

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
 [A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD
 Check One Only for [B] or [C]
 [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
 [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR
 [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
 [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] ☒ Offset Operators, Leaseholders or Surface Owner
 [C] ☒ Application is One Which Requires Published Legal Notice
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached
- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Sharon Hindman
 Print or Type Name

Sharon Hindman
 Signature

Regulatory Analyst
 Title

12/19/2002
 Date

 e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance X Disposal _____ Storage
Application qualifies for administrative approval? X Yes _____ No
- II. OPERATOR: ENERGEN RESOURCES CORPORATION
ADDRESS: 3300 NORTH "A" ST BLDG 4 STE 100, MIDLAND TEXAS 79705
CONTACT PARTY: Sharon Hindman PHONE: (915) 684-3693
- 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 X 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: Sharon Hindman TITLE: Regulatory Analyst
SIGNATURE: Sharon Hindman DATE: 12/19/2002
- * 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.

ENERGEN RESOURCES CORPORATION
West Lovington Strawn #19
330' FNL & 1000' FWL
Section 33, 15S, 35E
Lea County, New Mexico

Attachment A

III. Well Data

Section A:

1. Lease Name: West Lovington Strawn Unit #19

Location: 330' FNL & 1000' FWL, Sec. 33, T15S, R35E, Lea County,
NM

2. Casing and Cement

EXISTING

<u>Casing Size</u>	<u>Setting Depth</u>	<u>Sacks Cement</u>	<u>Hole Size</u>	<u>Top of Cement</u>
13 3/8"	402'	400	17 1/2"	circ. to surface
8 5/8"	4818'	1400	11"	circ. to surface
5 1/2"	11908'	1500	7 7/8"	2500' by CBL

PROPOSED

<u>Casing Size</u>	<u>Setting Depth</u>	<u>Sacks Cement</u>	<u>Hole Size</u>	<u>Top of Cement</u>
13 3/8"	402'	400	17 1/2"	circ. to surface
8 5/8"	4818'	1400	11"	circ. to surface
5 1/2"	11908'	1500	7 7/8"	2500' by CBL

NOTE: It is proposed to plug and abandoned existing Lower Strawn perforations from 11,848-11,974' with a Cast Iron Bridge Plug (CIBP) set at 11,800' with a 20' cement cap on top of the CIBP, set CIBP @ 9866' +/- top of Wolfcamp w/20' cmt, set CIBP @ 6600' +/- w/20' cmt.

3. Tubing: 2 7/8" PCID internally plastic coated set at 6100' +/-
4. Packer: Baker Lok-Set nickel plated or plastic coated set at 6100' +/-

ENERGEN RESOURCES CORPORATION
West Lovington Strawn #19
330' FNL & 1000' FWL
Section 33, 15S, 35E
Lea County, New Mexico

Attachment A-Continued

III. Well Data - Continued

Section B:

1. **Injection Formation: San Andres**
Field or Pool Name: Lovington, Strawn, West
2. **Injection Interval: San Andres interval 4818 – 6300' perforated**
3. **Original purpose of well: Drilled as producer in Strawn formation**
4. **Other perforated intervals, bridge plugs, cement plugs:**
Perforations 11,848 – 11,974' CIBP @ 11,800' w/20' cmt.
5. **Next higher oil & gas zone: Wolfcamp**
Next lower oil & gas zone: Cisco

See current and proposed wellbore schematic (Attachments B & C)

PE IF ELL	SPUD DATE	COMP. DATE	TD PBD	COMP. INTERVAL	PROD. FORM.	CASING PROGRAM
it to '001	NA	NA	NA	NA	NA	NA
L	2/15/1995	3/31/1995	11,935' 11,796'	11,572-11,582'	Strawn	13 3/8" SRF. CSG. @ 395', CMT W/440 SKS, CIRC. 8 5/8" INT. CSG. @ 4700', CMT W/700 SKS 5 1/2" PRD. CSG. @ 11,935', CMT W/600 SKS
L	8/17/1993	11/3/1993	11,870' 11,761'	11,600-11,614'	Strawn	13 3/8" SRF. CSG. @ 390', CMT W/525 SKS, CIRC. 8 5/8" INT. CSG. @ 4721', CMT W/1580 SKS, CIRC. 5 1/2" PRD. CSG. @ 11,834' W/738 SKS
-	9/26/1999	10/18/1999	11,857' 11,721'	11,608-11,615'	Strawn	13 3/8" SRF. CSG. @ 397', CMT W/490 SKS, CIRC. 8 5/8" INT. CSG. @ 4746', CMT W/1300 SKS, CIRC. 5 1/2" PRD. CSG. @ 11,857' CMT W/700 SKS

ENERGEN RESOURCES CORP

WLSU #3

(Formerly Hamilton Federal No. 3)

LEA COUNTY, NM

Current Condition Flowing

10/21/2002

GL Elevation: 3983'

KB Elevation: 4000.5' -- 17.5' above GL

Location: 1880' FSL X 2080' FWL

Sec 33-15S-35E

Spud: 08/17/1993

API : 30-025-32184

Conductor:

None

Surface Casing:

13-3/8" 48#, H-40 @ 390'

Cemented to surface

with 400 sx Class "C" w/2% CaCl₂

Did not circulate, ran down back-

side of 13-3/8" csg w/ 1' tbg w/ 125 sx

Class "C" w/ 2% CaCl₂

(Circulated 5 sx)

Intermediate Casing:

8-5/8" 32#, S-80 & J-55 @ 4610'

(L) 1380 sx "PSL" containing 6%

Bentonite & 10% salt

(T) 200 sx Class "C" w/1% CaCl₂

(Circulated 235 sx)

TOC: Surface'

Production Casing:

5-1/2" 17#, S-95 & L-80 @ 11,834'

Preflushed w/ 1000 gals Na Silicate,

cmt w/ 738 sx Class "H" containing 0.7%

FL-25, 3% KCl, flushed w/ 273 BFW

TOC: 8480'

390'

4610'

8480'

SEE NOTE BELOW

Lok-set Packer: @ 11,606'

Strawn Perfs: 11,556-11,600' w/Vann gun system (2 spf) SQZ. Perfs w/200 sx. Cl H Cmt.
(POOH w/ Vann System Tools)

Strawn Perfs: 11,610-11,614' acidize w/500 gals HCL acid

PBD: 11,761'

NOTE: RA source left in btm of hole before 5-1/2" casing run. RA below casing.

