IMPACT TO SURFACE WATER AND STREAM SEDIMENTS

Any release of produced water onto the surface will have little to no impact upon surface waters and stream sediments. Surface waters are seldom in the area and then only during storm events. There are no streams in the area where excess sediments would be a detriment to the stream.

3.5 MAGNITUDE OF CONTAMINATION AND IMPACTS ON SURFACE WATER

From visual inspections, no surface water exists nearby which can be contaminated.

3.5.1 BIOLOGICAL ASSESSMENT OF FISH

There are no known fish in this area.

3.5.2 BIOLOGICAL ASSESSMENTS OF BENTHIC MACROINVERTEBRATES

There are no known benthic macroinvertebrates in this area.

**Stage 1 Abatement Plan for the South Langlie Jal Unit
Sections 7, 8, 17 & 18-T25S-R37E, Lea County, NM**

**3.5.3 BIOLOGICAL ASSESSMENT OF OTHER WILDLIFE
POPULATIONS**

Any produced water that may be released on the unit lands does not appear to have had any affect on local wildlife. No pools or ponding of saltwater has been seen and surface soils appear to have absorbed any produced water that may have come into contact with the surface. Evaporation in this area is at such a rapid pace that little remains for wildlife to drink or become exposed to should produced waters pond.

4.0 MONITORING PROGRAMS

At the present time Chaparral does not have any monitoring wells in place on this unit. A physical investigation of the unit revealed a monitoring well just north of the SLJU Well #13 WIW. Bristol Resources supposedly put this in after a pipeline release in January 1999. Chaparral has no verifiable data from this well. From other correspondence it appears SESI does have, or at least has had, several monitoring wells located south of the injection well (Well #13) now owned by Chaparral.

4.1 SAMPLING STATIONS

At the present time Chaparral does not have any sampling stations in place on the unit. Bristol did have some sampling trenches and borings made by CERI, but they allegedly were closed. Some test trenches attributable to Bristol were found at several sites and they were not properly closed.

4.2 FREQUENCIES OF SAMPLING

Chaparral has no sampling points at this time. Present plans are to catch soil and water samples from any test wells put in and then properly abandon the well or wells. Soil samples shall be taken and tested where field-testing indicates pollution may exist. Water samples shall be taken and tested regardless of what field-testing indicates. Should these tests prove more work would be necessary then more permanent wells shall be installed and a water-sampling schedule established during the course of any second phase work.

4.3 LABORATORY TESTS TO BE RUN AND ANALYTES

Any planned groundwater-sampling program shall include testing the groundwater for chlorides, bromides and sulfates (Method 300); sodium, magnesium, potassium, calcium and metals (Method 200.7); and alkalinity (Method 310.1).

4.4 QUALITY ASSURANCE PLAN

The quality assurance plan used shall be consistent with the sampling and analytical techniques listed in Section 3107.B of 20 NMAC 6.2, Ground and Surface Water Protection.

**Stage 1 Abatement Plan for the South Langlie Jal Unit
Sections 7, 8, 17 & 18-T25S-R37E, Lea County, NM**

4.5 SITE HEALTH AND SAFETY PLAN

A Site Health and Safety Plan is not needed at this time.

5.0 ACTIVITIES SCHEDULE

A Schedule of Activities is not needed at this time. Once a decision is made as to what is to be done to obtain more information or start abatement, an Activities Schedule will be drawn up and presented to the State of New Mexico for review and comment.

5.1 SUBMISSION OF QUARTERLY PROGRESS REPORTS

A report shall be prepared by Chaparral Energy Inc., or its agent, for submission to the NMOCD within 30 days of the receiving the requested data from the State of New Mexico and from Bristol's attorneys. With said report shall be a recommendation (or recommendations) as to further work deemed necessary.

5.2 SUBMISSION OF FINAL SITE INVESTIGATION REPORT

A final report submission date is unknown at this time, but Chaparral, or its agent, shall submit this report as required by the NMOCD.

6.0 ADDITIONAL INFORMATION

No additional information is provided.

6.1 FIGURES AND SITE DIAGRAMS

No new figures or site diagrams are submitted at this time. New figures and site diagrams shall be submitted after the initial office and fieldwork.

6.2 PHOTOGRAPHS

No photographs are available with this document. The reports submitted after each phase of work is completed should contain photographs as is warranted in the field.

6.3 LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS

This document contains no laboratory reports or chain-of-custody forms. Subsequent reports may contain this material after samples are taken and analyzed.

6.4 APPENDICES

Appendices start on the next page.

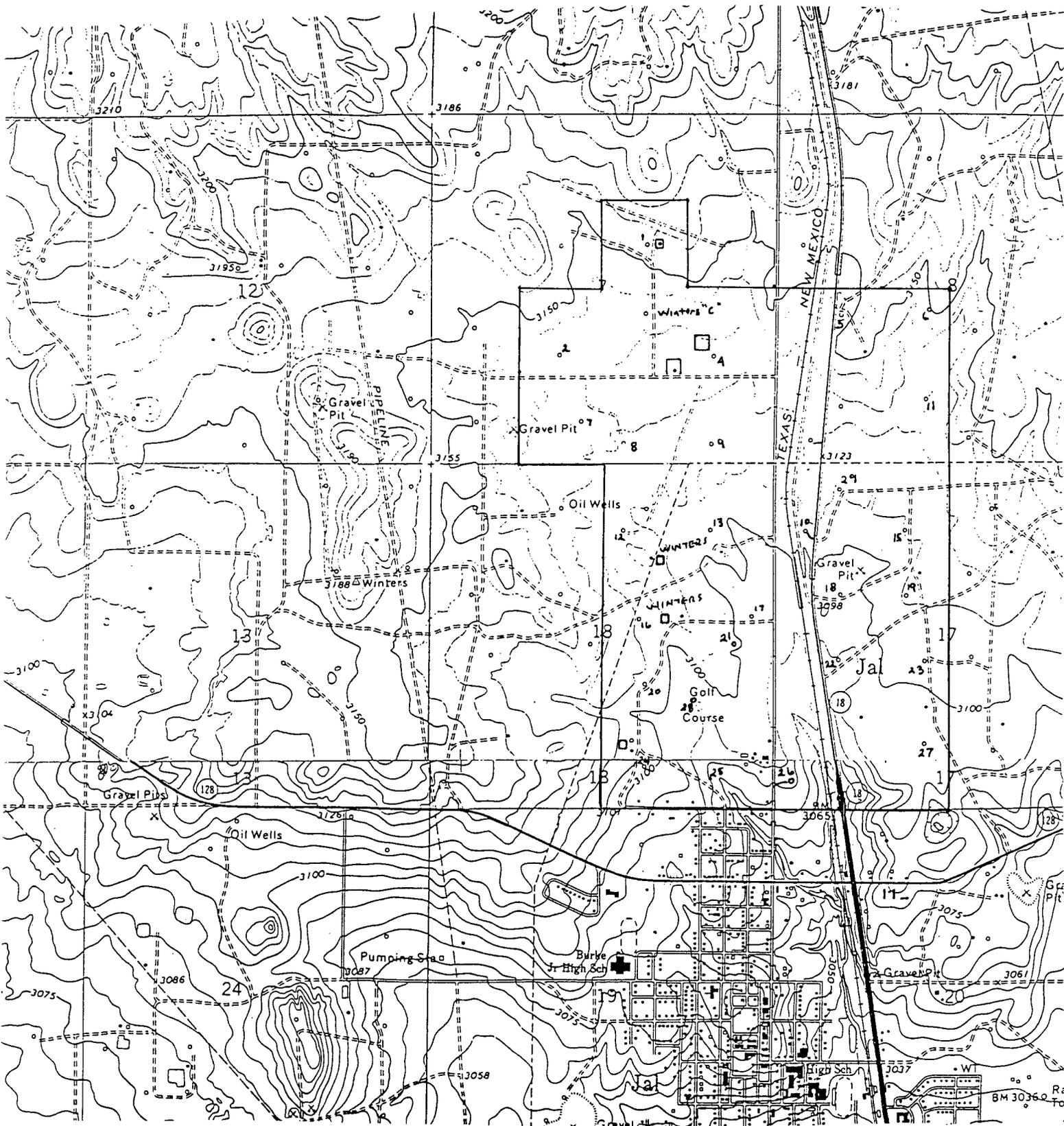
Stage 1 Abatement Plan for the South Langlie Jal Unit
Sections 7, 8, 17 & 18-T25S-R37E, Lea County, NM

APPENDIX A

SITE MAPS

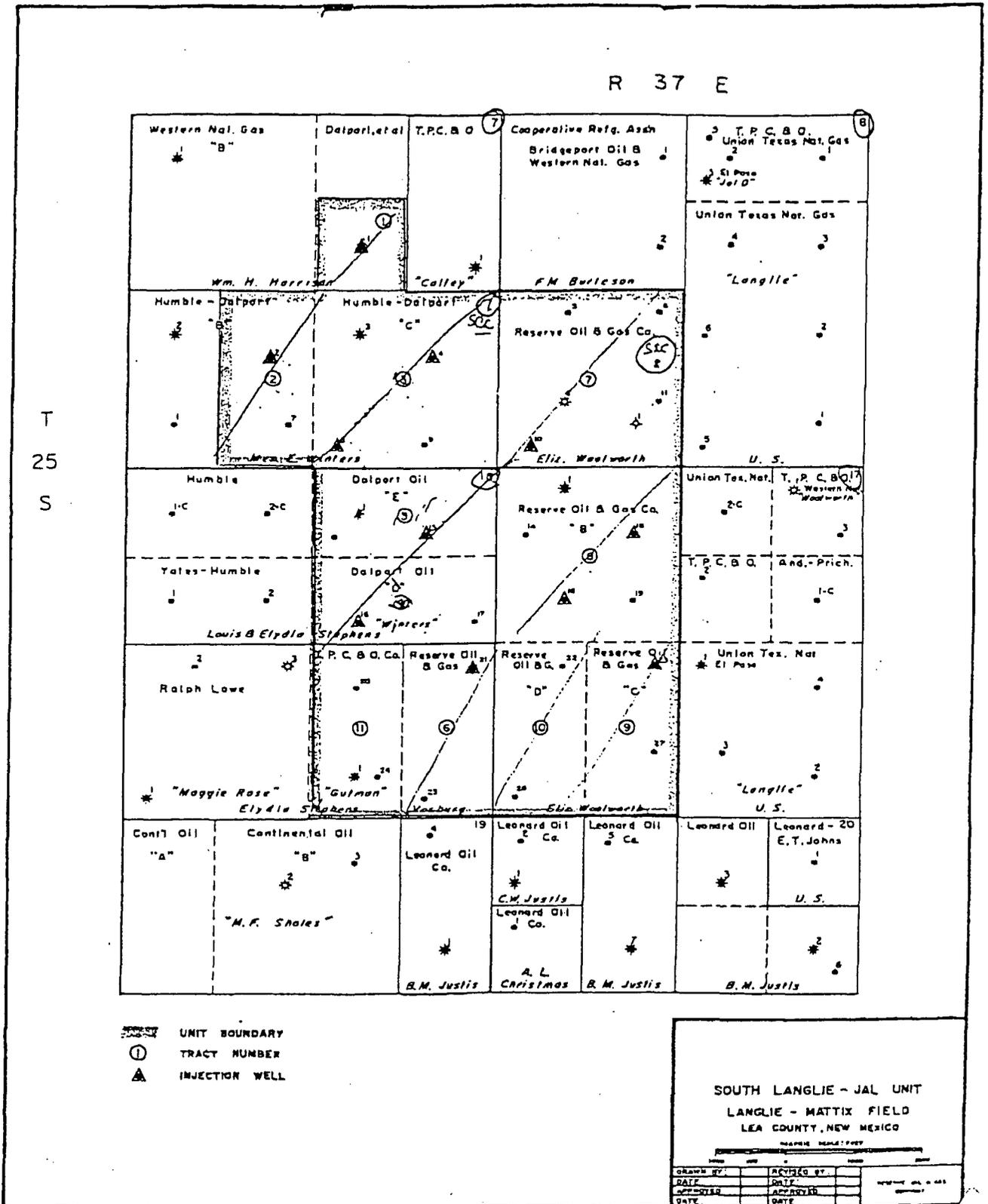
**Stage 1 Abatement Plan for the South Langlie Jal Unit
Sections 7, 8, 17 & 18-T25S-R37E, Lea County, NM**

A.1 - 7.5 Minute Series (1:24,000 Scale) Topographic Map



Stage 1 Abatement Plan for the South Langlie Jal Unit
 Sections 7, 8, 17 & 18-T25S-R37E, Lea County, NM

A.2 - Field Lease Map with the South Langlie Jal Unit Boundaries Marked.



**Stage 1 Abatement Plan for the South Langlie Jal Unit
Sections 7, 8, 17 & 18-T25S-R37E, Lea County, NM**

**APPENDIX B
WATER and MONITORING WELLS**

List of Water and Monitoring Wells in the Vicinity of the Osborn Ranch, Jal, New Mexico (As provided by Bristol representatives from work submitted by Safety & Environmental Solutions, Inc.)

Well Name	Reported Location	Comment
Front House Windmill	NE SE NE NE Sec. 18-T25S-R37E	Owner's Well #4
Main House Well & Jal Country Club MW#11	NE SW NE NE Sec. 18-T25S-R37E	Owner's Well #1
Back House Well	NE SW NE NE Sec. 18-T25S-R37E	Owner's Well #2
Bristol Resources Well	N/2 NE/4 Sec. 18-T25S-R37E	Monitoring Well
Front House Well	NE SE NE NE Sec. 18-T25S-R37E	Owner's Well #5
North Water Well	NW NE SW SW Sec. 18-T25S-R37E	Owner's Well #6 Unused
SW (TX-NM pipeline) Well	E/2 of Sec. 12 or 19- T25S-R37E	Monitoring Well
Jal Country Club MW-3	SE Sec. 18-T25S-R37E	Production & Monitoring Well
Jal Country Club MW-4	SE Sec. 18-T25S-R37E	Production & Monitoring Well
Jal Country Club NE MW	SE Sec. 18-T25S-R37E	Unused Well
Jal Country Club NW MW	SE Sec. 18-T25S-R37E	Unused Well
Jal Country Club Windmill & Jal Country Club MW#18	SE Sec. 18-T25S-R37E	Plugged
Jal Country Club MW-2	SE Sec. 18-T25S-R37E	Production & Monitoring Well
West Water Well	SE Sec. 18-T25S-R37E	Owner's Well #3
Jal Country Club Center MW	SE Sec. 18-T25S-R37E	Unused Well
Section 13 Water Well	NE SE NE NE Sec. 18-T25S-R37E	Owner's Well #7 Unused

Wells 8 through 15, as well as several other wells located at the Jal Country Club, are reportedly registered with the State Engineer Office as Permit CP-473.



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

March 12, 2001

CERTIFIED MAIL
RETURN RECEIPT NO: 5051-4195

Mr. Michael A. Rossiter
Chaparral Oil, LLC
701 Cedar Lake Blvd.
Oklahoma City, Oklahoma 73114

**RE: NOTICE OF VIOLATION
ABATEMENT PLAN (AP-18)
SOUTH LANGLEY JAL UNIT**

Dear Mr. Rossiter:

On October 31, 2000, the New Mexico Oil Conservation Division (OCD) required that Chaparral Oil, LLC. (Chaparral) submit an abatement plan to investigate and abate ground water pollution at Chaparral's South Langley Jal Unit Unit located in Sections 7, 8, 17 and 18 of Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. To initiate the abatement plan process, the OCD required that Chaparral submit to the OCD by December 31, 2000 a Stage 1 Investigation Proposal pursuant to OCD Rule 19.E.1. and 19.E.3. On February 7, 2001, Chaparral e-mailed the OCD and stated that a response would be available by the end of February, 2001.

To date the OCD has not received a Stage 1 Abatement Plan Proposal as required. As a result Chaparral is in violation of OCD Rule 19.E.1. In order to correct this violation, the OCD requires that Chaparral submit a Stage 1 Investigation Proposal to the OCD by March 26, 2001. The proposal shall provide the information required in OCD Rule 19.E.3. Failure to provide a Stage 1 Investigation Proposal will result in issuance of an order requiring compliance with OCD rules and may include imposition of civil penalties.

If you have any questions, please contact Bill Olson of my staff at (505) 827-7154.

Sincerely,

A handwritten signature in cursive script, appearing to read "Roger C. Anderson".

Roger C. Anderson
Environmental Bureau Chief

xc: Chris Williams, OCD Hobbs District Office
Clay Osborn

Olson, William

From: Clay & Jeri Osborn [SMTP:clayjери.osborn@worldnet.att.net]
Sent: Wednesday, February 14, 2001 1:56 PM
To: BILL OLSON
Subject: Chaparral USA

Bill ,
I took some pictures of the SLJU well # 9 flow line leak.
the leak is sotheast of tank



battery.

































NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

February 8, 2001

Clay & Jeri Osborn
P.O. Box 1285
Jal, NM 88252

Dear Mr. & Mrs. Osborn:

In response to your letter dated January 24, 2001, I am writing to let you know that the Oil Conservation Division (OCD) approved the transfer of the South Langlie Jal Unit to Chaparral Oil, L.L.C. on January 31, 2001. The change of operator could not be approved until OCD received additional bonding for inactive wells in the unit.

Please be assured Chaparral Oil, L.L.C. will be required to comply with applicable OCD rules.

Sincerely,

A handwritten signature in cursive script that reads "Lori Wrotenbery".

Lori Wrotenbery
Director

Cc: Chris Williams, District Supervisor
Bill Olson, Environmental Bureau

Olson, William

From: Bob Lang [SMTP:bobl@chaparralenergy.com]
Sent: Wednesday, February 07, 2001 12:58 PM
To: Bill Olson (E-mail)
Cc: Ron Frangione; Mike Rossiter
Subject: South Langlie Jal Unit

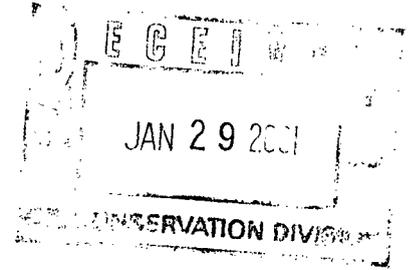
Bill Olson
Hydrologist
New Mexico Oil Conservation Division
Santa Fe, NM

Bill,

This e-mail is in reference to our telephone conversation yesterday regarding the South Langlie Jal Unit Abatement Plan. My plan has been up to the president of the company and he has several questions he wants answered before Chaparral is going to readily commit to doing the work. Obviously, Chaparral just purchased the property and has never been in a position to pollute the surface or the subsurface. In fact, we have ordered our field personnel NOT to use the injection facilities until such time as we can determine what is operational and what is not. We are seeing if there is a way to have Bristol Resources commit to doing this work. Our corporate counsel is moving in that direction. In the mean time, we are attempting to contact all offset operators to see if any work necessary can be shared as opposed to everyone working at odds with their neighbor. Accordingly, we ask for an extension of time to piece all of this together and try to have everyone agree on a common course of action. Nothing will really be properly abated unless all those involved work in concert with one another. I hope to have an answer from all parties concerned by the end of February if at all possible. Should there be a problem with this, please let me know and I will try to get something else started to at least show a good faith effort is being made.

Bob Lang
Environmental, Health & Safety Manager
(405) 478-4643 Ext. 130 (O)
(405) 478-2034 (F)

Clay and Jeri Osborn
P.O. Box 1285
Jal, New Mexico 88252
Phone (505) 395-2510



January 24, 2001

Lori Wootenbery
New Mexico Oil Conservation Division
1220 South St. Francis Drive
P.O. Box 6429
Santa Fe, New Mexico 87505

Re: South Langlie Jal Unit

Dear Lori Wootenbery,

We are in receipt of the letter dated October 9, 2000 from Chaparral Oil, LLC stating that "effective October 1, 2000, Chaparral has assumed operations on all properties previously operated by Bristol". (Exhibit A) This is inclusive of the above referenced South Langlie Jal Unit. (Exhibit B)

According to OCD record of previous C115 reports, Bristol Resources Corporation is the last reported operator submitting reports on the South Langlie Jal Unit on August 2000. (Exhibit C) As per OCD record there has been no activity or C115 filed by Bristol Resources Corporation or Chaparral Oil, LLC.

According to New Mexico Statute, Chaparral Oil, LLC must file as the operator of record after assuming operations. As of January 19, 2001 OCD records continue to reflect Bristol Resources Corporation as operator of record.

We request that the OCD investigate the South Langlie Jal Unit for current operator. We also request that once the current operator is designated that the OCD require that certain operator to comply with all New Mexico Statues. We ask that you reply within 15 days of receipt of this letter.

Sincerely

A handwritten signature in cursive script that reads "Clay Osborn".

Clay Osborn

Cc:
Jennifer Salisbury
Bill Olson
Chris Williams

Chaparral Oil, LLC

October 9, 2000

Re: Bristol Resources Acquisition

Dear Interest Owner:

As you are aware, Bristol Resources Corporation, Bristol Resources 1994 Acquisition Limited Partnership and Bristol Resources Production Company, L.L.C. ("Bristol") were forced into involuntary bankruptcy in April of this year. On September 15th, the United States Bankruptcy Court for the Southern District of Texas in Corpus Christi held an auction and sold virtually all of the assets owned by Bristol to Chaparral Oil, L.L.C. and CEI Bristol Acquisition, L.P. ("Chaparral"). This sale was approved by order of the court dated September 18 and closing took place on September 27.

We have already received a number of calls regarding the status of revenues due by Bristol to interest owners at the time of the bankruptcy filing. Be advised that part of our agreement provides that all of these past due revenue payments are to be paid in full. The order of the bankruptcy court states, "Payment of amounts to cure defaults pursuant to section 365(b) of the Bankruptcy Code will be made by the Debtors in connection with the assumption and assignment of the Assigned Contracts under the Sale Agreement. All accrued but unpaid lessors' royalties, overriding royalties and/or payables to working interest owners as of the Effective Date not the subject of suspense (excluding those subject to the Temporary Restraining Order and Preliminary Injunction entered by the Court on August 21, 2000 in Adversary Proceeding No. 00-2100) shall be paid by the Debtors as soon as practicable after closing from the purchase price tendered by Buyer." In short, this means that in virtually all cases Bristol will be paying all past due revenues in the very near future.

Pursuant to the terms of the sale order, the effective date of the sale is July 1, 2000. Chaparral has assumed all existing joint operating agreements and pursuant to the terms of the bid procedures and the sale order approved by the court, effective October 1, 2000 Chaparral has assumed operations on all properties previously operated by Bristol.

Chaparral is a stable, independent oil and gas producer that currently operates approximately 1,000 wells in the mid-continent and west Texas areas of the United States. We have a full staff of qualified professionals to handle all issues relating to the development and operation of the properties acquired from Bristol. It is our goal to review each and every property in detail and determine the best approach to fully exploit its fullest potential. While it will take some time to complete such a review, be assured that the process is already underway.

We are well aware of the many problems and frustrations encountered by each of you in the recent past regarding your interest in properties operated by Bristol. It is our desire to prove ourselves as the competent operator that we are and provide the service you each deserve with respect to your interest. We look forward to a long and profitable relationship with you in this regard.

Sincerely,

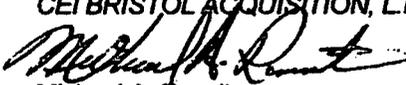
CHAPARRAL RESOURCES, L.L.C.
CEI BRISTOL ACQUISITION, L.P.
Michael A. Rossiter
Land Manager
Acquisitions, Divestitures and Partnerships701 Cedar Lake Blvd.
Oklahoma City, Oklahoma 73114
Phone: 405.478.8770
Fax - Land & Accounting: 405.478.1890
Fax - Geology & Gas Marketing: 405.478.1947

Exhibit B

CHAPARRAL "USA" ENERGY, INC.

(405) 478-8770 (580) 772-1931

OP1 (915) 445-6081

SOUTH PLANGIE JAL UNIT

SW/4 SW/4 SEC. 18-25S-37E

LEA CO., NM WELL NO. 29



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

October 31, 2000

CERTIFIED MAIL
RETURN RECEIPT NO: 5051-3754

Mr. Michael A. Rossiter
Chaparral Oil, LLC
701 Cedar Lake Blvd.
Oklahoma City, Oklahoma 73114

**RE: SOUTH LANGLEY JAL UNIT
ABATEMENT PLAN (AP-18)**

Dear Mr. Rossiter:

The New Mexico Oil Conservation Division (OCD) understands that Chaparral Oil, LLC. (Chaparral) is the current operator of the former Bristol Resources Corporation's (BRC) South Langley Jal Unit located in Sections 7, 8, 17 and 18 of Township 25 South, Range 37 East, Lea County, New Mexico. On August 2, 2000, the OCD required that BRC submit an abatement plan pursuant to 19 NMAC 15.A.19.C.1 for the South Langley Jal Unit to investigate and abate ground water pollution. Enclosed is a copy of the OCD's August 2, 2000 correspondence with BRC.

As the current operator, the OCD requires that Chaparral submit an abatement plan for the South Langley Jal Unit to investigate and abate ground water pollution pursuant to 19 NMAC 15.A.19.C.1. To initiate the abatement plan process, the OCD requires that Chaparral submit to the OCD by December 31, 2000 a Stage 1 Investigation Proposal pursuant to OCD Rule 19.E.1. and 19.E.3. The Stage 1 Investigation Proposal shall be submitted to the OCD Santa Fe Office with a copy provided to the OCD Hobbs District Office.

If you have any questions, please contact Bill Olson of my staff at (505) 827-7154.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief

RCA/wco

xc: Chris Williams, OCD Hobbs District Office
Clay Osborn

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Michael A. Rossiter
Chaperon Oil, LLC
701 Cedar Lake Blvd.
Oklahoma City, OK 73114

2. Article Number (Copy from service label)

5051-3754

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) B. Date of Delivery

AE 11/6/00

C. Signature

X Brooke Kaercher Agent Addressee

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Certified Mail Express Mail
- Registered Return Receipt for Merchandise
- Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

August 2, 2000

CERTIFIED MAIL
RETURN RECEIPT NO: 5051-3389

Mr. Gary Green
Bristol Resources Corporation
6655 South Lewis, Suite 200
Tulsa, Oklahoma 74136

**RE: SOUTH LANGLEY JAL UNIT
ABATEMENT PLAN (AP-18)**

Dear Mr. Green:

The New Mexico Oil Conservation Division (OCD) has reviewed Bristol Resources Corporation's (BRC) July 26, 2000 correspondence which is in response to the OCD's June 15, 2000 request for information on BRC's South Langley Jal Unit located in Sections 7, 8, 17 and 18 of Township 25 South, Range 37 East, Lea County, New Mexico.

A review of the above-referenced correspondence and the documents listed below shows that there are a number of leak and spill sites with contaminated soils related to BRC's Langley Jal Unit operations and that ground water is contaminated in excess of New Mexico Water Quality Control Commission (WQCC) standards directly downgradient of one of the spill sites.

- "PHASE II ENVIRONMENTAL ASSESSMENT, JANUARY 2000 SOIL SAMPLING, ABANDONED TANK BATTERIES; SITE 1, SEC 18, T25S, R37E; SITE 2, SEC 18, T25S, R37E; SITE 3, SEC 18, T25S, R37E; SOUTH LANGLEY JAL UNIT, LEA COUNTY, NEW MEXICO" which was submitted by Cornerstone Environmental Resources, Inc. on behalf of BRC.
- November 19, 1999 "SOUTH LANGLEY JAL UNIT, LEA CO. NEW MEXICO" which was submitted by Cornerstone Environmental Resources, Inc. on behalf of BRC.
- "PHASE II ENVIRONMENTAL ASSESSMENT, JULY, 1999 GROUNDWATER SAMPLING, SOUTH LANGLEY JAL UNIT, LEA COUNTY, NEW MEXICO" which was submitted by Cornerstone Environmental Resources, Inc. on behalf of BRC.

