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Westall Oil & Gas, Inc.

DRC

Independent Oil Producer Post Office Box 4 Loco Hills, New Mexico 88255 PH. 505-677-2370 • FAX 505-677-2361



January 31, 2003

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

Attn: Mr. David Catanach

Re Form C-108 Nugget State No.1 Unit A, Section 36, T-19S, R31E Eddy County, New Mexico

Dear Mr. Catanach:

Enclosed is a re-submitted application for water disposal in the captioned well, with the issues of your letter dated January 7, 2003 being addressed.

- (1) The shortened Injection interval is not productive in any well within the West Lusk-Delaware Pool.
- (2) The injection interval has been shortened to 4470-6503' leaving the interval 6919-7082' blanked off with a CIBP.
- (3) Cement data for all wells has been provided.

If you require any additional information, please contact me at (505) 677-2370 or <u>rharrisnm@netscape.net</u>.

Sincerely, Randall Harris Geologist

FEB - 3 2003



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Bill Richardson and Long Wrotenbery Governor Joanna Prukop Wielens and and and the order of beactor descention of the bill o

Ray Westall P.O. Box 4 Loco Hills, New Mexico 88255

Attention: Mr. Randall Harris

Re: Form C-108 Application Nugget State No. 1 Unit D, Section 36, T-19S, R-31E, Eddy County, New Mexico

Dear Mr. Harris:

am in the process of reviewing your application to convert the above-described Nugget State Well No. 1 to a disposal well in the Delaware formation. Please be advised that additional information will be necessary in order to process the application. Please address the following issues and submit the necessary data, at which time your application will be processed.

- (1) the subject well is directly offset to the east by the West Lusk-Delaware Oil Pool. Is the injection interval in the Nugget State Well No. 1 productive within the West Lusk-Delaware Pool? Please address how correlative rights will be protected by allowing injection into the Delaware formation in this area;
- (2) the proposed injection interval is approximately 2,612 feet in length. The Division does not normally approve injection intervals this large. It is likely that you will be asked to reduce the injection interval to a more reasonable interval, and one that will not expose such a large portion of the production casing to corrosion through injection. Likely, the interval from approximately 5,636' to 7,082' feet will be considered for approval;
- please provide production casing cement top data for the Yates Drilling Federal "30" Well No. 1 located in Section 30, Township 19 South, Range 32 East.

Your application will be processed upon receipt of the requested data.

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

Revised 4-1-98

	APPLICATION FOR AUTHORIZATION TO INJECT						
I.	PURPOSE:Secondary RecoveryPressure MaintenanceDisposalStorage Application qualifies for administrative approval?YesNo						
II.	OPERATOR: RAY WESTALL						
	ADDRESS: P. U. Box 4 Laco HILLS, NNI 88255						
	CONTACT PARTY: KANDALL HARALS PHONE: 505 677 2370						
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 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;						
	 Whether the system is open or closed; Proposed average and maximum injection pressure; 						
	 Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 						
	 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.

TITLE: GEOLOG NAME: SIGNATURE:

* 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

RAY WESTALL NUGGET STATE #1 660' FNL & 660' FEL SEC 36 T19S-R31E

13-3/8", 54#/ft.set a 600' w/ **Tubular** Data 315 SNS 65/35 POZ, 6% D-20, 2% salt, & 1/4#/sk D-29, tail w/ 200 sks. HEII Surface Casing w/ 2% salt & 1/4#/sk D-29 Tail w/ 200 sks HE-II w/ 2% salt & 1/4# 0-29 circ, 50 sks with 500 sxs Circulated 8-5/8" 24# & 28 # J-55 casing set a 3750' Hole size $17 \frac{1}{2}$ " w/ 400 sks, 35/65 POZ, 6X D-20, 8X salt, & 1/4# D-29, Tail in w/ 200 sks Standard Intermediate Casing Perf Run #3, 4470-4486.5 (12 perfs) acid 500 gals 15% HCL, frac w/ 18,000 gals 45,000# ad Long String <1 Perf Run #2, 5636-47 (12 shots) <¹ acid 1000 gats, Frac 18,000 gats & 43,000 # sd Perf Run #4, 6493'-6503' (11 shots) w/1000 gals 15 % HCL ۲ Perf Run #4, 6493'-6503' (11 shots) w/1000 gals 15 % HCL <1 Fraced w/ 9500 gats 30# XL & 13,200# sand Injection interval CIBP 6910'-----^ Perf Run #7, 6919'-6931'(11 shots) w/S00 gals 15 % HCL Perf Run #6, 6990'-6996' (7 shots) w/500 gals 15 % HCL Perf Run #5, 7040-7050 (11 shots) acid 750 gals, 15% HCL 1 Perf Run #1, 7071-7082 (12 shots) acid 1000 gals, Frac w/ 22,000 gals w/ 31,000 # sd - 5-1/2" & 17# LT&C Casing @ 7324' DV tool a 4292' ont 1st stage w/ 775 sks

