Jireh
Resources LLC

P.O. Box 701230
Tulsa. Oklahoma 74170

US Department of the Interior
Bureau of Indian Affairs
Eastern Oklahoma Region
Osage Agency
PO Box 1539
Pawhuska, Oklahoma 74056-1539

RE: Completed 139 for Blackland-McComb 18w
SW/4 Section 1-27N-7E
Osage County, OK.

To Whom it May Concern,

Please find attached the completed 139 for the Blackland-McComb 18W injection well workover. The well has been repaired, MIT'd and put back to injection. Please contact Lanny Woods 918-851-0468 lannywoods@jirehresourcesllc.com for any questions or problems. A copy of this report has been sent via email to Andrew Yates of the EPA – UIC office in Pawhuska and to Chris Tingey of the EPA Dallas, Texas office.

Best Regards,

Lanny Woods

Jireh Resources LLC 9/14/2016

McComb 18W
SWI well OS6320
SW/4
1-27N-7E
Osage County, OK

Changes in proposed vs actual in red

1 Set CIBP at 2492 feet (perfs at 2502 to 2540), Miss Chat
2 Run 4 1/2" flush joint casing inside 5 1/2" production string to 2477 feet (base of float shoe).
3 Flush well with fresh water
4 Cement to surface - with 65 sacks of regular cement. (Fill-in any fall back)
5 Let cement cure for 48 hours
6 Drill out wiper plug, float shoe, cement and CIBP
7 Acidize perfs with 300 gal 15% HCL if needed (Was not needed took water on vacuum)
8 Run in packer and lined tubing. Set packer at 2448.6 feet.
9 Test well

Jireh noticed a small leak in the backside of the well durring routine well testing. Jireh pulled the tubing and packer and ran in working string with retrivable packer to locate the potential leak. It was determined the leak was between 900 and 800 feet.* The well was drilled in 2012 and cement was run to surface on both the surface pipe (@90 feet) and the production string which was set 2702 feet.

*Holes were determined by moving a retrievable packer up the hole and testing the backside

Started workover 8/25/2016 -- pulling packer and production string
Cleaned well to TD, set CIBP @ 2492
Ran and cemented 4 1/2 production string 8/29/2016
Drilled out wiper plug, ect. And cleaned well to TD 9/2/2016
Ran in seal tite tubing and packer, 9/5/2016 did internal MIT passed
Osage UIC performed MIT 9/6/2016, no pressure drop - passed
Dallas EPA gave written approval to start injection

SERVICE ORDER & RECEIPT

TRI-AM ACID AND FRACTURE SERVICE CORP.

OIL AND GAS WELL CHEMICAL SERVICE

BOX 564 203 S. LYNN
PAWHUSKA, OKLAHOMA 74056
(918) 287-2934

No. 22611

STATION _____ DATE _____

CUSTOMER	BILLING ADDRESS
CITY	STATE
WELL NAME	LOCATION
POOL / COUNTY	STATE
YOUR ORDER NO.	SERVICE ORDER (See other side for terms and conditions)

I have read, understood and agreed to the terms and conditions printed on the reverse side hereof and represent that I have full power and authority to execute this service order.

CUSTOMER BY _____ Authorized Agent _____

Price Reference	Quantity	Description — Services / Materials	Unit Price	Amount
		Hydraulic Horsepower Service		
		Pumper Service		
		BPM Blending Service		
		lbs. Pumping Service	cwt.	
		lbs. Pumping Service	cwt.	
		Ton Miles Sand Delivery Service		
	65 sks	Other Materials and Services:		
		Gal. Acid		
		Gal. Acid		
		lbs. Sand	cwt.	
		lbs. Sand	cwt.	
		lbs. Sand	cwt.	
				8.94
		% State Sales Tax on Materials Only		
			TOTAL BILLING	

TRI-AM ACID AND FRACTURE SERVICE CORP. _____ Customer

_____ Service Engineer By _____ Authorized Agent

RECEIPT: The above hereby certifies that the equipment and services above listed were received by him and the services performed in a workmanlike manner.

US ENVIRONMENTAL PROTECTION AGENCY
OSAGE UIC PROGRAM
100 W. MAIN ST, SUITE 304
PAWHUSKA, OK 74056

US ENVIRONMENTAL PROTECTION AGENCY
REGION VI - (6W-SE)
1445 ROSS AVE
DALLAS, TEXAS 75202-2733

NOTICE OF INSPECTION

DATE 9/6/12 HOUR [illegible]

Firm Name: Birch Res. LLC

Firm Address:

Inspector Name & Title: Andrew Yates / [illegible]

Inspector Signature: [illegible]

Notice of Inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300 f et seq.)