- "PHASE II ENVIRONMENTAL ASSESSMENT, JUNE, 1999 SOIL BORINGS, SOUTH LANGLEY JAL UNIT, LEA COUNTY, NEW MEXICO" " which was submitted by Cornerstone Environmental Resources, Inc. on behalf of BRC.
- undated "PHASE II ENVIRONMENTAL ASSESSMENT, SOUTH LANGLEY JAL UNIT, LEA COUNTY, NEW MEXICO" " which was submitted by Cornerstone Environmental Resources, Inc. on behalf of BRC.
- March 20, 2000 "HYDROGEOLOGY AND GROUNDWATER IN THE VICINITY OF THE OSBORN RANCH, JAL, NEW MEXICO SECTIONS 12 AND 13, T25S, R36E, SECTIONS 7 AND 18, T25S, R37E" which was submitted by Safety & Environmental Solutions on behalf of Mr. Clay Osborn the surface land owner .
- March 20, 2000 "ENVIRONMENTAL SITE ASSESSMENT OSBORN RANCH, SECTIONS 7 AND 18 OF TOWNSHIP 25 SOUTH RANGE 37 EAST, SECTIONS 12 AND 13 OF TOWNSHIP 25 SOUTH RANGE 35 EAST, LEA COUNTY, NEW MEXICO" which was submitted by Safety & Environmental Solutions on behalf of Mr. Clay Osborn the surface land owner.
- June 3, 2000 "SOUTH LANGLEY JAL UNIT PICTURES" which was submitted by Mr. Clay Osborne.

Pursuant to 19 NMAC 15.A.19.C.1, the OCD requires that BRC submit an abatement plan for the South Langley Jal Unit to investigate and abate ground water pollution. To initiate the abatement plan process, the OCD requires that BRC submit to the OCD by October 2, 2000 a Stage 1 Investigation Proposal pursuant to OCD Rule 19.E.1. and 19.E.3. The Stage 1 Investigation Proposal shall be submitted to the OCD Santa Fe Office with a copy provided to the OCD Hobbs District Office. The Stage 1 Abatement Plan Proposal shall include proof of written notice pursuant to OCD Rule 19.G.(1). A listing of "those persons, as identified by the Director, who have requested notification" pursuant to OCD Rule 19.G.(1)(d) will be provided after BRC submits a written notification proposal.

If you have any questions, please contact Bill Olson of my staff at (505) 827-7154.

Sincerely,



Roger C. Anderson
Environmental Bureau Chief

RCA/wco

xc: Chris Williams, OCD Hobbs District Office
Clay Osborn

FAX COVER SHEET

ROCKY TOP RANCH
 CLAY AND JERI OSBORN
 One North Country Club Road
 P.O. Box 1286
 Jal, NM 88252
 Phone number 505-395-2510
 Fax number 505-395-2676

SEND TO Company name OCD	From Clay Osborn
Attention Bill Olson	Date 10/30/00
Office location Santa Fe NM	Office location Jal. N.M.
Fax number 505-827-8177	Phone number 395-2510

Urgent
 Reply ASAP
 Please comment
 Please review
 For your information

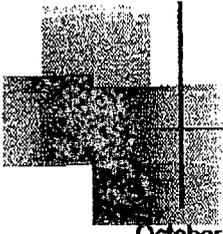
Total pages, including cover: 2

COMMENTS

Bill,

THIS IS A LETTER WE RECEIVED FROM
 CHAPARRAL LLC TODAY

Clay



Chaparral Oil, LLC

October 9, 2000

Re: Bristol Resources Acquisition

Dear Interest Owner:

As you are aware, Bristol Resources Corporation, Bristol Resources 1994 Acquisition Limited Partnership and Bristol Resources Production Company, L.L.C. ("Bristol") were forced into involuntary bankruptcy in April of this year. On September 15th, the United States Bankruptcy Court for the Southern District of Texas in Corpus Christi held an auction and sold virtually all of the assets owned by Bristol to Chaparral Oil, L.L.C. and CEI Bristol Acquisition, L.P. ("Chaparral"). This sale was approved by order of the court dated September 18 and closing took place on September 27.

We have already received a number of calls regarding the status of revenues due by Bristol to interest owners at the time of the bankruptcy filing. Be advised that part of our agreement provides that all of these past due revenue payments are to be paid in full. The order of the bankruptcy court states, "Payment of amounts to cure defaults pursuant to section 365(b) of the Bankruptcy Code will be made by the Debtors in connection with the assumption and assignment of the Assigned Contracts under the Sale Agreement. All accrued but unpaid lessors' royalties, overriding royalties and/or payables to working interest owners as of the Effective Date not the subject of suspense (excluding those subject to the Temporary Restraining Order and Preliminary Injunction entered by the Court on August 21, 2000 in Adversary Proceeding No. 00-2100) shall be paid by the Debtors as soon as practicable after closing from the purchase price tendered by Buyer." In short, this means that in virtually all cases Bristol will be paying all past due revenues in the very near future.

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Sincerely,

CHAPARRAL RESOURCES, L.L.C.
CEI BRISTOL ACQUISITION, L.P.



Michael A. Rossiter
Land Manager
Acquisitions, Divestitures and Partnerships

701 Cedar Lake Blvd.
Oklahoma City, Oklahoma 73114
Phone: 405.478.8770
Fax - Land & Accounting: 405.478.1880
Fax - Geology & Gas Marketing: 405.478.1947

NMPRC Corporation Information Inquiry

- [Follow this link to start a new search.](#)

CHAPARRAL OIL, L.L.C.

(OKLAHOMA Corporation)

SCC Number: **2118057**
Tax & Revenue Number:
Organization Date: **OCTOBER05, 2000, in NEW MEXICO**
Organization Type: **FOREIGN LIMITED LIABILITY**
Organization Status: **EXEMPT**
Good Standing:
Purpose: **NOT REQUIRED**

ORGANIZATION DATES

Taxable Year End Date:
Filing Date: //
Expiration Date:

SUPPLEMENTAL POST MARK DATES

Supplemental:
Name Change:
Purpose Change:

MAILING ADDRESS

701 CEDAR LAKE BLVD OKLAHOMA CITY, OKLAHOMA 73114

PRINCIPAL ADDRESS

PRINCIPAL ADDRESS (Outside New Mexico)

701 CEDAR LAKE BLVD OKLAHOMA CITY OKLAHOMA 73114

REGISTERED AGENT

CT CORPORATION SYSTEM

123 EAST MARCY STREET SANTA FE NEW MEXICO 87501

Designation date: 10/05/00

Agent Post Mark Date:

Resignation date:

COOP LICENSE INFORMATION

Number:

Type:

Expiration Year:

ORGANIZERS

FISCHER, MARK A.

FISCHER JR., CHARLES A.

DIRECTORS

Date Election of Directors:

NMPRC Corporation Information Inquiry

- [Follow this link to start a new search.](#)

CHAPARRAL ENERGY, INC.

In New Mexico Doing Business As:

CHAPARRAL (USA) ENERGY, INC.

(OKLAHOMA Corporation)

SCC Number: 1439793
Tax & Revenue Number: 09200000000
Qualification Date: JULY 13, 1989, in NEW MEXICO
Corporation Type: FOREIGN PROFIT
Corporation Status: ACTIVE
Good Standing: In GOOD STANDING through 3/15/2002
Purpose: OIL & GAS EXPLORATION & PRODUCTION

CORPORATION DATES

Taxable Year End Date: 12/31/99
Filing Date: 04/05/00
Expiration Date:

SUPPLEMENTAL POST MARK DATES

Supplemental:
Name Change:
Purpose Change:

MAILING ADDRESS

701 CEDAR LAKE BLVD OKLAHOMA CITY, OKLAHOMA 73114

PRINCIPAL ADDRESS

NONE

PRINCIPAL ADDRESS (Outside New Mexico)

701 CEDAR LAKE BLVD OKLAHOMA CITY OKLAHOMA 73114

REGISTERED AGENT

MARK VETETO - ME-TEX SUPPLY COMPANY

401 W. TAYLOR HOBBS NEW MEXICO 88240

Designation date: 04/05/00

Agent Post Mark Date:

Resignation date:

COOP LICENSE INFORMATION

Number:

Type:

Expiration Year:

OFFICERS

President *FISCHER, MARK A.*

Vice President *FISCHER, CHARLES A.*

Secretary *NONE LISTED*

Treasurer *NONE LISTED*

DIRECTORS

Date Election of Directors: 03/01/01

FISCHER, CHARLES A 701 CEDAR LAKE BLVD. OKLAHOMA CITY, OK 73114

FISCHER, MARK A 701 CEDAR LAKE BLVD. OKLAHOMA CITY, OK 73114



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

August 2, 2000

CERTIFIED MAIL
RETURN RECEIPT NO: 5051-3389

Mr. Gary Green
Bristol Resources Corporation
6655 South Lewis, Suite 200
Tulsa, Oklahoma 74136

**RE: SOUTH LANGLEY JAL UNIT
ABATEMENT PLAN (AP-18)**

Dear Mr. Green:

The New Mexico Oil Conservation Division (OCD) has reviewed Bristol Resources Corporation's (BRC) July 26, 2000 correspondence which is in response to the OCD's June 15, 2000 request for information on BRC's South Langley Jal Unit located in Sections 7, 8, 17 and 18 of Township 25 South, Range 37 East, Lea County, New Mexico.

A review of the above-referenced correspondence and the documents listed below shows that there are a number of leak and spill sites with contaminated soils related to BRC's Langley Jal Unit operations and that ground water is contaminated in excess of New Mexico Water Quality Control Commission (WQCC) standards directly downgradient of one of the spill sites.

- "PHASE II ENVIRONMENTAL ASSESSMENT, JANUARY 2000 SOIL SAMPLING, ABANDONED TANK BATTERIES; SITE 1, SEC 18, T25S, R37E; SITE 2, SEC 18, T25S, R37E; SITE 3, SEC 18, T25S, R37E; SOUTH LANGLEY JAL UNIT, LEA COUNTY, NEW MEXICO" which was submitted by Cornerstone Environmental Resources, Inc. on behalf of BRC.
- November 19, 1999 "SOUTH LANGLEY JAL UNIT, LEA CO. NEW MEXICO" which was submitted by Cornerstone Environmental Resources, Inc. on behalf of BRC.
- "PHASE II ENVIRONMENTAL ASSESSMENT, JULY, 1999 GROUNDWATER SAMPLING, SOUTH LANGLEY JAL UNIT, LEA COUNTY, NEW MEXICO" which was submitted by Cornerstone Environmental Resources, Inc. on behalf of BRC.

- "PHASE II ENVIRONMENTAL ASSESSMENT, JUNE, 1999 SOIL BORINGS, SOUTH LANGLEY JAL UNIT, LEA COUNTY, NEW MEXICO" which was submitted by Cornerstone Environmental Resources, Inc. on behalf of BRC.
- undated "PHASE II ENVIRONMENTAL ASSESSMENT, SOUTH LANGLEY JAL UNIT, LEA COUNTY, NEW MEXICO" which was submitted by Cornerstone Environmental Resources, Inc. on behalf of BRC.
- March 20, 2000 "HYDROGEOLOGY AND GROUNDWATER IN THE VICINITY OF THE OSBORN RANCH, JAL, NEW MEXICO SECTIONS 12 AND 13, T25S, R36E, SECTIONS 7 AND 18, T25S, R37E" which was submitted by Safety & Environmental Solutions on behalf of Mr. Clay Osborn the surface land owner .
- March 20, 2000 "ENVIRONMENTAL SITE ASSESSMENT OSBORN RANCH, SECTIONS 7 AND 18 OF TOWNSHIP 25 SOUTH RANGE 37 EAST, SECTIONS 12 AND 13 OF TOWNSHIP 25 SOUTH RANGE 35 EAST, LEA COUNTY, NEW MEXICO" which was submitted by Safety & Environmental Solutions on behalf of Mr. Clay Osborn the surface land owner.
- June 3, 2000 "SOUTH LANGLEY JAL UNIT PICTURES" which was submitted by Mr. Clay Osborne.

Pursuant to 19 NMAC 15.A.19.C.1, the OCD requires that BRC submit an abatement plan for the South Langley Jal Unit to investigate and abate ground water pollution. To initiate the abatement plan process, the OCD requires that BRC submit to the OCD by October 2, 2000 a Stage 1 Investigation Proposal pursuant to OCD Rule 19.E.1. and 19.E.3. The Stage 1 Investigation Proposal shall be submitted to the OCD Santa Fe Office with a copy provided to the OCD Hobbs District Office. The Stage 1 Abatement Plan Proposal shall include proof of written notice pursuant to OCD Rule 19.G.(1). A listing of "those persons, as identified by the Director, who have requested notification" pursuant to OCD Rule 19.G.(1)(d) will be provided after BRC submits a written notification proposal.

If you have any questions, please contact Bill Olson of my staff at (505) 827-7154.

Sincerely,



Roger C. Anderson
Environmental Bureau Chief

RCA/wco

xc: Chris Williams, OCD Hobbs District Office
Clay Osborn

**BRISTOL
RESOURCES**

Corporation July 26, 2000

6655 South Lewis
Suite 200
Tulsa, Oklahoma 74136
(918) 492-7900
FAX (918) 492-7944

Mr. William C. Olson
New Mexico Oil Conservation Division
2040 S. Pacheco Street
Santa Fe, NM 87505

Dear Mr. Olson:

Your letter of June 15, 2000 makes several requests of Bristol Resources. Please find enclosed a map that, to the best of my knowledge, answers your request #1.

To answer your #2 request, I would rely on Cornerstone's work for the most detail concerning spill history. I have included a copy of a February 2, 1999 assessment performed by Cornerstone. You may not have this report.

Here are some of my concerns and observations as they pertain to Mr. Osborne's ground water contamination:

1. The background level of fluids in the area may be in excess of 250ppm.
2. Ground water upgradient from Bristol may be in excess of 250ppm.
3. A well operated by Grury Petroleum Management is inside the Jal Unit and is very close to Mr. Osborne's house. This well is not operated by Bristol and therefore Bristol has no control or knowledge as to Grury's operations.
4. The old Winters E battery site is quite possibly Grury's responsibility and not Bristol's. However, Bristol has performed some cleanup at this site.
5. The city of Jal waters the golf course just adjoining the unit year round. The amount of water they use and introduce into the environment below the surface is considerable. A few small leaks on Bristol's part are small, by volume, in comparison to the water put down by the golf course.

These are a few of my concerns and observations. Bristol is sensitive to environmental issues and wants to cooperate with the OCD and any other agency concerning the environment. Our efforts on all our leases to maintain the highest level of operations and awareness to the environment are key to the way we do business.

JUL 31 2000

**BRISTOL
RESOURCES**

Corporation

Bristol will continue to work with the OCD as it pertains to the Jal Unit.

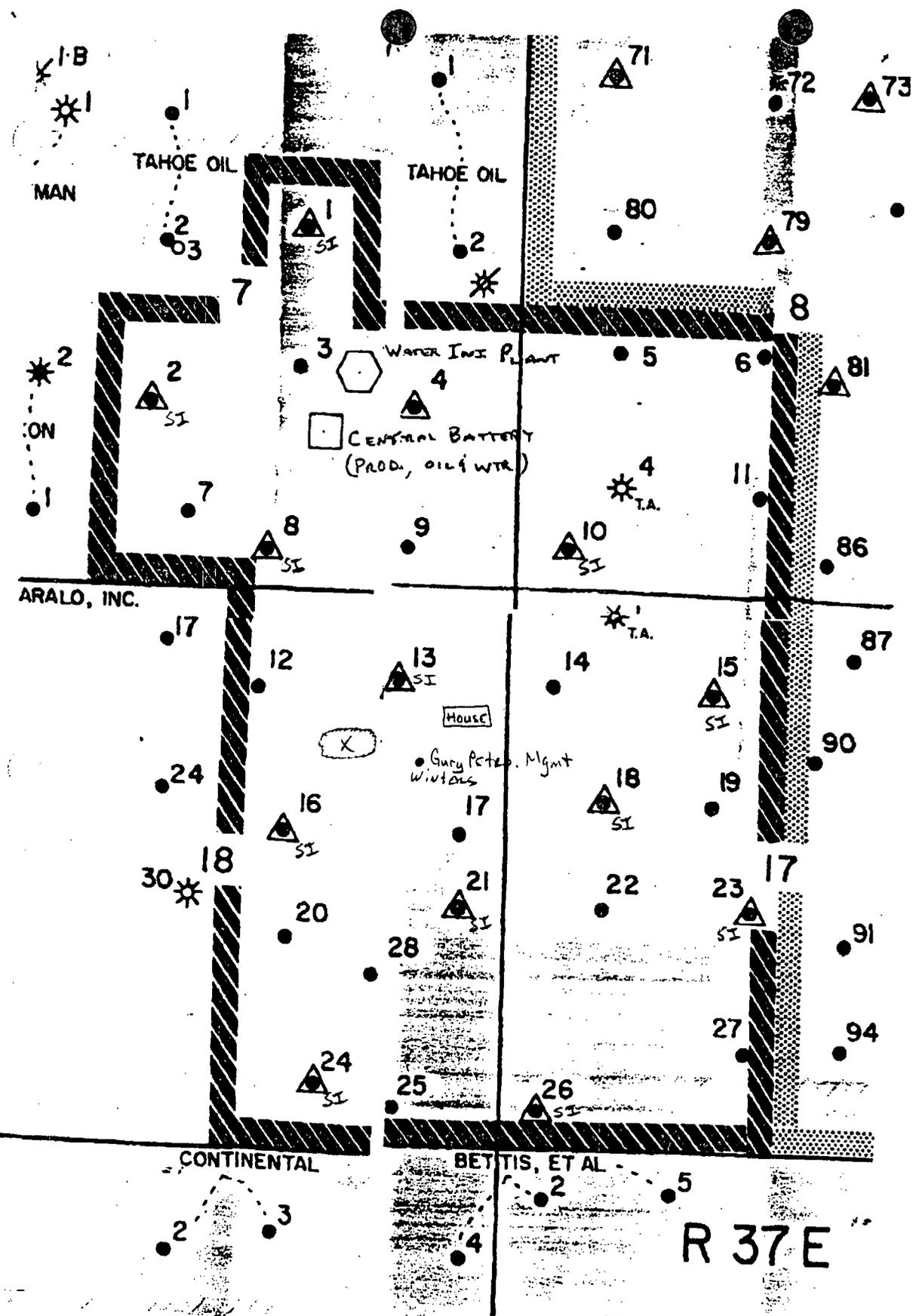
Sincerely,



Gary Green

6655 South Lewis
Suite 200
Tulsa, Oklahoma 74136
(918) 492-7900
FAX (918) 492-7944

GG/lew
Enclosures



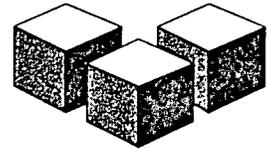
☀️ PRODUCING GAS WELL
 ● PRODUCING OIL WELL

▲ Injection well
 ▲ SI Shut-in, inactive injection well

HOUSE Mr. Osborn's House
 X Old Winters tank battery

GETTY OIL
 SOUTH LANGLI

Cornerstone Environmental Resources, Inc.



February 2, 1999

Bristol Resources Corporation
Mr. Dan Abney
6655 South Lewis
Tulsa, Oklahoma 74136

Re: Phase II Environmental Assessment (EA)
South Langley Jal Unit
Lea County, New Mexico

Cornerstone Environmental Resources, Inc. (CERI) conducted an EA of the subject property located in Lea County, New Mexico on January 18, 1999 at the request of and on behalf of Bristol Resources Corporation (Bristol). The location of the property is shown on the attached Location Map, Figure 1, and Topographic Map, Figure 2. CERI conducted this EA to evaluate the extent of a brine water spill from a leak in an injection line on the subject property. This EA involved a site visit to the field to obtain soil samples to assist in evaluating the vertical and horizontal extent of the salt water leak. Mr. John H. Alderman of CERI met with Bristol's representative Mr. Don Taylor and together they conducted the evaluation of the site.

According to Mr. Taylor, the leak was discovered in January by the land owner. The leak occurred in the injection line going to injection well #13. The location of the leak was just south of well #9 as shown on the attached Figure 2. The land owner was reported to have said that he saw a small stream of water flowing south from the leak area. Mr. Taylor said that the New Mexico Oil Conservation Division (OCD) was notified and that Mr. Gary Wink had conducted an investigation of the incident. The leak was repaired and CERI was contacted to conduct an evaluation of the extent of the spill.

Mr. Bowen was the person who repaired the leak. He said that the leak was in the top of the injection line and that the force of the water from the pipe was upward. After reaching the surface, Mr. Bowen said the water appeared to flow south and form pools in three locations. A backhoe was used to dig seven trenches to obtain soil samples from background areas and from the pooled locations along the reported spill route.

Photo 1 shows the northern most extent of the reported surface movement of the brine. The terrain of the area and the reported route of the water movement can be seen in Photos 2 and 3. Photo 2 was taken looking north from trench 3 toward Well #9 and the leak location. Water movement was reported to have been down the road as seen in Photo 2 and 3. The area identified as Puddle area 3 appears the largest area of water accumulation. Four trenches were dug in Area 3. Area 3 is shown in Photos 3 through 5.

The laboratory results of the tests of soil samples taken from the trenches are shown on Table 1. One surface soil sample was also taken from area 3 and the results of the test for this sample are also shown on Table 1.

Trench 1 was placed approximately 30 feet south east of the pipeline leak. The chloride (Cl) levels in the two samples from Trench 1 were 2 and 8 milligrams/kilogram (mg/kg).

Trench 2 was placed along the flow path in the area identified as Puddle Area 1. The Cl levels from this trench were low and ranged from 3 to 25 mg/kg. The 25 mg/kg sample was taken at a depth of 23 inches and was the interface between the sand and the caliche zones. The soil sample from the bottom of the trench had a Cl level of 8 mg/kg.

Trench 3 was also placed along the flow path in the area identified as Puddle Area 2. The Cl levels increased in this trench with depth. The level at 6 inches was 50 mg/kg. The Cl level increased to 431 mg/kg at 27 inches and 2,270 mg/kg at 46 inches.

Trenches 4 through 7 were all placed in the area identified as Puddle Area 3. This area represented the southern most extent of the surface flow. The Cl levels from all the subsurface samples were in the 3,000 to 4,000 mg/kg range as shown in Table 1. The analysis of the surface sample indicated a Cl level of 14,400 mg/kg.

Our interpretation based on these results is that the majority of the water went up from the surface and then moved down the road toward Puddle Area 3. Very little of the water went down until it reached Area 3. The water did accumulate and some has moved downward. The Cl levels of the subsurface in this area is from 3,00 to 4,00 mg./kg. The main source of the Cl contamination is in the top 2 to 3 inches of soil where a Cl level of 14,400 mg/kg was measured. One complication to analyzing the impact of this spill is the past spill which have occurred in this area. Both Mr. Bowen and Mr. Tyler said that there have been historical line leaks. These historical leaks would have impacted the area. Their effect on our analysis can not be evaluated with out knowing the location and amount of the spills.

We will be talking with the New Mexico OCD personnel to determine the appropriate actions concerning this spill.

Should you have any questions or require further information, please do not hesitate to give me a call at (972) 243-7643. Thank you for this opportunity to provide Bristol with professional environmental consulting services.

Sincerely,
CORNERSTONE ENVIRONMENTAL RESOURCES, INC.



John H. Alderman, P.E.
President

Attachments

Table 1

Analysis of Soil Samples Taken 1/18/1999

Langley Jal Unit

Lea County, New Mexico

	<u>Sample Number</u>	<u>Depth</u>	<u>Chlorides, mg/kg</u>
Trench 1	Sample 011899004	6 inches	2
	Sample 011899005	24 inches	8
Trench 2	Sample 011899006	4 inches	3
	Sample 011899007	23 inches	25
	Sample 011899008	40 inches	8
Trench 3	Sample 011899009	6 inches	50
	Sample 011899010	27 inches	431
	Sample 011899011	46 inches	2270
Trench 4	Sample 011899012	4 inches	3090
	Sample 011899013	24 inches	4420
	Sample 011899014	45 inches	3430
Trench 5	Sample 011899015	8 inches	3530
	Sample 011899016	32 inches	3800
	Sample 011899017	47 inches	3710
Trench 6	Trench not sampled		
Trench 7	Sample 011899001	2 inches	3340
	Sample 011899002	20 inches	4740
	Sample 011899003	40 inches	3570

Note: Depths of Trench 7 were not measured and the depths shown above are the approximate locations of the soil samples.

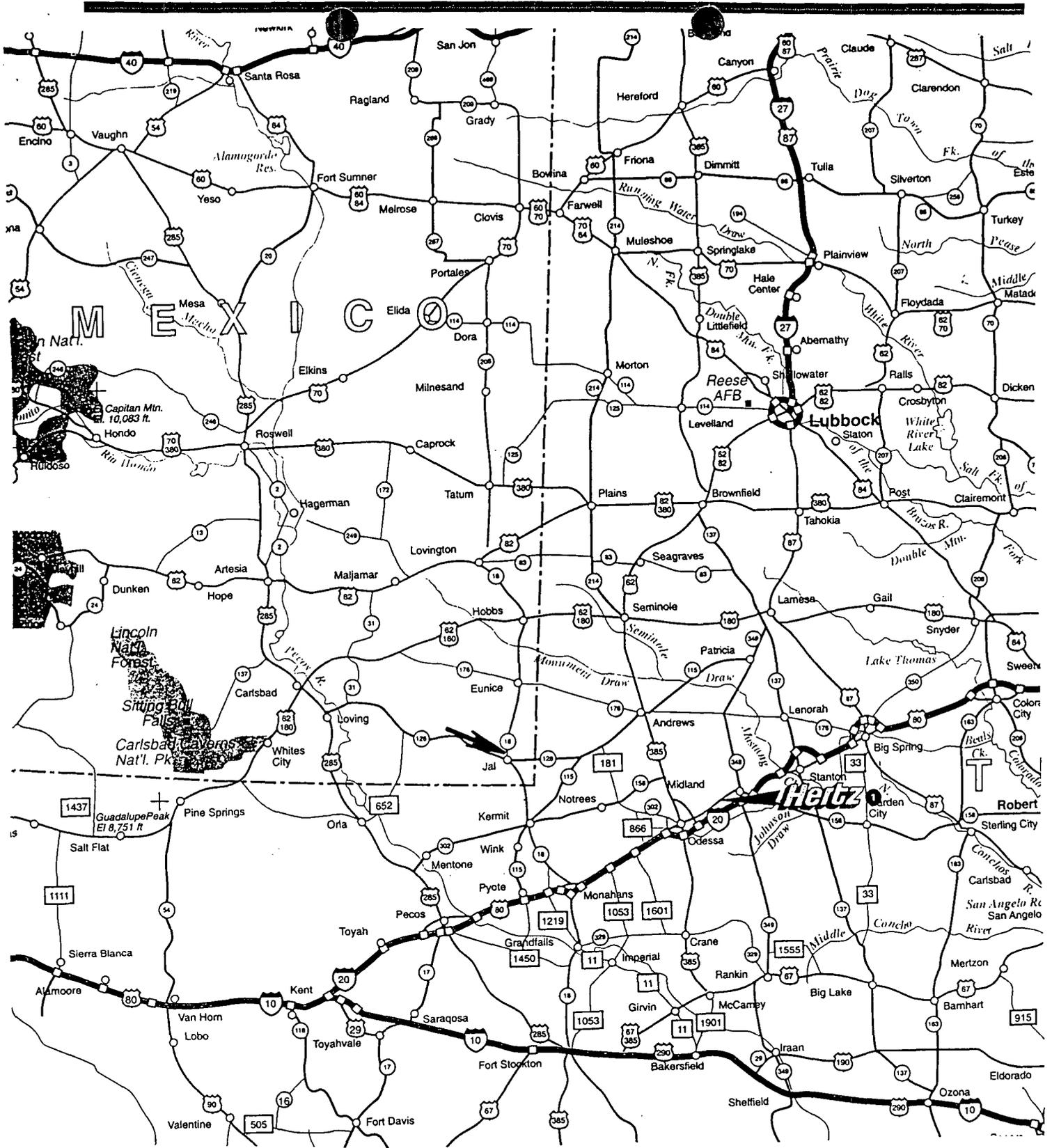


FIGURE 1
LOCATION MAP

Bristol Resources Corporation
South Langley Jal Unit
Lea County, New Mexico

Scale: NONE

Date: 02/99

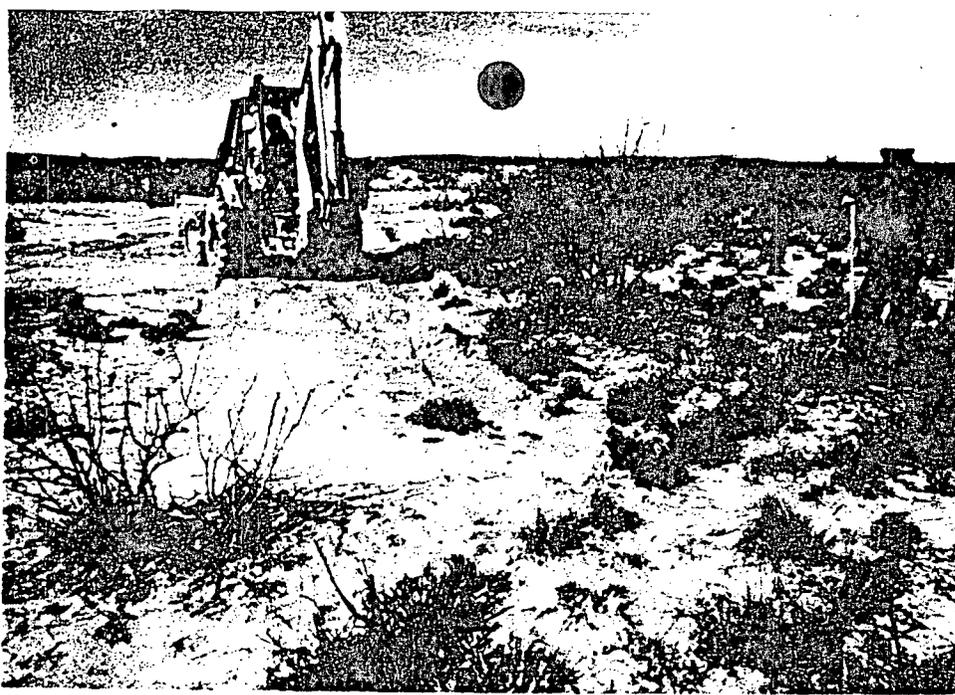


PHOTO 1: Termination of surface movement of brine from the leak in the injection line and site of trench 7.