10: 7527' 2nd stage 550 sxs 35/65 POZA circ. 40 sxs Size 13 3/8" 54.5# Set @ 600' Cemented

Size 8 5/8" 24# set @ 3750' Cemented with 800 sxs Circulated Hole size 12 1/4"

Size 5 1/2 17 & 15.5# set @ 7327 Cemented with 1295 sxs Circulated Hole size 7 7/8"

4470' to 6503' feet Perforated

Tubing size 2 7/8" lined with Plastic set in a Baker Loc-set packer at 4400 feet.

Other Data

- Name of the injection formation. DELAWARE 1.
- 2. Name of field or pool. WEST LUSK DELAWARE
- Is this a new well drilled for injection? No 3. If no, for what purpose was the sell originally drilled? Oil & Gas production Has the well ever been perforated in any other zone(s)? List all such perforated intervals 4.
- and give plugging detail (sacks of cement or bridge plug (s) used. CIBP at 6910'
- Give the depth to and name of any overlying or underlying oil or gas zones in this area. 5. NONE

ATTACHMENT V

Maps that identifies all wells of public record within two miles of each proposed injection well, and the area of review one-half mile radius around each proposed injection well.

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Data on all wells of public record within the area of review. Included are schematics of the plugged wells that penetrated the proposed injection zone within the area of review.

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WELL NAME	LOCATION	SPUD DATE	SUR.CASING	INT.CASING	PROD. CASING	COMPLETION
Yates Flood AFN Fed #1	SWSW Sec 30 T19S-R32E	7/16/90	13 3/8" @ 707 650 sxs Circ.	8 5/8" @ 4073 2070 sxs Circ	5 1/2" @7270 890 sxs T/2450 calc	7009-7025 W. Lusk Delaware Oil
Yates Drilling Federal 30 #1	NWSW Sec 30 T19S-R32E	11/17/90	13 3/8" @ 851 851 sxs Circ.	8 5/8" @ 4222 2075 sxs Circ.	5 1/2" @ 7292 650 sxs T/3503 calc	6956-7118 W. Lusk Delaware Oil
Ray Westall Polewski Federal #1	NWNW Sec 31 T19S-R32E	4/4/63 Re entered Feb-88	13 3/8 @ 845 350 sxs Circ.	8 5/8" @ 3075 3350 sxs T/2100	5 1/2" @ 7162 1550 sxs Circ	7024-7056 W. Lusk Delaware Oil
Ray Westall Polewski Federal #2	NENW T19S-R32E	9/11/02	13 3/8" @ 844 650 sxs Circ.	8 5/8" @ 3992 2250 sxs Circ	5 1/2" @ 7302 1150 sxs Circ	7159-7202 W. Lusk Delaware TESTING

