

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

Application of Coulthurst Management & Investment, LLC, to Re-Open Case No. 14835 to Amend Order No. R-2975-A, Sandoval County, New Mexico.

CASE NO. 14835

AFFIDAVIT OF PAUL C. THOMPSON

STATE OF NEW MEXICO)
) ss.
COUNTY SAN JUAN)

I, Paul C. Thompson, being first duly sworn on oath, state as follows:

1. My name is Paul C. Thompson and I reside in Farmington, New Mexico. I am a petroleum engineer employed by Walsh Engineering and Production Corp. and, in that capacity, serve as agent to Coulthurst Management & Investment, LLC ("Coulthurst").
2. Coulthurst seeks to re-open Case No. 14835 to amend Order No. R-2975-A for authorization to inject through the Erin No. 2 well (API # 30-043-20862), located 990 feet from the North line and 2,310 feet from the West line (Unit C) of Section 33, Township 18 North, Range 3 West, N.M.P.M., Sandoval County, New Mexico, into additional shallower intervals than originally approved.
3. Coulthurst's application to amend Order No. R2975 sought to authorize injection into the Erin No. 2 in the Menefee formation through perforations between 535 feet and 580 feet. The Division heard that application on May 10, 2012, and authorization to inject was approved by Order No. R-2975 on August 29, 2012.
4. When attempting to perform the required mechanical integrity test on the Erin No. 2 prior to commencing injection, I discovered that the Erin No. 2 has additional perforations in the well bore in some upper Menefee formation sands at approximately 438 feet to 453 feet, and from 456 feet to 461 feet.
5. Exhibit A, attached hereto, is a copy of the amended C-108 depicting the Injection Well Data Sheet for the Erin No. 2 well, and a revised well-bore diagram indicating the locations of the additional shallower perforations and target injection intervals.
6. As a consequence of the shallower perforations, from approximately 438 feet to 453 feet and from 456 feet to 461 feet, the location of the injection packer will be placed at a depth of approximately 400 feet, instead of the originally proposed depth of

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. 6
Submitted by:
COULTHURST MGMT & INVESTMETN, LLC
Hearing Date: February 7, 2013

approximately 500 feet. The change in the injection packer depth setting is depicted in the Injection Well Data Sheet and well-bore diagram for the Erin No. 2 well in Exhibit A.

7. Also as a consequence of the additional shallower perforations in the Erin No. 2 well, the proposed maximum injection pressure will be reduced from 105 pounds per square inch, as approved in Order No. R-2975-A, to 87 pounds per square inch to correspond to the shallower top-most perforation in the well.
8. The offsetting producing wells, Erin No. 3 and Erin No. 9, which are expected to demonstrate a positive response from injection and pressure maintenance through the Erin No. 2, are completed in the same upper Menefee formation sands as the shallower perforations in the Erin No. 2. Accordingly, my analysis and conclusion that injection through the Erin No. 2 will benefit production in the Erin No. 3 and Erin No. 9 wells, thereby reducing waste, remains valid.
9. I have reviewed the offsetting wells that penetrate the injection interval within the half-mile area of review. There are no additional wells that penetrate the injection interval within the half-mile area of review since Order No. R-2985-A was approved. Based on my review, I have confirmed my original analysis and conclusion that these wells are adequately cemented across the injection interval, that the injection system will be closed, and that no water injected through the Erin No. 2 will escape the Menefee formation.
10. Exhibit B, attached hereto, is a letter from John Coulthurst, President of Coulthurst Management & Investment, LLC, stating that the pressure maintenance project area, as approved by Order No. R-2975-A, remains the same and coterminous with federal lease NMSF 008 117 1 K. Accordingly, the pressure maintenance project will remain as originally approved under Order No. R-2975-A, and will be approximately 520 acres in size, consisting of the W/2, N/2 NE/4, N/2 SE/4, SE/4 SE/4 of Section 33, Township 18 North, Range 3 West, N.M.P.M., Sandoval County, New Mexico.
11. As part of Coulthurst's application in this matter, I identified and directed that notice of Coulthurst's application and this hearing be provided to (a) each leasehold operator or other affected person within any tract wholly or partially contained within one-half mile of the well; and (b) to each owner of the land surface on which each injection well is to be located.
12. As in the original application, the only leasehold operator or other affected person within any tract wholly or partially contained within one-half mile of the proposed injection well is Three Forks Resources, LLC. None of the interests or affected parties have changed since the original application or Order No. R-2975-A was approved. Accordingly, I directed that notice of the application and hearing be provided to Three Forks Resources, LLC.

13. In this case, the owner of the land surface on which the proposed injection well is located is the Bureau of Land Management ("BLM"). Accordingly, I directed that notice of this application and hearing be provided to the BLM Farmington Field Office.
14. Exhibit C, attached hereto, consists of an affidavit from our attorney confirming that notice of Coulthurst's application and this hearing was indeed provided as requested.
15. Exhibit D, attached hereto, is a copy of the notice letter that was sent to the affected parties, i.e. Three Forks Resources, LLC, and to the BLM Farmington Field Office, together with copies of the return receipts and green cards demonstrating that notice of the application and hearing was received.
16. All other aspects of the proposed injection, including my analysis and conclusions supporting Order No. R-2975-A, remain the same.
17. It is my opinion that granting this application will not result in waste or impair correlative rights.

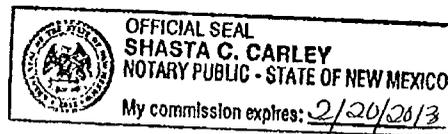
FURTHER AFFIANT SAYETH NOT.

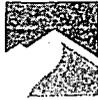
Paul C. Thompson

SUBSCRIBED AND SWORN before me on this 31st day of January, 2013.

Shasta C. Carley
Notary Public

My Commission Expires:
February 20, 2013





January 4, 2013

RECEIVED
2013 JAN 14 PM 1:19

VIA HAND DELIVERY

Jami Bailey, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

**Re: Case No. 14835: Application of Coulthurst Management & Investment, LLC,
to Re-Open Case No. 14835 to Amend Order No. R-2975-A.**

Dear Ms. Bailey:

Enclosed in triplicate is the above-referenced application of Coulthurst Management & Investment, LLC ("Coulthurst") to re-open Case No. 14835 for the purpose of amending Order No. R-2975-A, to approve an injection interval that is shallower than originally authorized. Included with this Application is a copy of the original C-108 application for reference marked Exhibit A, and a proposed legal advertisement. Coulthurst requests that this matter be placed on the docket for the February 7, 2013, examiner hearing.