Reason for Inspection: MIT / Part work-over

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to and applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable permit or rule.

M E Combs #18 W
SW1-27 7
[illegible] - 6320
[illegible]
Liner F.S. 1164
PKR @ 2448.6
4½ Baker 2222
1164

2200 1104 → 1800 mc
1104 30# → 1200 mc
200 - A → 250 mc
[illegible] 3250 mc

Section 1445(b) of the SDWA (42 U.S.C. §300 j-4 (b)) is quoted on the reverse of this form

EPA Form

Receipt of this Notice of Inspection is hereby acknowledged.

Title: _____

Date: _____

Permit No.: 06S1261P6320
Scan Code: 07

MAR 25 2014

REPLY TO: 6WQ-SG

Certified Mail #7010 3050 0001 6500 2482 - Return Receipt Requested

Mr. Lanny Woods
Jireh Resources, LLC
2526 East 71st Street, Suite A
Tulsa, OK 74136

Re: Draft UIC Permit Modification
No. 06S1261P6320 - Osage County, Oklahoma

Dear Mr. Woods:

Enclosed are the public notice, statement of basis, and the permit which have been drafted by this Agency under the authority of the Safe Drinking Water Act. Any comments you wish to make may be submitted in writing by the due date stated in the public notice to Ms. Evelyn Rosborough at the EPA address above.

If you have any questions or would like to discuss this permit modification, please contact the permit writer, Mr. Bill Hurlbut at (214) 665-8305.

Sincerely yours,

Bill Hurlbut

for Stacey B. Dwyer, P.E.
Associate Director
Source Water Protection Branch

Enclosures

cc: with enclosures
BIA, Minerals Branch
Osage UIC Office BA - 3/17/14
6WQ-SG: BHURLBUT: ~~6/5/13~~: 06S1261P6080.3M
6WQ-SG
DELLINGER

U.S. Environmental Protection Agency
Public Notice of Draft UIC Permit(s)

March 26, 2014

This is to give notice that the U.S. Environmental Protection Agency, Region 6, has formulated a Draft Permit for the following facility (facilities) under the Osage Mineral Reserve, Osage County, Oklahoma, Underground Injection Control (UIC) Program of the Safe Drinking Water Act. Development of the draft permit(s) was based on a preliminary staff review by EPA. The permit(s) will become effective within 15 days after the close of the comment period unless:

A. Comments received by April 10, 2014, in accordance with §124.20, warrant a public notice of EPA's final permit decision.

B. A public hearing is held requiring delay of the effective date.

EPA's contact person for submitting written comments, requesting information regarding the draft permit, and/or obtaining copies of the permit and the Statement of Basis is:

Ms. Diane Smith
Planning and Analysis Branch (6WQ-NP)
U.S. Environmental Protection Agency
1445 Ross Avenue
Dallas, Texas 75202-2733
(214) 665-2145

EPA's comments and public hearing procedures may be found at 40 CFR 124.10 and 124.12 (48 Federal Register 14264, April 1, 1983, as amended at 49 Federal Register 38051, September 26, 1984). Additional procedures pertaining to Osage County may be found at 40 CFR 147.2929 (d), Subpart GGG. The comment period during which written comments on the draft permit may be submitted extends 15 days from the date of this Notice. During the comment period, any interested person may request a Public Hearing by filing a written request which must state the issues to be raised. A public hearing will be held when EPA finds a significant degree of public interest.

EPA will consider all comments submitted either in writing or at a public hearing when making its final permit decision. Any person that files comments on the draft permit may appeal the final permit decision. Persons who did not comment on the draft permit may appeal only those changes made to the final permit subsequent to draft permit issuance. Appeals to the final permit decision must be submitted in writing to the Administrator within 30 days after a final permit decision has been issued. An appeal must contain the information set out in 40 CFR 124.19 and 147.2929(j)(3).

The Environmental Protection Agency (EPA) has received a complete Underground Injection Control (UIC) permit modification number 06S1261P6320 from

Jireh Resources, LLC
2526 East 71st Street, Suite A
Tulsa, OK 74136

The permittee proposes a permit modification for well number Blackland-McComb 18W, a salt water injection well located in the SW Quarter, Section 1, Township 27N, Range 07E, Osage County, Oklahoma. The modification will allow the operator to increase his maximum injection pressure to 200 psig and the injection volume to 90,000 barrels per month.