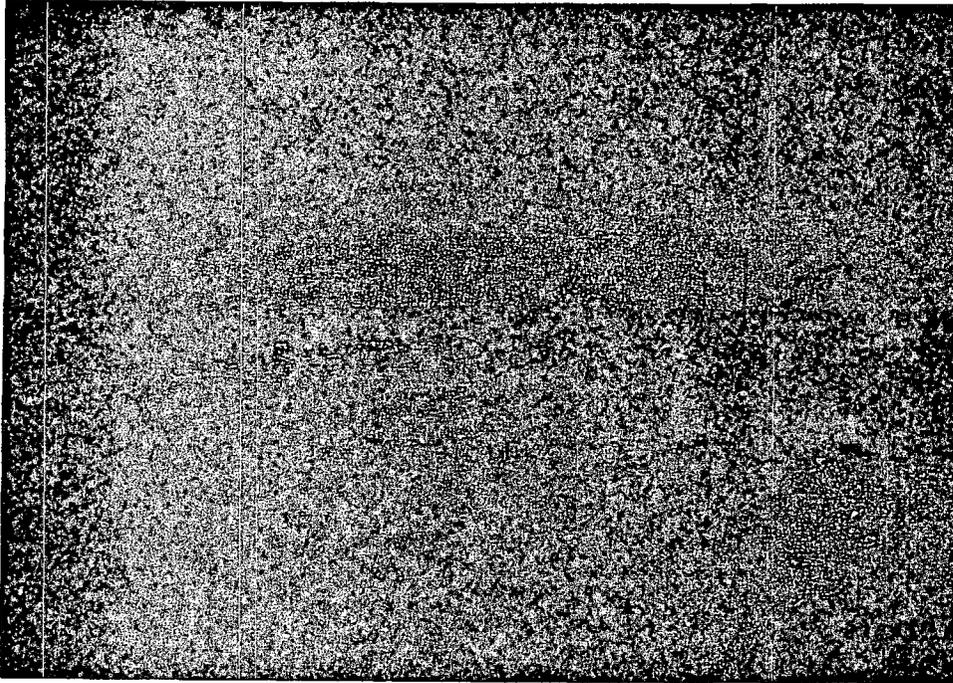


PHOTO 2: Photo taken looking north from trench 3 toward Well #9 and the site of the surface leak.

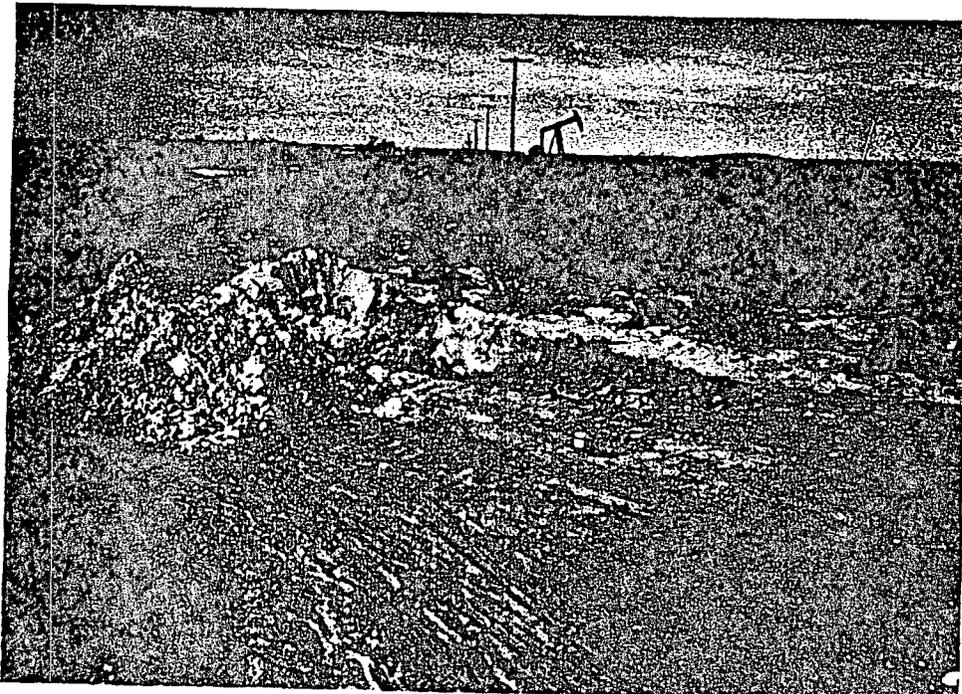


PHOTO 3: Site of trench 4 and north end of puddle area three.



PHOTO 4: Puddle area 3 looking south from trench 5.

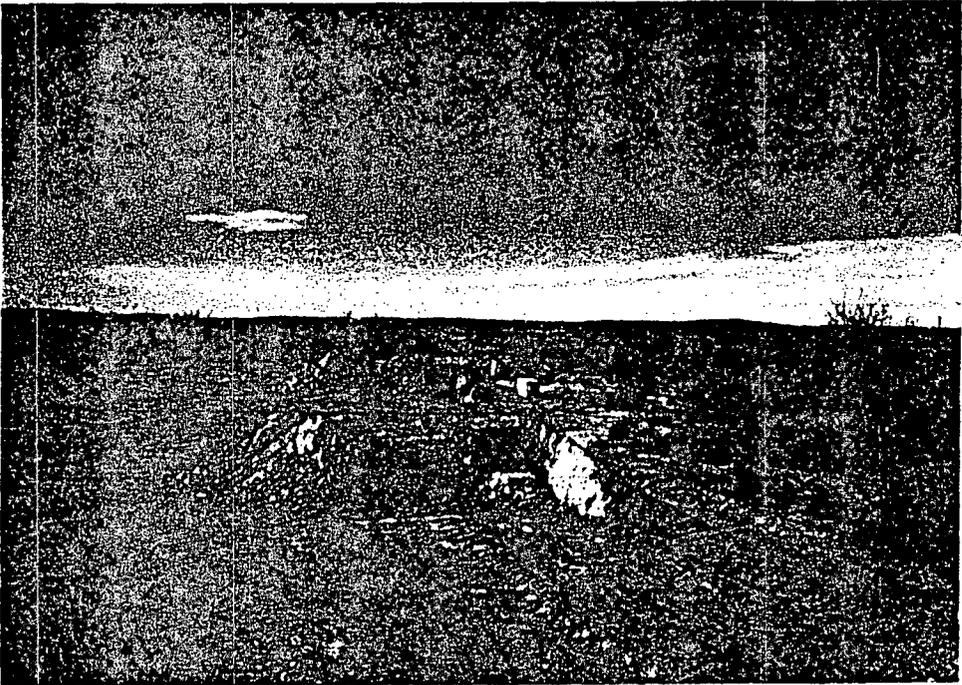


PHOTO 5: Puddle area 3 looking north with trench 6 in foreground.

ROCKY TOP RANCH
CLAY & JERI OSBORN

2/10

ONE NORTH COUNTRY CLUB RD. ♦ P.O. BOX 1285 ♦ JAL, NM 88252
Phone 505-395-2510 ♦ Fax 505-395-2676

June 3, 2000

RECEIVED

RE: South Langlie Jal Unit Pictures

JUN 06 2000

Bill Olson
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

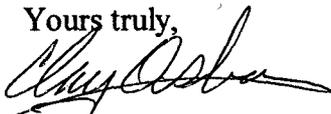
ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Dear Bill,

Thank you and all the others for taking time to come to Jal and our ranch to look at our water problem. Jeri and I enjoyed meeting all of you and having you in our home, you are welcome here any time.

I made you a copy of the Bristol Resources Corp. pictures you wanted. If you need a copy of any of the other pictures you looked at please let me know.

Yours truly,



Clay Osborn

ROCKY TOP RANCH
JAL, NM
CLAY OSBORN



7-3-99

Bristol Resources Pump Station West TANK
Pumper again opened drain Valve and
ran approx. 50-60 bbls Salt water
on ground.
This was another deliberate act.







7-3-99

Bristol Resources Pump Station - EAST TAIL
Pumper opened drain Valve and
ran approx 40 bbls on ground.
This was a deliberate act.







ROCKY TOP RANCH
JAL, NM
CLAY OSBORN



6-10-99
Bristol Resources
Sinkhole west of SLSU Well #9



6-10-99

Bristol Resources
Sinkhole west of Well #9



6-10-99

Bristol Resources
Sinkhole west of SLJU well #9

6-10-99

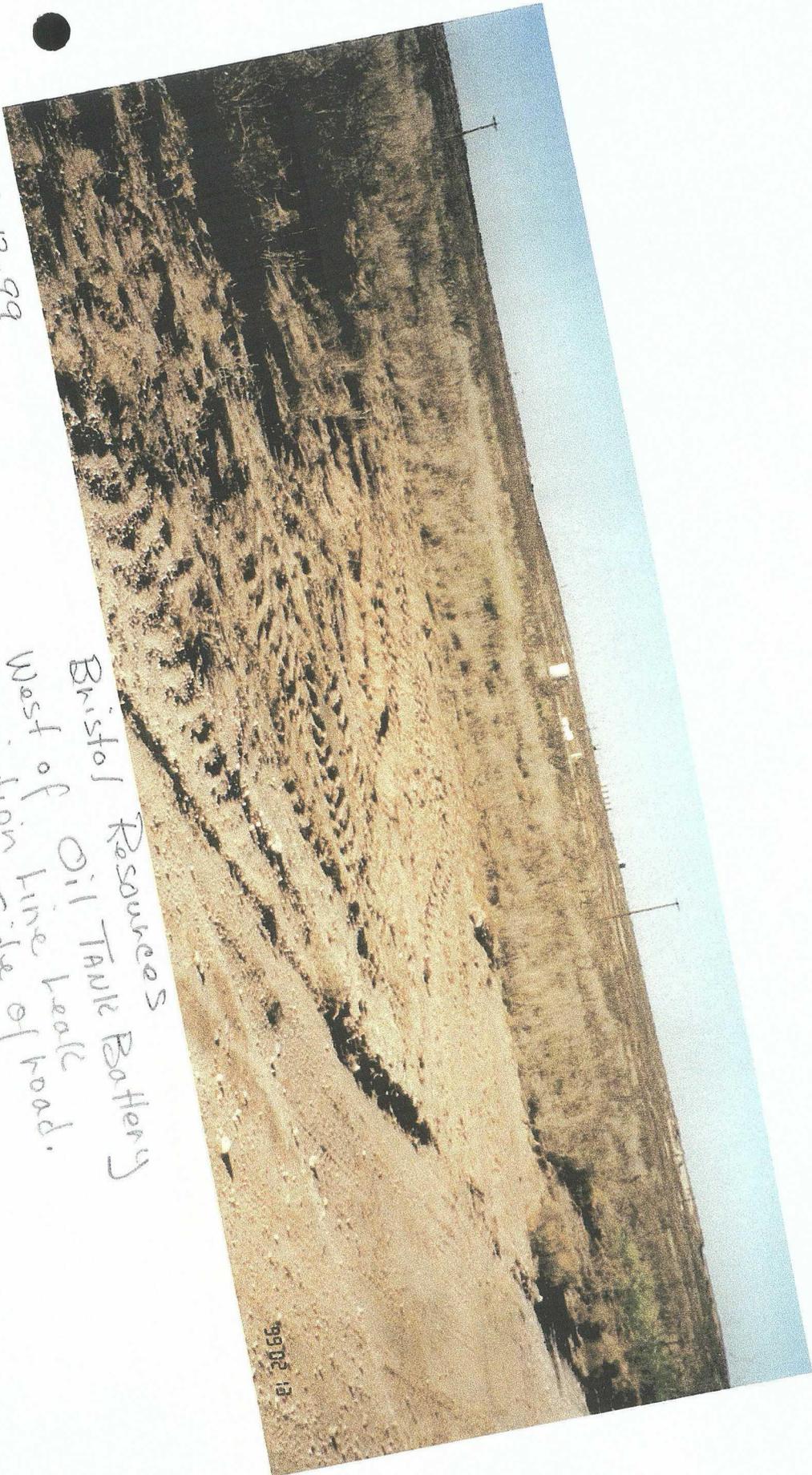
Bristol Resources
Sinkhole west of SL54 Well #9

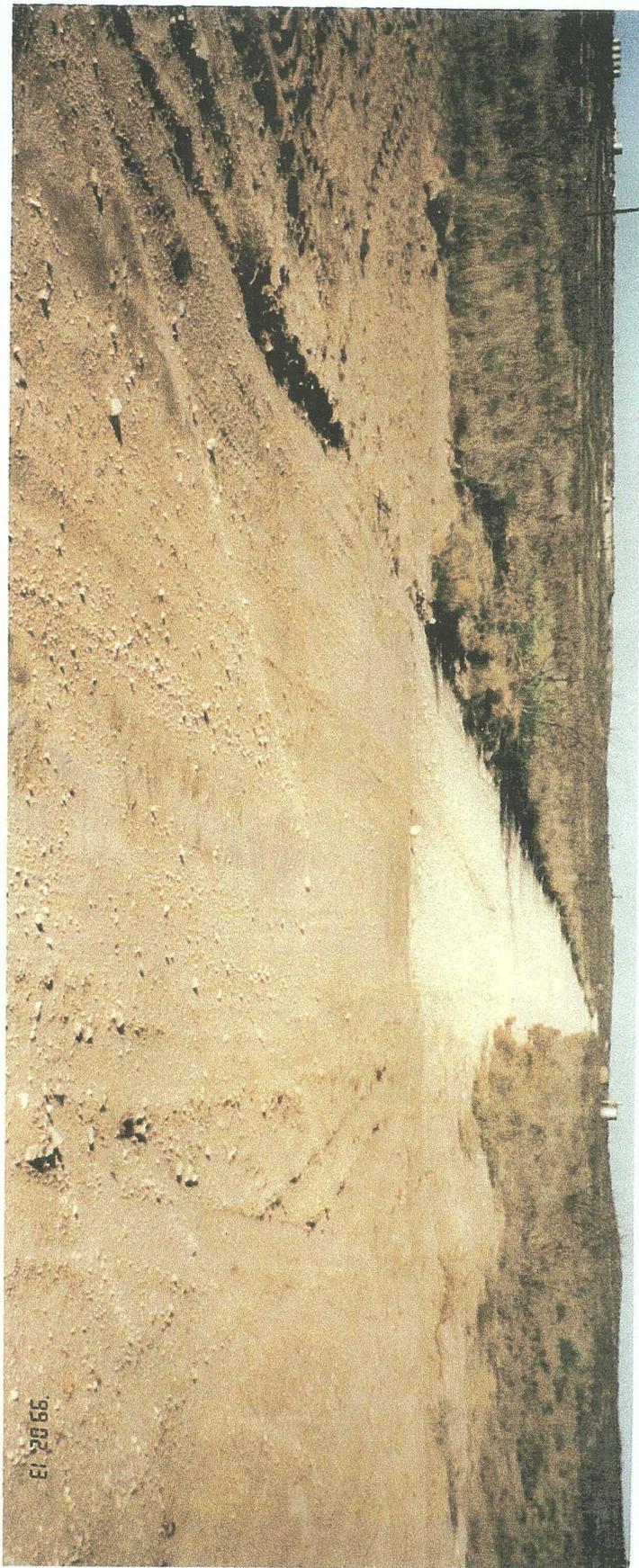


2-13-99

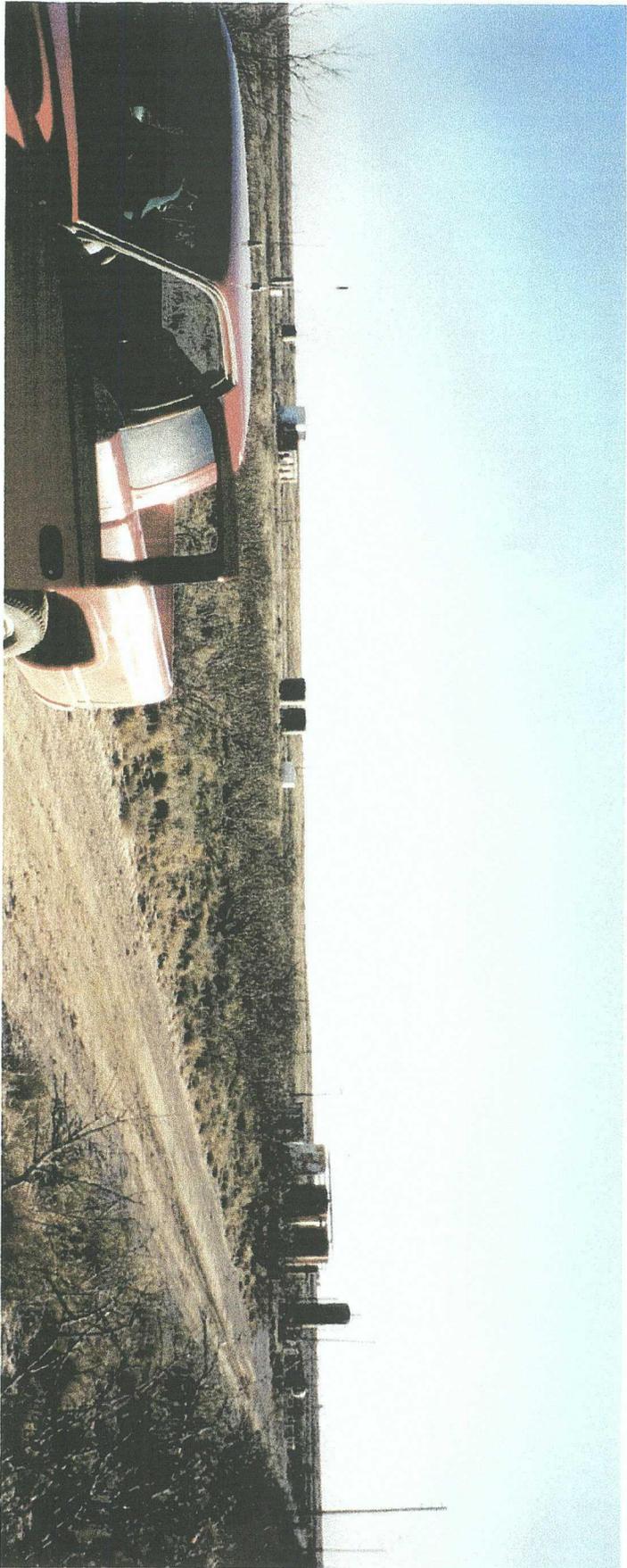
Bristol Resources
Oil Tank Battery
West of
In Section
On South
Side of road.

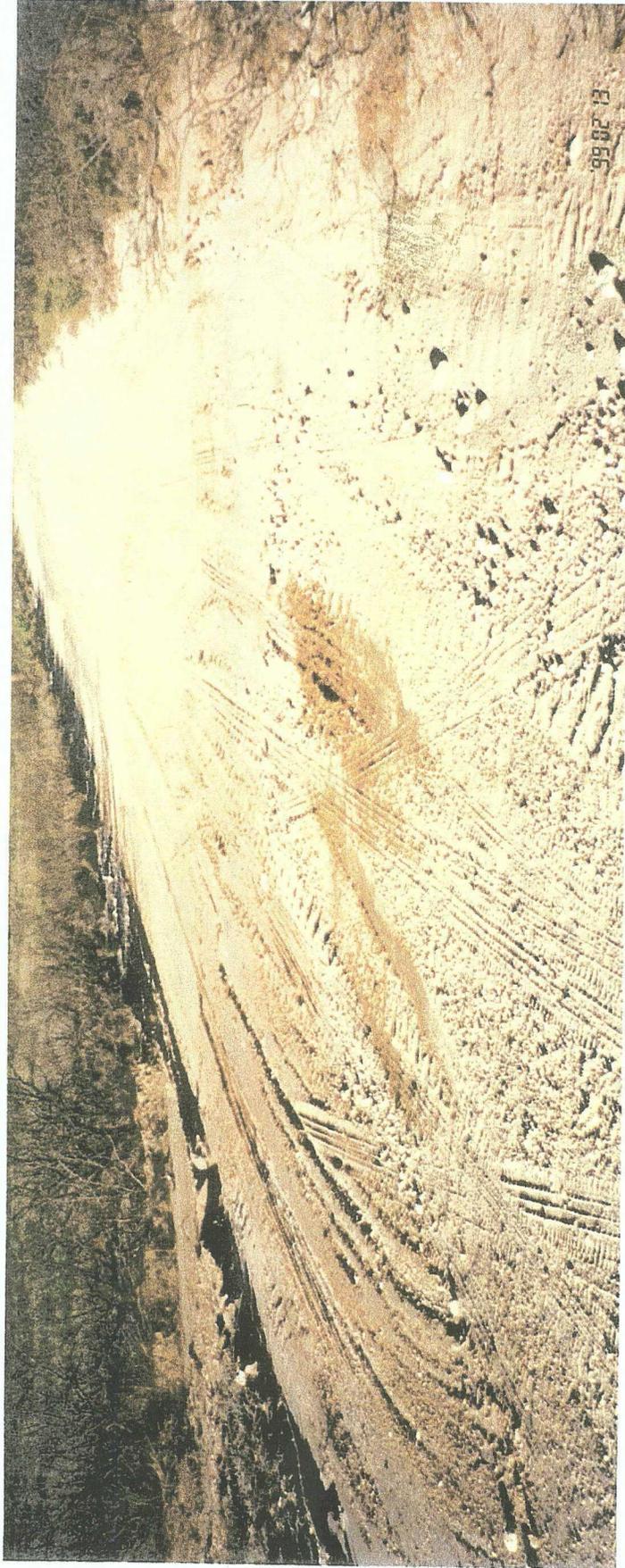
ROCKY TOP RANCH
JAL, NM
CLAY OSBORN





E1 29 66





2866

Bristol Resources
Injection well head South of Road,
South of Pump Station

2-13-99

ROCKY TOP RANCH
JAL, NM
CLAY OSBORN



Bristol Resources.
Injection line leak South of Road,
South of Pump Station

2-13-99



Bristol Resources
Injection line head South of Road,
South of Pump Station

2-13-99



Bristol Resources
Injection Line leak south of Road,
South of Pump Station

2-13-99



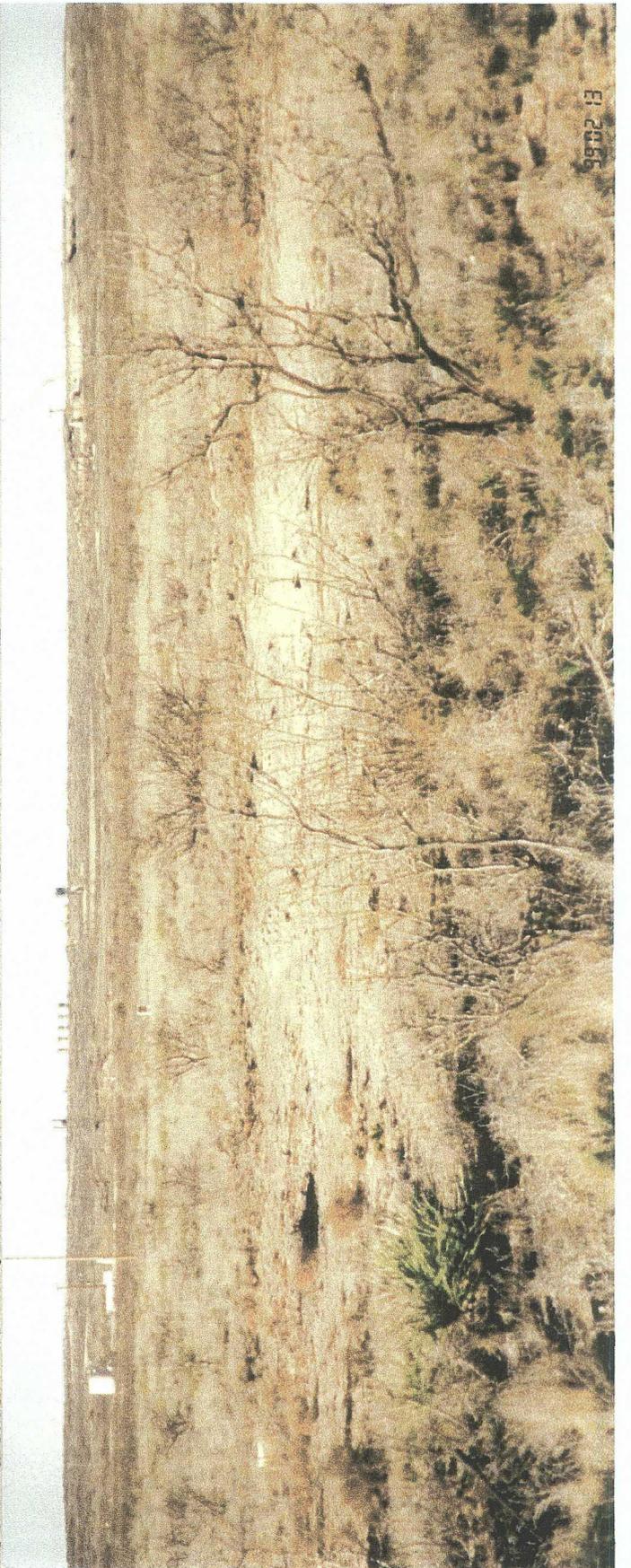
2-13-99

Bristol Resources
Injection Line Leak.
West of Pump Station

ROCKY TOP RANCH
JAL, NM
CLAY OSBORN



01.20.86



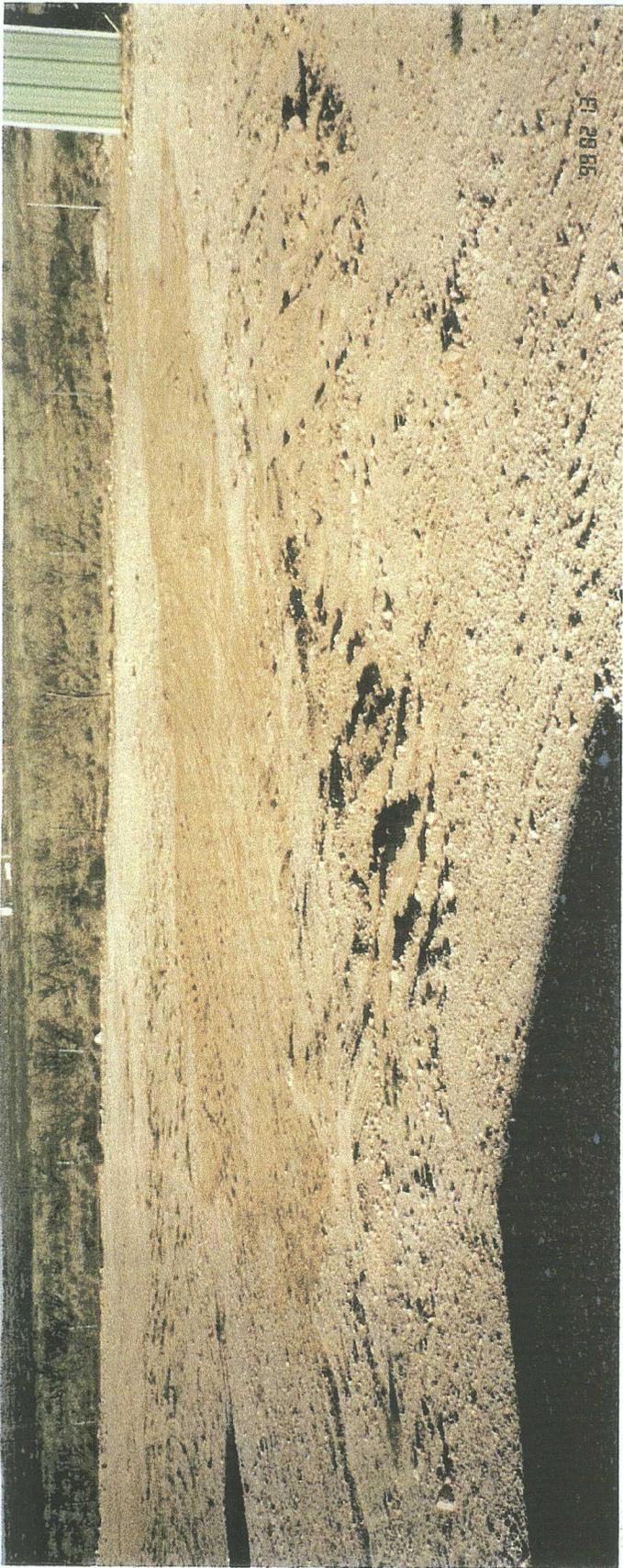
01.20.86



2-13-99

Bristol Resources
Inj. Line Leak at Pump Station
oil Bleed out of Separator

ROCKY TOP RANCH
JAL, NM
CLAY OSBORN





E1 2858

E1 2858

ROCKY TOP RANCH
JAL, NM
CLAY OSBORN



9-1-98 Bristol Resources
Injection Line Leak North of Well #9



Bristol Resources
Injection Line Leak North of Well #9

9-1-98



9-1-98
Bristol Resources
Injection line leak North of well #9



9-1-98

Bristol Resources
Injection line leak North of well #9



Bristol Resources
Injection Line leak North of well #9

9-1-98



4-24-97

Bristol Resources
Injection Line Leak West of Prod. T.B

ROCKY TOP RANCH
JAL, NM
CLAY OSBORN



Bristol Resources
Injection Line Leach West of Prod. T.B.
Before Clean up

4-24-97



Bristol Resources
 Inj line leak, West of Prod. T.B
 Oil = BS Standing after Clean up.