Very truly yours,

Adam G. Rankin
ATTORNEY FOR COULTHURST MANAGEMENT &
INVESTMENT, LLC

Enclosures

cc: Paul Thompson, Walsh Eng'g



CASE NO. 14835: **Application of Coulthurst Management & Investment, LLC, to Re-Open Case No. 14835 to Amend Order No. R-2975-A.** Applicant in the above-styled cause seeks authorization to inject produced water in the Menefee formation, South San Luis-Mesaverde Pool, through the Erin No. 2 well (API 30-043-20862), located 990 feet from the North line and 2310 from the West line (Unit C) of Section 33, Township 18 North, Range 3 West, N.M.P.M., Sandoval County, New Mexico. Applicant seeks to amend Order No. R-2975-A for authorization to inject into additional zones within the Menefee at approximately 438-453 feet and 456-461 feet. Applicant proposed to inject at a pressure of approximately 87 pounds per square inch. The proposed project area is approximately 520 acres in size, consisting of the W/2, N/2 NE/4, N/2 SE/4, SE/4 SE/4 of said Section. The Erin No. 2 well and proposed project area are located approximately 6 miles southeast of Torreon, New Mexico.

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No

II. OPERATOR: Coulthurst Management & Inv., LLC

ADDRESS: 5319 Broadway Terrace #303, Oakland, CA 94618

CONTACT PARTY: Paul Thompson, c/o Walsh Engineering, 7415 E. Main St., Farmington, NM 87402 PHONE: (505) 327-4892

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____ Yes _____ No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Paul C. Thompson, P.E. TITLE: Agent

SIGNATURE: Paul C. Thompson DATE: December 18, 2012

E-MAIL ADDRESS: paul@walsheng.net

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

Tubing Size: 2-3/8" Lining Material: None

Type of Packer: Downhole Tools Model AD-1

Packer Setting Depth: Approx. 400'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____ Yes X No

If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: Menefee

3. Name of Field or Pool (if applicable): South San Luis Mesa Verde Oil Pool

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. _____ No _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: None

Coulthurst Management Investments, Inc., LLC

Erin #2 Injection Well

C 108 Data Sheet

V. See Attached Map

VI. See Attached Tabulation Sheet

VII. Operation Data

1. A. Average Daily Injection Rate = 60 bbls
Maximum Daily Injection Rate = 100 bbls
B. Proposed Volume 150,000 bbls
2. The system is closed
3. Proposed Pressures
 - A. Average and maximum injection pressures will be 87 psi until a step/rate test is completed.
4. Source of Injection Fluid
 - A. Erin #9 (B Sec. 33, T18N, R3W) and the Erin #3 (F Sec. 33, T18N, R3W). Both wells are Menefee completions so the waters should be compatible.
5. Not Applicable

VIII. Geology

The reservoir is a series of sand bars or near shore marine deposition intermingled with shales all of which seem to have been affected by stream bed arrangement in the immediate area. There are no known domestic water wells within one mile of the proposed injection well (Office of the State Engineer). All of the proposed injection water, and the in-situ water in the Erin #2, has been tested at less than 10,000 TDS.

- IX. No stimulation in the Erin #2 is anticipated.
- X. Well logs are on file with the NMOCD.
- XI. Analysis of the San Luis Water Well #1 is attached
- XII. Not Applicable
- XIII. See attached certified mail receipts.

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes No
- II. OPERATOR: Coulthurst Management & Inv., LLC
ADDRESS: 5319 Broadway Terrace #303, Oakland, CA 94618
CONTACT PARTY: Paul Thompson, c/o Walsh Engineering, 7415 E. Main St., Farmington, NM 87402 PHONE: (505) 327-4892
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Paul C. Thompson, P.E. TITLE: Agent
SIGNATURE: Paul C. Thompson DATE: April 3, 2012
E-MAIL ADDRESS: paul@walsheng.net
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

EXHIBIT A

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

Tubing Size: 2-3/8" Lining Material: Plastic

Type of Packer: Arrow Set 1 with on-off tool

Packer Setting Depth: Approx. 500'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____ Yes No

If no, for what purpose was the well originally drilled? Oil production

2. Name of the Injection Formation: Menefee

3. Name of Field or Pool (if applicable): South San Luis -- Mesa Verde Oil Pool

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. _____ No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: None

Well Tabulation Sheet

Wells Within One-Half Mile of Erin #2

Unit	Section	Operator	Well	Location		Spud Date	GL Elev.	Casing Surface	Production	T.D.	Status	
				N - S	E - W							
O N	28	Coulthurst Mgmt & Inv., Inc	Jenny #1	990/S	2310/E	9/10/1993	6507	8-5/8" @ ?	4-1/2" @ 614'	763'	P&A	Plug with 54 cu.ft. from TD to surface.
		Three Forks Resources	George #1	1069/S	2182/W	4/6/2006	6552	9-5/8" @ 127'	4-1/2" @ 860'	865'	Producing	
A	33	Noel Reynolds	Ann #1	326/N	1086/E	8/30/1965	6520		2-7/8" @ 620'	1010'	P&A	Plug with 28 sx from TD to surface.
A	33	Entrada Corp.	Federal #1-33	990/N	990/E	11/3/1957	6460	16" @ 30'		880'	P&A	Btm from 780- 880'. Int plug from 250 - 450'. Surface plug 0 - 10'. Convert to a Water Well
A	33	Coulthurst Mgmt & Inv., Inc	Water Well #1	1224/N	968/E	9/XX/65	6467	7" @ ??	4-1/2" @ 800'	1001'		
B B	33	Coulthurst Mgmt & Inv., Inc	Erin #9	990/N	2310/E	8/13/1996	6474	8-5/8" @ 120'	4-1/2" @ 1006'	1010'	Producing	Plug with 30 sx from 550 - 650'. Plug with 30 sx from 0 to 100'.
		Rader Oil Co.	Ann #10R	605/N	1592/E	12/5/1984	6478			650'	P&A	
C C	33	Coulthurst Mgmt & Inv., Inc	Erin #1	990/N	1650/W	11/8/1991	6493	8-5/8" @ 40'	4-1/2" @ 736'	750'	P&A	Plug with 50 sx from 736' to surface. Top off with 15 sx. Plug with 16 sk plug from 100' to surface.
		Noel Reynolds	Ann #19	660/N	2030/W	12/8/1987	6459	7" @ 34'	4-1/2" @ 604'	605'	P&A	
F F	33	Coulthurst Mgmt & Inv., Inc	Erin #4	1650/N	2310/W	7/18/1992	6437	8-5/8" @ 78'	4-1/2" @ 708'	720'	P&A	Plug with 57 sx Cl "B" from TD to surface.
		Coulthurst Mgmt & Inv., Inc	Erin #3	1650/N	1650/W	10/5/1992	6463	8-5/8" @ 80'	4-1/2" @ 660'	660'	Producing	
G	33	J.I. Harvey	Federal #2	1650/N	1650/E	9/29/1959	6590	6-1/2" @ 30'		820'	P&A	Bottom plug from 720' to 820'. Plug from 520 to 570'. Plug from 0 to 50'.