TD: 11,870'

Tubing Detail (Last Available)

#Jts	O.D.	Thread	TAC?/Depth	Weight	Grade	TLA	Tally Dated:
357	2 7/8"	8 rd EUE	Lok-Set w/2-7/8" API SN @ 11,606'	6.5	N-80	11610	9/5/2001

Rod Detail (Last Available)

#Rods	Length	Size/Typ	Pump	Ponies	PR	PRL	Date Run:

ENERGEN RESOURCES CORP

WLSU #011

(formerly Klein Fee No. 1)

LEA COUNTY, NM

GL Elevation: 3981'

KB Elevation: 3996.5' -- 15.5' above GL

Location: 760' FNL x 2090' FEL

Sec 33-15S-35E

Spud: 02/15/1995

API : 30-025-32852

Current Condition SI

05/07/2001

Conductor:

None

Surface Casing:

13-3/8" 48#, H-40 @ 390'

Cemented to surface

with 440 sx Class "C" w/2% CaCl₂

Circulated 75 sx to surface

Intermediate Casing:

8-5/8" 32#, J-55 & S-80 @ 4698'

700 sx total

(L) 500 sx Class "C" Lite w/5% salt

(T) 200 sx Class "C" w/1% CaCl₂

TOC: Unknown

Production Casing:

5-1/2" 17#, S-95 & N-80 @ 11,935.55'

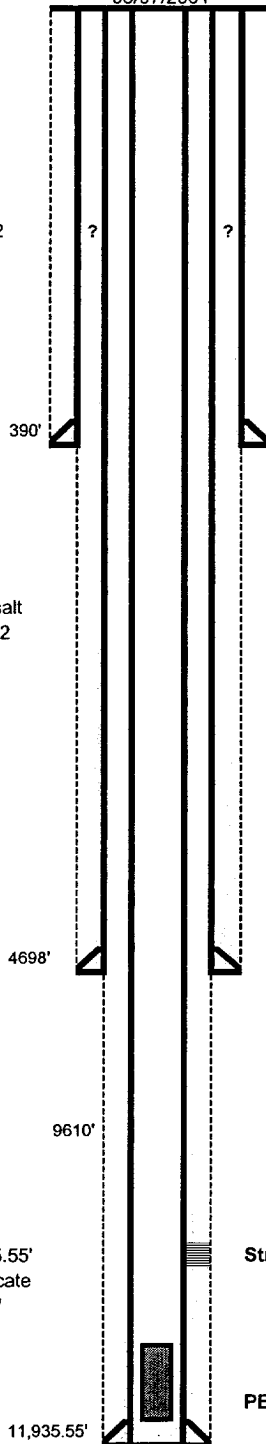
Preflushed w/ 1000 gals metasilicate

and cmted w/ 600sx Class "H" w/

.70% FL-25, 3% KCl, .2% FP-8.

Displaced w/ 277 BFW.

TOC: 9610' BTS



Tubing Detail (Last Available)

#Jts	O.D.	Thread	TAC?/Depth	Weight	Grade	TLA	Tally Dated:
351	2 7/8"		No	6.5	N-80	11624.15	03/18/1999

Rod Detail (Last Available)

#Rods	Length	Size/Type	Pump	Ponies	PR	PRL	Date Run:

Note: 03/31/95 Dropped bar to fire guns. Guns did not fire. Made several attempts to fish bar. While pulling fishing tool after third fishing attempt, the fishing tool tripped the mechanical tubing release dropping the Vann guns to PBSD. Left in hole: 4" loaded carrier guns, firing head, handling sub with no-go, 1 jt. 2-7/8" 6.5# N-80 tbg & mechanical tubing release. (total footage 50.7')

4/95 Vann Guns & bar not removed.

Strawn Perfs: 11,572-11,582' w/ 2 JSPF (21 holes)

PBD: 11,796' (Loaded Vann guns & other left in hole); 11,898'

TD: 11,935'

ENERGEN RESOURCES CORP

WLSU #14

LEA COUNTY, NM

GL Elevation: 3989'

KB Elevation: 4009' -- 20' above GL

Location: 1830' FNL X 610' FWL

Sec 33-15S-35E

Spud: 09/24/1999

API : 30-025-34684

Current Condition Flowing

05/08/2001

Conductor:

20" @ 40'

Surface Casing:

13-3/8" 48#, H-40 @ 397.55'

Cemented to surface

with 490 sx (circulated 28 sx to pit)

Intermediate Casing:

8-5/8" 32# J-55, Mav-80 @4746'

(L) 1100 sx Class "C" 50/50 Poz
w/10% bentonite

(T) 200 sx Class "C" w/ 1% CaCl2

Circulated 300 sx to pits

TOC: Surface'

Production Casing:

5-1/2" 17# , L-80 & M-95 @ 11,857'

w/ 700 sx Class "H" 50/50 Poz
plus 5/10/% FL-25 + 510% FL-52
+ 2% gel. Preceded cmt w/ 10 BFW
followed by 500 gals surebond

TOC: Not known

Tubing Detail (Last Available)

#Jts	O.D.	Thread	TAC?/Depth	Weight	Grade	TLA	Tally Dated:
351	2 7/8"		No	6.5	N-80	11452.48	11/04/1999

Rod Detail (Last Available)

#Rod	Length	Size/Type	Pump	Ponies	PR	PRL	Date Run:

397.55'

4746'

?

?

Strawn Perfs: 11,608-11,615' w/ 2 JSPF (16 holes total)

PBD: 11,719' (Float Collar @ 11,770')

TD: 11,857'

ENERGEN RESOURCES CORPORATION

West Lovington Strawn Unit #21

Lea County, NM

GL Elevation: 3992'
KB Elevation: 4008'
Location: 1980' FNL X 660' FEL,
Sec 32, T-15-S, R-35-E
Spud: 10/13/2001
API: 30-025-35704

Current Condition-Flowing

2/20/2002

Conductor:
NA

Tubing Detail (Last Available)

#Jts	O.D.	Thread	TAC?/Depth	Weight	Grade	TLA	Tally Dated:
362	2-7/8"	EUE rd	5 1/2" "Lok-Set" @ 11,460'	6.5	L-80	11,460'	12/5/2001

Surface Casing:

13-3/8" 48#, H-40 ST&C

@ 403' in 17-1/2" hole

Cement to surface

w/ 300 sx Class "C" + 4% gel + 2% CaCl₂

& 1/4# of Cello Flake/sx,

FB 100 Sx Class "C" + 2% CaCl₂

& 1/4# of Cello Flake/sx,

Circulated 105 sx to pit

403'

Intermediate Casing:

8-5/8" 32#, K-55 & HCK-55 @ 4800'

cmt w/

700 sx 50/50 Poz "C" + 1.5% CaCl₂ + 10% Gel,

5% Salt, 3# Gilsomite, 1/4#/sack

Tailed w/ 1000 sx "C" + 2% CaCl₂, 5% Salt

3# Gilsomite, 1/4#/sack Cello Flakes

Circulated 194 sx to pit

TOC: Surface'

4800'