The permit, supporting data submitted by the applicant, the EPA draft permit modification and statement of basis are available for public review Monday through Friday from 8:00 a.m. to 4:00 p.m. at the Osage UIC Office, 100 West Main, Suite 304, P.O. Box 1495, First National Bank Building, Pawhuska, OK 74056, (918)287-5333 or at the Environmental Protection Agency, 1445 Ross Avenue, Dallas, TX 75202-2733, (214)665-7165. Comments on the permit and draft permit modification should be submitted to the Dallas office within 15 days of the date of this notice. Anyone desiring a hearing must submit a written request, identifying the issue(s) for discussion at the hearing, to the EPA office in Dallas, Texas, before the close of business on the last day of the comment period. EPA will give at least 30 days notice of the public hearing, if a hearing is held.

Scan Code: 07

Permit No.: 06S1261P6320

The Environmental Protection Agency (EPA) has received a complete Underground Injection Control (UIC) permit modification number 06S1261P6320 from

Jireh Resources, LLC
2526 East 71st Street, Suite A
Tulsa, OK 74136

The permittee proposes a permit modification for well number Blackland-McComb 18W, a salt water injection well located in the SW Quarter, Section 1, Township 27N, Range 07E, Osage County, Oklahoma. The modification will allow the operator to increase his maximum injection pressure to 200 psig and the injection volume to 90,000 barrels per month.

The permit, supporting data submitted by the applicant, the EPA draft permit modification and statement of basis are available for public review Monday through Friday from 8:00 a.m. to 4:00 p.m. at the Osage UIC Office, 100 West Main, Suite 304, P.O. Box 1495, First National Bank Building, Pawhuska, OK 74056, (918)287-5333 or at the Environmental Protection Agency, 1445 Ross Avenue, Dallas, TX 75202-2733, (214)665-7165. Comments on the permit and draft permit modification should be submitted to the Dallas office within 15 days of the date of this notice. Anyone desiring a hearing must submit a written request, identifying the issue(s) for discussion at the hearing, to the EPA office in Dallas, Texas, before the close of business on the last day of the comment period. EPA will give at least 30 days notice of the public hearing, if a hearing is held.

BO 3/7/14

6WQ-SG: BHURLBUT: 3/7/14: 06S1261P6280.5M
6WQ-SG
DELLINGER

Scan Code 7
Permit No.: 06S1261P6320

March 7, 2014
STATEMENT OF BASIS

For Underground Injection Control Permit No. 06S1261P6320 to modify a salt water disposal injection well.

Issuing office: U.S. Environmental Protection Agency
Region 6
1445 Ross Avenue
Dallas, Texas 75202-2733

Applicant: Jireh Resoources, LLC
2526 East 71st Street, Suite A
Tulsa, OK 74136

1. As described in the application, the well is located in Osage County, 330' FSL, 1650' FWL, SW/4, Section 1, Township 27N, Range 7E.

2. On the basis of preliminary staff review, the Environmental Protection Agency has made a tentative determination to draft a permit modification for this well as described in the modification request. More detailed information is available in the original Statement of Basis dated April 12, 2012.

3. The following is an explanation of the permit modification:

   This modification will allow the operator to increase the injection pressure at the wellhead not to exceed 200 psig except during stimulation and increase the injection volume to 90,000 barrels per month.

For additional information, please contact:

Ms. Evelyn Rosborough
Administrative Support Team (6WQ-CA)
U.S. Environmental Protection Agency
Region 6
1445 Ross Avenue
Dallas, Texas 75202-2733
~~(214) 665-7515~~

6WQ-SG: BHURLBUT: 3/7/14: 06S1261P6320.2M

6WQ-SG	6WQ-S
DELLINGER	DWYER

Scan Code: 21

Region 6
1445 Ross Avenue
Dallas, Texas 75202-2733

UIC Permit No.: 06S1261P6320
Well No.:Blackland-McComb 18W

MODIFICATION TO ENVIRONMENTAL PROTECTION AGENCY OSAGE COUNTY UIC PROGRAM

Permit No. 06S1261P6320
Dated: April 12, 2012

Permit conditions I.B.2. and I.B.4. as prescribed by Permit No. 06S1261P6320 have been revised to read as follows:

I.B.2. Except during well stimulation, injection pressure at the wellhead shall not exceed 200 psig.

I.B.4. Injection volume shall be limited to 90,000 barrels per month.

This modification is part of the permit and shall be attached thereto in accordance with 40 CFR Subpart GGG, §147.2927.