NMNM 114365
THREE FORKS RESOURCES

SE/SE SEC 29
NMNM 026349
LEASE CANCELLED

1/2 MILE

NMNM 124214
THREE FORKS RESOURCES

GEORGE

GEORGE

SEC 32 NMNM 114366 THREE FORKS RESOURCES

003
005
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004
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014 019
001 ERIN 002
017 018 010R
ERIN 009
004 001 002 003 005
007 009
002 007

ERIN
003

BLM LEASE
CANCELED

NMNM 115008
THREE FORKS RESOURCES

NMSF 0081171K
Coulthurst Mgmt.

33

009
004 004 002 002 005
003 001 006

04

NMNM 114364

02

Coulthurst Management Investments, Inc., LLC

Erin #2 Injection Well

C 108 Data Sheet

V. See Attached Map

VI. See Attached Tabulation Sheet

VII. Operation Data

1. A. Average Daily Injection Rate = 60 bbls
Maximum Daily Injection Rate = 100 bbls
B. Proposed Volume 150,000 bbls
2. The system is closed
3. Proposed Pressures
 - A. Average and maximum injection pressures will be 105 psi until a step/rate test is completed.
4. Source of Injection Fluid
 - A. Erin #9 (B Sec. 33, T18N, R3W) and the Erin #3 (F Sec. 33, T18N, R3W). Both wells are Menefee completions so the waters should be compatible.
5. Not Applicable

VIII. Geology

The reservoir is a series of sand bars or near shore marine deposition intermingled with shales all of which seem to have been affected by stream bed arrangement in the immediate area. There are no known domestic water wells within one mile of the proposed injection well (Office of the State Engineer). All of the proposed injection water, and the in-situ water in the Erin #2, has been tested at less than 10,000 TDS.

- IX. No stimulation in the Erin #2 is anticipated.
- X. Well logs are on file with the NMOCD.
- XI. Analysis of the San Luis Water Well #1 is attached
- XII. Not Applicable
- XIII. See attached certified mail receipts.

DRAFT

April 3, 2012

CERTIFIED MAIL

Three Forks Resources, LLC
1775 Sherman St., Suite #1675
Denver, CO 80203

Re: Application for Pressure Maintenance Project
Erin #2
900' FNL & 2310' FWL,
Section 33, T18N, R3W
Sandoval Co., NM

Dear Lease Operator,

Coulthurst Management and Investments, Inc., LLC has applied to the New Mexico Oil and Gas Conservation Division (NMOCD) for approval to inject produced water from offset producing Menefee wells into the Menefee interval in the Erin #2 well, for pressure maintenance purposes. You are being notified of this application pursuant to NMOCD rules.

The Erin #2 well, described above, is perforated in the South San Luis Menefee pool from 525' to 580'. The maximum expected injection pressure is 105 psi until a step – rate test can be completed and the maximum anticipated injection rate is 100 BPD.

If you have no objections to this application then no action is required on your part. If you would like to file an objection or request a hearing, please notify the NMOCD at 1220 South St. Francis Dr., Santa Fe, NM 87505 within 15 days of receipt of this notice. If you have any questions or need additional information, please call or write me at the letterhead address.

Sincerely,

Paul C. Thompson, P.E.



EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Coulthurst Mgmt	Project #:	06027-0002
Sample ID:	NENW, 33, 18N, 3W Sandoval Co	Date Reported:	07-14-11
Laboratory Number:	58911	Date Sampled:	
Chain of Custody No:	12164	Date Received:	07-12-11
Sample Matrix:	Aqueous	Date Extracted:	07-13-11
Preservative:	Cool	Date Analyzed:	07-13-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Gasoline Range (C5 - C10)	0.5	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.5	0.1

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments:

Erin #2

Analyst

Review



EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	0713TBLK QA/QC	Date Reported:	07-14-11
Laboratory Number:	58909	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-13-11
Condition:	N/A	Analysis Requested:	TPH

	L-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	1.0000E+000	9.9800E-001	0.20%	0 - 15%
Diesel Range C10 - C28	9.9372E-001	9.9173E-001	0.20%	0 - 15%

Blank Conc. (mg/L)	Concentration	Detection Limit
Gasoline Range C5 - C10	3.7	0.2
Diesel Range C10 - C28	7.9	0.1

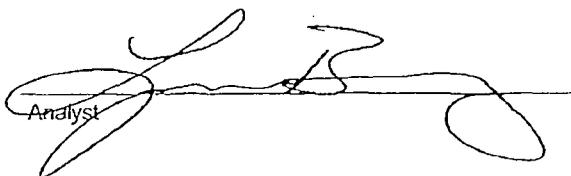
Duplicate Conc. (mg/L)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	0.3	0.3	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

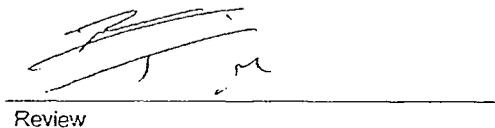
Spike Conc. (mg/L)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	0.3	25.0	24.8	98.0%	75 - 125%
Diesel Range C10 - C28	ND	25.0	24.8	99.2%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Sample 58909-58912


Analyst


Review



**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	Coulthurst Mgmt	Project #:	06027-0002
Sample ID:	NENW 33, 18N, 3W Sandoval Co	Date Reported:	07-15-11
Chain of Custody:	12164	Date Sampled:	
Laboratory Number:	58911	Date Received:	07-12-11
Sample Matrix:	Aqueous	Date Analyzed:	07-14-11
Preservative:	Cool	Analysis Requested:	BTEX
Condition:	Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	7.2	1	0.2
Toluene	24.0	1	0.2
Ethylbenzene	37.1	1	0.2
p,m-Xylene	159	1	0.2
o-Xylene	74.7	1	0.1

Total BTEX 302

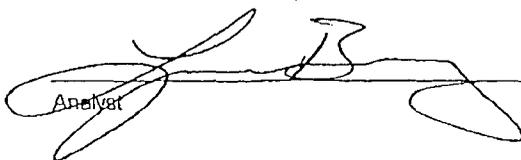
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	fluorobenzene	88.0 %
	1,4-difluorobenzene	94.0 %
	4-bromochlorobenzene	104 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: Erin #2


Analyst


Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS
QUALITY ASSURANCE REPORT

Client:	N/A	Project #:	N/A
Sample ID:	0714BBLK QA/QC	Date Reported:	07-15-11
Laboratory Number:	58909	Date Sampled:	N/A
Sample Matrix:	Aqueous	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-14-11
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
			Accept. Range 0 - 15%		
Benzene	2.9392E+006	2.9480E+006	0.3%	ND	0.2
Toluene	2.9994E+006	3.0084E+006	0.3%	ND	0.2
Ethylbenzene	2.6453E+006	2.6532E+006	0.3%	ND	0.2
p,m-Xylene	7.0148E+006	7.0359E+006	0.3%	ND	0.2
o-Xylene	2.4121E+006	2.4193E+006	0.3%	ND	0.1