Strawn Perfs: 11,596'-11,608' (12/36 holes)

Production Casing:

5 1/2" HCL-80 & L-80 17.00# set @ 11,930'

w/ 1000 sx 50/50 Poz "H" + 1# salt,

2% gel, .5% FL-25, .5% FL-52 & 1/4# of

Cello Flake/sx

TOC: 8836'

PBD: 11,819'

TD: 11,930'

ENERGEN RESOURCES CORPORATION

West Lovington Strawn Unit #19ST

GL Elevation: 3994'

KB Elevation: 4011'

Location: 330' FNL X 1000' FWL,
Sec 33, T-15-S, R-35-E

Spud: 07/20/2001

API: 30-025-35585

Lea County, NM

Current Condition-TA

7/20/2002

Conductor:

NA

Surface Casing:

13-3/8" 48#, H-40 ST&C

@ 402' in 17-1/2" hole

Cement to surface

w/ 300 sx Class "C" + 4% gel + 2% CaCl₂

& 1/4# of Cello Flake/sx,

FB 100 Sx Class "C" + 2% CaCl₂

& 1/4# of Cello Flake/sx,

Circulated 106 sx to pit

402'

4818'

Intermediate Casing:

8-5/8" 32#, K-55 & HCK-55 @ 4818'

cmt w/

1,200 sx 50/50 Poz "C" + 10% Gel,

5% Salt, 3# Gilsomite, 1/4#/sack

Tailed w/ 200 sx Class "C" + 1% CaCl₂,

Gilsomite, 1/4#sack Cello Flakes

Circulated 135 sx to pit

TOC: Surface'

ATTACHMENT B

Strawn Perfs: 11,848' -11,868' 66 holes over 20'
11,877' - 11,974' 30 holes over 10'

12,123'

PBD: 12,075'

TD: 12,125'

Production Casing:

5 1/2" HCL-80 & L-80 17.00# LT&C R-3 set @ 12,123'

Leas w/ 500 sx Class H w/ a yield of 2.54

Tail w/ 1000' sx Batch Mix 50/50 Poz "H" w/ a yield of 1.41

TOC: 2500'

ENERGEN RESOURCES CORPORATION

West Lovington Strawn Unit #19ST

Lea County, NM

GL Elevation: 3994'

KB Elevation: 4011'

Location: 330' FNL X 1000' FWL,
Sec 33, T-15-S, R-35-E

Spud: 07/20/2001

API: 30-025-35585

Proposed SWD

10/30/2002

Conductor:

NA

Surface Casing:

13-3/8" 48#, H-40 ST&C

@ 402' in 17-1/2" hole

Cement to surface

w/ 300 sx Class "C" + 4% gel + 2% CaCl₂
& 1/4# of Cello Flake/sx,

FB 100 Sx Class "C" + 2% CaCl₂

& 1/4# of Cello Flake/sx,

Circulated 106 sx to pit

402'

TOC by CBL @ 2500'

4818'

Injection Packer on 2-7/8" PCID tubing set @ 4800'+- with packer fluid
on annulus (Note: Packer will be set within 100' of top perf)

Intermediate Casing:

8-5/8" 32#, K-55 & HCK-55 @ 4818'

cmt w/

1,200 sx 50/50 Poz "C" + 10% Gel,

5% Salt, 3# Gilsonite, 1/4#/sack

Tailed w/ 200 sx Class "C" + 1% CaCl₂,

Gilsonite, 1/4#sack Cello Flakes

Circulated 135 sx to pit

TOC: Surface'

San Andres Injection Interval: 4818'-6300'

CIBP with 20' cement @ 6300'+-

9 PPG mud laden fluid

CIBP with 20' cement @ 9866'+- (Top of Wolfcamp)

9 PPG mud laden fluid

CIBP with 20' cement @ 11,800'+-

Strawn Perfs: 11,848' - 11,868' 66 holes over 20'

11,877' - 11,974' 30 holes over 10'

9 PPG mud laden fluid

PBD: 12,075'

TD: 12,125'

12,123'

ATTACHMENT C

Production Casing:

5 1/2" HCL-80 & L-80 17.00# LT&C R-3 set @ 12,123'

Leas w/ 500 sx Class H w/ a yield of 2.54

Tail w/ 1000' sx Batch Mix 50/50 Poz "H" w/ a yield of 1.41

TOC: 2500'

ENERGEN RESOURCES CORPORATION

West Lovington Strawn #19

330' FNL & 1000' FWL

Section 33, 15S, 35E

Lea County, New Mexico

VII. Attach data on the proposed operation, including:

- 1. Proposed average daily injection volume: 4000 BWP
Proposed maximum daily injection volume: 5000 BWP**
- 2. This will be a closed system.**
- 3. Proposed average daily injection pressure: 2000 psi
Proposed maximum daily injection pressure: 3000 psi**
- 4. Sources of injection water will be produced water from area San Andres wells that have been drilled and that are scheduled to be drilled on the West Lovington Strawn Unit (see list of source wells, Attachment G). A water analysis from nearby San Andres production (see Attachment H1, H2, H3) is attached that is taken from the WLSU #20 heater-(produced water), (raw water) pond, residence and adjacent Snyder water well, windmill, various water wells WLSU #11, 1, 8, 21.**
- 5. Chlorides in all of the source well is expected to be similar to the water analysis in Attachment H1 and H2.**

ENERGEN RESOURCES CORPORATION

West Lovington Strawn #19

330' FNL & 1000' FWL

Section 33, 15S, 35E

Lea County, New Mexico

VIII. Describe the proposed stimulation program, if any.

Well will be acidized with 5,000 gallons of 15% HCL acid if required.

COMPANY: Energen Resources Corp.