This permit modification shall become effective on

Prepared by

Bill Hurlbut
Geologist
Ground Water/UIC Section 3/7/14

Issued on

William Honker, P.E.
Director
Water Quality Protection Division

6WQ-SG: BHURLBUT: 3/7/14: 06S1261P6320.1M

6WQ-SG	6WQ-S
DELLINGER	DWYER

Scan Code 19

June 12, 2012

CERTIFIED MAIL: RETURN RECEIPT REQUESTED (7010 2780 0002 4356 2326)

REPLY TO: 6WQ-NP

Ms. Norma Standridge
Jireh Resources, LLC
2526 East 71st Street, Suite A
Tulsa, OK 74136

Re: Underground Injection Control Permit No. 06S1261P6320
Authorization to Inject
Osage County, Oklahoma

Dear Ms. Standridge:

Enclosed is an authorization to inject into Blackland 18W well. This authorization is issued under authority of the Safe Drinking Water Act and the Osage Underground Injection Control (UIC) program regulations [40 CFR §147.2920]. The pressure test completed on this well on March 19, 2012, showed that the well has mechanical integrity as required by the referenced permit and any modifications.

If you have any questions, please contact Ms. Jenaie Franke at (214) 665-7514.

Sincerely yours,

William K. Honker, P.E.
Acting Director
Water Quality Protection Division

cc: with enclosure
BIA Mineral Branch
Osage UIC Office

bcc: with enclosure:
Brown (6WQ-NP)
Reading File (6WQ-NP)

DBrown 6/4/12

6WQ-NP:DBROWN:X8141:4-3-12 ATI OS 6320

6WQ-NP
FRANKE JF 6/5/12

Well No.: Blackland 18W
Permit No.: 06S1261P6320

ENVIRONMENTAL PROTECTION AGENCY
Underground Injection Control Program

OSAGE MINERAL RESERVE
Authorization to Inject

Jireh Resources, LLC is hereby authorized to begin injection and operate Blackland 18W well, located at 330' FSL, 1650 FWL, SW/4, Sec. 1, T 27N, R 7E, as a Class II injection well. The permittee is authorized to inject salt water for disposal.

Conversion of the well identified herein was authorized by Permit No. 06S1261P6320, dated April 12, 2012. This Authorization to Inject is hereby made a part of the referenced permit.

All requirements and conditions prescribed under Permit No. 06S1261P6320 and any modification apply and remain in full force and effect during the effective period of this permit. The authorization is effective from the date entered below and shall remain in effect unless terminated.

Signed this 12th day of June, 2012.

William K. Honker, P.E.
Acting Director
Water Quality Protection Division
Environmental Protection Agency
Region 6

Scan 07

APR 12 2012

REPLY TO: 6WQ-NP

CERTIFIED MAIL: RETURN RECEIPT REQUESTED (7010 2780 0002 4355 8435)

Ms. Norma Standridge
Jireh Resources L.L.C.
2526 East 71st Street-Suite A
Tulsa, Oklahoma 74136

Re: Underground Injection Control (UIC) Final Permit
Permit No. 06S1261P6320 - Osage County, Oklahoma

Dear Ms. Standridge:

Enclosed is a copy of the final permit referenced above. Please read the entire permit in order to become familiar with the effective date and the conditions of the permit. You will notice that Permit Condition Number I.B.1. requires that the well pass a [illegible] and receive an Authorization to Inject from this office prior to [illegible]zation to Inject will not be granted until you [illegible]nce with special permit conditions I.A.1., I.A.2., [illegible]w each issued permit at least once every five [illegible] modified or terminated.

U.S. Postal Service™
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Restricted Delivery Fee (Endorsement Required)
Postmark Here
To: Ms. Norma Standridge
Jireh Resources
2526 East 71st Street-Suite A
Tulsa, Oklahoma 74136
PS Form 3800, August 2006
See Reverse for Instructions
7010 2780 0002 4355 8435

[illegible]A) also requires that you apply for and receive [illegible]ribed in the referenced permit application. Please [illegible]0 for further information. To schedule your well [illegible]C office in Pawhuska at (918) 287-5333.

[illegible]e call Evelyn Rosborough at (214) 665-7515 at the [illegible]A) in Dallas.