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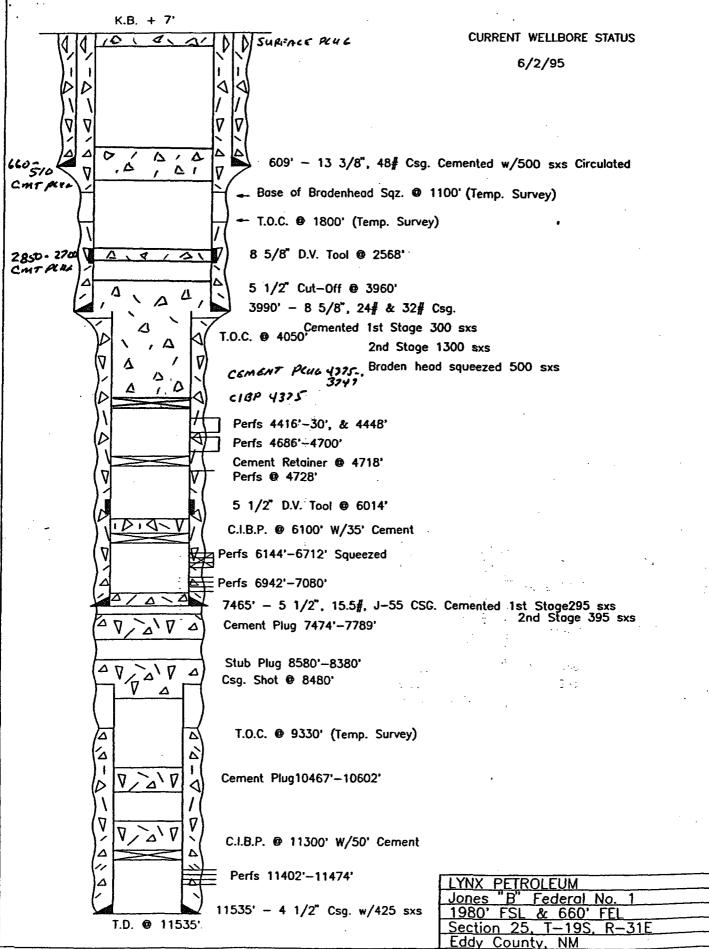
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P & A Wells

SCHEMATICS ATTACHED

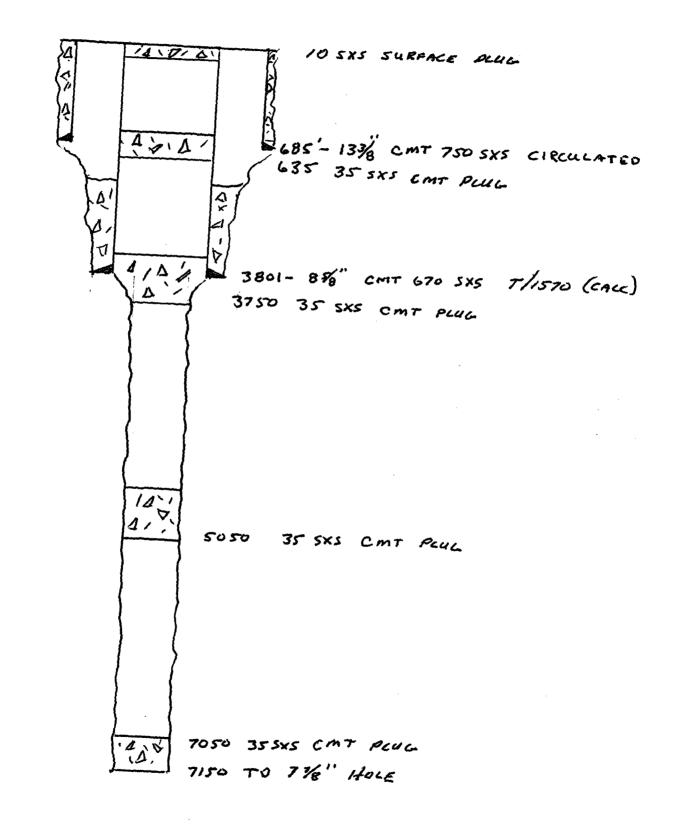
Hopper-BarnettSENW Sec 3112/30/89Princess Fed #1T19S-R32E

Lynx Jones B NESE Sec 25 1/22/64 Federal #1 T19S-R31E



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IIDTMER-DARNETT PRINCESS FED I 1650' NEWL SECTION 31 TIRS-R32E LEA COUNTY, NM



ATTACHMENT VII

- 1. Proposed average of 150 bbls per day and maximum of 300 bbls per day of injected fluids. At a rate of one bbl per minuet.
- 2. System will be closed.
- 3. Average anticipated pressure of 450 psi and a maximum of 800 psi.
- 4. Source of produced water is reinjected produced water from offsetting leases of the same formation.
- 5. Water analysis attached.