WELL: West Lovington Strawn Unit #19

FIELD: Lovington Strawn, West

COUNTY: Lea

STATE: New Mexico

Schlumberger

PLATFORM EXPRESS

Azimuthal Laterolog

MicroCFL-GR

COUNTY: Lea Field: Lovington Strawn, West Location: 330 FNL & 100 F.W.L. Well: West Lovington Strawn Unit #19 Company: Energen Resources Corp.	330 FNL & 100 F.W.L.		ELV	K.B.	4011 ft
				G.L.	3994 ft
				D.F.	4010 ft
	Permanent Datum		Ground Level	Elev	3994 ft
Log Measured From		Kelly Bushing	17.0 ft	above Perm. Datum	
Drilling Measured From		Kelly Bushing			
API Serial No. 30-025-35585		SECTION 33	TOWNSHIP 15S	RANGE 35E	
Logging Date		1-SEP-2001			
Run Number		One			
Depth Driller		11907 ft			
Schlumberger Depth		11906 ft			
Bottom Log Interval		11896 ft			
Top Log Interval		4820 ft			
Casing Driller Size @ Depth		8.625 in @ 4818 ft			
Casing Schlumberger		4820 ft			
Bit Size		7.875 in			
Type Fluid In Hole		LSND			
Density	Viscosity	9.1 lbm/gal 45 s			
Fluid Loss	PH	6.2 cm3 10			
Source Of Sample		Circulation Tank			
RM @ Measured Temperature		0.754 ohm.m @ 89 degF @			
RMF @ Measured Temperature		0.566 ohm.m @ 89 degF @			
RMC @ Measured Temperature		@ @			
Source RMF RMC		Calculated			
RM @ MRT	RMF @ MRT	0.446 @ 155 0.335 @ 155 @ @			
Maximum Recorded Temperatures		155 degF			
Circulation Stopped Time		1-SEP-2001 3:00			
Logger On Bottom Time		1-SEP-2001 12:30			
Unit Number	Location	3076 Hobbs, NM			
Recorded By		Charles Bartlett			
Witnessed By		Dale Windle, Mark Bright			

ENERGEN RESOURCES CORPORATION

West Lovington Strawn #19

330' FNL & 1000' FWL

Section 33, 15S, 35E

Lea County, New Mexico

VII. Attach data on the proposed operation, including:

- 1. Proposed average daily injection volume: 4000 BWPD
Proposed maximum daily injection volume: 5000 BWPD**
- 2. This will be a closed system.**
- 3. Proposed average daily injection pressure: 2000 psi
Proposed maximum daily injection pressure: 3000 psi**
- 4. Sources of injection water will be produced water from area San Andres wells that have been drilled and that are scheduled to be drilled on the West Lovington Strawn Unit (see list of source wells, Attachment G). A water analysis from nearby San Andres production (see Attachment H1 & H2) is attached that is taken from the WLSU #20 heater-(produced water), (raw water) pond, residence and adjacent Snyder water well.**
- 5. Chlorides in all of the source well is expected to be similar to the water analysis in Attachment H1 and H2.**

ENERGEN RESOURCES CORPORATION
West Lovington Strawn #19
330' FNL & 1000' FWL
Section 33, 15S, 35E
Lea County, New Mexico

Attachment G

VII. Item 4.

List of Produced Water Source Wells:

West Lovington Strawn Unit Sections 1, 5, 6, 28, 33, 34, 35
T15S & 16-S, R35-E, Lea County, New Mexico
Well Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18,
20, 21 and subsequent proposed wells to drill in these sections.

Waylan C. Martin, M.A.

P O BOX 1468
MONAHAN5, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W INDIANA
MIDLAND, TEXAS 79701
PHONE 683 4521

RESULT OF WATER ANALYSES

TO: Mr. Paul Calloway LABORATORY NO. 1102-82
3300 N. "A", Bldg 4, Ste 100, Midland, TX 79705 SAMPLE RECEIVED 11/15/02
RESULTS REPORTED 11/19/02

COMPANY Energgen Resources Corp. LEASE WLSU
FIELD OR POOL Lovington, West
SECTION 33/34 BLOCK --- SURVEY T-15S&R-35E COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from windmill located 520' south of WLSU #11. 11/14/02
NO. 2 Raw water - taken from water well located 150' west of WLSU #1. 11/14/02
NO. 3 Raw water - taken from water well located 100' east of WLSU #8. 11/14/02
NO. 4 Raw water - taken from water well located 175' west of WLSU #21. 11/14/02

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0016	1.0011	1.0019	1.0017
pH When Sampled				
pH When Received	7.37	8.36	7.02	7.47
Bicarbonate as HCO ₃	224	71	171	146
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	192	36	188	120
Calcium as Ca	67	7	58	38
Magnesium as Mg	6	4	11	6
Sodium and/or Potassium	46	32	64	48
Sulfate as SO ₄	69	0	45	59
Chloride as Cl	26	27	99	30
Iron as Fe	1.5	6.5	24.4	0.69
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	438	146	448	327
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohms/m at 77° F.	20.80	49.50	16.20	25.25
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Carbonate, as CO ₃	0	5	0	0
Nitrate, as N	3.3	0.0	0.1	0.1

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

1. WLSU #11 located 760' FNL & 2,090' FEL of Section 33.
2. WLSU #1 located 330' FSL & 2,145' FEL of Section 33.
3. WLSU #8 located 1,980' FSL & 660' FWL of Section 34.
4. WLSU #21 (OCD lease #027820).