Sincerely yours,

William K. Honker
Acting Director
Water Quality Protection Division (6WQ)

Enclosures

cc with enclosures:
BIA, Minerals Branch
Osage UIC Office
Rosborough:04/10/2012:R:P6320

bcc with enclosures: Franke Rosborough 6WQ

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

APR 12 2012

REPLY TO: 6WQ-NP

CERTIFIED MAIL: RETURN RECEIPT REQUESTED (7010 2780 0002 4355 8435)

Ms. Norma Standridge
Jireh Resources L.L.C.
2526 East 71st Street-Suite A
Tulsa, Oklahoma 74136

Re: Underground Injection Control (UIC) Final Permit
Permit No. 06S1261P6320 - Osage County, Oklahoma

Dear Ms. Standridge:

Enclosed is a copy of the final permit referenced above. Please read the entire permit in order to become familiar with the effective date and the conditions of the permit. You will notice that Permit Condition Number I.B.1. requires that the well pass a Mechanical Integrity Test and receive an Authorization to Inject from this office prior to any future operation of the well. Authorization to Inject will not be granted until you have satisfactorily demonstrated compliance with special permit conditions I.A.1., I.A.2., I.A.3., and I.B.1. The Agency will review each issued permit at least once every five years to determine whether it should be modified or terminated.

The Bureau of Indian Affairs (BIA) also requires that you apply for and receive authorization to complete the work described in the referenced permit application. Please contact the BIA office at (918) 287-5710 for further information. To schedule your well for testing, please contact the Osage UIC office in Pawhuska at (918) 287-5333.

If you have any questions please call Evelyn Rosborough at (214) 665-7515 at the Environmental Protection Agency (EPA) in Dallas.

Sincerely yours,

for William K. Honker
Acting Director
Water Quality Protection Division (6WQ)

Enclosures

cc with enclosures:
BIA, Minerals Branch
Osage UIC Office

Recycled/Recyclable • Printed with Vegetable Oil Based Inks on 100% Recycled Paper (40% Postconsumer)

Region 6
1445 Ross Avenue
Dallas, Texas 75202-2733

UIC Permit No. 06S1261P6320
Well No.: Blackland 18W

AUTHORIZATION TO CONVERT A WELL TO AN INJECTION WELL UNDER THE UIC PROGRAM OSAGE MINERAL RESERVE

In compliance with the provisions of the Safe Drinking Water Act, (hereafter referred to as "the Act" or "SDWA") as amended (42 U.S.C. §300f et seq.),

Jireh Resources L.L.C.
2526 East 71st Street-Suite A
Tulsa, Oklahoma 74136

is authorized to convert a well to a Class II disposal injection well. This well is located at:

330 feet from the south line and 1650 feet from the west line, Southwest Quarter Section 1, Township 27N, Range 7E into the injection interval at a depth of 2650 to 2720 feet below land surface in the Mississippi Chat in accordance with the construction and operation requirements, injection pressure limits, reporting and monitoring requirements, and other conditions set forth in Parts I and II of this permit and the Osage Class II Underground Injection Control Program and Regulations.

Unless authorization to inject is granted, this permit shall remain in effect for one year from the effective date shown below. Authorization to inject fluids into the well shall be granted only upon compliance with permit conditions, I.A.1., I.A.2., I.A.3., and I.B.1. Authorization to inject fluids into the well may be verbally granted by the Chief, Ground Water/UIC Section or by written "Authorization to Inject" from the Director, Water Quality Protection Division (6WQ). Upon authorization to inject, this permit shall remain in effect until the well is plugged or the permit is terminated.

This permit shall become effective on APR 12 2012

Prepared by

Arnold Bierschenk
Environmental Scientist
Ground Water/UIC Section
(6WQ-SG)

Issued on APR 12 2012

William K. Honker, P.E.
Acting Director
Water Quality Protection
Division

Part I. SPECIAL PERMIT CONDITIONS

A. Construction Requirements

1. The surface casing shall be set at 45 feet below land surface and set with 12 sacks of cement to surface, and the longstring casing set at 2740 feet below land surface cemented with 300 sacks of cement to surface.

2. The well shall be equipped with standard female fittings with cut-off valves connected to the tubing and the tubing/casing annulus so that the injection pressure and annulus pressure may be measured by an EPA representative by attaching a gauge having a standard male fitting.

3. Tubing and packer shall be installed. The packer shall be run on the tubing and set inside the casing between 2575 to 2645 feet of depth below the land surface.

B. Operating Requirements

1. Authorization to inject will not be granted until the permittee shows to the satisfaction of the Director, Water Quality Protection Division, pursuant to 40 CFR §147.2920(b)(1)(i) that the well has mechanical integrity. The well's mechanical integrity must be demonstrated prior to the start of injection and at least every five years thereafter. The permittee must notify the Osage UIC office at least five (5) days prior to mechanical integrity testing so that an EPA representative can witness the test..