Duplicate Conc. (ug/L)	Sample	Duplicate	%Diff	Accept Limit
Benzene	6.9	7.1	3.7%	0 - 30%
Toluene	5.2	5.7	9.4%	0 - 30%
Ethylbenzene	30.2	28.9	4.1%	0 - 30%
p,m-Xylene	87.3	83.9	3.9%	0 - 30%
o-Xylene	55.8	52.7	5.6%	0 - 30%

Spike Conc. (ug/L)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Limits
Benzene	6.9	50.0	59.9	105%	39 - 150
Toluene	5.2	50.0	53.7	97.2%	46 - 148
Ethylbenzene	30.2	50.0	85.6	107%	32 - 160
p,m-Xylene	87.3	100	140	74.8%	46 - 148
o-Xylene	55.8	50.0	104	98.1%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 58909-58912


Analyst


Review

Chloride

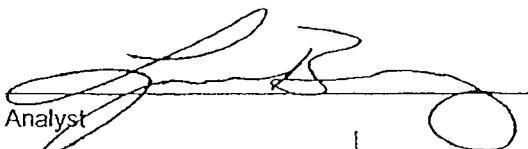
Client:	Coulthurst Mgmt	Project #:	06027-0002
Sample ID:	NENW 33, 18N, 3W Sandoval Co	Date Reported:	07/13/11
Lab ID#:	58911	Date Sampled:	
Sample Matrix:	Aqueous	Date Received:	07/12/11
Preservative:	Cool	Date Analyzed:	07/13/11
Condition:	Intact	Chain of Custody:	12164

Parameter	Concentration (mg/L)
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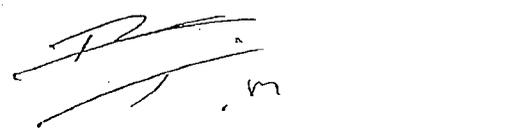
Total Chloride	10
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Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Erin #2



Analyst



Review



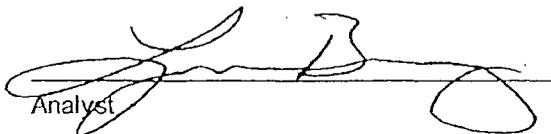
Client:	Coulthurst Mgmt	Project #:	06027-0002
Sample ID:	NENW 33, 18N, 3W Sandoval Co	Date Reported:	07/15/11
Laboratory Number:	58911	Date Sampled:	
Sample Matrix:	Aqueous	Date Received:	07/12/11
Preservative:	Cool	Date Analyzed:	07/13/11
Condition:	Intact	Chain of Custody:	12164

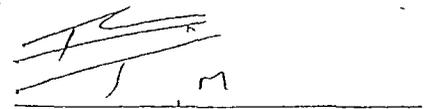
Parameter	Analytical Result	Units
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Total Dissolved Solids @ 180C	1,370	mg/L
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Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Erin #2


Analyst


Review

CHAIN OF CUSTODY RECORD

12164

Client: Coulthurst Mgmt			Project Name / Location: Erin # 2			ANALYSIS / PARAMETERS															
Client Address:			Sampler Name: Phillip Montoya			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	TDS	Sample Cool	Sample Intact			
Client Phone No.:			Client No.: 06027-0002																		
Sample No/ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl ₂ HCl															
NENW 33, 18N, 3W Sandoval Co			58911	Soil Sludge	2																
				Solid Aqueous																	
				Soil Sludge																	
				Solid Aqueous																	
				Soil Sludge																	
				Solid Aqueous																	
				Soil Sludge																	
				Solid Aqueous																	
				Soil Sludge																	
				Solid Aqueous																	
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time										
<i>Phillip Montoya</i>				7/12/11	1:25	<i>Randi Vaguera</i>				7/12/11	1:05										
Relinquished by: (Signature)						Received by: (Signature)															
Relinquished by: (Signature)						Received by: (Signature)															



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**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Coulhurst Mgmt	Project #:	06027-0002
Sample ID:	NMSF081171K SENW33, 18N,,3W	Date Reported:	07-14-11
Laboratory Number:	58909	Date Sampled:	
Chain of Custody No:	12162	Date Received:	07-12-11
Sample Matrix:	Aqueous	Date Extracted:	07-13-11
Preservative:	Cool	Date Analyzed:	07-13-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Gasoline Range (C5 - C10)	0.3	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.3	0.1

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments:

Erin #3

Analyst

Review



EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	0713TBLK QA/QC	Date Reported:	07-14-11
Laboratory Number:	58909	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-13-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal RE	C-Cal RE	% Difference	Accept Range
Gasoline Range C5 - C10	1.0000E+000	9.9800E-001	0.20%	0 - 15%
Diesel Range C10 - C28	9.9372E-001	9.9173E-001	0.20%	0 - 15%

Blank Conc. (mg/L)	Concentration	Detection Limit
Gasoline Range C5 - C10	3.7	0.2
Diesel Range C10 - C28	7.9	0.1

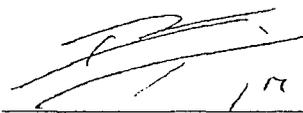
Duplicate Conc. (mg/L)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	0.3	0.3	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/L)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	0.3	25.0	24.8	98.0%	75 - 125%
Diesel Range C10 - C28	ND	25.0	24.8	99.2%	75 - 125%

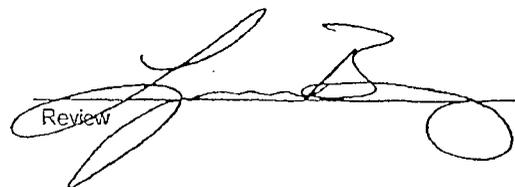
ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Sample 58909-58912



Analyst



Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Coulthurst Mgmt	Project #:	06027-0002
Sample ID:	NMSF 081171K SENW33, 18N,3W	Date Reported:	07-15-11
Chain of Custody:	12162	Date Sampled:	
Laboratory Number:	58909	Date Received:	07-12-11
Sample Matrix:	Aqueous	Date Analyzed:	07-14-11
Preservative:	Cool	Analysis Requested:	BTEX
Condition:	Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	6.9	1	0.2
Toluene	5.2	1	0.2
Ethylbenzene	30.2	1	0.2
p,m-Xylene	87.3	1	0.2
o-Xylene	55.8	1	0.1

Total BTEX 185

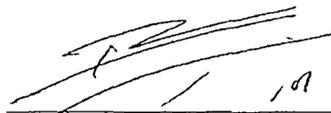
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	fluorobenzene	90.3 %
	1,4-difluorobenzene	94.3 %
	4-bromochlorobenzene	94.5 %