The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

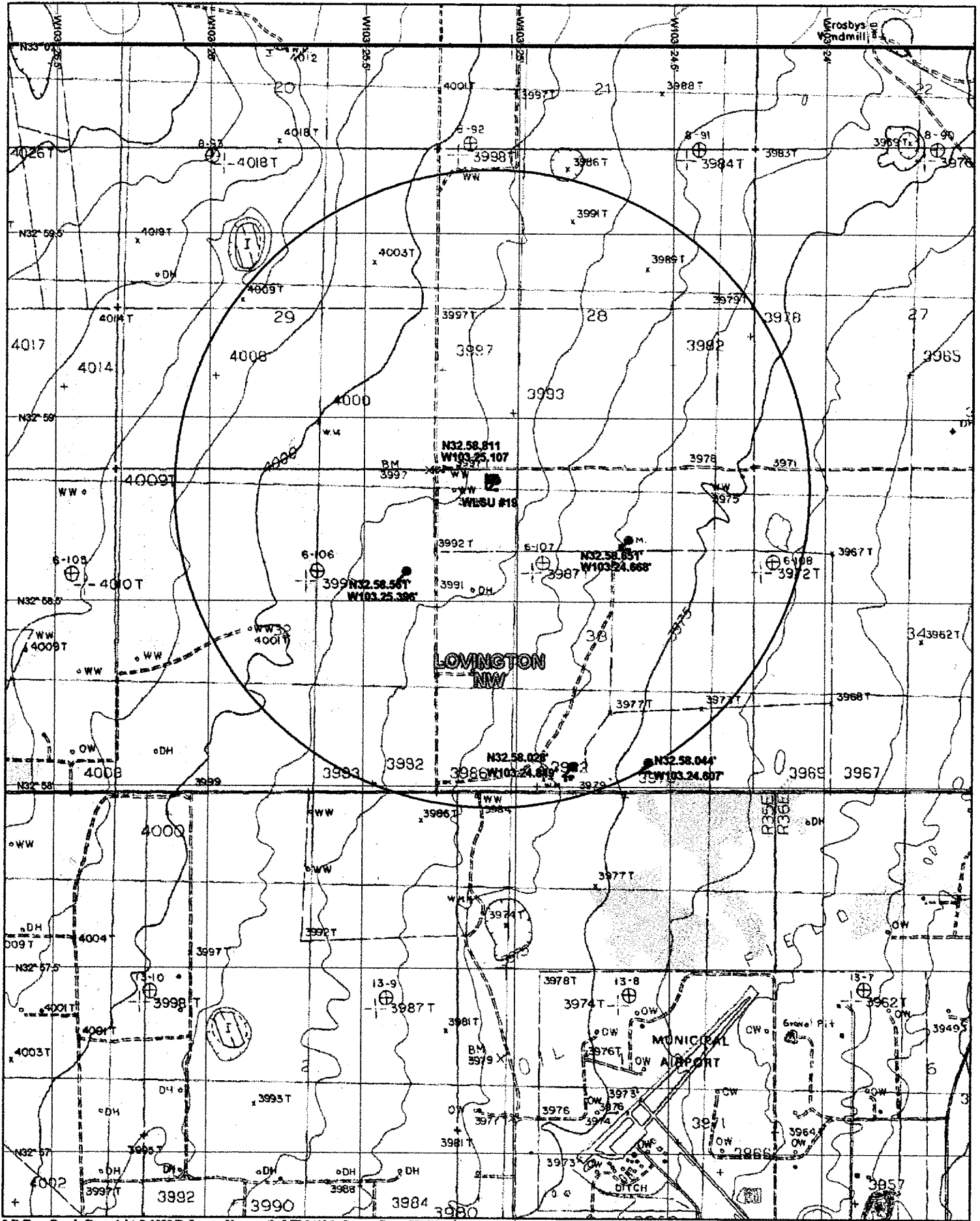
Form No. 3

By _____

Waylan C. Martin, M.A.

ATTACHMENT H3

MAP FRESH WATER WELLS IN 1 MILE R. US



ENERGEN RESOURCES CORPORATION

West Lovington Strawn #19

330' FNL & 1000' FWL

Section 33, 15S, 35E

Lea County, New Mexico

VIII. Describe the proposed stimulation program, if any.

Well will be acidized with 5,000 gallons of 15% HCL acid if required.


ATTACHMENT TO APPLICATION C-108

WLSU #19

Unit D, Sect. 33, T. 15 S., R. 35 E.

Lea Co., NM

- VIII. Injection Zone: The San Andres formation from 4,500-6,300' will be used for water disposal. The San Andres lithology is composed primarily of dolostone and anhydrite with minor interbedded clastics. The dolomite porosity is compartmentalized intercrystalline and varied-sized vuggy. The porosity developed is diagenetic due to subaerial exposure and phreatic water dissolution of the rock matrix; hence, an irregular, areal distribution pattern. The shallow-water shelf-edge depositional environment was little impacted by tectonic activity (minor fracture development). The Ogallala fresh water aquifer occurs from 60' to 250' beneath the surface. It is protected by 2 strings of casing: 13 3/8" casing set at 400' and 8 5/8" casing set at 4,818'.
- XII. I, David Cromwell, have examined available geologic data and find no evidence of open, active faults which may connect this proposed disposal zone to an underground source of fresh, potable water aquifer.



Signature

18 Nov 02

Date

**ENERGEN RESOURCES CORPORATION
West Lovington Strawn #19
330' FNL & 1000' FWL
Section 33, 15S, 35E
Lea County, New Mexico**

Attachment J

XIII. Item A.

Proof of Notice

List of Surface Owners:

**State of New Mexico
Commissioner of Public Lands
P. O. Box 1148
Santa Fe, NM 87504-1148**

**Hardin & Watson, Inc.
Rte 2, Box 43N
Lovington, NM 88260**

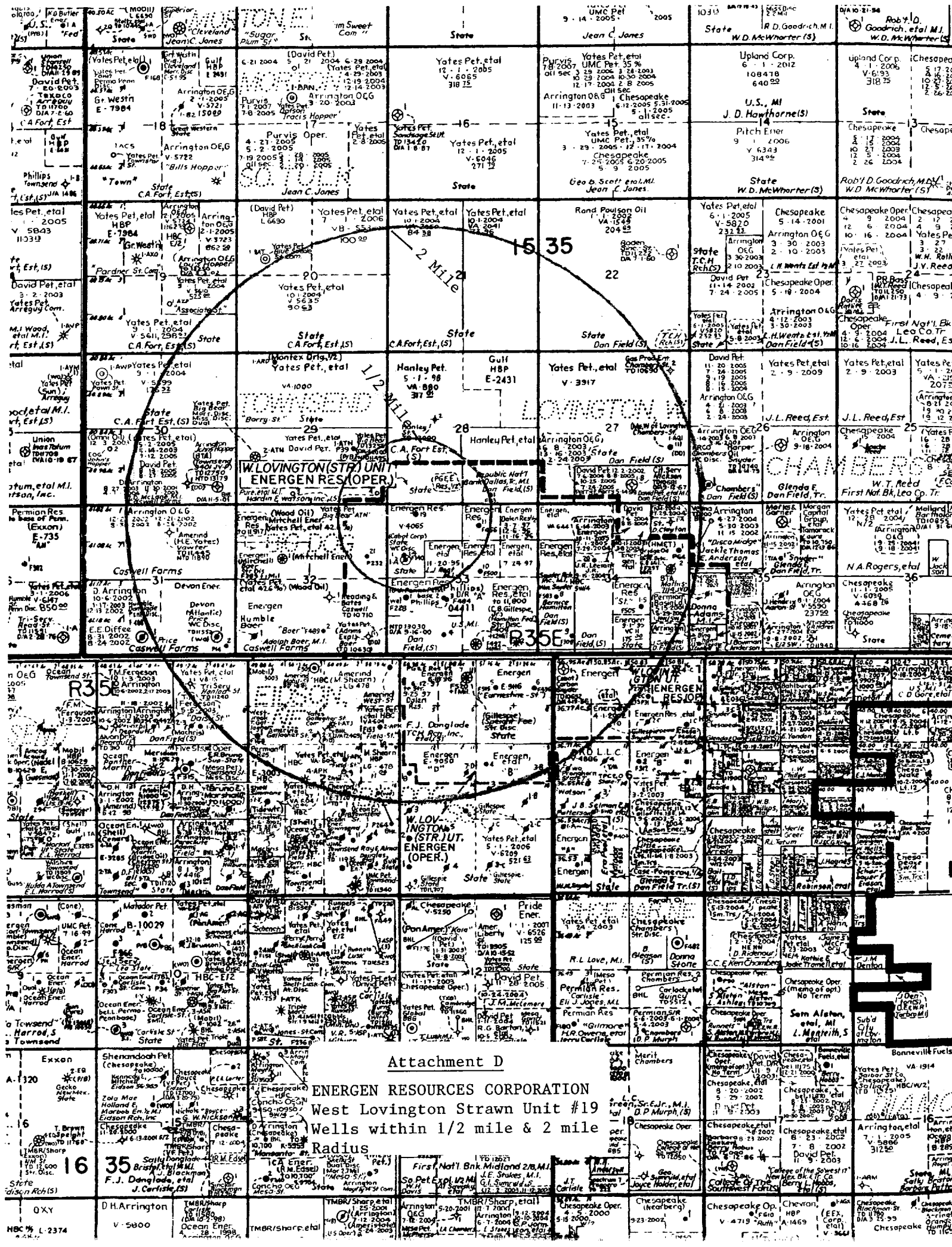
**Dan Field & Glenda Field
Branch Ranch
P. O. Box 1105
Lovington, NM 88260**

List of Lease Operators Within ½ Mile:

**Energen Resources Corporation
3300 N. "A" Street, Bldg. 4, Ste. 100
Midland, Texas 79705**

A copy of the C-108 Application for Authorization to Inject/Dispose have been sent to each of the above listed parties on this the 19th day of December, 2002.