4-24-97



Bristol Resources
 Injection line leak. West of Production Tank Battery
 Oil & BS Standing after clean up.

4-24-97

ROCKY TOP RANCH
JAL, NM
CLAY OSBORN

①



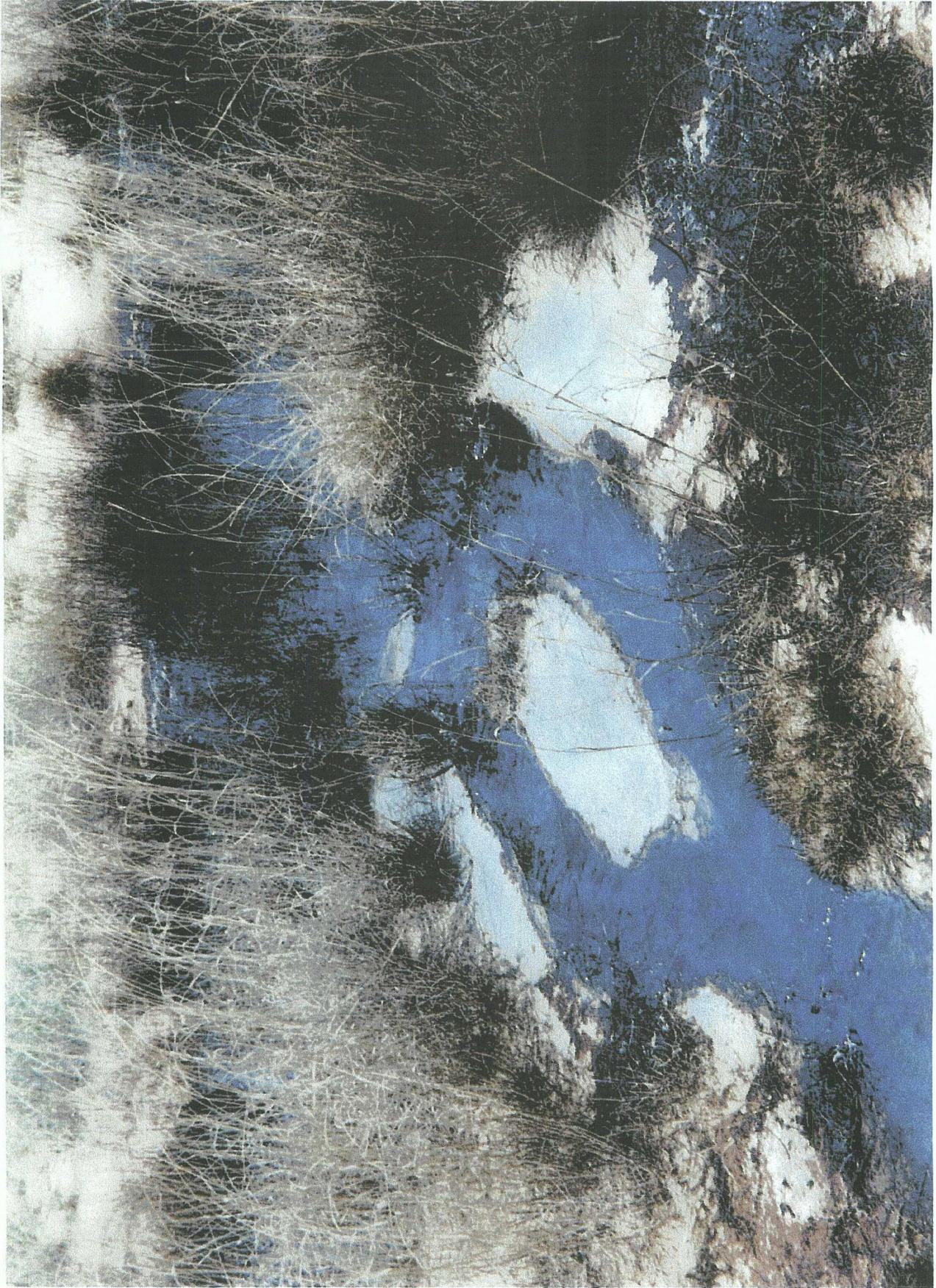
BRISTOL RESOURCES
INJECTION LINE LEAK SOUTH OF WELL #9

5-4-97

2



5



4





6



10



8



9

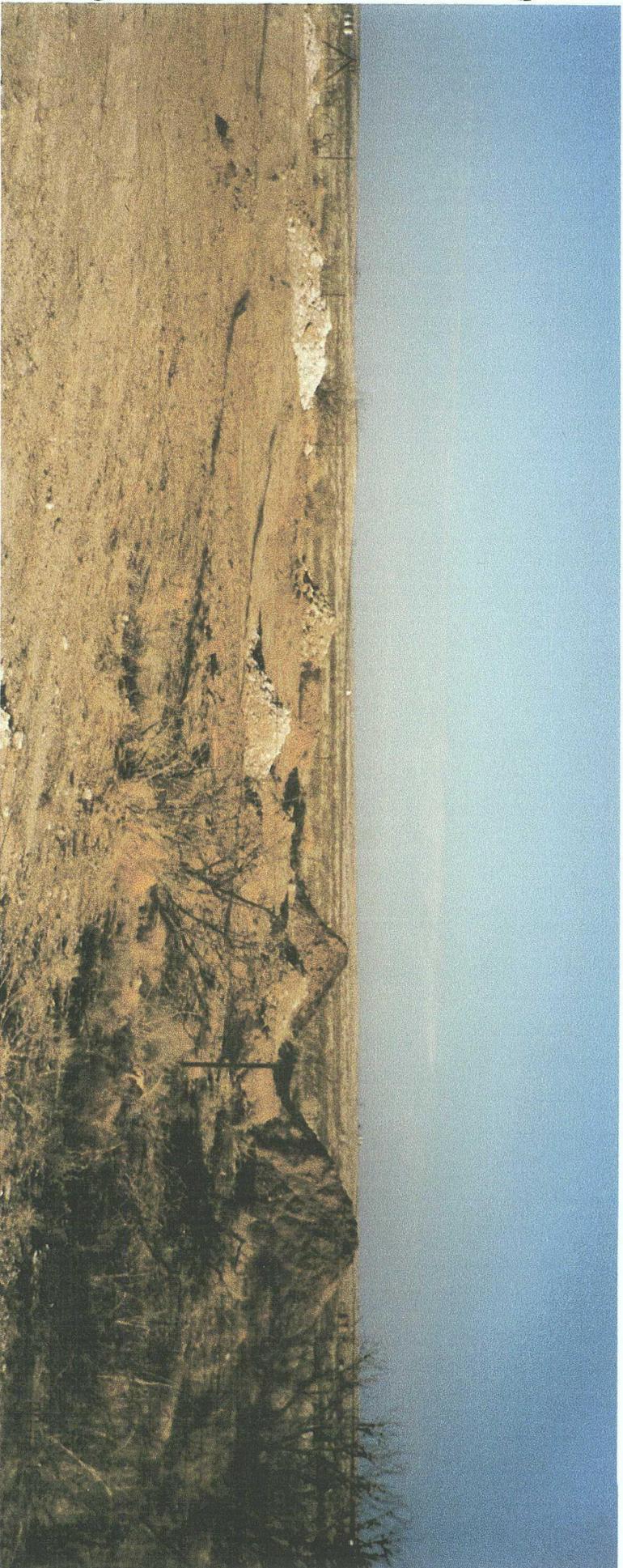


5-5-97

(10)



5-5-97



Bristol Resource

Winters Tank Battery, west of Ranch House, south of Well #12

1-22-00

ROCKY TOP RANCH
JAL, NM
CLAY OSBORN







Olson, William

From: Olson, William
Sent: Friday, June 30, 2000 10:09 AM
To: 'Gary Green'
Subject: RE: South Langley Jal Unit

The below referenced extension request is approved.

From: Gary Green [SMTP:GARYG@bristol-resources.com]

Sent: Thursday, June 29, 2000 1:07 PM
To: Olson, William
Subject: South Langley Jal Unit

Bill, thank you for your call today. I just received your letter of June 15, 2000, it has a June 30, 2000 deadline for request of certain information regarding the referenced unit. I would request an extension of 30 days to your deadline date. Please grant an extension until July 31, 2000. Thank you for your consideration of my request. Should you need anything further, feel free to call me at (918) 523-3024 or by e-mail. Thank you,
Gary Green



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

June 15, 2000

CERTIFIED MAIL
RETURN RECEIPT NO. 5051-3273

Mr. James Knipe
Bristol Resources Corporation
6655 South Lewis, Suite 200
Tulsa, Oklahoma 74136

RE: SOUTH LANGLEY JAL UNIT

Dear Mr. Knipe:

The New Mexico Oil Conservation Division (OCD) is in receipt of the following Bristol Resources Corporation (BRC) documents which were submitted on behalf on BRC by their consultant Cornerstone Environmental Resources, Inc. These documents contain the results of BRC's investigation of contamination at a produced water leak site and 3 tank battery sites within BRC's South Langley Jal Unit.

- "PHASE II ENVIRONMENTAL ASSESSMENT, JANUARY 2000 SOIL SAMPLING, ABANDONED TANK BATTERIES; SITE 1, SEC 18, T25S, R37E; SITE 2, SEC 18, T25S, R37E; SITE 3, SEC 18, T25S, R37E; SOUTH LANGLEY JAL UNIT, LEA COUNTY, NEW MEXICO".
- November 19, 1999 "SOUTH LANGLEY JAL UNIT, LEA CO. NEW MEXICO".
- "PHASE II ENVIRONMENTAL ASSESSMENT, JULY, 1999 GROUNDWATER SAMPLING, SOUTH LANGLEY JAL UNIT, LEA COUNTY, NEW MEXICO".
- "PHASE II ENVIRONMENTAL ASSESSMENT, JUNE, 1999 SOIL BORINGS, SOUTH LANGLEY JAL UNIT, LEA COUNTY, NEW MEXICO".
- undated "PHASE II ENVIRONMENTAL ASSESSMENT, SOUTH LANGLEY JAL UNIT, LEA COUNTY, NEW MEXICO".

The OCD has also reviewed the following documents submitted by Safety & Environmental Solutions on behalf of Mr. Clay Osborn which contain the results of Mr. Osborn's investigation of contamination on the Rocking R Ranch on which the South Langley Jal Unit is located:

- March 20, 2000 "HYDROGEOLOGY AND GROUNDWATER IN THE VICINITY OF THE OSBORN RANCH, JAL, NEW MEXICO SECTIONS 12 AND 13, T25S, R36E, SECTIONS 7 AND 18, T25S, R37E".
- March 20, 2000 "ENVIRONMENTAL SITE ASSESSMENT OSBORN RANCH, SECTIONS 7 AND 18 OF TOWNSHIP 25 SOUTH RANGE 37 EAST, SECTIONS 12 AND 13 OF TOWNSHIP 25 SOUTH RANGE 35 EAST, LEA COUNTY, NEW MEXICO".

The OCD also met with Mr. Osborn at his request on June 1, 2000 and inspected several BRC leak and spill sites and former tank battery locations. A review of the above documents shows that ground water downgradient of BRC's operations, including ground water from Mr. Osborn's private drinking water wells, is contaminated in excess of New Mexico Water Quality Control Commission (WQCC) standards. In addition, the OCD's inspection and Mr. Osborn's documents show that there are several other BRC spill sites upgradient of Mr. Osborn's wells that were not addressed in BRC's environmental assessments.

In light of this information, the OCD requires that BRC submit the following information regarding the South Langley Jal Unit such that the OCD can evaluate potential sources of contamination of Mr. Osborn's wells:

1. A map showing the locations of all current and former producing wells, injection wells, pipelines, water wells, buildings, pump stations, residences, tanks, pits, spills, disposal areas and other pertinent features within BRC's South Langley Jal Unit.
2. A description of each current and former spill, pit and disposal area including the types of materials and volumes lost or disposed at each site.

The above information shall be submitted to the OCD Santa Fe Office by June 30, 2000 with a copy provided to the OCD Hobbs District Office. If you have any questions, please call me at (505) 827-7154.

Sincerely,



William C. Olson
Hydrologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Office
Clay Osborn



STATE OF
 NEW MEXICO
 OIL
 CONSERVATION
 DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

Telephone

Personal

Time 0815

Date 2/29/00

Originating Party

Other Parties

Dave Boyer - Safety & Environmental Solutions
 (505) 281-8591

Bill Olson - OED

Subject

Clay Osborne Ground Water Contamination

Discussion

Discusses chloride contamination of ground water and
 Clay Osborne water wells

They are collecting ground water data

Bristol Resources is operator around Osborne Ranch

Osborne has sued Bristol over contamination. Set for trial
 on approx. 3/7/00

Also contamination at Jal Golf Course, chloride & NO₃⁻
 @ Golf course is mixed with sewage effluent

Conclusions or Agreements

They will provide OED with information on site
 within next 1-2 weeks

Distribution

① Bristol Resources File
 Donna Williams - OED Hobbs

Signed

Bill Olson

STATE OF NEW MEXICO

FACSIMILE TRANSMITTAL SHEET

TO: BILL OLSON	FROM: DONNA WILLIAMS
FAX NUMBER: 827-8177	DATE: 12-29-99
COMPANY: OCD-ENVIRONMENTAL BUREAU	TOTAL NO. OF PAGES INCLUDING COVER: 33
PHONE NUMBER:	SENDER'S REFERENCE NUMBER:
RE: SUBPOENA	YOUR REFERENCE NUMBER: 505-393-6161 EXT...113

URGENT FOR REVIEW PLEASE COMMENT

PLEASE REPLY PLEASE RECYCLE

NOTES/COMMENTS:

Bill,
This is a copy of the subpeona; let me know if I need to do something specific. Thanks

IF YOU HAVE ANY QUESTIONS PLEASE DON'T HESITATE TO CALL (505)- 393-6161 EXT...113

DONNA WILLIAMS

STATE OF NEW MEXICO
FIFTH JUDICIAL DISTRICT COURT
COUNTY OF LEA

CLAY OSBORN and GERALDINE B. OSBORN,
husband and wife,

Plaintiffs,

vs.

CV99-00230C

BRISTOL RESOURCES CORPORATION,
TEXACO EXPLORATION AND PRODUCTION, INC.,
PENROC OIL CORPORATION,
and APACHE CORPORATION,

Defendants.

SUBPOENA

THE STATE OF NEW MEXICO

To: Donna Williams

You and each of you are hereby commanded to be and appear before The Honorable Gary L. Clingman, District Judge, of the Fifth Judicial District in and for the County of Lea, at the time and place listed below to testify in the above-entitled action on behalf of Bristol Resources Corporation:

Date: March 7, 8, and 9, 2000 Time: 8:30 a.m. Location: Lea County Courthouse,
Lovington, New Mexico

WITNESS The Honorable Gary Clingman, Judge of the District Court in and for Lea County, New Mexico, and the Seal of said Court, this 28th day of Feb., 2000.

JANIE G. HERNANDEZ
CLERK OF THE DISTRICT COURT

By [Signature]
Deputy

Attorney Sharon Sandle/Maddox & Holloman, P.C.
Address/Phone P.O. Box 2508, Hobbs, NM 88241 (505) 393-0505



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
DISTRICT I HOBBS
PO BOX 1980, Hobbs, NM 88241
(505) 393-6161
FAX (505) 393-0720

49

Jennifer A. Salisbury
CABINET SECRETARY

December 2, 1999

Mr. James Knipe
Bristol Resources
6655 South Lewis Suite 200
Tulsa, Oklahoma 74136

Re: Locations around the South Langley Jal Unit
UL A, Sec 18, T25S, R37E
UL O, Sec 18, T25S, R37E
UL P, Sec 18, T25S, R37E

Dear Mr. Knipe,

The New Mexico Oil Conservation Division (NMOCD) is in receipt of Bristol Resources (Bristol) August 18, 1999 site assessments performed on the above referenced locations. **The NMOCD hereby approves of the work plans contained in these assessments with the following conditions:**

1. Bristol shall provide the legal locations of each site in future investigation and/or remediation reports (ie. Unit Letter, Section, Township and Range). This information was requested in previous correspondence with Bristol.
2. Bristol shall remediate soil contamination at each site in accordance with the NMOCD's Guidelines for Remediation of Leaks, Spills and Releases.
3. Bristol shall delineate the vertical and horizontal extent of the contamination in accordance with the NMOCD's Guidelines for Remediation of Leaks, Spills and Releases. The delineation can be performed while remediation is in progress.
4. All waste disposed of off-site must receive NMOCD approval prior to disposal.
5. Bristol shall notify the NMOCD at least 48 hours in advance of the scheduled activities such that the NMOCD has the opportunity to witness the events and/or split samples during NMOCD's normal working hours.

Bristol Resources 12-02-99

6. Bristol shall submit information on the location of any landfarming activities to the NMOCD for approval prior to conducting the activities.

If you have any questions or require any further information or assistance, please do not hesitate to call at (505) 393-6161 ext...113 or write this office.

Sincerely,

A handwritten signature in cursive script that reads "Donna Williams". The signature is written in black ink and is positioned above the typed name and title.

Donna Williams
Environmental Engineer Specialist

cc: Chris Williams, NMOCD Hobbs District Supervisor
Roger Anderson, NMOCD Environmental Bureau Chief

**BRISTOL
RESOURCES**

Corporation

November 8, 1999

New Mexico Energy, Minerals,
& Natural Resources Department
Oil Conservation Division
Attn: Ms. Donna Williams
P.O. Box 1980
Hobbs, New Mexico 38241

6655 South Lewis
Suite 200
Tulsa, Oklahoma 74136
(918) 492-7900
FAX (918) 492-7944

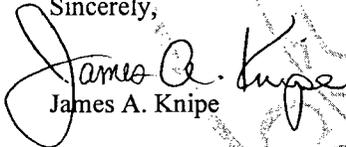
Re: South Langley Jal
Lea Co. New Mexico

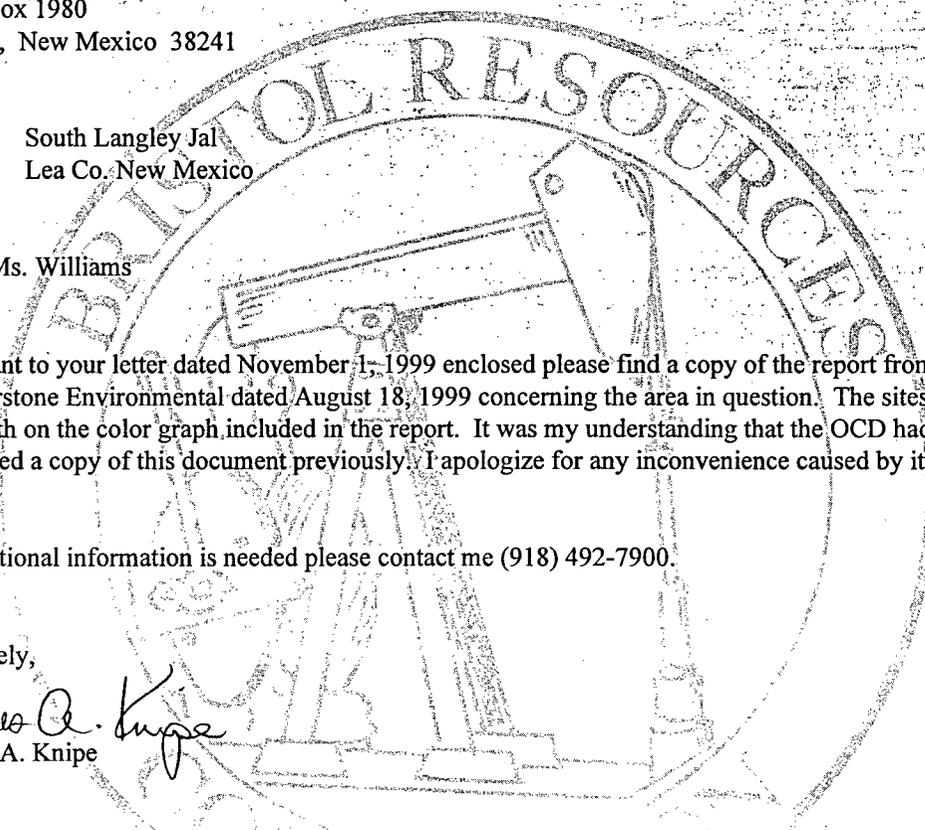
Dear Ms. Williams

Pursuant to your letter dated November 1, 1999 enclosed please find a copy of the report from Cornerstone Environmental dated August 18, 1999 concerning the area in question. The sites are set forth on the color graph included in the report. It was my understanding that the OCD had been provided a copy of this document previously. I apologize for any inconvenience caused by its delay.

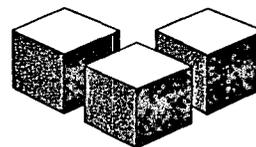
If additional information is needed please contact me (918) 492-7900.

Sincerely,


James A. Knipe



Cornerstone Environmental Resources, Inc.



August 18, 1999

Mr. Dan Abney
Bristol Resources Corporation
6655 S. Lewis, Suite 200
Tulsa, OK 74136

Re: Abandoned Tank Battery Sites
Results of Laboratory Analysis Taken July 20, 1999
South Langley Jal Unit
Lea Co. New Mexico

Dear Mr. Abney,

I was asked by Don Tyler to go with him and Ms. Donna Williams with the New Mexico Oil & Gas Conservation Division to visit three abandoned tank battery sites in the South Langley Jal Unit. The attached Figures show the location of the South Langley Jal Unit and the approximate location of the three sites visited. On July 20, 1999 we visited the sites and Ms Williams pointed out tests she would like to see run and some locations at the abandoned facilities she would like to see tested. On July 20, 1999, Ms. Connie Smith and I took soil samples at the abandoned facilities for analysis. The purpose of this letter is to document the results of those tests.

Site 1 had two out of service storage tanks with a fence around the tanks. A sign at the facility identified the site as the Winters E Lease Tank Battery. Figure 3 is a Site Map of the facility. A heavy tar material that looked like tank bottoms was located in a depression inside the firewall of the battery. The material appeared to be on the north and east side of battery. A backhoe was used to dig a trench on the east side as shown of Figure 1. Six inches of tar material was seen on the side of the trench closest to the tanks and 3 inches of material on the east side of the trench. The ground was soft and the backhoe created deep ruts where it crossed the material. Because the area was soft, only one trench was dug to prevent enlarging the area impacted by the hydrocarbon material. A soil sample was taken and analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX). None of these materials were detected in the sample. Total petroleum hydrocarbons (TPH) were measured based on analysis of gasoline range organics and diesel range organics. The TPH in the gasoline range were 23.1 mg/kg and in the diesel range were 13,900 mg/kg. A copy of the Core Laboratory report on the analysis is attached.

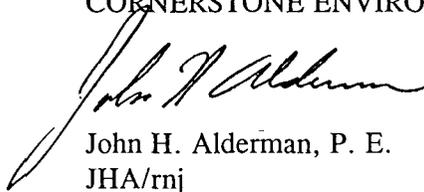
Site 2 shown on Figure 4 did not have any equipment located on the site. There was a built up area present where the storage tanks would have been located. A hard pan of hydrocarbon material was present on the east side of the location. Three trenches as indicated on Figure 4 were dug with a backhoe. A hard hydrocarbon material was seen at the surface where trenches on the east side were dug. There was a hydrocarbon odor in the trench in the southeast corner. The TPH values measured are shown on Figure 4. There were no BTEX compounds measured in any of the samples. The only gasoline range organics measured was 1.55 mg/kg in the sample from the southeast corner. This was the area where an odor was detected. The diesel range organics ranged from 40.2 mg/kg in the southwest corner to 4,440 mg/kg in the northwest corner.

Site 3 appeared to be a former flare pit located to the west of an abandoned tank battery site. Figure 5 is a plot plan showing the location of a pipe from the former tank battery and the location of the samples. Ms. Williams said she would like to have a sample taken from the wall of the pit opposite the pipe and from the bottom of the pit. A sample was also taken from the wall of the pit where the pipe was located. No BTEX nor TPH in the gasoline range was detected in the three samples. A TPH measurement in the heavier organics range was detected in the sample from the east wall and from the center of the pit. The concentration on the east wall was 380 mg/kg and the TPH in the center of the pit was 24,300 mg/kg.

It is our opinion that the material at Site 1 should be removed for treatment or disposal. The material is in a soft semi liquid state which could be problem with live stock when the fence and tanks are removed. We do not believe the material at the other sites offer a threat to environment. We do suggest the hard pan on the east side of Site 2 be broken up and the soil tilled to allow air to contact soil and allow natural bioremediation to occur. The material in the bottom of the pit at Site 3 should be removed from the pit prior to backfilling of the pit. There were no indications of light hydrocarbons in the pit. However bringing the material to the surface prior to backfilling the pit would allow the material to be in contact with the air and permit bioremediation to occur.

If you have any questions concerning the analysis or the recommendations please do not hesitate to call me at 972-243-7643.

Sincerely,
CORNERSTONE ENVIRONMENTAL RESOURCES, INC.