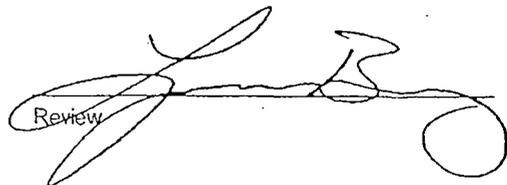
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: Erin #3



Analyst



Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS
QUALITY ASSURANCE REPORT

Client:	N/A	Project #:	N/A
Sample ID:	0714BBLK QA/QC	Date Reported:	07-15-11
Laboratory Number:	58909	Date Sampled:	N/A
Sample Matrix:	Aqueous	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-14-11
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	2.9392E+006	2.9480E+006	0.3%	ND	0.2
Toluene	2.9994E+006	3.0084E+006	0.3%	ND	0.2
Ethylbenzene	2.6453E+006	2.6532E+006	0.3%	ND	0.2
p,m-Xylene	7.0148E+006	7.0359E+006	0.3%	ND	0.2
o-Xylene	2.4121E+006	2.4193E+006	0.3%	ND	0.1

Duplicate Conc: (ug/L)	Sample	Duplicate	%Diff	Accept Limit
Benzene	6.9	7.1	3.7%	0 - 30%
Toluene	5.2	5.7	9.4%	0 - 30%
Ethylbenzene	30.2	28.9	4.1%	0 - 30%
p,m-Xylene	87.3	83.9	3.9%	0 - 30%
o-Xylene	55.8	52.7	5.6%	0 - 30%

Spike Conc: (ug/L)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Limits
Benzene	6.9	50.0	59.9	105%	39 - 150
Toluene	5.2	50.0	53.7	97.2%	46 - 148
Ethylbenzene	30.2	50.0	85.6	107%	32 - 160
p,m-Xylene	87.3	100	140	74.8%	46 - 148
o-Xylene	55.8	50.0	104	98.1%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 58909-58912

Analyst

Review



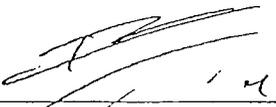
Client:	Coulthurst Mgmt	Project #:	06027-0002
Sample ID:	NMSF081171K SENW 33, 18N,, 3W	Date Reported:	07/13/11
Lab ID#:	58909	Date Sampled:	
Sample Matrix:	Aqueous	Date Received:	07/12/11
Preservative:	Cool	Date Analyzed:	07/13/11
Condition:	Intact	Chain of Custody:	12162

Parameter	Concentration (mg/L)
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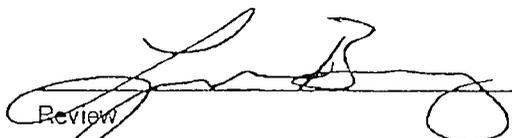
Total Chloride 30

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Erin #3



Analyst



Review



Water Analysis

Client:	Coulthurst Mgmt	Project #:	06027-0002
Sample ID:	NMSF 081171K SENW 33, 18N,,3W	Date Reported:	07/15/11
Laboratory Number:	58909	Date Sampled:	
Sample Matrix:	Aqueous	Date Received:	07/12/11
Preservative:	Cool	Date Analyzed:	07/13/11
Condition:	Intact	Chain of Custody:	12162

Parameter	Analytical Result	Units
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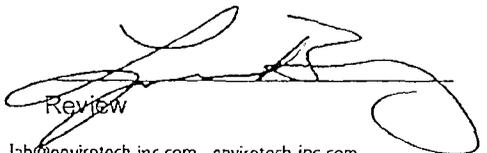
Total Dissolved Solids @ 180C	1,390	mg/L
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Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Erin #3**



Analyst



Review

CHAIN OF CUSTODY RECORD

12162

Client: Caulthorst Mgmt			Project Name / Location: Erin #3			ANALYSIS / PARAMETERS																
Client Address:			Sampler Name: Phillip Montoya			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	TDS	Sample Cool	Sample Intact				
Client Phone No.:			Client No.: 06027-0002																			
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative H ₂ O ₂ HCl		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	TDS	Sample Cool	Sample Intact		
MSE081171K SENW33, 18N,, 3W			58909	Soil Sludge Solid <u>Aqueous</u>	2 jars			X	X								X	X		Y	Y	
				Soil Sludge Solid Aqueous																		
				Soil Sludge Solid Aqueous																		
				Soil Sludge Solid Aqueous																		
				Soil Sludge Solid Aqueous																		
				Soil Sludge Solid Aqueous																		
				Soil Sludge Solid Aqueous																		
				Soil Sludge Solid Aqueous																		
				Soil Sludge Solid Aqueous																		
Relinquished by: (Signature) <i>Phillip Montoya</i>				Date	Time	Received by: (Signature) <i>Randi Vaguera</i>				Date	Time											
Relinquished by: (Signature)				7/12/11	1:05	Received by: (Signature)				7/12/11	1:05											
Relinquished by: (Signature)						Received by: (Signature)																



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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

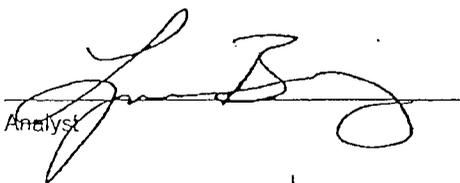
Client: Coulturst Mgmt Project #: 06027-0002
Sample ID: MWNE, 33, 18N, 3W NMSF-081171K Date Reported: 07-14-11
Laboratory Number: 58910 Date Sampled:
Chain of Custody No: 12163 Date Received: 07-12-11
Sample Matrix: Aqueous Date Extracted: 07-13-11
Preservative: Cool Date Analyzed: 07-13-11
Condition: Intact Analysis Requested: 8015 TPH

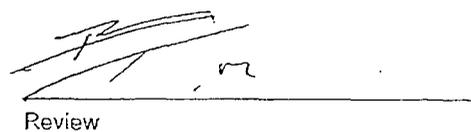
Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Gasoline Range (C5 - C10)	0.8	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.8	0.1

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Erin #9


Analyst


Review



EPA Method 8015 Modified
 Nonhalogenated Volatile Organics
 Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	0713TBLK QA/QC	Date Reported:	07-14-11
Laboratory Number:	58909	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-13-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	1.0000E+000	9.9800E-001	0.20%	0 - 15%
Diesel Range C10 - C28	9.9372E-001	9.9173E-001	0.20%	0 - 15%

Blank Conc. (mg/L)	Concentration	Detection Limit
Gasoline Range C5 - C10	3.7	0.2
Diesel Range C10 - C28	7.9	0.1

Duplicate Conc. (mg/L)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	0.3	0.3	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

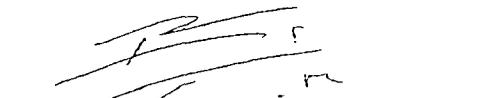
Spike Conc. (mg/L)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	0.3	25.0	24.8	98.0%	75 - 125%
Diesel Range C10 - C28	ND	25.0	24.8	99.2%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Sample 58909-58912