**Sharon Hindman
Regulatory Analyst
Energen Resources Corporation**

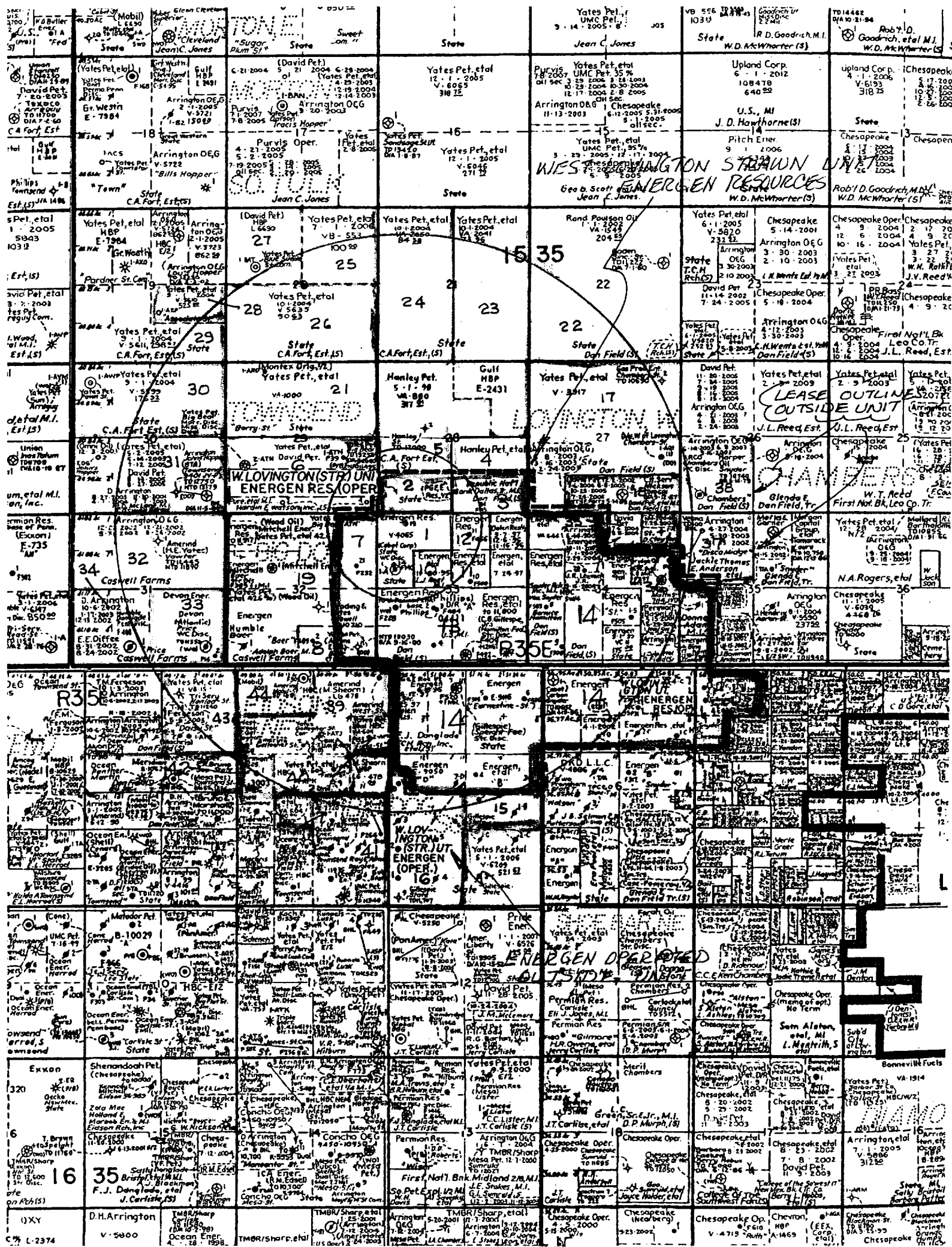


Attachment D
ENERGEN RESOURCES CORPORATION
West Lovington Strawn Unit #19
Wells within 1/2 mile & 2 mile
Radius