John H. Alderman, P. E.
JHA/rnj

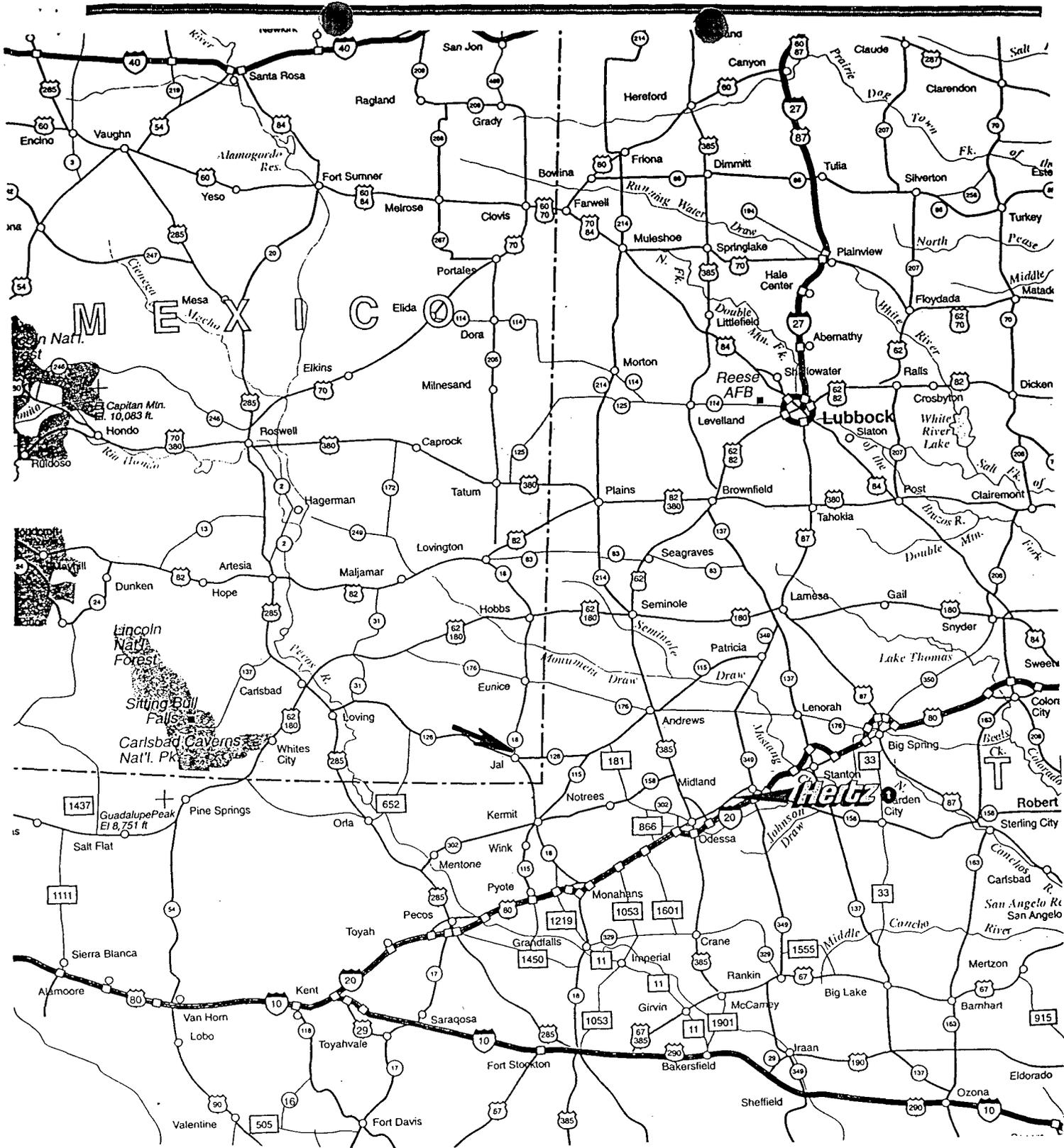
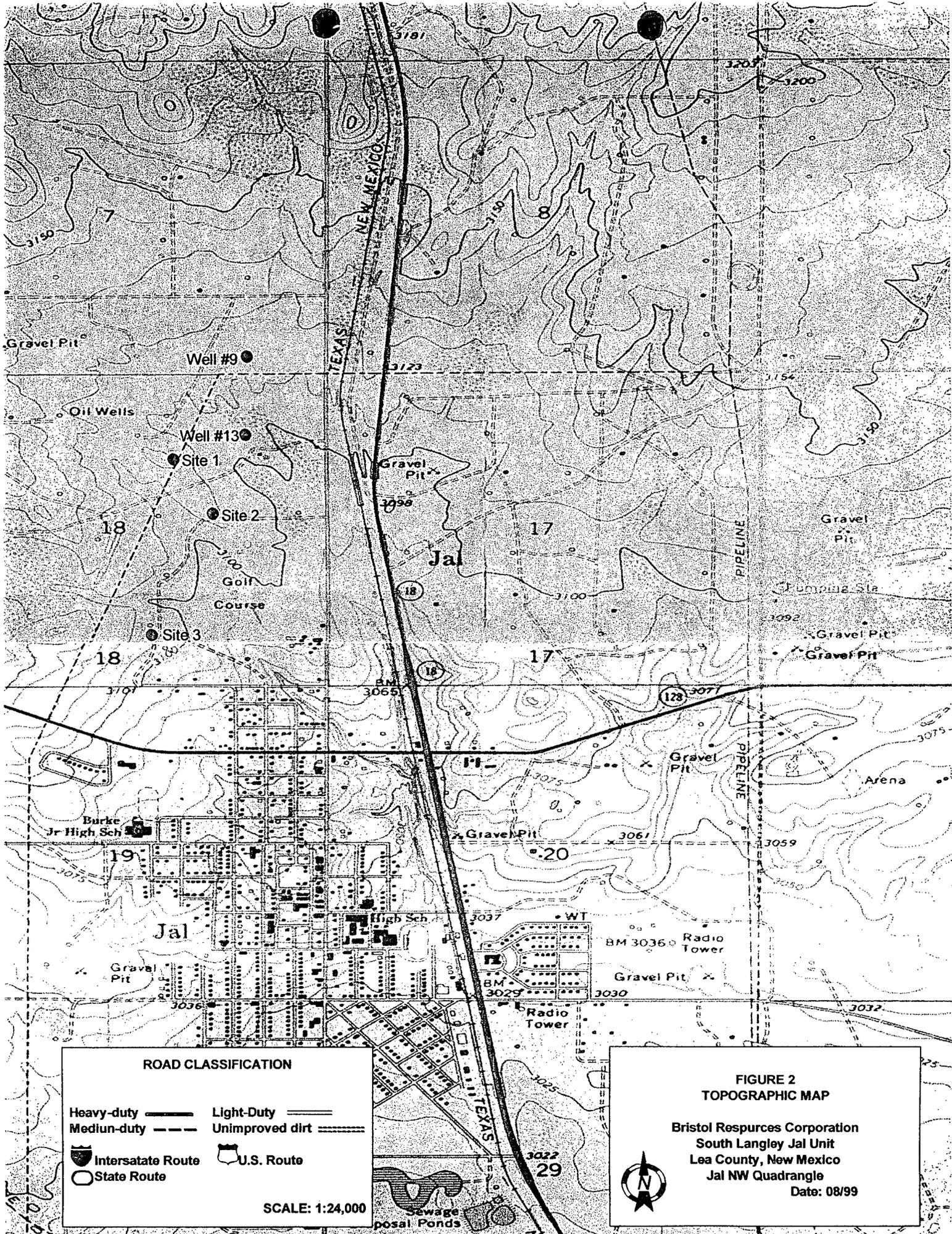


FIGURE 1
LOCATION MAP
 Bristol Resources Corporation
 South Langley Jal Unit
 Lea County, New Mexico
 Scale: NONE Date: 02/99



ROAD CLASSIFICATION

- | | |
|------------------|-----------------|
| Heavy-duty | Light-Duty |
| Medium-duty | Unimproved dirt |
| Interstate Route | U.S. Route |
| State Route | |

SCALE: 1:24,000

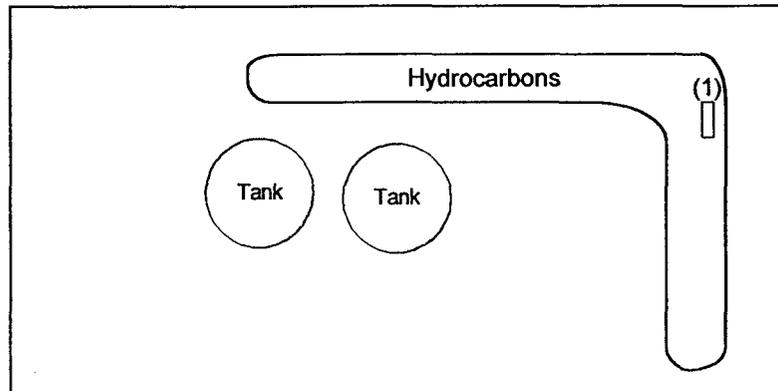


**FIGURE 2
TOPOGRAPHIC MAP**

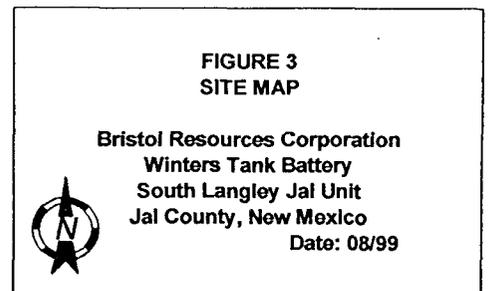
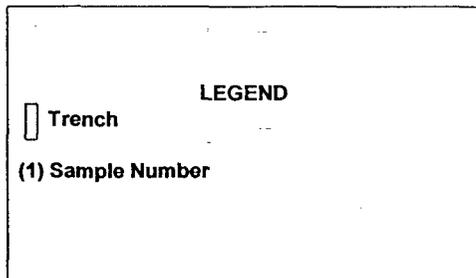
Bristol Resources Corporation
 South Langley Jal Unit
 Lea County, New Mexico
 Jal NW Quadrangle

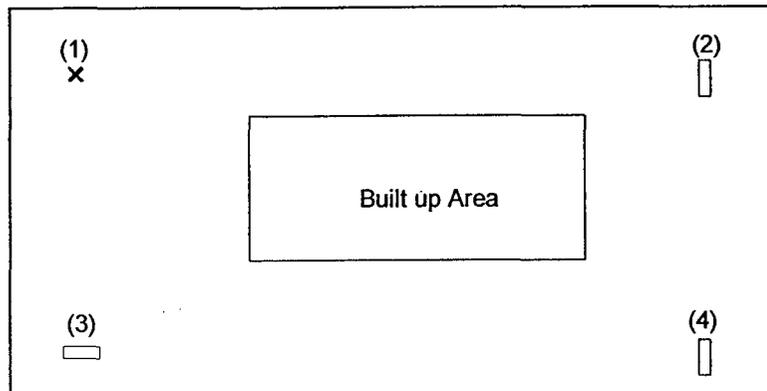
Date: 08/99





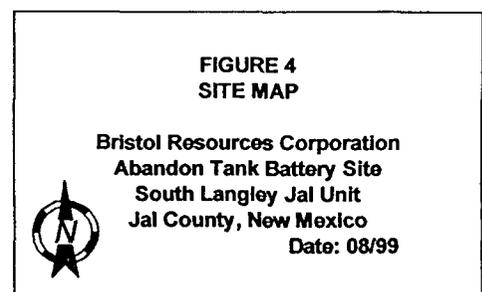
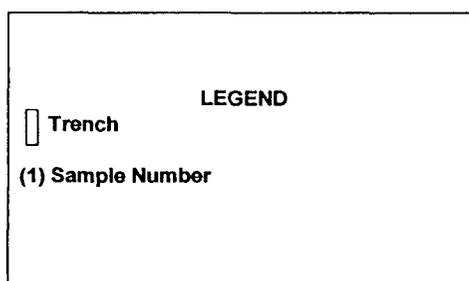
(1) TPH 23.1 Mg/Kg Gasoline Range
 TPH 13,900 Mg/Kg Diesel Range
 BTEX Non Detected

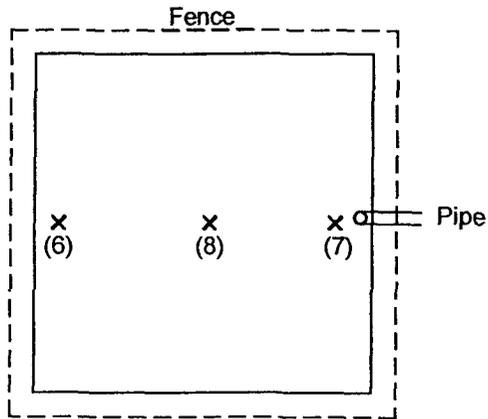




<p>(1) TPH non Detected Gasoline Range TPH 180 Mg/Kg Diesel Range BTEX Non Detected</p>	<p>(2) TPH Non Detected Gasoline Range TPH 4,440 Mg/Kg Diesel Range BTEX Non Detected</p>
---	---

<p>(3) TPH Non Detected Gasoline Range TPH 40.2 Mg/Kg Diesel Range BTEX Non Detected</p>	<p>(4) TPH 1.55 Mg/Kg Gasoline Range TPH 4,160 Mg/Kg Diesel Range BTEX Non Detected</p>
--	---





- | | |
|--|---|
| <p>(6) TPH Non Detected Gasoline Range
 TPH Non Detected Diesel Range
 BTEX Non Detected</p> | <p>(7) TPH Non Detected Gasoline Range
 TPH 380 Mg/Kg Diesel Range
 BTEX Non Detected</p> |
| <p>(8) TPH Non Detected Gasoline Range
 TPH 24,300 Mg/Kg Diesel Range
 BTEX Non Detected</p> | |

**FIGURE 5
 SITE MAP**

**Bristol Resources Corporation
 Abandon Flare Pit Site
 South Langley Jal Unit
 Jal County, New Mexico
 Date: 08/99**



**South Langley Jal Unit
Attachment A**



GULF STATES ANALYTICAL

08/02/99

Mr. John Alderman
Cornerstone Environmental
2997 LBJ Frwy., Ste. 103
Dallas, TX 75234

Reference:

Project: S.Langley JAL Unit Jal, New Mexico
Project No.: 99003
Date Received: 07/22/99
GSA Group: 51962 Group Report Date: 08/02/99

Dear Mr. Alderman:

Enclosed are the analytical results for your project referenced above. The following samples are included in the report.

Winter 01 :270923	Winter 02 :270924	Winter 03 :270925
Winter 04 :270926	Winter 05 :270927	Winter 06 :270928
Winter 07 :270929	Winter 08 :270930	

All holding times were met for the tests performed on these samples.

Our A2LA accreditation requires that, should this report be reproduced, it must be reproduced in total.

Enclosed please find the Quality Control Summary. All quality control results for the QC batch that are applicable to this sample(s) are acceptable except as noted in the QC batch reports.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting Core Lab - Gulf States Analytical to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

Sincerely yours,

Ed Fry
Project Manager

Enclosure



GULF STATES ANALYTICAL

ANALYSIS SUMMARY REPORT

Cornerstone Environmental
2997 LBJ Frwy., Ste. 103
Dallas, TX 75234-7606

GSA Group: 51962
Date Reported: 08/02/1999
Date Received: 07/22/1999

Attn: Mr. John Alderman
Project: S.Langley JAL Unit Jal, New Mexico

Purchase Order: 99003
Project No.: 99003

<u>Test Analysis</u>	<u>Results as Received</u>	<u>Units</u>	<u>Limit of Quantitation</u>
Sample:270923 - 07/20/1999 - Winter 01			
0538H TPH, Gasoline Range Organics, SW	23,100	ug/kg	10,000
0511E Purgeable Aromatics, BTEX Solids			
Benzene	ND	ug/kg	20
Toluene	ND	ug/kg	20
Ethylbenzene	ND	ug/kg	20
Xylene (total)	ND	ug/kg	60
0539H TPH, Diesel Range Organics	13,900,000	ug/kg	1,660,000
Sample:270924 - 07/20/1999 - Winter 02			
0538H TPH, Gasoline Range Organics, SW	ND	ug/kg	1,000
0511E Purgeable Aromatics, BTEX Solids			
Benzene	ND	ug/kg	20
Toluene	ND	ug/kg	20
Ethylbenzene	ND	ug/kg	20
Xylene (total)	ND	ug/kg	60
0539H TPH, Diesel Range Organics	180,000	ug/kg	33,200
Sample:270925 - 07/20/1999 - Winter 03			
0538H TPH, Gasoline Range Organics, SW	ND	ug/kg	1,000
0511E Purgeable Aromatics, BTEX Solids			
Benzene	ND	ug/kg	20
Toluene	ND	ug/kg	20
Ethylbenzene	ND	ug/kg	20
Xylene (total)	ND	ug/kg	60
0539H TPH, Diesel Range Organics	4,440,000	ug/kg	830,000
Sample:270926 - 07/20/1999 - Winter 04			
0538H TPH, Gasoline Range Organics, SW	1,550	ug/kg	1,000
0511E Purgeable Aromatics, BTEX Solids			
Benzene	ND	ug/kg	20
Toluene	ND	ug/kg	20
Ethylbenzene	ND	ug/kg	20
Xylene (total)	ND	ug/kg	60
0539H TPH, Diesel Range Organics	4,160,000	ug/kg	332,000
Sample:270927 - 07/20/1999 - Winter 05			
0538H TPH, Gasoline Range Organics, SW	ND	ug/kg	1,000



GULF STATES ANALYTICAL

ANALYSIS SUMMARY REPORT

Page 2

Cornerstone Environmental

GSA Group: 51962

<u>Test Analysis</u>	<u>Results as Received</u>	<u>Units</u>	<u>Limit of Quantitation</u>
Sample:270927 - 07/20/1999 - Winter 05			
0511E Purgeable Aromatics, BTEX Solids			
Benzene	ND	ug/kg	20
Toluene	ND	ug/kg	20
Ethylbenzene	ND	ug/kg	20
Xylene (total)	ND	ug/kg	60
0539H TPH, Diesel Range Organics	40,200	ug/kg	8,300
Sample:270928 - 07/20/1999 - Winter 06			
0538H TPH, Gasoline Range Organics, SW	ND	ug/kg	1,000
0511E Purgeable Aromatics, BTEX Solids			
Benzene	ND	ug/kg	20
Toluene	ND	ug/kg	20
Ethylbenzene	ND	ug/kg	20
Xylene (total)	ND	ug/kg	60
0539H TPH, Diesel Range Organics	ND	ug/kg	332,000
Sample:270929 - 07/20/1999 - Winter 07			
0538H TPH, Gasoline Range Organics, SW	ND	ug/kg	1,000
0511E Purgeable Aromatics, BTEX Solids			
Benzene	ND	ug/kg	20
Toluene	ND	ug/kg	20
Ethylbenzene	ND	ug/kg	20
Xylene (total)	ND	ug/kg	60
0539H TPH, Diesel Range Organics	380,000	ug/kg	166,000
Sample:270930 - 07/20/1999 - Winter 08			
0538H TPH, Gasoline Range Organics, SW	ND	ug/kg	1,000
0511E Purgeable Aromatics, BTEX Solids			
Benzene	ND	ug/kg	20
Toluene	ND	ug/kg	20
Ethylbenzene	ND	ug/kg	20
Xylene (total)	ND	ug/kg	60
0539H TPH, Diesel Range Organics	24,300,000	ug/kg	16,600,000

Test Method Summary:

Core Laboratories, Inc.

6310 Rothway, Houston, Texas 77040, (713) 690-4444, Fax (713) 690-5646



GULF STATES ANALYTICAL

ANALYSIS SUMMARY REPORT

Page 3

Cornerstone Environmental

GSA Group: 51962

Test Method Summary:

0511E- SW-846 8021B

0538H- SW-846 8015A MOD

0539H- SW-846 8015A MOD

ND - Compound was analyzed but not detected.

Respectfully Submitted,
Reviewed and Approved by:


Ed Fry
Project Manager

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:35
Group: 51962

Analysis Batch Number: 0511E-07/26/99-1205-1

Test Identification : 0511E-Purgeable Aromatics, BTEX Solids

Units: ug/kg

Sequence: BTX171Q

Number of Samples : 52

Batch Data-Date/Time : 07/29/99 / 12:06:35

BLANK#	ANALYTE	CONC FOUND #	LMT OF QUANTITATION
4-072799	Benzene	8.4349	20.0000
	Toluene	5.0237	20.0000
	Ethylbenzene	3.0706	20.0000
	m,p-Xylene	3.8907	60.0000
4-072799-2	Benzene	15.0022	20.0000
	m,p-Xylene	4.6481	60.0000
23-072899-3	Benzene	9.0648	20.0000
	Toluene	5.6813	20.0000
	Ethylbenzene	2.4049	20.0000
	m,p-Xylene	3.5115	60.0000
23-072899-4	Benzene	16.5135	20.0000
	m,p-Xylene	4.5811	60.0000

SPIKE						QC LIMITS	
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	LOWER	UPPER
51968-270967	Benzene	1000.0000	6.9720	907.3886	90.0	70.0	130.0
	Toluene	1000.0000	3.7988	922.4063	91.9	70.0	130.0
	Ethylbenzene	1000.0000	0.0000	941.8681	94.2	70.0	130.0
	o-Xylene	1000.0000	0.0000	945.3803	94.5	70.0	130.0
	m,p-Xylene	2000.0000	0.0000	1830.8220	91.5	70.0	130.0
51968-270967-2	Benzene	1000.0000	12.7892	985.7218	97.3	70.0	130.0
	Toluene	1000.0000	0.0000	993.5193	99.4	70.0	130.0
	Ethylbenzene	1000.0000	0.0000	1005.8677	100.6	70.0	130.0
	o-Xylene	1000.0000	0.0000	1020.3614	102.0	70.0	130.0
	m,p-Xylene	2000.0000	0.0000	2050.3303	102.5	70.0	130.0
52055-271392-3	Benzene	1000.0000	10.1425	1043.3696	103.3	70.0	130.0
	Toluene	1000.0000	4.3305	1057.4746	105.3	70.0	130.0
	Ethylbenzene	1000.0000	3.3005	1042.0484	103.9	70.0	130.0
	o-Xylene	1000.0000	0.0000	1046.8812	104.7	70.0	130.0
	m,p-Xylene	2000.0000	12.6707	2051.8764	102.0	70.0	130.0
52055-271392-4	Benzene	1000.0000	14.2107	1039.9968	102.6	70.0	130.0
	Toluene	1000.0000	31.5203	1038.8227	100.7	70.0	130.0
	Ethylbenzene	1000.0000	0.0000	1028.9471	102.9	70.0	130.0
	o-Xylene	1000.0000	0.0000	1043.3313	104.3	70.0	130.0
	m,p-Xylene	2000.0000	10.4830	2110.3551	105.0	70.0	130.0

MSD						QC LIMITS			
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	LOWER	UPPER	RPD #	LIMIT
51968-270967	Benzene	1000.0000	6.9720	904.4729	89.8	70.0	130.0	0.2	20.
	Toluene	1000.0000	3.7988	913.9816	91.0	70.0	130.0	1.0	20.
	Ethylbenzene	1000.0000	0.0000	930.2753	93.0	70.0	130.0	1.3	20.
	o-Xylene	1000.0000	0.0000	937.5446	93.8	70.0	130.0	0.7	20.
	m,p-Xylene	2000.0000	0.0000	1804.4558	90.2	70.0	130.0	1.4	20.
51968-270967-2	Benzene	1000.0000	12.7892	981.4952	96.9	70.0	130.0	0.4	20.
	Toluene	1000.0000	0.0000	976.0152	97.6	70.0	130.0	1.8	20.
	Ethylbenzene	1000.0000	0.0000	974.0634	97.4	70.0	130.0	3.2	20.
	o-Xylene	1000.0000	0.0000	1003.9410	100.4	70.0	130.0	1.6	20.
	m,p-Xylene	2000.0000	0.0000	1988.8735	99.4	70.0	130.0	3.1	20.
52055-271392-3	Benzene	1000.0000	10.1425	1010.4656	100.0	70.0	130.0	3.2	20.
	Toluene	1000.0000	4.3305	1013.5478	100.9	70.0	130.0	4.3	20.

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:35
Group: 51962

Analysis Batch Number: 0511E-07/26/99-1205-1

Test Identification : 0511E-Purgeable Aromatics, BTEX Solids

Units: ug/kg

Sequence: BTX1710

Number of Samples : 52

Batch Data-Date/Time : 07/29/99 / 12:06:35

MSD		QC LIMITS							
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	LOWER	UPPER	RPD #	LIMIT
52055-271392-3	Ethylbenzene	1000.0000	3.3005	1003.3167	100.0	70.0	130.0	3.8	20.0
	o-Xylene	1000.0000	0.0000	1011.8506	101.2	70.0	130.0	3.4	20.0
	m,p-Xylene	2000.0000	12.6707	1976.1411	98.2	70.0	130.0	3.8	20.0
52055-271392-4	Benzene	1000.0000	14.2107	1007.2462	99.3	70.0	130.0	3.3	20.0
	Toluene	1000.0000	31.5203	1005.4596	97.4	70.0	130.0	3.3	20.0
	Ethylbenzene	1000.0000	0.0000	999.0439	99.9	70.0	130.0	3.0	20.0
	o-Xylene	1000.0000	0.0000	1015.3283	101.5	70.0	130.0	2.7	20.0
	m,p-Xylene	2000.0000	10.4830	2049.2471	101.9	70.0	130.0	3.0	20.0

CONTROL		QC LIMITS				
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	LOWER	UPPER
3-072799	Benzene	1040.3319	1000.0000	104.0	80.0	120.0
	Toluene	1044.6987	1000.0000	104.5	80.0	120.0
	Ethylbenzene	1081.3339	1000.0000	108.1	80.0	120.0
	o-Xylene	1050.3276	1000.0000	105.0	80.0	120.0
	m,p-Xylene	2066.6277	2000.0000	103.3	80.0	120.0
3-072799-2	Benzene	1128.1694	1000.0000	112.8	80.0	120.0
	Toluene	1124.4183	1000.0000	112.4	80.0	120.0
	Ethylbenzene	1138.6882	1000.0000	113.9	80.0	120.0
	o-Xylene	1131.9344	1000.0000	113.2	80.0	120.0
	m,p-Xylene	2288.4581	2000.0000	114.4	80.0	120.0
22-072899-3	Benzene	940.6866	1000.0000	94.1	80.0	120.0
	Toluene	935.0686	1000.0000	93.5	80.0	120.0
	Ethylbenzene	945.7297	1000.0000	94.6	80.0	120.0
	o-Xylene	937.2726	1000.0000	93.7	80.0	120.0
	m,p-Xylene	1826.1098	2000.0000	91.3	80.0	120.0
22-072899-4	Benzene	992.6931	1000.0000	99.3	80.0	120.0
	Toluene	976.4808	1000.0000	97.6	80.0	120.0
	Ethylbenzene	981.5185	1000.0000	98.2	80.0	120.0
	o-Xylene	980.3867	1000.0000	98.0	80.0	120.0
	m,p-Xylene	1977.3085	2000.0000	98.9	80.0	120.0

		QC LIMITS				
CCV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	LOWER	UPPER
2-072799	Benzene	50.0000	51.0789	102.2	85.0	115.0
	Toluene	50.0000	51.1487	102.3	85.0	115.0
	Ethylbenzene	50.0000	50.5769	101.2	85.0	115.0
	o-Xylene	50.0000	50.3221	100.6	85.0	115.0
	m,p-Xylene	100.0000	99.8230	99.8	85.0	115.0
2-072799-2	Benzene	50.0000	52.3656	104.7	85.0	115.0
	Toluene	50.0000	51.8274	103.7	85.0	115.0
	Ethylbenzene	50.0000	51.2171	102.4	85.0	115.0
	o-Xylene	50.0000	51.3717	102.7	85.0	115.0
	m,p-Xylene	100.0000	105.1806	105.2	85.0	115.0
19-072799-3	Benzene	50.0000	48.8261	97.7	85.0	115.0
	Toluene	50.0000	48.3709	96.7	85.0	115.0
	Ethylbenzene	50.0000	47.7825	95.6	85.0	115.0
	o-Xylene	50.0000	47.3996	94.8	85.0	115.0
	m,p-Xylene	100.0000	93.0340	93.0	85.0	115.0