2. Injection pressure at the wellhead shall not exceed 100 psig.

3. The permittee is authorized to inject salt water for disposal.

4. Injection volume shall be limited to 45,000 barrels per month.

Part II. CONDITIONS APPLICABLE TO ALL PERMITS - OSAGE

A. Confidentiality

Any information except the permittee's name and address and information concerning the existence, absence or level of contaminants in drinking water may be claimed as confidential. Any claim of confidentiality must be asserted at the time of submission. If no claim is made, EPA may make the information available to the public without further notice.

B. Duty to Comply

1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action, for permit termination, revocation and reissuance, or modification.

   Compliance with the terms of this permit does not constitute a defense to any action brought under Section 1431 of the Safe Drinking Water Act (SDWA) of any other law for any imminent or substantial endangerment to human health of the environment or for any breach of any other applicable legal duty.

2. The permittee need not comply with the provisions of this permit to the extent and for the duration such noncompliance is authorized in a temporary emergency permit under 40 CFR §147.2906.

C. Duty to Halt or Reduce Activity

It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

D. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

F. Permit Actions

1. This permit may be modified, revoked and reissued, or terminated for the following causes (see 40 CFR §147.2927 and 40 CFR §147.2928):

   a) There are substantial changes to the facility or activity which occurred after permit issuance that justify revised or additional permit conditions.

   a) The RA has received information (e.g., from monitoring reports, inspections) which warrants a modified permit.

   b) The regulations or standards on which the permit was based have changed.

   c) The RA has received notice of a proposed permit transfer.

   d) An interested person requests in writing that a permit be modified and the RA determines that cause for modification exists.

   e) Cause exists for termination under 40 CFR §147.2928, but the RA determines that permit modification is appropriate.

   The modifications procedure described in 40 CFR §2927(c) must be followed to accomplish the modifications described in item "a" through "f" of this section.

2. Minor modifications do not require that the procedure listed in 40 CFR §147.2927(c) be followed.

   Minor modifications consist of:

   a) Correcting typographical errors;

   b) Requiring more frequent monitoring or reporting;

   c) Changing ownership or operational control (see 40 CFR §147.2926, Permit Transfers); or

4. Sample or monitor, at reasonable times for the purposes of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

J. Monitoring and Records

1. Samples and measurements taken for the purpose of monitoring shall be representative of the injection activity. The operator shall monitor the injection pressure (psi) and rate (bbl/day) once a month. Reporting of monitoring results shall be in accordance with procedures and at intervals prescribed in condition II.L.4 of this permit.

2. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings of continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the RA at any time.

   The permittee shall retain records concerning the nature and composition of all injected fluids until three (3) years after the completion of any plugging and abandonment procedures specified under 40 CFR §147.2905. The RA may require the owner or operator to deliver the records to the RA at the conclusion of the retention period.

3. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;

   b. The individuals who performed the sampling or measurements;

   c. The date(s) analyses were performed;

   d. The individual(s) who performed the analyses;

(ii) Assurance that the new permittee has a surety bond on file with BIA; and

(3) If the RA does not respond with a notice to the existing permittee that the permit will be modified.

b) If the conditions in paragraph (a) of this section are met, the transfer is effective on the date specified in paragraph (a) (2) (i).

4. Monitoring reports - Monitoring results shall be reported annually on the EPA Annual Disposal/Injection Well Monitoring Report form or an identical format. The report shall specify the types of methods used to generate the monitoring data.

5. Compliance schedules - Reports of compliance or noncompliance with, or any progress report on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 30 days following each interim date and the final date of compliance.

6. Twenty-four hour reporting - The permittee shall report to the Osage UIC office any noncompliance which may endanger an underground source of drinking water. The report shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance including exact dates and times; if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

1. The permittee shall notify the Osage UIC office by certified mail at least five (5) days prior to the commencement of plugging operations. The notice must include that information prescribed at 40 CFR §147.2905(c).

2. Plugging and Abandonment - The well shall be plugged in a manner which will not allow the movement of fluids either into or between underground sources of drinking water. Placement of cement plugs shall be accomplished by one of the methods described in 40 CFR §147.2905 or some other method approved by the RA.

   The well to be abandoned shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the RA, prior to the placement of the cement plug(s).

N. Financial Responsibility

The permittee must demonstrate and maintain financial responsibility and resources to close, plug, and abandon the underground injection well. This shall be demonstrated by the submission of a surety bond to the Osage Agency Bureau of Indian Affairs.

O. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

P. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provisions to other circumstances, and the remainder of this permit, shall not be affected thereby.

Q. Explanation of Terms

Terms used in this permit are defined as follows:

"RA" - the EPA Regional Administrator

"UIC" - Underground Injection Control Program

Part II. CONDITIONS APPLICABLE TO ALL PERMITS - OSAGE

A. Confidentiality

Any information except the permittee's name and address and information concerning the existence, absence or level of contaminants in drinking water may be claimed as confidential. Any claim of confidentiality must be asserted at the time of submission. If no claim is made, EPA may make the information available to the public without further notice.

B. Duty to Comply

1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action, for permit termination, revocation and reissuance, or modification.

   Compliance with the terms of this permit does not constitute a defense to any action brought under Section 1431 of the Safe Drinking Water Act (SDWA) of any other law for any imminent or substantial endangerment to human health of the environment or for any breach of any other applicable legal duty.

2. The permittee need not comply with the provisions of this permit to the extent and for the duration such noncompliance is authorized in a temporary emergency permit under 40 CFR §147.2906.

C. Duty to Halt or Reduce Activity

It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

D. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

E. Proper Operation and Maintenance

1. All injections wells must have and maintain mechanical integrity consistent with 40 CFR §147.2920(b). Mechanical integrity must be demonstrated initially and also any time the tubing is removed from the well, the packer is reset, or a loss of mechanical integrity becomes evident during operation. Furthermore, the Regional Administrator (RA) may by written notice require the permittee to demonstrate mechanical integrity at anytime. The permittee shall notify the Osage UIC office of his intent to prove mechanical integrity at least 5 days prior to such demonstration. The permittee shall report the results of the mechanical integrity demonstration within 30 days after completion (unless the demonstration is witnessed by an EPA inspector, in which case the inspector will prepare the report).

2. If the permittee or the RA finds that the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity as defined by 40 CFR §147.2920(b), becomes evident during operation, the operation shall be halted immediately and shall not be resumed until the RA gives approval to recommence injection.

3. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate engineering capability available, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

F. Permit Actions

1. This permit may be modified, revoked and reissued, or terminated for the following causes (see 40 CFR §147.2927 and 40 CFR §147.2928):

   a) There are substantial changes to the facility or activity which occurred after permit issuance that justify revised or additional permit conditions.

   a) The RA has received information (e.g., from monitoring reports, inspections) which warrants a modified permit.

   b) The regulations or standards on which the permit was based have changed.

   c) The RA has received notice of a proposed permit transfer.

   d) An interested person requests in writing that a permit be modified and the RA determines that cause for modification exists.

   e) Cause exists for termination under 40 CFR §147.2928, but the RA determines that permit modification is appropriate.

   The modifications procedure described in 40 CFR §2927(c) must be followed to accomplish the modifications described in item "a" through "f" of this section.

2. Minor modifications do not require that the procedure listed in 40 CFR §147.2927(c) be followed.

   Minor modifications consist of:

   a) Correcting typographical errors;

   b) Requiring more frequent monitoring or reporting;

   c) Changing ownership or operational control (see 40 CFR §147.2926, Permit Transfers); or

d) Changing quantities or types of injected fluids, provided:

(i) The facility can operate within conditions of the permit;

(ii) The facility classification would not change.

The filing of a request by the permittee for a permit modification, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

G. Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege.

H. Duty to Provide Information

The permittee shall furnish to the RA within a reasonable time any information which the RA requests to determine whether cause exists for modifying, revoking and reissuing or terminating this permit. The permittee shall also furnish to the RA, upon request, copies of records required to be kept by this permit.

I. Inspection and Entry

The permittee shall allow EPA representatives upon the presentation of credentials and other documentation to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records required by this permit are kept;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor, at reasonable times for the purposes of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

J. Monitoring and Records

1. Samples and measurements taken for the purpose of monitoring shall be representative of the injection activity. The operator shall monitor the injection pressure (psi) and rate (bbl/day) once a month. Reporting of monitoring results shall be in accordance with procedures and at intervals prescribed in condition II.L.4 of this permit.

2. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings of continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the RA at any time.

   The permittee shall retain records concerning the nature and composition of all injected fluids until three (3) years after the completion of any plugging and abandonment procedures specified under 40 CFR §147.2905. The RA may require the owner or operator to deliver the records to the RA at the conclusion of the retention period.

3. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;

   b. The individuals who performed the sampling or measurements;

   c. The date(s) analyses were performed;

   d. The individual(s) who performed the analyses;

e. The analytical techniques or methods used including quality assurance techniques employed to insure the generation of reliable data; and

f. The results of such analyses.