Tract Information Summary WLSU Well #19 SWD Application					
One-half Mile Radius					
Map No.	Operator & Address	Surface Owner & Address	Lease Name	Well Name & Numbers	Comments
1	Energen Resources Corporation 3300 N. "A" St., Building 4, Suite 100 Midland, TX 79705	State of New Mexico Commissioner of Public Lands P.O. Box 1148 Santa Fe, NM 87504-1148	WLSU Tract 4	WLSU Wells #14 & #19	State of NM OGL No V-4065 State Surface Surface Lease GO-1510 (Watson Construction, attn Danny Watson Rte 2, Box 38 Lovington, NM 88260 Cell Ph 505-370-5637
2	Energen Resources Corporation 3300 N. "A" St., Building 4, Suite 100 Midland, TX 79705	State of New Mexico Commissioner of Public Lands P.O. Box 1148 Santa Fe, NM 87504-1148	WLSU Tract 15	No Active Wells	State of NM OGL No VA-880 State Surface Surface Lease GO-1510 (Watson Construction, attn Danny Watson Rte 2, Box 38 Lovington, NM 88260 Cell Ph 505-370-5637
3	Energen Resources Corporation 3300 N. "A" St., Building 4, Suite 100 Midland, TX 79705	Dan Field & Glenda Field Branch Ranch P.O. Box 1105 Lovington, NM 88260	WLSU Tract 14	WLSU Well #13	
4	Hanley OAD, Ltd. II C/o Eric Hanson Hanley Petroleum, Inc. 415 W. Wall, Suite 1500 Midland, TX 79701	Dan Field & Glenda Field Branch Ranch P.O. Box 1105 Lovington, NM 88260		No Active Wells	Tract HBP by WLSU
5	Hanley OAD, Ltd. II C/o Eric Hanson Hanley Petroleum, Inc. 415 W. Wall, Suite 1500 Midland, TX 79701	State of New Mexico Commissioner of Public Lands P.O. Box 1148 Santa Fe, NM 87504-1148		No Active Wells	State of NM OGL No VA-880 State Surface Surface Lease GO-1510 (Watson Construction, attn Danny Watson Rte 2, Box 38 Lovington, NM 88260 Cell Ph 505-370-5637
6	Yates Petroleum Company	Hardin & Watson, Inc. Rte 2, Box 43N Lovington, NM 88260	Big Bear ATN Lease	#1 ATN, #2 ATN, #3 ATN, # 4 ATN	No Information other than Location on #2 & #4 Wells
7	Energen Resources Corporation 3300 N. "A" St., Building 4, Suite 100 Midland, TX 79705	Hardin & Watson, Inc. Rte 2, Box 43N Lovington, NM 88260	WLSU Tract 24	No Active Unit Wells	
8	Energen Resources Corporation 3300 N. "A" St., Building 4, Suite 100 Midland, TX 79705	Hardin & Watson, Inc. Rte 2, Box 43N Lovington, NM 88260	Baer Lease	Baer #2	
9	Energen Resources Corporation 3300 N. "A" St., Building 4, Suite 100 Midland, TX 79705	Hardin & Watson, Inc. Rte 2, Box 43N Lovington, NM 88260	Baer Lease	No Active wells	HBP by Unit and #2 Baer Well
10	Energen Resources Corporation 3300 N. "A" St., Building 4, Suite 100 Midland, TX 79705	Hardin & Watson, Inc. Rte 2, Box 43N Lovington, NM 88260	WLSU Tract 7	No Active Unit Wells	
11	Energen Resources Corporation 3300 N. "A" St., Building 4, Suite 100 Midland, TX 79705	Dan Field & Glenda Field Branch Ranch P.O. Box 1105 Lovington, NM 88260	WLSU Tract 8	WLSU Well #10	
12	Energen Resources Corporation 3300 N. "A" St., Building 4, Suite 100 Midland, TX 79705	Dan Field & Glenda Field Branch Ranch P.O. Box 1105 Lovington, NM 88260	WLSU Tract 10	WLSU Well #11	
13	Energen Resources Corporation 3300 N. "A" St., Building 4, Suite 100 Midland, TX 79705	Dan Field & Glenda Field Branch Ranch P.O. Box 1105 Lovington, NM 88260	WLSU Tract 1	WLSU Wells #1, #2, #3 & #4	

Tract Information Summary WLSU Well #19 SWD Application					
Wells within a Two Mile Radius					
Map No.	Operator & Address	Surface Owner & Address	Lease Name	Well Name & Numbers	Comments
14	Energen Resources Corporation 3300 N. "A" St., Building 4, Suite 100 Midland, TX 79705		West Lovington Strawn Unit		Energen Operates all active wells including those producing from outside the Unitized Interval
15	Energen Resources Corporation 3300 N. "A" St., Building 4, Suite 100 Midland, TX 79705		State "B"		
16	Energen Resources Corporation 3300 N. "A" St., Building 4, Suite 100 Midland, TX 79705		State "D"	Wells #1, #2, #4, #5, #6 & #8	
17	Yates Petroleum Corporation 105 S. 4th St. Artesia, NM 88210 Ph. 505-748-4489		Chambers AQL State	One well on unit I	State Lease Number V-3917
18	David Petroleum Corp 116 W. 1st St. Roswell, NM 88201 Ph 505-622-885-		S/2 SE/4 and SE/4 SW/4 Section 27	No Active Wells on Tract	(May only be partial owner)
19	ChevronTexaco 15 Smith Road Midland, TX 79705 915-687-7100		N/2 NE/4 & SE/4 NE/4 Section 28	No Active Wells on Tract	State Lease Number E-2431
20	Hanley OAD, Ltd. II C/o Eric Hanson Hanley Petroleum, Inc. 415 W. Wall, Suite 1500 Midland, TX 79701		NW/4 & SW/4 NE/4	No Active Wells	State of NM OGL No VA-880
21	Yates Petroleum Corporation 105 S. 4th St. Artesia, NM 88210 Ph. 505-748-4489		Barry ARD State	One well on Unit D	State of NM OGL No VA-1000
22	Appears Open		Section 22	No Active Wells	Last Lease State VA-1549 appears to have expired 1/1/2002
23	Yates Petroleum Corporation 105 S. 4th St. Artesia, NM 88210 Ph. 505-748-4489		E/2 Section 21	No Active Wells	State of NM OGL No VA-2041
24	Yates Petroleum Corporation 105 S. 4th St. Artesia, NM 88210 Ph. 505-748-4489		W/2 Section 21	No Active Wells	State of NM OGL No VA-2050
25	Yates Petroleum Corporation 105 S. 4th St. Artesia, NM 88210 Ph. 505-748-4489		NE/4 Section 20	No Active Wells	State of NM OGL No VB-553
26	Yates Petroleum Corporation 105 S. 4th St. Artesia, NM 88210 Ph. 505-748-4489		S/2 Section 20	No Active Wells	State of NM OGL No V-5635
27	Exxon Mobil Corporation P.O. Box 4697 Houston, Texas 77210-4697		NW/4 Section 27	Permitted Well Yates - Blue Suede St BAT unit E	State of NM OGL No L-6690 ExxonMobil Record title holder per the State of NM
28	Yates Petroleum Corporation 105 S. 4th St. Artesia, NM 88210 Ph. 505-748-4489		N/2 SE/4 Section 19	Permitted Well Yates - Associates St AZP unit J	State of NM OGL No V-5610
29	Yates Petroleum Corporation 105 S. 4th St. Artesia, NM 88210 Ph. 505-748-4489		S/2 SE/4 Section 19	No Active Wells	State of NM OGL No V-5611
30	Yates Petroleum Corporation 105 S. 4th St. Artesia, NM 88210 Ph. 505-748-4489		N/2 Section 30	Permitted Well Yates - Pawn AWP St. unit D	State of NM OGL No V-5599