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:36
Group: 51962

Analysis Batch Number: 0511E-07/26/99-1205-1

Test Identification : 0511E-Purgeable Aromatics, BTEX Solids

Units: ug/kg

Sequence: BTX171Q

Number of Samples : 52

Batch Data-Date/Time : 07/29/99 / 12:06:35

CCV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	QC LIMITS	
					LOWER	UPPER
19-072799-4	Benzene	50.0000	51.9466	103.9	85.0	115.0
	Toluene	50.0000	51.2490	102.5	85.0	115.0
	Ethylbenzene	50.0000	50.5359	101.1	85.0	115.0
	o-Xylene	50.0000	50.5696	101.1	85.0	115.0
	m,p-Xylene	100.0000	102.9383	102.9	85.0	115.0
21-072899-5	Benzene	50.0000	49.0847	98.2	85.0	115.0
	Toluene	50.0000	48.6601	97.3	85.0	115.0
	Ethylbenzene	50.0000	47.9167	95.8	85.0	115.0
	o-Xylene	50.0000	47.8094	95.6	85.0	115.0
	m,p-Xylene	100.0000	94.0117	94.0	85.0	115.0
21-072899-6	Benzene	50.0000	51.7661	103.5	85.0	115.0
	Toluene	50.0000	51.1482	102.3	85.0	115.0
	Ethylbenzene	50.0000	50.2417	100.5	85.0	115.0
	o-Xylene	50.0000	50.6129	101.2	85.0	115.0
	m,p-Xylene	100.0000	102.9864	103.0	85.0	115.0
37-072899-7	Benzene	50.0000	52.4742	104.9	85.0	115.0
	Toluene	50.0000	51.2300	102.5	85.0	115.0
	Ethylbenzene	50.0000	50.1025	100.2	85.0	115.0
	o-Xylene	50.0000	50.0844	100.2	85.0	115.0
	m,p-Xylene	100.0000	98.4022	98.4	85.0	115.0
37-072899-8	Benzene	50.0000	51.5299	103.1	85.0	115.0
	Toluene	50.0000	50.8117	101.6	85.0	115.0
	Ethylbenzene	50.0000	49.6113	99.2	85.0	115.0
	o-Xylene	50.0000	49.8436	99.7	85.0	115.0
	m,p-Xylene	100.0000	101.3081	101.3	85.0	115.0
49-072899-9	Benzene	50.0000	51.8407	103.7	85.0	115.0
	Toluene	50.0000	51.6055	103.2	85.0	115.0
	Ethylbenzene	50.0000	50.3390	100.7	85.0	115.0
	o-Xylene	50.0000	50.3692	100.7	85.0	115.0
	m,p-Xylene	100.0000	98.5105	98.5	85.0	115.0
49-072899-10	Benzene	50.0000	51.5938	103.2	85.0	115.0
	Toluene	50.0000	51.0287	102.1	85.0	115.0
	Ethylbenzene	50.0000	51.9997	104.0	85.0	115.0
	o-Xylene	50.0000	49.4742	98.9	85.0	115.0
	m,p-Xylene	100.0000	101.1983	101.2	85.0	115.0
52-072999-11	Benzene	50.0000	51.7143	103.4	85.0	115.0
	Toluene	50.0000	50.8827	101.8	85.0	115.0
	Ethylbenzene	50.0000	49.7645	99.5	85.0	115.0
	o-Xylene	50.0000	50.0194	100.0	85.0	115.0
	m,p-Xylene	100.0000	97.8686	97.9	85.0	115.0
52-072999-12	Benzene	50.0000	50.9003	101.8	85.0	115.0
	Toluene	50.0000	50.1475	100.3	85.0	115.0
	Ethylbenzene	50.0000	49.2196	98.4	85.0	115.0
	o-Xylene	50.0000	48.9914	98.0	85.0	115.0
	m,p-Xylene	100.0000	99.9267	99.9	85.0	115.0
55-072999-13	Benzene	50.0000	49.8246	99.6	85.0	115.0
	Toluene	50.0000	49.7912	99.6	85.0	115.0
	Ethylbenzene	50.0000	48.8673	97.7	85.0	115.0
	o-Xylene	50.0000	48.8012	97.6	85.0	115.0

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:36
Group: 51962

Analysis Batch Number: 0511E-07/26/99-1205-1

Test Identification : 0511E-Purgeable Aromatics, BTEX Solids

Units: ug/kg

Sequence: BTX171Q

Number of Samples : 52

Batch Data-Date/Time : 07/29/99 / 12:06:35

CCV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	QC LIMITS	
					LOWER	UPPER
55-072999-13	m,p-Xylene	100.0000	95.9838	96.0	85.0	115.0
55-072999-14	Benzene	50.0000	49.6394	99.3	85.0	115.0
	Toluene	50.0000	49.2089	98.4	85.0	115.0
	Ethylbenzene	50.0000	48.2120	96.4	85.0	115.0
	o-Xylene	50.0000	48.0998	96.2	85.0	115.0
	m,p-Xylene	100.0000	98.2457	98.2	85.0	115.0

SURG #:21-0511E-S-SU

SAMPLE#	TFT #	BFB #
SAMPLE 51968-270967	70(G)	78
SAMPLE 51968-270967	79	83
SAMPLE 51962-270923	69(G)	73
SAMPLE 51962-270923	79	76
SAMPLE 51962-270924	65(A)	76
SAMPLE 51962-270924	73	76
SAMPLE 51962-270925	92	95
SAMPLE 51962-270925	103	107
SAMPLE 51939-270848	120	140(A)
SAMPLE 51939-270848	122	93
SAMPLE 51939-270849	87	96
SAMPLE 51939-270849	85	97
SAMPLE 51939-270850	95	103
SAMPLE 51939-270850	103	101
SAMPLE 51939-270851	86	94
SAMPLE 51939-270851	98	98
SAMPLE 51939-270852	73	81
SAMPLE 51939-270852	82	84
SAMPLE 51939-270853	84	91
SAMPLE 51939-270853	94	96
SAMPLE 51939-270849	94	98
SAMPLE 51939-270849	105	98
SAMPLE 51939-270848	121	168(D)
SAMPLE 51939-270848	150(D)	106
SAMPLE 51996-271092	87	93
SAMPLE 51996-271092	93	93
SAMPLE 52055-271392	84	93
SAMPLE 52055-271392	83	91
SAMPLE 51962-270926	51(B1)	53(B1)
SAMPLE 51962-270926	55(A)	52(A)
SAMPLE 51962-270927	66(B1)	72
SAMPLE 51962-270927	68(A)	71
SAMPLE 51962-270928	74	86
SAMPLE 51962-270928	76	85
SAMPLE 51962-270929	82	92
SAMPLE 51962-270929	83	90
SAMPLE 51962-270930	97	108
SAMPLE 51962-270930	98	104
SAMPLE 52054-271390	73	93
SAMPLE 52054-271390	84	88

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:37
Group: 51962

Analysis Batch Number: 0511E-07/26/99-1205-1

Test Identification : 0511E-Purgeable Aromatics, BTEX Solids

Units: ug/kg

Sequence: BTX171Q

Number of Samples : 52

Batch Data-Date/Time : 07/29/99 / 12:06:35

SURG #:21-0511E-S-SU

<u>SAMPLE#</u>	<u>TFT #</u>	<u>BFB #</u>
SAMPLE 52054-271391	77	96
SAMPLE 52054-271391	82	90
SAMPLE 51962-270926	66(B1)	75
SAMPLE 51962-270926	67(A)	73
SAMPLE 52101-271648	0(D)	2784(D)
SAMPLE 52101-271648	0(D)	1455(D)
SAMPLE 52101-271648	70	1497(D)
SAMPLE 52101-271648	0(D)	1442(D)
SAMPLE 52054-271390	93	105
SAMPLE 52054-271390	93	94
SAMPLE 52054-271391	91	104
SAMPLE 52054-271391	87	97
BLK 1 4-072799	83	89
BLK 2 4-072799	93	95
BLK 3 23-072899	92	100
BLK 4 23-072899	100	103
SPK 1 51968-270967	73	83
SPK 2 51968-270967	82	89
SPK 3 52055-271392	90	97
SPK 4 52055-271392	92	97
CTL 1 3-072799	103	107
CTL 2 3-072799	114	115
CTL 3 22-072899	86	92
CTL 4 22-072899	93	95
CCV 1 2-072799	93	91
CCV 2 2-072799	95	93
CCV 3 19-072799	86	88
CCV 4 19-072799	93	93
CCV 5 21-072899	88	89
CCV 6 21-072899	94	93
CCV 7 37-072899	88	91
CCV 8 37-072899	88	90
CCV 9 49-072899	87	89
CCV 10 49-072899	87	89
CCV 11 52-072999	86	89
CCV 12 52-072999	85	87
CCV 13 55-072999	88	88
CCV 14 55-072999	87	87
MSD 1 51968-270967	71	83
MSD 2 51968-270967	79	88
MSD 3 52055-271392	86	94
MSD 4 52055-271392	88	94

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:38
Group: 51962

Analysis Batch Number: 0511E-07/26/99-1205-1

Test Identification : 0511E-Purgeable Aromatics, BTEX Solids

Units: ug/kg

Sequence: BTX171Q

Number of Samples : 52

Batch Data-Date/Time : 07/29/99 / 12:06:35

21-0511E-S-SU - BTEX SOLIDS SURROGATE

SRG ABRV = SURROGATE DESCRIPTION

QC LIMITS

		LOWER	UPPER
TFT	Trifluorotoluene	70.0	130.0
BFB	p-Bromofluorobenzene	70.0	130.0

----- Result Footnotes -----

- (G) - Marginal Outlier
- (A) - Matrix Interference
- (D) - Surrogate is diluted out
- (B1) - Sample(s) rerun to confirm matrix interference.

Groups & Samples

51939-270848	51939-270849	51939-270850	51939-270851	51939-270852	51939-270853	51962-270923	51962-270924
51962-270925	51962-270926	51962-270927	51962-270928	51962-270929	51962-270930	51968-270967	51996-271092
52054-271390	52054-271391	52055-271392	52101-271648				

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:39
Group: 51962

Analysis Batch Number: 0538H-07/15/99-1205-2

Test Identification : 0538H-TPH, Gasoline Range Organics, SW

Units: ug/kg

Sequence: GR07166Q

Number of Samples : 22

Batch Data-Date/Time : 07/29/99 / 14:27:18

BLANK#	ANALYTE	CONC FOUND #	LMT OF QUANTITATION
127-072799	Gasoline	286.5500	1000.0000
155-072899-2	Gasoline	584.5900	1000.0000
163-072899-3	Gasoline	1397.9300(D1)	1000.0000
171-072899-4	Gasoline	654.9700	1000.0000

SPIKE						QC LIMITS	
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	LOWER	UPPER
51968-270967	Gasoline	5000.0000	545.3600	6240.5600	113.9	70.0	130.0
52055-271392-2	Gasoline	5000.0000	1412.9500	18049.0600	332.7(D1)	70.0	130.0
52055-271392-3	Gasoline	5000.0000	477.9800	4665.0200	83.7	70.0	130.0

MSD						QC LIMITS			
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	LOWER	UPPER	RPD #	LIMIT
51968-270967	Gasoline	5000.0000	545.3600	5820.0800	105.5	70.0	130.0	7.7	27.
52055-271392-2	Gasoline	5000.0000	1412.9500	10161.8400	175.0(D1)	70.0	130.0	62.1(D1)	27.
52055-271392-3	Gasoline	5000.0000	477.9800	4584.5700	82.1	70.0	130.0	1.9	27.

CONTROL					QC LIMITS	
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	LOWER	UPPER
126-072799	Gasoline	5537.9700	5000.0000	110.8	75.2	121.4
154-072899-2	Gasoline	5320.8200	5000.0000	106.4	75.2	121.4
156-072899-3	Gasoline	5094.6000	5000.0000	101.9	75.2	121.4
170-072899-4	Gasoline	4857.1800	5000.0000	97.1	75.2	121.4

CCV #						QC LIMITS	
CCV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	LOWER	UPPER	
125-072799	Gasoline	250.0000	225.3100	90.1	85.0	115.0	
141-072799-2	Gasoline	250.0000	267.7500	107.1	85.0	115.0	
144-072899-3	Gasoline	250.0000	243.9500	97.6	85.0	115.0	
164-072899-4	Gasoline	250.0000	263.3000	105.3	85.0	115.0	
169-072899-5	Gasoline	250.0000	271.4500	108.6	85.0	115.0	
178-072999-6	Gasoline	250.0000	244.7400	97.9	85.0	115.0	

SURG #:20-0538 -S-SU

SAMPLE#	TFT #	BFB #
SAMPLE 51968-270967	73	89
SAMPLE 51962-270930	110	127
SAMPLE 51962-270924	88	96
SAMPLE 51962-270925	105	116
SAMPLE 51962-270926	59(L1)	59(L1)
SAMPLE 51962-270927	78	86
SAMPLE 51962-270928	92	100
SAMPLE 51962-270929	100	108
SAMPLE 51962-270923	89	107
SAMPLE 51962-270926	86	86
SAMPLE 51969-270968	141(D)	597(D)
SAMPLE 51969-270969	654(D)	427(D)
SAMPLE 51969-270968	0(D)	960(D)
SAMPLE 51969-270968	4234(D)	4270(D)
SAMPLE 51969-270969	****(D)	1637(D)

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:40
Group: 51962

Analysis Batch Number: 0538H-07/15/99-1205-2

Test Identification : 0538H-TPH, Gasoline Range Organics, SW

Units: ug/kg

Sequence: GR07166Q

Number of Samples : 22

Batch Data-Date/Time : 07/29/99 / 14:27:18

SURG #:20-0538 -S-SU

<u>SAMPLE#</u>	<u>TFT #</u>	<u>BFB #</u>
SAMPLE 52054-271390	86	137(A)
SAMPLE 52054-271391	102	132(A)
SAMPLE 52055-271392	78	99
SAMPLE 52055-271392	78	98
SAMPLE 52054-271390	172(D)	184(D)
SAMPLE 52054-271391	128	147(D)
SAMPLE 51969-270968	0(D)	673(D)
BLK 1 127-072799	92	109
BLK 2 155-072899	143(M)	134(M)
BLK 3 163-072899	96	107
BLK 4 171-072899	99	106
SPK 1 51968-270967	113	115
SPK 2 52055-271392	118	103
SPK 3 52055-271392	94	110
CTL 1 126-072799	95	105
CTL 2 154-072899	90	108
CTL 3 156-072899	137(M)	123
CTL 4 170-072899	96	122
CCV 1 125-072799	97	105
CCV 2 141-072799	100	108
CCV 3 144-072899	98	105
CCV 4 164-072899	103	106
CCV 5 169-072899	104	103
CCV 6 178-072999	113	118
MSD 1 51968-270967	109	120
MSD 2 52055-271392	112	110
MSD 3 52055-271392	97	106

20-0538 -S-SU - TPH GRO SURROGATES, SOIL

<u>SRG ABRV =</u>	<u>SURROGATE DESCRIPTION</u>	<u>QC LIMITS</u>	
		<u>LOWER</u>	<u>UPPER</u>
TFT	Trifluorotoluene	70.0	130.0
BFB	p-Bromofluorobenzene	70.0	130.0

----- Result Footnotes -----

- (D1) - Carryover contamination from previous run.
- (L1) - Analytical results not used, another run reported.
- (D) - Surrogate is diluted out
- (A) - Matrix Interference
- (M) - QC Sample Was Reanalyzed

Groups & Samples

51908-270698	51962-270923	51962-270924	51962-270925	51962-270926	51962-270927	51962-270928	51962-270929
51962-270930	51968-270967	51969-270968	51969-270969	52054-271390	52054-271391	52055-271392	

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:41
Group: 51962

Analysis Batch Number: 0539G-07/23/99-1230-4

Test Identification : 0539G-TPH, Diesel Range Organics

Units: ug/kg

Sequence: TPH1730Q

Number of Samples : 17

Batch Data-Date/Time : 08/03/99 / 10:54:24

BLANK#	ANALYTE	CONC FOUND #	LMT OF QUANTITATION
BLK	none detected		

SPIKE SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	QC LIMITS	
						LOWER	UPPER
51904-270670	Diesel fuel	67000.0000	0.0000	0.0000	0.0(K1)	70.0	130.0

MSD SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	QC LIMITS		RPD #	LIMIT
						LOWER	UPPER		
51904-270670	Diesel fuel	67000.0000	0.0000	0.0000	0.0(K1)	70.0	130.0	0.0	26.1

CONTROL SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	QC LIMITS	
					LOWER	UPPER
LCS	Diesel fuel	62087.0000	67000.0000	92.7	61.2	128.1

SURG #:26-0539 -S-SU

SAMPLE#	O-TP #
SAMPLE 51962-270923	2(A)
SAMPLE 51962-270924	3(A)
SAMPLE 51904-270673	89
SAMPLE 51962-270925	0(A)
SAMPLE 51904-270674	0(A)
SAMPLE 51962-270926	1(A)
SAMPLE 51904-270675	0(A)
SAMPLE 51962-270927	89
SAMPLE 51904-270676	79
SAMPLE 51962-270928	4(A)
SAMPLE 51904-270677	77
SAMPLE 51904-270670	4(A)
SAMPLE 51904-270671	4(A)
SAMPLE 51904-270672	10(A)
SAMPLE 51904-270678	0(A)
SAMPLE 51904-270679	1(A)
SAMPLE 51969-270969	0(A)
BLK 1 BLK	73
SPK 1 51904-270670	4(A)
CTL 1 LCS	76
MSD 1 51904-270670	4(A)

26-0539 -S-SU - DRO SURROGATE SOIL SRG ABRV = SURROGATE DESCRIPTION	QC LIMITS	
	LOWER	UPPER
O-TP o-Terphenyl	70.0	130.0

----- Result Footnotes -----

- (K1) - See comment for explanation
- (A) - Matrix Interference

----- Batch Notes -----

Background sample 51904-270670 had a concentration of 1626600 ppb. MS concentration is 2063000 ppb. MSD concentration is 2108600 ppb. Spike recovery is valid because the sample is > four times the spiked amount.

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:41
Group: 51962

Analysis Batch Number: 0539G-07/23/99-1230-4

Test Identification : 0539G-TPH, Diesel Range Organics

Units: ug/kg

Sequence: TPH1730Q

Number of Samples : 17

Batch Data-Date/Time : 08/03/99 / 10:54:24

Groups & Samples

51904-270670 51904-270671 51904-270672 51904-270673 51904-270674 51904-270675 51904-270676 51904-270677
51904-270678 51904-270679 51962-270923 51962-270924 51962-270925 51962-270926 51962-270927 51962-270928
51969-270969

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:42
Group: 51962

Analysis Batch Number: 0539G-07/23/99-1230-2

Test Identification : 0539G-TPH, Diesel Range Organics

Units: ug/kg

Sequence: TPH1730Q

Number of Samples : 15

Batch Data-Date/Time : 07/29/99 / 17:00:40

BLANK#	ANALYTE	CONC FOUND #	LMT OF QUANTITATION
BLK	none detected		

SPIKE SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	QC LIMITS	
						LOWER	UPPER
51974-271008	Diesel fuel	67000.0000	35676.6000	99411.6000	95.1	70.0	130.0

MSD SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	QC LIMITS			
						LOWER	UPPER	RPD #	LIMIT
51974-271009	Diesel fuel	67000.0000	35676.6000	102105.0000	99.1	70.0	130.0	4.1	26.

CONTROL SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	QC LIMITS	
					LOWER	UPPER
LCS	Diesel fuel	67900.0000	67000.0000	101.3	61.2	128.1

SURG #:26-0539 -S-SU

SAMPLE#	O-TP #
SAMPLE 51974-271005	6(A)
SAMPLE 51974-271006	5(A)
SAMPLE 51974-271007	44(A)
SAMPLE 51974-271011	104
SAMPLE 51974-271012	12(A)
SAMPLE 51974-271013	22(A)
SAMPLE 51974-271014	13(A)
SAMPLE 52004-271123	13(A)
SAMPLE 52004-271120	68(A)
SAMPLE 52004-271124	5(A)
SAMPLE 52004-271121	0(A)
SAMPLE 51969-270968	0(A)
SAMPLE 52004-271122	79
SAMPLE 51962-270929	1(A)
SAMPLE 51962-270930	0(A)
BLK 1 BLK	75
SPK 1 51974-271008	91
CTL 1 LCS	94
MSD 1 51974-271009	40(A)

26-0539 -S-SU - DRO SURROGATE SOIL SRG ABRV = SURROGATE DESCRIPTION	QC LIMITS	
	LOWER	UPPER
O-TP o-Terphenyl	70.0	130.0

----- Result Footnotes -----
(A) - Matrix Interference

Groups & Samples

51962-270929 51962-270930 51969-270968 51974-271005 51974-271006 51974-271007 51974-271008 51974-271009

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:42
Group: 51962

Analysis Batch Number: 0539G-07/23/99-1230-2

Test Identification : 0539G-TPH, Diesel Range Organics

Units: ug/kg

Sequence: TPH1730Q

Number of Samples : 15

Batch Data-Date/Time : 07/29/99 / 17:00:40

Groups & Samples

51974-271011 51974-271012 51974-271013 51974-271014 52004-271120 52004-271121 52004-271122 52004-271123
52004-271124

**CORE LAB / GULF STATES ANALYTICAL
SAMPLE RECEIPT CHECKLIST**

JOHN ALDERMAN

CLIENT: CORNER CONTACT: CORNER
 PROJECT: S-1 ANGLIEM JAL UNIT JAL NEW MEXICO CARRIER: FEDEX
 DATE RECEIVED: _____ UNPACKED STAMP: 1999 JUL 23 AM 10:31
 DATE SHIPPED: 7-21-99 UNPACKED BY: ES
 NUMBER OF KITS RECEIVED: 1 GROUP# 51962 B.O.# _____

KIT CHECKLIST

KIT ID	COC PRESENT	CUSTODY TAPE		COOLER TEMP Thermometer #	# OF SAMPLE CONTAINERS
		PRESENT?	INTACT?		
p/w E.T.S.	yes	C	yes	274	11
		B	NO	1.3 °C	
		C			
		B			
		C			
		B			

C = COOLER B = BOTTLES

INCONSISTENCIES

SAMPLE	PARAMETER	INCONSISTENCY
		3 - SX DID NOT BELONG TO THIS GROUP.

pH OF WATER SAMPLES CHECKED YES _____ NO _____ SAMPLE(S) SCREENED FOR RADIATION YES _____ NO _____
 VOLATILE HEAD SPACE CHECKED YES _____ NO _____ SEE ATTACHED WORKSHEET _____
 ACTION TAKEN _____

PERSON CONTACTED: _____ DATE: _____
 RESOLUTION _____

CORE / GSA EMPLOYEE _____ DATE: _____
 HNO3 HCL H2SO4 NaOH Na2S2O3 NEAT NaHSO4 OT/PRE.
 (Water Only)

____ VOA _____ VOA
 ____ OTHER _____ OTHER

Remaining Samples in Group _____
 Project Manager MA

# Cont.	Mtrx.
8	00
Total 8	00



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

CONSERVATION DIVISION
DISTRICT I HOBBS
PO BOX 1880, Hobbs, NM 88241
(505) 393-6161
FAX (505) 393-0720

Jennifer A. Salisbury
CABINET SECRETARY

November 3, 1999

Mr. James Knipe
Bristol Resources
6655 South Lewis Suite 200
Tulsa, Oklahoma 74136

Re: South Langley Jal Unit

Dear Mr. Knipe,

New Mexico Oil Conservation Division (NMOCD) is in receipt of Bristol Resources' Phase II Environmental Assessment dated August 23, 1999. NMOCD hereby approves recommendations presented in the Assessment by Cornerstone Environmental Resources for Bristol Resources with the following conditions:

1. Bristol Resources shall perform vertical extent at the source of the leak.
2. Bristol Resources shall notify the NMOCD at least 48 hours in advance of any scheduled activities such that the NMOCD has the opportunity to witness the events and/or split samples during OCD's normal working hours.
3. Bristol Resources shall submit to NMOCD an investigation and remediation plan, included with a plot map of the sample(s) taken and at what depth they were collected.
4. Bristol Resources shall provide with the investigation report and/or remediation plan a legal verification of location. (UL - Sec - T - R).

Please submit to NMOCD by December 5, 1999. If you have any questions or require any further information or assistance please do not hesitate to call (505-393-6161 ext...113) or write this office.

Sincerely,

Donna Williams
Environmental Engineer Specialist

cc: Chris Williams, Wayne Price



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

49
OIL CONSERVATION DIVISION
DISTRICT I HOBBS
PO BOX 1980, Hobbs, NM 88241
(505) 393-6161
FAX (505) 393-0720

Jennifer A. Salisbury
CABINET SECRETARY

November 2, 1999

Mr. James Knipe
Bristol Resources
6655 South Lewis Suite 200
Tulsa, Oklahoma 74136

Re: Locations around the South Langley Jal Unit
UL A, Sec 18, Ts25S, R37E
UL O, Sec 18, Ts25S, R37E
UL P, Sec 18, Ts25S, R37E

Dear Mr. Knipe,

New Mexico Oil Conservation Division (NMOCD) visited with Bristol's Representative Don Tyler and Bristol's consultant John Alderman with Cornerstone Environmental on July 20, 1999. During the visit it was NMOCD's understanding that Bristol was going to address the above referenced locations. It is also the understanding of the NMOCD that Cornerstone had on that same day taken several samples for analysis. At this time the NMOCD has not received any information concerning these locations. Therefore, the NMOCD hereby requests the following:

1. Please submit a site investigation and remediation plan for the above referenced locations.
2. Please notify the NMOCD at least 48 hours in advance of the scheduled activities such that the NMOCD has the opportunity to witness the events and/or split samples during OCD's normal working hours.
3. Please provide with the investigation and remediation plan a plot map of the samples taken and at what depth samples were collected.
4. Please provide with your investigation report and/or remediation plan a legal verification of locations. (UL - Sec - T - R).

Please submit a plan for approval to NMOCD by December 15, 1999. If you have any questions or require any further information or assistance please do not hesitate to call (505-393-6161 ext...113) or write this office.

Sincerely,

Donna Williams-Environmental Engineer Specialist
cc: Chris Williams, Roger Anderson

**BRISTOL
RESOURCES**

Corporation | August 23, 1999

Oil Conservation Division
Attn: Donna Williams
1625 North French Drive
Hobbs, New Mexico 88240

6655 South Lewis
Suite 200
Tulsa, Oklahoma 74136
(918) 492-7900
FAX (918) 492-7944

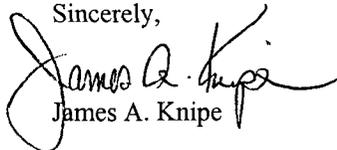
Re: So. Langley Jal
Lea Co. New Mexico

Dear Ms. Williams:

Enclosed please find one copy of the Phase II environmental assessment dated June 1999 covering the referenced property prepared by Cornerstone Environmental Resources, Inc. for Bristol Resources Corporation.

If additional information is needed please contact me at (918) 492-7900.

Sincerely,

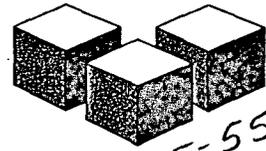

James A. Knipe

Cornerstone Environmental Resources, Inc.

August 18, 1999

Mr. Dan Abney
Bristol Resources Corporation
6655 S. Lewis, Suite 200
Tulsa, OK 74136

Re: Abandoned Tank Battery Sites
Results of Laboratory Analysis Taken July 20, 1999
South Langley Jal Unit
Lea Co. New Mexico



Mob: 915-553-1923
Don Tyler
FAX - 915-689-4421
Send a FAX to John per Don Tyler

Dear Mr. Abney,

I was asked by Don Tyler to go with him and Ms. Donna Williams with the New Mexico Oil & Gas Conservation Division to visit three abandoned tank battery sites in the South Langley Jal Unit. The attached Figures show the location of the South Langley Jal Unit and the approximate location of the three sites visited. On July 20, 1999 we visited the sites and Ms Williams pointed out tests she would like to see run and some locations at the abandoned facilities she would like to see tested. On July 20, 1999, Ms. Connie Smith and I took soil samples at the abandoned facilities for analysis. The purpose of this letter is to document the results of those tests.

Site 1 had two out of service storage tanks with a fence around the tanks. A sign at the facility identified the site as the Winters E Lease Tank Battery. Figure 3 is a Site Map of the facility. A heavy tar material that looked like tank bottoms was located in a depression inside the firewall of the battery. The material appeared to be on the north and east side of battery. A backhoe was used to dig a trench on the east side as shown of Figure 1. Six inches of tar material was seen on the side of the trench closest to the tanks and 3 inches of material on the east side of the trench. The ground was soft and the backhoe created deep ruts where it crossed the material. Because the area was soft, only one trench was dug to prevent enlarging the area impacted by the hydrocarbon material. A soil sample was taken and analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX). None of these materials were detected in the sample. Total petroleum hydrocarbons (TPH) were measured based on analysis of gasoline range organics and diesel range organics. The TPH in the gasoline range were 23.1 mg/kg and in the diesel range were 13,900 mg/kg. A copy of the Core Laboratory report on the analysis is attached.