 Analyst


 Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Coulthurst Mgmt	Project #:	06027-0002
Sample ID:	MWNE, 33, 18N, 3W NMSF-081171K	Date Reported:	07-15-11
Chain of Custody:	12163	Date Sampled:	
Laboratory Number:	58910	Date Received:	07-12-11
Sample Matrix:	Aqueous	Date Analyzed:	07-14-11
Preservative:	Cool	Analysis Requested:	BTEX
Condition:	Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	8.4	1	0.2
Toluene	58.6	1	0.2
Ethylbenzene	53.8	1	0.2
p,m-Xylene	305	1	0.2
o-Xylene	112	1	0.1

Total BTEX 538

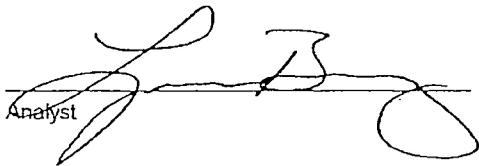
ND - Parameter not detected at the stated detection limit.

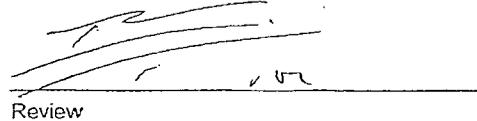
Surrogate Recoveries:	Parameter	Percent Recovery
	fluorobenzene	90.5 %
	1,4-difluorobenzene	91.9 %
	4-bromochlorobenzene	102 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: Erin #9

Analyst 

Review 



EPA METHOD 8021
 AROMATIC VOLATILE ORGANICS
 QUALITY ASSURANCE REPORT

Client:	N/A	Project #:	N/A
Sample ID:	07148BLK QA/QC	Date Reported:	07-15-11
Laboratory Number:	58909	Date Sampled:	N/A
Sample Matrix:	Aqueous	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-14-11
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF: Accept. Range 0 - 15%	%Diff:	Blank Conc.	Detect. Limit
Benzene	2.9392E+006	2.9480E+006	0.3%	ND	0.2
Toluene	2.9994E+006	3.0084E+006	0.3%	ND	0.2
Ethylbenzene	2.6453E+006	2.6532E+006	0.3%	ND	0.2
p,m-Xylene	7.0148E+006	7.0359E+006	0.3%	ND	0.2
o-Xylene	2.4121E+006	2.4193E+006	0.3%	ND	0.1

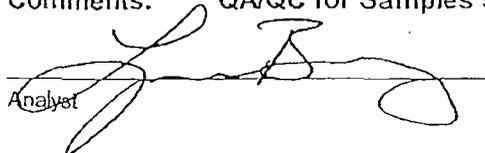
Duplicate Conc: (ug/L)	Sample	Duplicate	%Diff	Accept Limit
Benzene	6.9	7.1	3.7%	0 - 30%
Toluene	5.2	5.7	9.4%	0 - 30%
Ethylbenzene	30.2	28.9	4.1%	0 - 30%
p,m-Xylene	87.3	83.9	3.9%	0 - 30%
o-Xylene	55.8	52.7	5.6%	0 - 30%

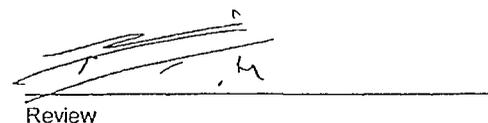
Spike Conc. (ug/L)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Limits
Benzene	6.9	50.0	59.9	105%	39 - 150
Toluene	5.2	50.0	53.7	97.2%	46 - 148
Ethylbenzene	30.2	50.0	85.6	107%	32 - 160
p,m-Xylene	87.3	100	140	74.8%	46 - 148
o-Xylene	55.8	50.0	104	98.1%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
 Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 58909-58912


 Analyst


 Review



Chloride

Client:	Coulthurst Mgmt	Project #:	06027-0002
Sample ID:	MWNE.33, 18N 3W, NMSF-081171K	Date Reported:	07/13/11
Lab ID#:	58910	Date Sampled:	
Sample Matrix:	Aqueous	Date Received:	07/12/11
Preservative:	Cool	Date Analyzed:	07/13/11
Condition:	Intact	Chain of Custody:	12163

Parameter	Concentration (mg/L)
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Total Chloride	15
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Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Erin #9**

Analyst

Review



Water Analysis

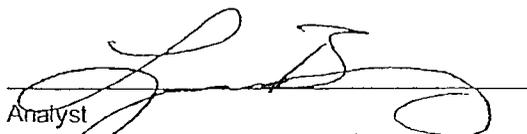
Client:	Coulthurst Mgmt	Project #:	06027-0002
Sample ID:	MWNE, 33, 18N 3W, NMSF-081171K	Date Reported:	07/15/11
Laboratory Number:	58910	Date Sampled:	
Sample Matrix:	Aqueous	Date Received:	07/12/11
Preservative:	Cool	Date Analyzed:	07/13/11
Condition:	Intact	Chain of Custody:	12163

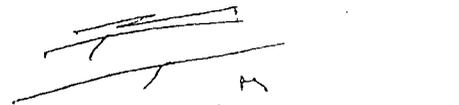
Parameter	Analytical Result	Units
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Total Dissolved Solids @ 180C	1,320	mg/L
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Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Erin #9**


Analyst


Review

CHAIN OF CUSTODY RECORD

12163

Client: <i>Caulthurst Mont Erin #9</i>			Project Name / Location: <i>Erin #9</i>				ANALYSIS / PARAMETERS												
Client Address:			Sampler Name: <i>Phillip Montoya</i>				TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	TDS	Sample Cool	Sample Intact
Client Phone No.:			Client No.: <i>06027-0002</i>																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative													
<i>MWNE, 33, 18N 3W, NMSF -081171K</i>			<i>58910</i>	Soil Sludge Solid <u>Aqueous</u>	<i>2 Mason jars</i>														
				Soil Sludge Solid Aqueous															
				Soil Sludge Solid Aqueous															
				Soil Sludge Solid Aqueous															
				Soil Sludge Solid Aqueous															
				Soil Sludge Solid Aqueous															
				Soil Sludge Solid Aqueous															
				Soil Sludge Solid Aqueous															
Relinquished by: (Signature) <i>Phillip Montoya</i>				Date	Time	Received by: (Signature) <i>Randi Vaguere</i>				Date	Time								
Relinquished by: (Signature)						Received by: (Signature)													
Relinquished by: (Signature)						Received by: (Signature)													



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**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Coulthurst Mgmt	Project #:	06027-0002
Sample ID:	NMSF 081171K API 30-043-20887	Date Reported:	07-14-11
Laboratory Number:	58912	Date Sampled:	
Chain of Custody No:	12165	Date Received:	07-12-11
Sample Matrix:	Aqueous	Date Extracted:	07-13-11
Preservative:	Cool	Date Analyzed:	07-13-11
Condition:	Intact	Analysis Requested:	8015 TPH