31	David Arrington Oil & Gas, Inc. P.O. Box 2071 Midland, TX 79702 Ph. 915-682-6685; Yates Petroleum Corporation 105 S. 4th St. Artesia, NM 88210 Ph. 505-748-4489; David Petroleum Corp 116 W. 1st St. Roswell, NM 88201 Ph. 505-622-8850		S/2 Section 30	Permitted Well EOG - John's Hopper No. 2 unit L	Fee Lands Numerous leases shown on County Map all of the parties listed show to be Lessees
32	David Arrington Oil & Gas, Inc. P.O. Box 2071 Midland, TX 79702		N/2 Section 31	No Active Wells	Arrington may only own partial rights
33	Devon Energy Production Company, L.P. 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102 Ph 405-552-4627		J. D. Price	Well #2	
34	David Arrington Oil & Gas, Inc. P.O. Box 2071 Midland, TX 79702 Ph. 915-682-6685		SW/4 Section 31	No Active Wells	Arrington may only own partial rights
35	Energen Resources Corporation 3300 N. "A" St., Building 4, Suite 100 Midland, TX 79705; David Arrington Oil & Gas, Inc. P.O. Box 2071 Midland, TX 79702 Ph. 915-682-6685; David Petroleum Corp 116 W. 1st St. Roswell, NM 88201 Ph 505-622-8850		NW/4 NE/4 Section 34	No Active Wells	May be additional parties
36	Energen Resources Corporation 3300 N. "A" St., Building 4, Suite 100 Midland, TX 7970		NE/4 NE/4 Section 34	No Active Wells	State of NM OGL No VA-644
37	David Arrington Oil & Gas, Inc. P.O. Box 2071 Midland, TX 79702 Ph. 915-682-6685		NW/4 Section 35	Permitted Well Arrington - Disco-Modge unit D	
38	David Arrington Oil & Gas, Inc. P.O. Box 2071 Midland, TX 79702 Ph. 915-682-6685		SW/4 Section 26	No Active Wells	Arrington may only own partial rights
39	Amerind Oil Co., L.P. 415 W. Wall St., Suite 500 Midland, TX 79701 Ph 915-682-8217		Lots 1, 2, 5, 6, 7, 8 & 9, Section 2	Gallagher State#2 West State #1	State of NM OGL No LG-478 Sol West Record title holder
44	Amerind Oil Co., L.P. 415 W. Wall St., Suite 500 Midland, TX 79701 Ph 915-682-8217		Lots 3 & 4, Section 2	Mobil State #1	State of NM OGL No 3003 ExxonMobil Record title holder
40	Yates Petroleum Corporation 105 S. 4th St. Artesia, NM 88210 Ph. 505-748-4489		Lots 8, 10, 11 Section 2	Field ARK State Wells #1 thru 4 Gallagher ATJ State Com #1	State of NM OGL No VA-604
41	Ocean Energy, Inc. 1001 Fannin, Suite 1600 Houston, TX 770002 Ph. 713-265-6000		Lots 14, 15, 16 & SE/4 Section 2	Townsend State 1, 5, 9, 11	State of NM OGL No. E-7720
42	Permian Resources, Inc. 608 N. Main St. Midland, TX 79701 Ph. 915-685-0113		Lot 12 Section 2	New Mexico I #1	State of NM OGL No. E-3003
43	Yates Petroleum Corporation 105 S. 4th St. Artesia, NM 88210 Ph. 505-748-4489		Lots 1, 2, 7, & 8 Section 3	Daisy AFS State #1	State of NM OGL No. VB15



**ENERGEN RESOURCES CORPORATION
West Lovington Strawn #19
330' FNL & 1000' FWL
Section 33, 15S, 35E
Lea County, New Mexico**

Attachment K

XIII. Item B.

**LEGAL NOTICE
NOTICE OF APPLICATION FOR DISPOSAL WELL PERMIT**

ENERGEN RESOURCES CORPORATION, 3300 N. "A" Street, Bldg. 4, Ste. 100, Midland, Texas 79705, has filed form C-108 (Application For Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the West Lovington Strawn Unit #19 is located 330' FNL & 1000' FWL, Section 33, Township 15 South, Range 35 East, Lea County, New Mexico. Disposal water will be sources from area wells producing from the San Andres formation. The disposal water will be injected into the San Andres formation at a depth of 4818'-6300', a maximum surface pressure of 3000 psi, and a maximum rate of 5000 BWPD.

LEGAL AUTHORITY: Rule 401.C.(1) of the Rules and Regulations of the New Mexico Oil Conservation Commission.

Requests for a public hearing from persons who can show they are adversely affected, or requests for further information concerning any aspect of the application should be submitted in writing, within fifteen days of this publication, to the Oil Conservation Division, 2040 S. Pacheco Street, Santa Fe, New Mexico 87505. Additional information can be obtained by contacting Sharon Hindman, Regulatory Analyst, at 3300 N. "A" Street, Bldg. 4, Ste. 100, Midland, Texas 79705, or (915) 684-3693.

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

REC'D NOV 30 2002

I, KATHI BEARDEN

Publisher

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

of 1
_____ weeks.

Beginning with the issue dated

November 24 2002
and ending with the issue dated

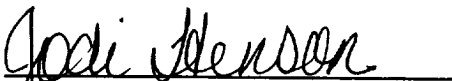
November 24 2002



Publisher

Sworn and subscribed to before
me this 25th day of

November 2002



Notary Public.

My Commission expires
October 18, 2004
(Seal)

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

LEGAL NOTICE
November 24, 2002
NOTICE OF APPLICATION FOR DISPOSAL
WELL PERMIT

ENERGEN RESOURCES CORPORATION, 3300 N. "A" Street, Bldg. 4, Ste. 100, Midland, Texas 79705, has filed form C-108 (Application For Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the West Lovington Strawn Unit #19 is located 330' FNL & 1000' FWL, Section 33, Township 15 South, Range 35 East, Lea County, New Mexico. Disposal water will be injected into the San Andres formation at a depth of 4818'-6300', a maximum surface pressure of 3000 psi, and a maximum rate of 5000 BWPD.

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#19399

01105161000 67510798
Energen Resources Corporation
3300 North "A" Street
Building 4, Suite 100
MIDLAND, TX 79705

STATE OF TEXAS

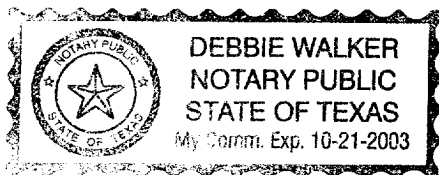
COUNTY OF MIDLAND

BEFORE ME, the undersigned authority on this day personally appeared Sharon Hindman, an Regulatory Analyst with Energen Resources Corporation, who being by me duly sworn, deposes and states that the persons listed on the foregoing attached list have been sent a copy on December 19, 2002, of the New Mexico Oil Conservation Division form C-108 entitled, "Application For Authorization To Inject" for the West Lovington Strawn Unit Well #19, located in Section 33, T15S, R35E, Lea County, New Mexico.

Energen Resources Corporation

Sharon Hindman
Sharon Hindman

SBUSCRIBED AND SWORN TO before me on December 19, 2002, to certify which witness my hand and seal of office.



Debbie Walker
NOTARY PUBLIC, STATE OF TEXAS