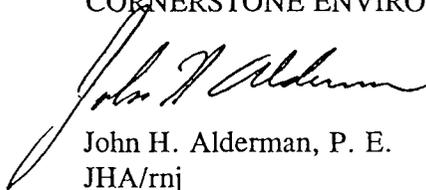
Site 2 shown on Figure 4 did not have any equipment located on the site. There was a built up area present where the storage tanks would have been located. A hard pan of hydrocarbon material was present on the east side of the location. Three trenches as indicated on Figure 4 were dug with a backhoe. A hard hydrocarbon material was seen at the surface where trenches on the east side were dug. There was a hydrocarbon odor in the trench in the southeast corner. The TPH values measured are shown on Figure 4. There were no BTEX compounds measured in any of the samples. The only gasoline range organics measured was 1.55 mg/kg in the sample from the southeast corner. This was the area where an odor was detected. The diesel range organics ranged from 40.2 mg/kg in the southwest corner to 4440 mg/kg in the northwest corner.

Site 3 appeared to be a former flare pit located to the west of an abandoned tank battery site. Figure 5 is a plot plan showing the location of a pipe from the former tank battery and the location of the samples. Ms. Williams said she would like to have a sample taken from the wall of the pit opposite the pipe and from the bottom of the pit. A sample was also taken from the wall of the pit where the pipe was located. No BTEX nor TPH in the gasoline range was detected in the three samples. A TPH measurement in the heavier organics range was detected in the sample from the east wall and from the center of the pit. The concentration on the east wall was 380 mg/kg and the TPH in the center of the pit was 24,300 mg/kg.

It is our opinion that the material at Site 1 should be removed for treatment or disposal. The material is in a soft semi liquid state which could be problem with live stock when the fence and tanks are removed. We do not believe the material at the other sites offer a threat to environment. We do suggest the hard pan on the east side of Site 2 be broken up and the soil tilled to allow air to contact soil and allow natural bioremediation to occur. The material in the bottom of the pit at Site 3 should be removed from the pit prior to backfilling of the pit. There were no indications of light hydrocarbons in the pit. However bringing the material to the surface prior to backfilling the pit would allow the material to be in contact with the air and permit bioremediation to occur.

If you have any questions concerning the analysis or the recommendations please do not hesitate to call me at 972-243-7643.

Sincerely,
CORNERSTONE ENVIRONMENTAL RESOURCES, INC.



John H. Alderman, P. E.
JHA/rnj

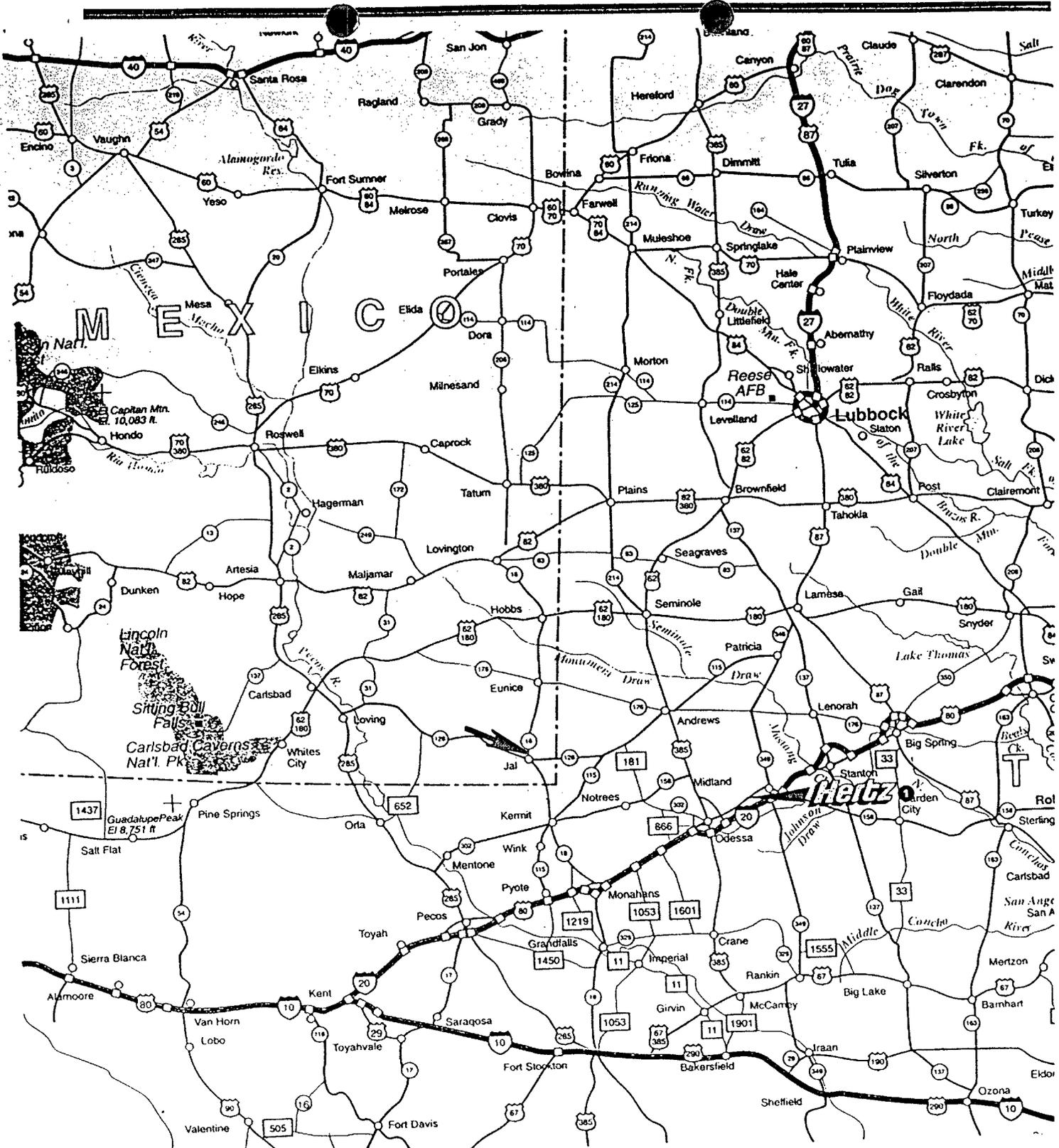
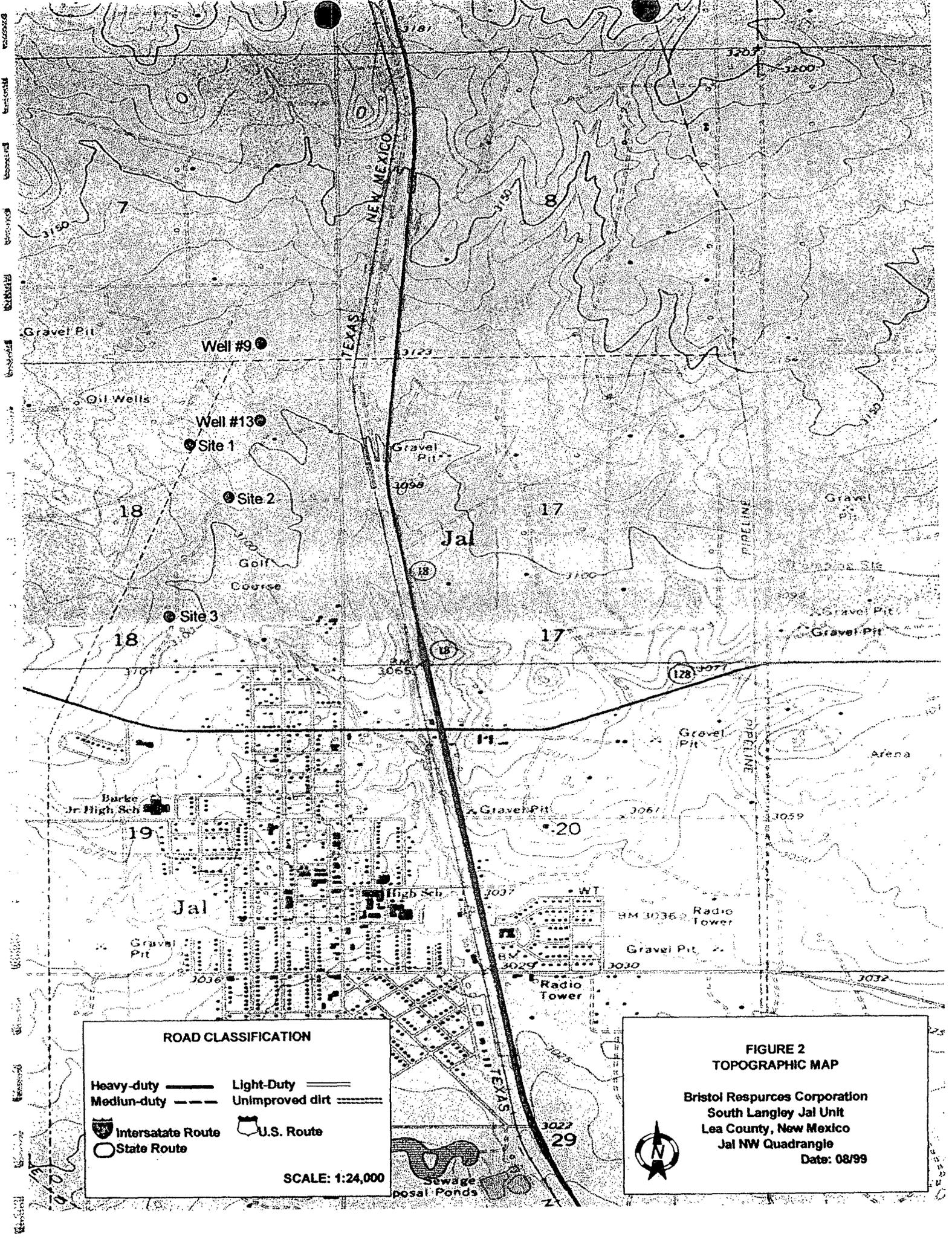


FIGURE 1
LOCATION MAP

Bristol Resources Corporation
South Langley Jal Unit
Lea County, New Mexico

Scale: NONE

Date: 02/99



ROAD CLASSIFICATION

- | | |
|------------------|-----------------|
| Heavy-duty | Light-Duty |
| Mediun-duty | Unimproved dirt |
| Interstate Route | U.S. Route |
| State Route | |

SCALE: 1:24,000

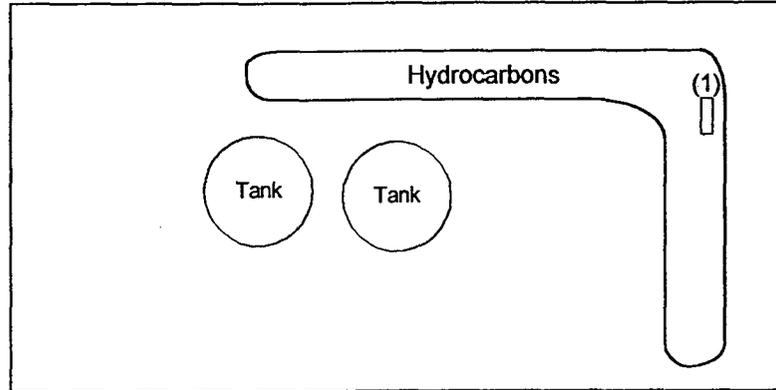


**FIGURE 2
TOPOGRAPHIC MAP**

Bristol Resurces Corporation
 South Langley Jal Unit
 Lea County, New Mexico
 Jal NW Quadrangle

Date: 08/99





(1) TPH 23.1 Mg/Kg Gasoline Range
 TPH 13,900 Mg/Kg Diesel Range
 BTEX Non Detected

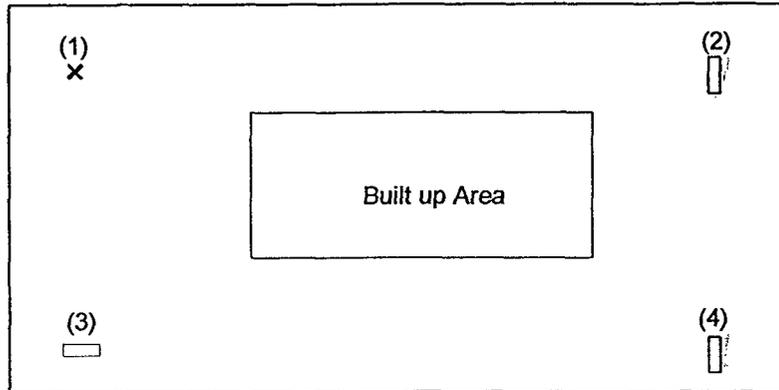
LEGEND

 Trench
 (1) Sample Number

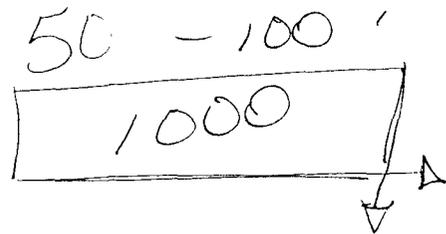
**FIGURE 3
 SITE MAP**

Bristol Resources Corporation
 Winters Tank Battery
 South Langley Jal Unit
 Jal County, New Mexico
 Date: 08/99





- | | |
|---|--|
| (1) TPH non Detected Gasoline Range
TPH 180 Mg/Kg Diesel Range
BTEX Non Detected | (2) TPH Non Detected Gasoline Range
TPH 4,440 Mg/Kg Diesel Range
BTEX Non Detected |
| (3) TPH Non Detected Gasoline Range
TPH 40.2 Mg/Kg Diesel Range
BTEX Non Detected | (4) TPH 1.55 Mg/Kg Gasoline Range
TPH 4,160 Mg/Kg Diesel Range
BTEX Non Detected |

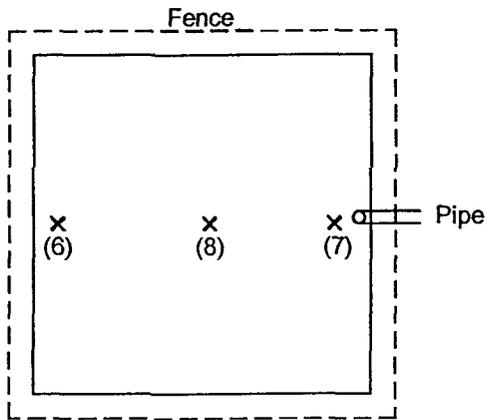


LEGEND

 Trench
 (1) Sample Number

Bristol Resources Corporation
 Abandon Tank Battery Site
 South Langley Jal Unit
 Jal County, New Mexico
 Date: 08/99





(6) TPH Non Detected Gasoline Range
 TPH Non Detected Diesel Range
 BTEX Non Detected

(7) TPH Non Detected Gasoline Range
 TPH 380 Mg/Kg Diesel Range
 BTEX Non Detected

(8) TPH Non Detected Gasoline Range
 TPH 24,300 Mg/Kg Diesel Range
 BTEX Non Detected

FIGURE 5
SITE MAP

Bristol Resources Corporation
 Abandon Flare Pit Site
 South Langley Jal Unit
 Jal County, New Mexico
 Date: 08/99



**South Langley Jal Unit
Attachment A**



GULF STATES ANALYTICAL

08/02/99

Mr. John Alderman
Cornerstone Environmental
2997 LBJ Frwy., Ste. 103
Dallas, TX 75234

Reference:

Project: S.Langley JAL Unit Jal, New Mexico
Project No.: 99003
Date Received: 07/22/99
GSA Group: 51962 Group Report Date: 08/02/99

Dear Mr. Alderman:

Enclosed are the analytical results for your project referenced above. The following samples are included in the report.

Winter 01 :270923	Winter 02 :270924	Winter 03 :270925
Winter 04 :270926	Winter 05 :270927	Winter 06 :270928
Winter 07 :270929	Winter 08 :270930	

All holding times were met for the tests performed on these samples.

Our A2LA accreditation requires that, should this report be reproduced, it must be reproduced in total.

Enclosed please find the Quality Control Summary. All quality control results for the QC batch that are applicable to this sample(s) are acceptable except as noted in the QC batch reports.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting Core Lab - Gulf States Analytical to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

Sincerely yours,

Ed Fry
Project Manager

Enclosure



GULF STATES ANALYTICAL

ANALYSIS SUMMARY REPORT

Cornerstone Environmental
2997 LBJ Frwy., Ste. 103
Dallas, TX 75234-7606

GSA Group: 51962
Date Reported: 08/02/1999
Date Received: 07/22/1999

Attn: Mr. John Alderman
Project: S.Langley JAL Unit Jal, New Mexico

Purchase Order: 99003
Project No.: 99003

<u>Test Analysis</u>	<u>Results as Received</u>	<u>Units</u>	<u>Limit of Quantitation</u>
Sample:270923 - 07/20/1999 - Winter 01			
0538H TPH, Gasoline Range Organics, SW	23,100	ug/kg	10,000
0511E Purgeable Aromatics, BTEX Solids			
Benzene	ND	ug/kg	20
Toluene	ND	ug/kg	20
Ethylbenzene	ND	ug/kg	20
Xylene (total)	ND	ug/kg	60
0539H TPH, Diesel Range Organics	13,900,000	ug/kg	1,660,000
Sample:270924 - 07/20/1999 - Winter 02			
0538H TPH, Gasoline Range Organics, SW	ND	ug/kg	1,000
0511E Purgeable Aromatics, BTEX Solids			
Benzene	ND	ug/kg	20
Toluene	ND	ug/kg	20
Ethylbenzene	ND	ug/kg	20
Xylene (total)	ND	ug/kg	60
0539H TPH, Diesel Range Organics	180,000	ug/kg	33,200
Sample:270925 - 07/20/1999 - Winter 03			
0538H TPH, Gasoline Range Organics, SW	ND	ug/kg	1,000
0511E Purgeable Aromatics, BTEX Solids			
Benzene	ND	ug/kg	20
Toluene	ND	ug/kg	20
Ethylbenzene	ND	ug/kg	20
Xylene (total)	ND	ug/kg	60
0539H TPH, Diesel Range Organics	4,440,000	ug/kg	830,000
Sample:270926 - 07/20/1999 - Winter 04			
0538H TPH, Gasoline Range Organics, SW	1,550	ug/kg	1,000
0511E Purgeable Aromatics, BTEX Solids			
Benzene	ND	ug/kg	20
Toluene	ND	ug/kg	20
Ethylbenzene	ND	ug/kg	20
Xylene (total)	ND	ug/kg	60
0539H TPH, Diesel Range Organics	4,160,000	ug/kg	332,000
Sample:270927 - 07/20/1999 - Winter 05			
0538H TPH, Gasoline Range Organics, SW	ND	ug/kg	1,000



GULF STATES ANALYTICAL

ANALYSIS SUMMARY REPORT

Page 2

Cornerstone Environmental

GSA Group: 51962

<u>Test Analysis</u>	<u>Results as Received</u>	<u>Units</u>	<u>Limit of Quantitation</u>
Sample:270927 - 07/20/1999 - Winter 05			
0511E Purgeable Aromatics, BTEX Solids			
Benzene	ND	ug/kg	20
Toluene	ND	ug/kg	20
Ethylbenzene	ND	ug/kg	20
Xylene (total)	ND	ug/kg	60
0539H TPH, Diesel Range Organics	40,200	ug/kg	8,300
Sample:270928 - 07/20/1999 - Winter 06			
0538H TPH, Gasoline Range Organics, SW			
0511E Purgeable Aromatics, BTEX Solids			
Benzene	ND	ug/kg	20
Toluene	ND	ug/kg	20
Ethylbenzene	ND	ug/kg	20
Xylene (total)	ND	ug/kg	60
0539H TPH, Diesel Range Organics	ND	ug/kg	332,000
Sample:270929 - 07/20/1999 - Winter 07			
0538H TPH, Gasoline Range Organics, SW			
0511E Purgeable Aromatics, BTEX Solids			
Benzene	ND	ug/kg	20
Toluene	ND	ug/kg	20
Ethylbenzene	ND	ug/kg	20
Xylene (total)	ND	ug/kg	60
0539H TPH, Diesel Range Organics	380,000	ug/kg	166,000
Sample:270930 - 07/20/1999 - Winter 08			
0538H TPH, Gasoline Range Organics, SW			
0511E Purgeable Aromatics, BTEX Solids			
Benzene	ND	ug/kg	20
Toluene	ND	ug/kg	20
Ethylbenzene	ND	ug/kg	20
Xylene (total)	ND	ug/kg	60
0539H TPH, Diesel Range Organics	24,300,000	ug/kg	16,600,000

Test Method Summary:



GULF STATES ANALYTICAL

ANALYSIS SUMMARY REPORT

Page 3

Cornerstone Environmental

GSA Group: 51962

Test Method Summary:

0511E- SW-846 8021B

0538H- SW-846 8015A MOD

0539H- SW-846 8015A MOD

ND - Compound was analyzed but not detected.

Respectfully Submitted,
Reviewed and Approved by:



Ed Fry
Project Manager

Core Lab-Gulf States Analytical
 Daily QC Batching Data
 Data Released for Reporting

08/04/99
 15:17:35
 Group: 51962

Analysis Batch Number: 0511E-07/26/99-1205-1

Test Identification : 0511E-Purgeable Aromatics, BTEX Solids

Units: ug/kg

Sequence: BTX171Q

Number of Samples : 52

Batch Data-Date/Time : 07/29/99 / 12:06:35

BLANK#	ANALYTE	CONC FOUND #	LMT OF QUANTITATION
1-072799	Benzene	8.4349	20.0000
	Toluene	5.0237	20.0000
	Ethylbenzene	3.0706	20.0000
	m,p-Xylene	3.8907	60.0000
4-072799-2	Benzene	15.0022	20.0000
	m,p-Xylene	4.6481	60.0000
23-072899-3	Benzene	9.0648	20.0000
	Toluene	5.6813	20.0000
	Ethylbenzene	2.4049	20.0000
	m,p-Xylene	3.5115	60.0000
23-072899-4	Benzene	16.5135	20.0000
	m,p-Xylene	4.5811	60.0000

SPIKE						QC LIMITS	
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	LOWER	UPPER
51968-270967	Benzene	1000.0000	6.9720	907.3886	90.0	70.0	130.0
	Toluene	1000.0000	3.7988	922.4063	91.9	70.0	130.0
	Ethylbenzene	1000.0000	0.0000	941.8681	94.2	70.0	130.0
	o-Xylene	1000.0000	0.0000	945.3803	94.5	70.0	130.0
	m,p-Xylene	2000.0000	0.0000	1830.8220	91.5	70.0	130.0
51968-270967-2	Benzene	1000.0000	12.7892	985.7218	97.3	70.0	130.0
	Toluene	1000.0000	0.0000	993.5193	99.4	70.0	130.0
	Ethylbenzene	1000.0000	0.0000	1005.8677	100.6	70.0	130.0
	o-Xylene	1000.0000	0.0000	1020.3614	102.0	70.0	130.0
	m,p-Xylene	2000.0000	0.0000	2050.3303	102.5	70.0	130.0
52055-271392-3	Benzene	1000.0000	10.1425	1043.3696	103.3	70.0	130.0
	Toluene	1000.0000	4.3305	1057.4746	105.3	70.0	130.0
	Ethylbenzene	1000.0000	3.3005	1042.0484	103.9	70.0	130.0
	o-Xylene	1000.0000	0.0000	1046.8812	104.7	70.0	130.0
	m,p-Xylene	2000.0000	12.6707	2051.8764	102.0	70.0	130.0
52055-271392-4	Benzene	1000.0000	14.2107	1039.9968	102.6	70.0	130.0
	Toluene	1000.0000	31.5203	1038.8227	100.7	70.0	130.0
	Ethylbenzene	1000.0000	0.0000	1028.9471	102.9	70.0	130.0
	o-Xylene	1000.0000	0.0000	1043.3313	104.3	70.0	130.0
	m,p-Xylene	2000.0000	10.4830	2110.3551	105.0	70.0	130.0

MSD						QC LIMITS			
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	LOWER	UPPER	RPD #	LIMIT
51968-270967	Benzene	1000.0000	6.9720	904.4729	89.8	70.0	130.0	0.2	20.
	Toluene	1000.0000	3.7988	913.9816	91.0	70.0	130.0	1.0	20.
	Ethylbenzene	1000.0000	0.0000	930.2753	93.0	70.0	130.0	1.3	20.
	o-Xylene	1000.0000	0.0000	937.5446	93.8	70.0	130.0	0.7	20.
	m,p-Xylene	2000.0000	0.0000	1804.4558	90.2	70.0	130.0	1.4	20.
51968-270967-2	Benzene	1000.0000	12.7892	981.4952	96.9	70.0	130.0	0.4	20.
	Toluene	1000.0000	0.0000	976.0152	97.6	70.0	130.0	1.8	20.
	Ethylbenzene	1000.0000	0.0000	974.0634	97.4	70.0	130.0	3.2	20.
	o-Xylene	1000.0000	0.0000	1003.9410	100.4	70.0	130.0	1.6	20.
	m,p-Xylene	2000.0000	0.0000	1988.8735	99.4	70.0	130.0	3.1	20.
52055-271392-3	Benzene	1000.0000	10.1425	1010.4656	100.0	70.0	130.0	3.2	20.
	Toluene	1000.0000	4.3305	1013.5478	100.9	70.0	130.0	4.3	20.