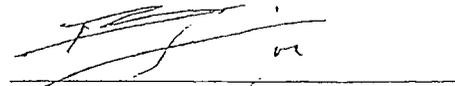
Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.1

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **So. San Luis Water Well #1**


Analyst


Review



EPA Method 8015 Modified
 Nonhalogenated Volatile Organics
 Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	0713TBLK QA/QC	Date Reported:	07-14-11
Laboratory Number:	58909	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-13-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	1.0000E+000	9.9800E-001	0.20%	0 - 15%
Diesel Range C10 - C28	9.9372E-001	9.9173E-001	0.20%	0 - 15%

Blank Conc. (mg/L)	Concentration	Detection Limit
Gasoline Range C5 - C10	3.7	0.2
Diesel Range C10 - C28	7.9	0.1

Duplicate Conc. (mg/L)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	0.3	0.3	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/L)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	0.3	25.0	24.8	98.0%	75 - 125%
Diesel Range C10 - C28	ND	25.0	24.8	99.2%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Sample 58909-58912


 Analyst


 Review



**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	Coulthurst Mgmt	Project #:	06027-0002
Sample ID:	NMSF 081171K API 30-043-20887	Date Reported:	07-15-11
Chain of Custody:	12165	Date Sampled:	
Laboratory Number:	58912	Date Received:	07-12-11
Sample Matrix:	Aqueous	Date Analyzed:	07-14-11
Preservative:	Cool	Analysis Requested:	BTEX
Condition:	Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	2.3	1	0.2
Toluene	ND	1	0.2
Ethylbenzene	0.5	1	0.2
p,m-Xylene	1.4	1	0.2
o-Xylene	0.8	1	0.1

Total BTEX 5.0

ND - Parameter not detected at the stated detection limit.

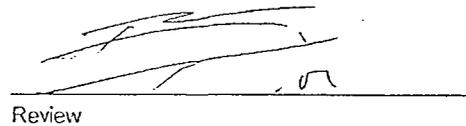
Surrogate Recoveries:	Parameter	Percent Recovery
	fluorobenzene	95.7 %
	1,4-difluorobenzene	101 %
	4-bromochlorobenzene	101 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: So. San Luis Water Well #1


Analyst


Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS
QUALITY ASSURANCE REPORT

Client:	N/A	Project #:	N/A
Sample ID:	0714BBLK QA/QC	Date Reported:	07-15-11
Laboratory Number:	58909	Date Sampled:	N/A
Sample Matrix:	Aqueous	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-14-11
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	L-Cal RF	C-Cal RF:	%Diff.	Blank Conc.	Detect Limit
		Accept Range	0 - 15%		
Benzene	2.9392E+006	2.9480E+006	0.3%	ND	0.2
Toluene	2.9994E+006	3.0084E+006	0.3%	ND	0.2
Ethylbenzene	2.6453E+006	2.6532E+006	0.3%	ND	0.2
p,m-Xylene	7.0148E+006	7.0359E+006	0.3%	ND	0.2
o-Xylene	2.4121E+006	2.4193E+006	0.3%	ND	0.1

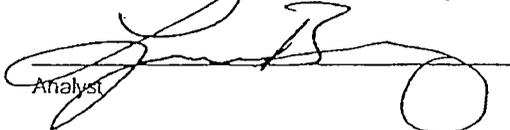
Duplicate Conc. (ug/L)	Sample	Duplicate	%Diff.	Accept Limit
Benzene	6.9	7.1	3.7%	0 - 30%
Toluene	5.2	5.7	9.4%	0 - 30%
Ethylbenzene	30.2	28.9	4.1%	0 - 30%
p,m-Xylene	87.3	83.9	3.9%	0 - 30%
o-Xylene	55.8	52.7	5.6%	0 - 30%

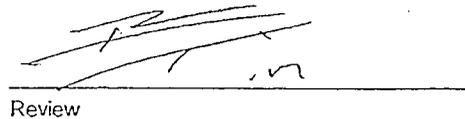
Spike Conc. (ug/L)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Limits
Benzene	6.9	50.0	59.9	105%	39 - 150
Toluene	5.2	50.0	53.7	97.2%	46 - 148
Ethylbenzene	30.2	50.0	85.6	107%	32 - 160
p,m-Xylene	87.3	100	140	74.8%	46 - 148
o-Xylene	55.8	50.0	104	98.1%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 58909-58912

Analyst 

Review 



Chloride

Client:	Coulthurst Mgmt	Project #:	06027-0002
Sample ID:	NMSF 081171K API 30-043-20887	Date Reported:	07/13/11
Lab ID#:	58912	Date Sampled:	
Sample Matrix:	Aqueous	Date Received:	07/12/11
Preservative:	Cool	Date Analyzed:	07/13/11
Condition:	Intact	Chain of Custody:	12165

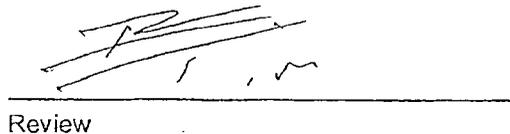
Parameter	Concentration (mg/L)
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Total Chloride	100
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Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **So. San Luis Water Well #1**


Analyst


Review



Water Analysis

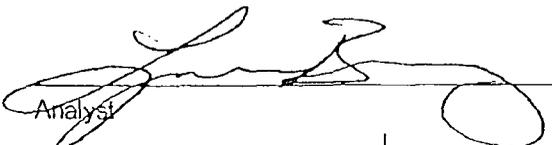
Client:	Coulthurst Mgmt	Project #:	06027-0002
Sample ID:	NMSF 081171K API 30-043-20887	Date Reported:	07/15/11
Laboratory Number:	58912	Date Sampled:	
Sample Matrix:	Aqueous	Date Received:	07/12/11
Preservative:	Cool	Date Analyzed:	07/13/11
Condition:	Intact	Chain of Custody:	12165

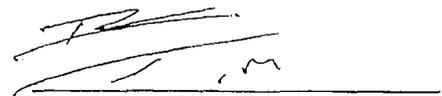
Parameter	Analytical Result	Units
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Total Dissolved Solids @ 180C	1,830	mg/L
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Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **So. San Luis Water Well #1**