4. The owner/operator shall retain all monitoring records for three (3) years, unless an enforcement action is pending, and then until three (3) years after the enforcement action has been resolved.

K. Signatory Requirements

All applications, reports, or information submitted to the RA shall be signed and certified (see 40 CFR §147.2925(j)) by the injection facility owner/operator or his duly authorized representative.

L. Reporting Requirements

1. The owner/operator shall notify the Osage UIC office within 30 days of the date on which injection commenced.

2. Planned changes - The permittee shall give advance notice to the RA of any planned changes which may result in noncompliance.

3. Transfers - This permit is not transferable to any person except after notice to the RA.

a) Permits may be transferred to another permittee:

(1) If the current permittee notifies the RA by certified mail at least 10 days before the proposed transfer date; and

(2) If the notice includes a written agreement between the existing and new permittees containing:

(i) A specific date for transfer of permit responsibility, coverage and liability; and

(ii) Assurance that the new permittee has a surety bond on file with BIA; and

(3) If the RA does not respond with a notice to the existing permittee that the permit will be modified.

b) If the conditions in paragraph (a) of this section are met, the transfer is effective on the date specified in paragraph (a) (2) (i).

4. Monitoring reports - Monitoring results shall be reported annually on the EPA Annual Disposal/Injection Well Monitoring Report form or an identical format. The report shall specify the types of methods used to generate the monitoring data.

5. Compliance schedules - Reports of compliance or noncompliance with, or any progress report on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 30 days following each interim date and the final date of compliance.

6. Twenty-four hour reporting - The permittee shall report to the Osage UIC office any noncompliance which may endanger an underground source of drinking water. The report shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance including exact dates and times; if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

7. The following shall be reported within 30 days of occurrence:

   1) Any monitoring reports or other information required under paragraph 6 that is not available within five (5) days.

   2) Any malfunction of the injection system including any mechanical failure or downhole problem involving well integrity, well workovers, or any noncompliance (Ref. 40 CFR §147.2922).

8. Other noncompliance - The permittee shall report all instances of noncompliance not reported under paragraphs 6 and 7 of this section at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph L.6 of this section.

9. The permittee shall notify the Osage UIC office within 30 days of the date injection has terminated.

10. Other information - When the permittee becomes aware that he failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the RA, the permittee shall promptly submit such facts or information.

M. Additional Conditions

1. The operator of a well shall not allow the movement of fluid containing any contaminant into underground sources of drinking water if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR Part 142 or may otherwise adversely affect human health.

2. The owner/operator shall notify the Osage UIC office within 30 days of the date injection has terminated. The well must be plugged within one year after termination of injection. The RA may extend the time to plug, but only if no fluid movement into a USDW will occur, and the operator has presented a viable plan for utilizing the well within a reasonable time.

1. The permittee shall notify the Osage UIC office by certified mail at least five (5) days prior to the commencement of plugging operations. The notice must include that information prescribed at 40 CFR §147.2905(c).

2. Plugging and Abandonment - The well shall be plugged in a manner which will not allow the movement of fluids either into or between underground sources of drinking water. Placement of cement plugs shall be accomplished by one of the methods described in 40 CFR §147.2905 or some other method approved by the RA.

   The well to be abandoned shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the RA, prior to the placement of the cement plug(s).

N. Financial Responsibility

The permittee must demonstrate and maintain financial responsibility and resources to close, plug, and abandon the underground injection well. This shall be demonstrated by the submission of a surety bond to the Osage Agency Bureau of Indian Affairs.

O. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

P. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provisions to other circumstances, and the remainder of this permit, shall not be affected thereby.

Q. Explanation of Terms

Terms used in this permit are defined as follows:

"RA" - the EPA Regional Administrator

"UIC" - Underground Injection Control Program

"SDWA"/"the Act" - The Safe Drinking Water Act

"Osage UIC Office" - 625 Grandview Avenue, Osage Agency Campus, P. O. Box 1495, Pawhuska, OK 74056

Well Stimulation - means several processes used to clean the wellbore, enlarge channels, and increase pore space in the interval to be injected thus making it possible for wastewater to move more readily into the formation, and includes (1) surging, (2) jetting, (3) blasting, (4) acidizing, (5) hydraulic fracturing.

Other references to program - specific terms, acronyms and abbreviations shall mean those terms as defined by the UIC program regulations, 40 CFR 124, 144, 145, 146, 147 and the Safe Drinking Water Act.