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:35
Group: 51962

Analysis Batch Number: 0511E-07/26/99-1205-1

Test Identification : 0511E-Purgeable Aromatics, BTEX Solids

Units: ug/kg

Sequence: BTX171Q

Number of Samples : 52

Batch Data-Date/Time : 07/29/99 / 12:06:35

MSD							QC LIMITS			
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC #	LOWER	UPPER	RPD #	LIMIT	
52055-271392-3	Ethylbenzene	1000.0000	3.3005	1003.3167	100.0	70.0	130.0	3.8	20.0	
	o-Xylene	1000.0000	0.0000	1011.8506	101.2	70.0	130.0	3.4	20.0	
	m,p-Xylene	2000.0000	12.6707	1976.1411	98.2	70.0	130.0	3.8	20.0	
52055-271392-4	Benzene	1000.0000	14.2107	1007.2462	99.3	70.0	130.0	3.3	20.0	
	Toluene	1000.0000	31.5203	1005.4596	97.4	70.0	130.0	3.3	20.0	
	Ethylbenzene	1000.0000	0.0000	999.0439	99.9	70.0	130.0	3.0	20.0	
	o-Xylene	1000.0000	0.0000	1015.3283	101.5	70.0	130.0	2.7	20.0	
	m,p-Xylene	2000.0000	10.4830	2049.2471	101.9	70.0	130.0	3.0	20.0	

CONTROL					QC LIMITS	
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	LOWER	UPPER
3-072799	Benzene	1040.3319	1000.0000	104.0	80.0	120.0
	Toluene	1044.6987	1000.0000	104.5	80.0	120.0
	Ethylbenzene	1081.3339	1000.0000	108.1	80.0	120.0
	o-Xylene	1050.3276	1000.0000	105.0	80.0	120.0
	m,p-Xylene	2066.6277	2000.0000	103.3	80.0	120.0
3-072799-2	Benzene	1128.1694	1000.0000	112.8	80.0	120.0
	Toluene	1124.4183	1000.0000	112.4	80.0	120.0
	Ethylbenzene	1138.6882	1000.0000	113.9	80.0	120.0
	o-Xylene	1131.9344	1000.0000	113.2	80.0	120.0
	m,p-Xylene	2288.4581	2000.0000	114.4	80.0	120.0
22-072899-3	Benzene	940.6866	1000.0000	94.1	80.0	120.0
	Toluene	935.0686	1000.0000	93.5	80.0	120.0
	Ethylbenzene	945.7297	1000.0000	94.6	80.0	120.0
	o-Xylene	937.2726	1000.0000	93.7	80.0	120.0
	m,p-Xylene	1826.1098	2000.0000	91.3	80.0	120.0
22-072899-4	Benzene	992.6931	1000.0000	99.3	80.0	120.0
	Toluene	976.4808	1000.0000	97.6	80.0	120.0
	Ethylbenzene	981.5185	1000.0000	98.2	80.0	120.0
	o-Xylene	980.3867	1000.0000	98.0	80.0	120.0
	m,p-Xylene	1977.3085	2000.0000	98.9	80.0	120.0

					QC LIMITS	
CCV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	LOWER	UPPER
2-072799	Benzene	50.0000	51.0789	102.2	85.0	115.0
	Toluene	50.0000	51.1487	102.3	85.0	115.0
	Ethylbenzene	50.0000	50.5769	101.2	85.0	115.0
	o-Xylene	50.0000	50.3221	100.6	85.0	115.0
	m,p-Xylene	100.0000	99.8230	99.8	85.0	115.0
2-072799-2	Benzene	50.0000	52.3656	104.7	85.0	115.0
	Toluene	50.0000	51.8274	103.7	85.0	115.0
	Ethylbenzene	50.0000	51.2171	102.4	85.0	115.0
	o-Xylene	50.0000	51.3717	102.7	85.0	115.0
	m,p-Xylene	100.0000	105.1806	105.2	85.0	115.0
19-072799-3	Benzene	50.0000	48.8261	97.7	85.0	115.0
	Toluene	50.0000	48.3709	96.7	85.0	115.0
	Ethylbenzene	50.0000	47.7825	95.6	85.0	115.0
	o-Xylene	50.0000	47.3996	94.8	85.0	115.0
	m,p-Xylene	100.0000	93.0340	93.0	85.0	115.0

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:36
Group: 51962

Analysis Batch Number: 0511E-07/26/99-1205-1

Test Identification : 0511E-Purgeable Aromatics, BTEX Solids Units: ug/kg Sequence: BTX171Q

Number of Samples : 52

Batch Data-Date/Time : 07/29/99 / 12:06:35

CV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	QC LIMITS	
					LOWER	UPPER
19-072799-4	Benzene	50.0000	51.9466	103.9	85.0	115.0
	Toluene	50.0000	51.2490	102.5	85.0	115.0
	Ethylbenzene	50.0000	50.5359	101.1	85.0	115.0
	o-Xylene	50.0000	50.5696	101.1	85.0	115.0
	m,p-Xylene	100.0000	102.9383	102.9	85.0	115.0
21-072899-5	Benzene	50.0000	49.0847	98.2	85.0	115.0
	Toluene	50.0000	48.6601	97.3	85.0	115.0
	Ethylbenzene	50.0000	47.9167	95.8	85.0	115.0
	o-Xylene	50.0000	47.8094	95.6	85.0	115.0
	m,p-Xylene	100.0000	94.0117	94.0	85.0	115.0
21-072899-6	Benzene	50.0000	51.7661	103.5	85.0	115.0
	Toluene	50.0000	51.1482	102.3	85.0	115.0
	Ethylbenzene	50.0000	50.2417	100.5	85.0	115.0
	o-Xylene	50.0000	50.6129	101.2	85.0	115.0
	m,p-Xylene	100.0000	102.9864	103.0	85.0	115.0
37-072899-7	Benzene	50.0000	52.4742	104.9	85.0	115.0
	Toluene	50.0000	51.2300	102.5	85.0	115.0
	Ethylbenzene	50.0000	50.1025	100.2	85.0	115.0
	o-Xylene	50.0000	50.0844	100.2	85.0	115.0
	m,p-Xylene	100.0000	98.4022	98.4	85.0	115.0
37-072899-8	Benzene	50.0000	51.5299	103.1	85.0	115.0
	Toluene	50.0000	50.8117	101.6	85.0	115.0
	Ethylbenzene	50.0000	49.6113	99.2	85.0	115.0
	o-Xylene	50.0000	49.8436	99.7	85.0	115.0
	m,p-Xylene	100.0000	101.3081	101.3	85.0	115.0
49-072899-9	Benzene	50.0000	51.8407	103.7	85.0	115.0
	Toluene	50.0000	51.6055	103.2	85.0	115.0
	Ethylbenzene	50.0000	50.3390	100.7	85.0	115.0
	o-Xylene	50.0000	50.3692	100.7	85.0	115.0
	m,p-Xylene	100.0000	98.5105	98.5	85.0	115.0
49-072899-10	Benzene	50.0000	51.5938	103.2	85.0	115.0
	Toluene	50.0000	51.0287	102.1	85.0	115.0
	Ethylbenzene	50.0000	51.9997	104.0	85.0	115.0
	o-Xylene	50.0000	49.4742	98.9	85.0	115.0
	m,p-Xylene	100.0000	101.1983	101.2	85.0	115.0
52-072999-11	Benzene	50.0000	51.7143	103.4	85.0	115.0
	Toluene	50.0000	50.8827	101.8	85.0	115.0
	Ethylbenzene	50.0000	49.7645	99.5	85.0	115.0
	o-Xylene	50.0000	50.0194	100.0	85.0	115.0
	m,p-Xylene	100.0000	97.8686	97.9	85.0	115.0
52-072999-12	Benzene	50.0000	50.9003	101.8	85.0	115.0
	Toluene	50.0000	50.1475	100.3	85.0	115.0
	Ethylbenzene	50.0000	49.2196	98.4	85.0	115.0
	o-Xylene	50.0000	48.9914	98.0	85.0	115.0
	m,p-Xylene	100.0000	99.9267	99.9	85.0	115.0
55-072999-13	Benzene	50.0000	49.8246	99.6	85.0	115.0
	Toluene	50.0000	49.7912	99.6	85.0	115.0
	Ethylbenzene	50.0000	48.8673	97.7	85.0	115.0
	o-Xylene	50.0000	48.8012	97.6	85.0	115.0

Core Lab-Gulf States Analytical
 Daily QC Batching Data
 Data Released for Reporting

08/04/99
 15:17:36
 Group: 51962

Analysis Batch Number: 0511E-07/26/99-1205-1

Test Identification : 0511E-Purgeable Aromatics, BTEX Solids

Units: ug/kg

Sequence: BTX171Q

Number of Samples : 52

Batch Data-Date/Time : 07/29/99 / 12:06:35

CV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	QC LIMITS	
					LOWER	UPPER
55-072999-13	m,p-Xylene	100.0000	95.9838	96.0	85.0	115.0
55-072999-14	Benzene	50.0000	49.6394	99.3	85.0	115.0
	Toluene	50.0000	49.2089	98.4	85.0	115.0
	Ethylbenzene	50.0000	48.2120	96.4	85.0	115.0
	o-Xylene	50.0000	48.0998	96.2	85.0	115.0
	m,p-Xylene	100.0000	98.2457	98.2	85.0	115.0

SURG #:21-0511E-S-SU

SAMPLE#	TFT #	BFB #
SAMPLE 51968-270967	70(G)	78
SAMPLE 51968-270967	79	83
SAMPLE 51962-270923	69(G)	73
SAMPLE 51962-270923	79	76
SAMPLE 51962-270924	65(A)	76
SAMPLE 51962-270924	73	76
SAMPLE 51962-270925	92	95
SAMPLE 51962-270925	103	107
SAMPLE 51939-270848	120	140(A)
SAMPLE 51939-270848	122	93
SAMPLE 51939-270849	87	96
SAMPLE 51939-270849	85	97
SAMPLE 51939-270850	95	103
SAMPLE 51939-270850	103	101
SAMPLE 51939-270851	86	94
SAMPLE 51939-270851	98	98
SAMPLE 51939-270852	73	81
SAMPLE 51939-270852	82	84
SAMPLE 51939-270853	84	91
SAMPLE 51939-270853	94	96
SAMPLE 51939-270849	94	98
SAMPLE 51939-270849	105	98
SAMPLE 51939-270848	121	168(D)
SAMPLE 51939-270848	150(D)	106
SAMPLE 51996-271092	87	93
SAMPLE 51996-271092	93	93
SAMPLE 52055-271392	84	93
SAMPLE 52055-271392	83	91
SAMPLE 51962-270926	51(B1)	53(B1)
SAMPLE 51962-270926	55(A)	52(A)
SAMPLE 51962-270927	66(B1)	72
SAMPLE 51962-270927	68(A)	71
SAMPLE 51962-270928	74	86
SAMPLE 51962-270928	76	85
SAMPLE 51962-270929	82	92
SAMPLE 51962-270929	83	90
SAMPLE 51962-270930	97	108
SAMPLE 51962-270930	98	104
SAMPLE 52054-271390	73	93
SAMPLE 52054-271390	84	88

Core Lab-Gulf States Analytical
 Daily QC Batching Data
 Data Released for Reporting

08/04/99
 15:17:37
 Group: 51962

Analysis Batch Number: 0511E-07/26/99-1205-1

Test Identification : 0511E-Purgeable Aromatics, BTEX Solids

Units: ug/kg

Sequence: BTX171Q

Number of Samples : 52

Batch Data-Date/Time : 07/29/99 / 12:06:35

PURG #: 21-0511E-S-SU

<u>SAMPLE#</u>	<u>TFT #</u>	<u>BFB #</u>
SAMPLE 52054-271391	77	96
SAMPLE 52054-271391	82	90
SAMPLE 51962-270926	66(B1)	75
SAMPLE 51962-270926	67(A)	73
SAMPLE 52101-271648	0(D)	2784(D)
SAMPLE 52101-271648	0(D)	1455(D)
SAMPLE 52101-271648	70	1497(D)
SAMPLE 52101-271648	0(D)	1442(D)
SAMPLE 52054-271390	93	105
SAMPLE 52054-271390	93	94
SAMPLE 52054-271391	91	104
SAMPLE 52054-271391	87	97
BLK 1 4-072799	83	89
BLK 2 4-072799	93	95
BLK 3 23-072899	92	100
BLK 4 23-072899	100	103
SPK 1 51968-270967	73	83
SPK 2 51968-270967	82	89
SPK 3 52055-271392	90	97
SPK 4 52055-271392	92	97
CTL 1 3-072799	103	107
CTL 2 3-072799	114	115
CTL 3 22-072899	86	92
CTL 4 22-072899	93	95
CCV 1 2-072799	93	91
CCV 2 2-072799	95	93
CCV 3 19-072799	86	88
CCV 4 19-072799	93	93
CCV 5 21-072899	88	89
CCV 6 21-072899	94	93
CCV 7 37-072899	88	91
CCV 8 37-072899	88	90
CCV 9 49-072899	87	89
CCV 10 49-072899	87	89
CCV 11 52-072999	86	89
CCV 12 52-072999	85	87
CCV 13 55-072999	88	88
CCV 14 55-072999	87	87
MSD 1 51968-270967	71	83
MSD 2 51968-270967	79	88
MSD 3 52055-271392	86	94
MSD 4 52055-271392	88	94

Analysis Batch Number: 0511E-07/26/99-1205-1

Test Identification : 0511E-Purgeable Aromatics, BTEX Solids Units: ug/kg Sequence: BTX171Q

Number of Samples : 52

Batch Data-Date/Time : 07/29/99 / 12:06:35

21-0511E-S-SU - BTEX SOLIDS SURROGATE

SRG ABRV =	SURROGATE DESCRIPTION	QC LIMITS	
		LOWER	UPPER
TFT	Trifluorotoluene	70.0	130.0
BFB	p-Bromofluorobenzene	70.0	130.0

----- Result Footnotes -----

- (G) - Marginal Outlier
- (A) - Matrix Interference
- (D) - Surrogate is diluted out
- (B1) - Sample(s) rerun to confirm matrix interference.

Groups & Samples

51939-270848	51939-270849	51939-270850	51939-270851	51939-270852	51939-270853	51962-270923	51962-270924
51962-270925	51962-270926	51962-270927	51962-270928	51962-270929	51962-270930	51968-270967	51996-271092
52054-271390	52054-271391	52055-271392	52101-271648				

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:39
Group: 51962

Analysis Batch Number: 0538H-07/15/99-1205-2

Test Identification : 0538H-TPH, Gasoline Range Organics, SW

Units: ug/kg

Sequence: GR07166Q

Number of Samples : 22

Batch Data-Date/Time : 07/29/99 / 14:27:18

BLANK#	ANALYTE	CONC FOUND #	LMT OF QUANTITATION
127-072799	Gasoline	286.5500	1000.0000
155-072899-2	Gasoline	584.5900	1000.0000
163-072899-3	Gasoline	1397.9300(D1)	1000.0000
171-072899-4	Gasoline	654.9700	1000.0000

SPIKE						QC LIMITS	
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	LOWER	UPPER
51968-270967	Gasoline	5000.0000	545.3600	6240.5600	113.9	70.0	130.0
52055-271392-2	Gasoline	5000.0000	1412.9500	18049.0600	332.7(D1)	70.0	130.0
52055-271392-3	Gasoline	5000.0000	477.9800	4665.0200	83.7	70.0	130.0

MSD						QC LIMITS			
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	LOWER	UPPER	RPD #	LIMIT
51968-270967	Gasoline	5000.0000	545.3600	5820.0800	105.5	70.0	130.0	7.7	27.0
52055-271392-2	Gasoline	5000.0000	1412.9500	10161.8400	175.0(D1)	70.0	130.0	62.1(D1)	27.0
52055-271392-3	Gasoline	5000.0000	477.9800	4584.5700	82.1	70.0	130.0	1.9	27.0

CONTROL					QC LIMITS	
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	LOWER	UPPER
126-072799	Gasoline	5537.9700	5000.0000	110.8	75.2	121.4
154-072899-2	Gasoline	5320.8200	5000.0000	106.4	75.2	121.4
156-072899-3	Gasoline	5094.6000	5000.0000	101.9	75.2	121.4
170-072899-4	Gasoline	4857.1800	5000.0000	97.1	75.2	121.4

CCV #						QC LIMITS	
ANALYTE	TRUE VALUE	BATCH READ	% REC #	LOWER	UPPER		
Gasoline	250.0000	225.3100	90.1	85.0	115.0		
Gasoline	250.0000	267.7500	107.1	85.0	115.0		
Gasoline	250.0000	243.9500	97.6	85.0	115.0		
Gasoline	250.0000	263.3000	105.3	85.0	115.0		
Gasoline	250.0000	271.4500	108.6	85.0	115.0		
Gasoline	250.0000	244.7400	97.9	85.0	115.0		

SURG #:20-0538 -S-SU

SAMPLE#	TFT #	BFB #
SAMPLE 51968-270967	73	89
SAMPLE 51962-270930	110	127
SAMPLE 51962-270924	88	96
SAMPLE 51962-270925	105	116
SAMPLE 51962-270926	59(L1)	59(L1)
SAMPLE 51962-270927	78	86
SAMPLE 51962-270928	92	100
SAMPLE 51962-270929	100	108
SAMPLE 51962-270923	89	107
SAMPLE 51962-270926	86	86
SAMPLE 51969-270968	141(D)	597(D)
SAMPLE 51969-270969	654(D)	427(D)
SAMPLE 51969-270968	0(D)	960(D)
SAMPLE 51969-270968	4234(D)	4270(D)
SAMPLE 51969-270969	****(D)	1637(D)

Analysis Batch Number: 0538H-07/15/99-1205-2

Test Identification : 0538H-TPH, Gasoline Range Organics, SW

Units: ug/kg

Sequence: GR07166Q

Number of Samples : 22

Batch Data-Date/Time : 07/29/99 / 14:27:18

SURG #:20-0538 -S-SU

SAMPLE#	TFT #	BFB #
SAMPLE 52054-271390	86	137(A)
SAMPLE 52054-271391	102	132(A)
SAMPLE 52055-271392	78	99
SAMPLE 52055-271392	78	98
SAMPLE 52054-271390	172(D)	184(D)
SAMPLE 52054-271391	128	147(D)
SAMPLE 51969-270968	0(D)	673(D)
BLK 1 127-072799	92	109
BLK 2 155-072899	143(M)	134(M)
BLK 3 163-072899	96	107
BLK 4 171-072899	99	106
SPK 1 51968-270967	113	115
SPK 2 52055-271392	118	103
SPK 3 52055-271392	94	110
CTL 1 126-072799	95	105
CTL 2 154-072899	90	108
CTL 3 156-072899	137(M)	123
CTL 4 170-072899	96	122
CCV 1 125-072799	97	105
CCV 2 141-072799	100	108
CCV 3 144-072899	98	105
CCV 4 164-072899	103	106
CCV 5 169-072899	104	103
CCV 6 178-072999	113	118
MSD 1 51968-270967	109	120
MSD 2 52055-271392	112	110
MSD 3 52055-271392	97	106

20-0538 -S-SU - TPH GRO SURROGATES, SOIL

QC LIMITS

SRG ABRV =	SURROGATE DESCRIPTION	LOWER	UPPER
TFT	Trifluorotoluene	70.0	130.0
BFB	p-Bromofluorobenzene	70.0	130.0

Result Footnotes

- (D1) - Carryover contamination from previous run.
- (L1) - Analytical results not used, another run reported.
- (D) - Surrogate is diluted out
- (A) - Matrix Interference
- (M) - QC Sample Was Reanalyzed

Groups & Samples

51908-270698	51962-270923	51962-270924	51962-270925	51962-270926	51962-270927	51962-270928	51962-270929
51962-270930	51968-270967	51969-270968	51969-270969	52054-271390	52054-271391	52055-271392	

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:41
Group: 51962

Analysis Batch Number: 0539G-07/23/99-1230-4

Test Identification : 0539G-TPH, Diesel Range Organics

Units: ug/kg

Sequence: TPH1730Q

Number of Samples : 17

Batch Data-Date/Time : 08/03/99 / 10:54:24

BLANK#	ANALYTE	CONC FOUND	#	LMT OF QUANTITATION
BLK	none detected			

SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	QC LIMITS	
						LOWER	UPPER
51904-270670	Diesel fuel	67000.0000	0.0000	0.0000	0.0(K1)	70.0	130.0

SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	QC LIMITS		RPD #	LIMIT
						LOWER	UPPER		
51904-270670	Diesel fuel	67000.0000	0.0000	0.0000	0.0(K1)	70.0	130.0	0.0	26.

SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	QC LIMITS	
					LOWER	UPPER
LCS	Diesel fuel	62087.0000	67000.0000	92.7	61.2	128.1

SURG #:26-0539 -S-SU

SAMPLE#	O-TP #
SAMPLE 51962-270923	2(A)
SAMPLE 51962-270924	3(A)
SAMPLE 51904-270673	89
SAMPLE 51962-270925	0(A)
SAMPLE 51904-270674	0(A)
SAMPLE 51962-270926	1(A)
SAMPLE 51904-270675	0(A)
SAMPLE 51962-270927	89
SAMPLE 51904-270676	79
SAMPLE 51962-270928	4(A)
SAMPLE 51904-270677	77
SAMPLE 51904-270670	4(A)
SAMPLE 51904-270671	4(A)
SAMPLE 51904-270672	10(A)
SAMPLE 51904-270678	0(A)
SAMPLE 51904-270679	1(A)
SAMPLE 51969-270969	0(A)
BLK 1 BLK	73
SPK 1 51904-270670	4(A)
CTL 1 LCS	76
MSD 1 51904-270670	4(A)

26-0539 -S-SU - DRO SURROGATE SOIL		QC LIMITS	
SRG ABRV =	SURROGATE DESCRIPTION	LOWER	UPPER
O-TP	o-Terphenyl	70.0	130.0

Result Footnotes

- (K1) - See comment for explanation
- (A) - Matrix Interference

Batch Notes

Background sample 51904-270670 had a concentration of 1626600 ppb. MS concentration is 2063000 ppb. MSD concentration is 2108600 ppb. Spike recovery is valid because the sample is > four times the spiked amount.

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:41
Group: 51962

Analysis Batch Number: 0539G-07/23/99-1230-4

Test Identification : 0539G-TPH, Diesel Range Organics

Units: ug/kg

Sequence: TPH1730Q

Number of Samples : 17

Batch Data-Date/Time : 08/03/99 / 10:54:24

Groups & Samples

51904-270670 51904-270671 51904-270672 51904-270673 51904-270674 51904-270675 51904-270676 51904-270677
51904-270678 51904-270679 51962-270923 51962-270924 51962-270925 51962-270926 51962-270927 51962-270928
51969-270969

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:42
Group: 51962

Analysis Batch Number: 0539G-07/23/99-1230-2

Test Identification : 0539G-TPH, Diesel Range Organics

Units: ug/kg

Sequence: TPH1730Q

Number of Samples : 15

Batch Data-Date/Time : 07/29/99 / 17:00:40

BLANK# ANALYTE CONC FOUND # LMT OF QUANTITATION

BLK none detected

SPIKE

<u>SAMPLE#</u>	<u>ANALYTE</u>	<u>CONC ADDED</u>	<u>CONC SAMPLE</u>	<u>CONC SPIKE</u>	<u>% REC #</u>	<u>QC LIMITS</u>	
						<u>LOWER</u>	<u>UPPER</u>
51974-271008	Diesel fuel	67000.0000	35676.6000	99411.6000	95.1	70.0	130.0

MSD

<u>SAMPLE#</u>	<u>ANALYTE</u>	<u>CONC ADDED</u>	<u>CONC SAMPLE</u>	<u>RESULT 2</u>	<u>%REC2 #</u>	<u>QC LIMITS</u>			
						<u>LOWER</u>	<u>UPPER</u>	<u>RPD #</u>	<u>LIMIT</u>
51974-271009	Diesel fuel	67000.0000	35676.6000	102105.0000	99.1	70.0	130.0	4.1	26.0

CONTROL

<u>SAMPLE#</u>	<u>ANALYTE</u>	<u>CONC FOUND</u>	<u>CONC KNOWN</u>	<u>% REC #</u>	<u>QC LIMITS</u>	
					<u>LOWER</u>	<u>UPPER</u>
LCS	Diesel fuel	67900.0000	67000.0000	101.3	61.2	128.1

SURG #:26-0539 -S-SU

<u>SAMPLE#</u>	<u>O-TP #</u>
SAMPLE 51974-271005	6(A)
SAMPLE 51974-271006	5(A)
SAMPLE 51974-271007	44(A)
SAMPLE 51974-271011	104
SAMPLE 51974-271012	12(A)
SAMPLE 51974-271013	22(A)
SAMPLE 51974-271014	13(A)
SAMPLE 52004-271123	13(A)
SAMPLE 52004-271120	68(A)
SAMPLE 52004-271124	5(A)
SAMPLE 52004-271121	0(A)
SAMPLE 51969-270968	0(A)
SAMPLE 52004-271122	79
SAMPLE 51962-270929	1(A)
SAMPLE 51962-270930	0(A)
BLK 1 BLK	75
SPK 1 51974-271008	91
CTL 1 LCS	94
MSD 1 51974-271009	40(A)

26-0539 -S-SU - DRO SURROGATE SOIL

<u>SRG ABRV =</u>	<u>SURROGATE DESCRIPTION</u>	<u>QC LIMITS</u>	
		<u>LOWER</u>	<u>UPPER</u>
O-TP	o-Terphenyl	70.0	130.0

----- Result Footnotes -----

(A) - Matrix Interference

Groups & Samples

51962-270929 51962-270930 51969-270968 51974-271005 51974-271006 51974-271007 51974-271008 51974-271009

Core Lab-Gulf States Analytical
Daily QC Batching Data
Data Released for Reporting

08/04/99
15:17:42
Group: 51962

Analysis Batch Number: 0539G-07/23/99-1230-2

Test Identification : 0539G-TPH, Diesel Range Organics

Units: ug/kg

Sequence: TPH1730Q

Number of Samples : 15

Batch Data-Date/Time : 07/29/99 / 17:00:40

Groups & Samples

51974-271011 51974-271012 51974-271013 51974-271014 52004-271120 52004-271121 52004-271122 52004-271123
52004-271124

**CORE LAB / GULF STATES ANALYTICAL
SAMPLE RECEIPT CHECKLIST**

JOHN ALDERMAN

CLIENT: CORNER CONTACT: CORNER
 PROJECT: S-1 ANGLRY JAL UNIT JAL NEW MEXICO CARRIER: FEDEX
 DATE RECEIVED: _____ UNPACKED STAMP: 1999 JUL 23 AM 10:31
 DATE SHIPPED: 7-21-99 UNPACKED BY: ES
 NUMBER OF KITS RECEIVED: 1 GROUP#: 51962 B.O.#: _____

KIT CHECKLIST

KIT ID	COC PRESENT	CUSTODY TAPE		COOLER TEMP Thermometer #	# OF SAMPLE CONTAINERS
		PRESENT?	INTACT?		
B/W E-T.S.	yes	C	yes	274	11
		B	NO	1.3 °C	
		C			
		B			
		C			
		B			

C = COOLER B = BOTTLES

INCONSISTENCIES

SAMPLE	PARAMETER	INCONSISTENCY
		3- SX DID NOT BELONG TO THIS GROUP.

pH OF WATER SAMPLES CHECKED YES _____ NO _____ SAMPLE(S) SCREENED FOR RADIATION YES _____ NO _____
 VOLATILE HEAD SPACE CHECKED YES _____ NO _____ SEE ATTACHED WORKSHEET _____
 ACTION TAKEN _____

PERSON CONTACTED: _____ DATE: _____
 RESOLUTION _____

CORE / GSA EMPLOYEE _____ DATE: _____

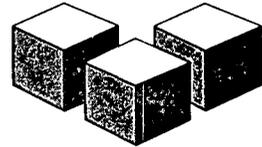
HNO3 HCL H2SO4 NaOH Na2S2O3 NEAT NaHSO4 OT/PRE.
 (Water Only)

 VOA OTHER VOA OTHER

Remaining Samples in Group _____
 Project Manager NA

# Cont.	Mtrx.
8	20
Total 8	20

Cornerstone Environmental Resources, Inc.



June 1, 1999

Ms. Donna Williams
Oil Conservation Division
District 1 Hobbs
PO Box 1980
Hobbs, NM 88241

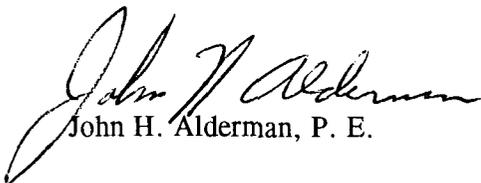
Re: South Langley Jal Unit
Lea Co. New Mexico

Dear Ms. Williams,

Please be advised that Cornerstone Environmental Resources, Inc. (CERI) will be conducting the field investigation on June 15 and 16, 1999 at the subject facility to gather data. This data will be utilized to prepare a report in response to your May 13, 1999 letter requesting additional data from the South Langley Jal Unit.

Please contact me at 972-243-7643 if you have questions concerning the upcoming field investigation.

Sincerely,
CORNERSTONE ENVIRONMENTAL RESOURCES, INC.


John H. Alderman, P. E.

Copy to: Bristol Resources
Mr. James Knipe
6655 South Lewis Suite 200
Tulsa Oklahoma 74136



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
DISTRICT I HOBBES
PO BOX 1980, Hobbs, NM 88241
(505) 393-6161
FAX (505) 393-0720

Jennifer A. Salisbury
CABINET SECRETARY

May 13, 1999

Mr. James Knipe
Bristol Resources
6655 South Lewis Suite 200
Tulsa, Oklahoma 74136

Re: South Langley Jal Unit

Dear Mr. Knipe,

New Mexico Oil Conservation Division (NMOCD) is in receipt of Bristol Resources's Environmental Assessment dated May 1, 1999. **Before any determination can be made, NMOCD hereby requests the following:**

1. Bristol Resources demonstrate that any remaining water contaminant will not impact groundwater or environment.
2. Bristol Resources shall perform Vertical and Horizontal delineation by sampling for BTEX, TPH and Chlorides analysis of the referenced location above.

Please submit to NMOCD by July 13, 1999. If you have any questions or require any further information or assistance please do not hesitate to call (505-393-6161 ext...113) or write this office.

Sincerely,

A handwritten signature in cursive script that reads "Donna Williams". The signature is written in black ink on a white background.

Donna Williams-Environmental Engineer

Cc: Chris Williams, Wayne Price

**BRISTOL
RESOURCES**

Corporation | May 1, 1999

Oil Conservation Division
Attn: Donna Williams
1625 North French Drive
Hobbs, New Mexico 88240

6655 South Lewis
Suite 200
Tulsa, Oklahoma 74136
(918) 492-7900
FAX (918) 492-7944

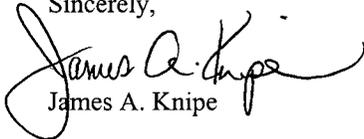
Re: South Langley Jal Unit
Lea Co. New Mexico

Dear Ms. Williams:

Enclosed please find one copy of the Phase II environmental report prepared by Cornerstone Environmental Resources, Inc. for Bristol Resources on the referenced property for your files.

If additional information is needed please contact John Alderman at Cornerstone Environmental or myself at (918) 492-7900.

Sincerely,


James A. Knipe

Copy: Cornerstone-John Alderman