Analyst


Review

CHAIN OF CUSTODY RECORD

12165

Client: Coulthurst Mgmt			Project Name / Location: So. San Luis Water Wall #1				ANALYSIS / PARAMETERS												
Client Address: Cuba, NM			Sampler Name: Phillip Montoya				TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	TDS	Sample Cool	Sample Intact
Client Phone No.:			Client No.: 06027-0002																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl ₂ HCl	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	TDS	Sample Cool	Sample Intact
NMSF 08117K			58912	Soil Sludge Solid Aqueous	2 Mason jars		X	X								X	X	YY	YY
API 30-043-20887				Soil Sludge Solid Aqueous															
				Soil Sludge Solid Aqueous															
				Soil Sludge Solid Aqueous															
				Soil Sludge Solid Aqueous															
				Soil Sludge Solid Aqueous															
				Soil Sludge Solid Aqueous															
				Soil Sludge Solid Aqueous															
				Soil Sludge Solid Aqueous															
				Soil Sludge Solid Aqueous															
Relinquished by: (Signature) <i>Phillip Montoya</i>			Date	Time	Received by: (Signature) <i>Randi Vague</i>			Date	Time										
Relinquished by: (Signature)					Received by: (Signature)														
Relinquished by: (Signature)					Received by: (Signature)														



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Farmington, New Mexico 87402
(505) 327-4892 • Fax: (505) 327-9834

December 18, 2012

Mr. Adam Rankin
Holland & Hart, LLP
110 North Guadalupe Suite 1
P.O. Box 2208
Santa Fe, NM 87504

Re: Coulthurst Management
Erin #2 Pressure Maintenance
Order No. R-2975-A

Dear Mr. Rankin,

While attempting to perform the required mechanical integrity test on this well, we discovered that the well had been perforated in some upper Menefee sands from 438' – 453' and from 456' – 461'. Mr. Coulthurst talked the Steve Mason at the BLM and Mr. Mason agreed to accept a Sundry Notice reporting the above perfs. I have filed a Sundry Notice to the BLM to that effect.

I sent you copies of email conversations I had with Will Jones at the NMOCD. He suggests that we re-open the case and report the higher perfs. This will effect the setting depth of the packer (from 500' to 400') and the maximum injection pressure (from 105 psi to 87 psi). Everything else in the original application will remain the same. The Erin #3 and Erin #9 are also perforated in these upper Menefee sands so the argument for the pressure maintenance project is still valid.

Enclosed you will find a revised C-108 and a new Data Sheet with the above changes. I suppose we'll need to send another notice to the offset operator, Three Forks Resources. Will you take care of that? Please let me know if you need additional information.

Sincerely,

Paul C. Thompson, P.E.



HOLLAND & HART LLP



Adam G. Rankin
Phone 505-954-7294
Fax 505-983-6043
AGRankin@hollandhart.com

January 4, 2013

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO: AFFECTED INTEREST OWNERS

Re: Case No. 14835: Application of Coulthurst Management & Investment, LLC, to Re-Open Case No. 14835 to Amend Order No. R-2975-A.

This letter is to advise you that Coulthurst Management & Investment, LLC ("Coulthurst") has filed the enclosed application with the New Mexico Oil Conservation Division, attached hereto as **Exhibit A**. This application has been set for hearing before a Division Examiner at 8:15 a.m. on February 7, 2013. The hearing will be held in Porter Hall in the Oil Conservation Division's Santa Fe Offices located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date.

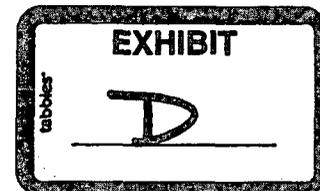
Coulthurst is seeking to amend Order No. R- 2975-A to authorize injection into a shallower interval than was originally approved. The original C-108 application is included for your reference as **Exhibit B**. While preparing for a required mechanical integrity test on the Erin No. 2, Coulthurst determined that the well has perforations in the Menefee Sands from approximately 438 – 453 feet and from 456 – to 461 feet. Division authorization is required to inject into this shallower zone. Accordingly, Coulthurst has filed this Application. Coulthurst's Application also seeks a correspondingly lower injection pressure (from 105 psi to 87 psi) and proposes to place the packer at approximately 400 feet, rather than 500 feet, as originally contemplated, due to the shallower perforations.

Parties appearing in cases are required by Division Rule 1208.B to file a Pre-hearing Statement four days in advance of a scheduled hearing. This statement must be filed at the Division's Santa Fe office at the above specified address and should include: the names of the parties and their attorneys; a concise statement of the case; the names of all witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that are to be resolved prior to the hearing.

If you have any questions regarding this application, please contact Paul Thompson at (505) 327-4892.

Sincerely,

Adam G. Rankin
ATTORNEY FOR
COULTHURST MANAGEMENT & INVESTMENT, LLC



Holland & Hart LLP

Phone [505] 988-4421 Fax [505] 983-6043 www.hollandhart.com

110 North Guadalupe Suite 1 Santa Fe, NM 87501 Mailing Address P.O. Box 2208 Santa Fe, NM 87504-2208

Aspen Billings Boise Boulder Cheyenne Colorado Springs Denver Denver Tech Center Jackson Hole Salt Lake City Santa Fe Washington, D.C. ☻

List of Notice Recipients:

Surface Owner:

Bureau of Land Management
6251 College Blvd. Suite A
Farmington, NM 87402

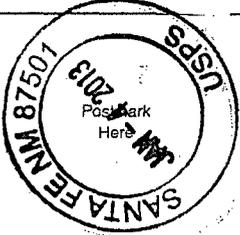
Offsetting Interest:

Three Forks Resources LLC
1515 Wazee Street # 350
Denver, CO 87202
Phone: 303-318-0717

7006 0100 0005 5769 6147

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.40



Bureau of Land Management
6251 College Blvd. Suite A
Farmington, New Mexico 87402

PS Form 3800, June 2002 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION **RECIPIENT: COMPLETE THIS SECTION**

1. Article Addressed to:
Bureau of Land Management
6251 College Blvd. Suite A
Farmington, New Mexico 87402

2. Article Number (Transfer from service label): 7006 0100 0005 5769 6147

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

A. Signature: *[Signature]* Agent Addressee
 B. Received by (Printed Name): *KIM COLLINS*
 C. Date of Delivery: *1-7-13*

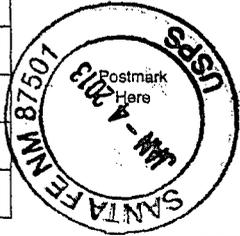
D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

7006 0100 0005 5769 6130

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CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit **GR/COULTHURST OFFICE**

Postage	\$ 2.10
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.40



Three Forks Resources LLC
1515 Wazee Street, #350
Denver, Colorado 87202

PS Form 3800, June 2002 See Reverse for Instructions

SENDER: COMPLETE **RECIPIENT: COMPLETE THIS SECTION**

1. Article Addressed to:
Three Forks Resources LLC
1515 Wazee Street, #350
Denver, Colorado 87202

2. Article Number (Transfer from service label): 7006 0100 0005 5769 6130

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

A. Signature: *[Signature]* Agent Addressee
 B. Received by (Printed Name): *[Name]*
 C. Date of Delivery: *1-7-13*

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

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540