		Attn: Fax #	Ray Westall 505-677-2361	
B J Se	ervices Wate	er Analysi	S	
Arte		Laboratory		
Date: 4-Nov-02	Test #:	1530 Hrs,		
Company: Ray Westall	Well #:	#2		
Lease: Polewski	County:	Lea		
State: NM	Formation:			
Depth: 7,000	Source:	Grab		
рН	6.35	Temp (F):	70	
Specific Gravity	1.026			
CATIONS	mg/	ne/l	ppm	
Sodium (caic.)	11389			
Calcium	241			
Magneslum	12			
Barium	< 2!			
Potassium	< 10)		
Iron	97	7 3.5	95	
ANIONS				
Chlorido	18000	507.8	17544	
Sulfate	244	4 5.1	237	
Carbonate	< 1	1		
Blcarbonate	610) 10.0	595	
Total Dissolved Solids(cal	c.) 30702	2	29924	
Total Hardness as CaCO3	1101	1 22.0	1073	
COMMENTS: Res	istivity (ohm-mete	irs-calc.)	0.215509	
SCALE ANALYSIS: CaCO3 Factor 1 CaSO4 Factor	46766 Calcium Carbo 60150 Calcium Sulfa		-	Rem Rem
	Stift	i Plot		
60 50 40) 30 20 10	00 10 20	30 40 50	60

The proposed injection zone is a fine grained sand in the Delaware Formation. It has several sands with varying thickness. There is possible drinking water overlying the injection in the surface sands at a depth of 0-250'. There is no known source underlying the injection interval.

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ATTACHMENT IX

No proposed stimulation.

There is no active fresh water wells within one mile.

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All available geologic and engineering data have been examined and there is no evidence of open faults or any other hydrologic connection between the disposal zone and any source of drinking water.

ATTACHMENT XIV

PROOF OF NOTICE

Leasehold operators within one-half mile of the well location are: J Bar Cane, Lynx Yates Drilling Yates Petroleum, Marbob and Capstone. Each of the operators were provided a copy of our application by certified mail. Proof of notice is enclosed. The surface owner is the State of New Mexico.

PROOF OF PUBLICATION

Proof of publication will be from the Hobbs Daily Sun and will be forwarded.

Affidavit of Publication NO. 17889	Copy of
STATE OF NEW MEXICO	
County of Eddy:	
Gary D. Scott being duly	
sworn,says: That he is the Publisher of The	
Artesia Daily Press, a daily newspaper of general	
circulation, published in English at Artesia, said county	
and county and state, and that the here to attached	
Legal Notice	
was published in a regular and entire issue of the said	
Artesia Daily Press, a daily newspaper duly qualified	
for that purpose within the meaning of Chapter 167 of	
the 1937 Session Laws of the state of New Mexico for	
1 consecutive weeks/days on the same	
day as follows:	
First Publication October 27 2002	
Second Publication	
Third Publication	
Fourth Publication	
Nann Slett	
Subscribed and sworn to before me this	
28th day of October 2002	
Barbara anxi Boans Notary Public, Eddy County, New Mexico	
My Commission expires September 23, 2003	

Publication:

LEGAL NOTICE

LEGAL:NOTICE Ray Westall-Operator, P.O: Box 4, Loco Hills, New Mexico 88255 Phone (505)677-2370. Contact party for Ray Westall-Operator Is Randall Harris, is seeking administrative approval from the New Mexico Oil Conservation Division to utilize a well located 660 FNL & 660 FEL Section 36, Township 19 south, Range 31 East, Eddy County, New Mexico known as the Nugget State #1 for water injection Proposed injection is in the Delaware formation through Proposed injection is in the Delaware formation through perforations 4470-7082 feet. Expected maximum injection rate of 300 bbls per day at 800 psi. Interested parties must file objection or requests for hearing with the Oil Conservation Division, 1220 So. St. Francis Drive, Santa Fe. NM 87505 within 15 days of the notice. Published in the Artesia. Daily Press, Artesia, N.M. October 27, 2002. Legal 17889 Legal 17889

CERTIFIED MAIL

J. Bar Cane P.O. Box 316 Stanley, NM 87056-0316

Yates Petroleum 105 S. 4th Artesia, NM 88210

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Yates Drilling 105 S/ 4th Artesia, NM 88210

Marbob P.O. Box 227 Artesia, NM 88210

Capstone Box 10187 Midland, Tx. 79702 7000 0600 0024 2324 1711

7000 0600 0024 2324 1728

7000 0600 0024 2324 1735

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