

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

12/10/99

GOVERNOR

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

OIL CO	DNSEF	RVAT	ION DIV	ISION
P. O.	вох	2088	3	
SANTA	FE,	NEW	MEXICO	87501

RE: Proposed:

MC		
DHC		
NSL		
NSP		
SWD		
WFX		
РМХ	V	

Gentlemen:

I have examined the application for the:

Lease & Well No. Unit S-T-R 3D-025.25954

and my recommendations are as follows: $\mathcal{O}\mathcal{K}$

Yours very truly,

Withere

Chris Williams Supervisor, District 1

/ed



COPY

December 3, 1999

State of New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

RE: Expansion of Pressure Maintenance Project North Hobbs (Grayburg/San Andres) Unit Hobbs; Grayburg – San Andres Pool Well No. 332 Letter J, Section 30, T-18-S, R-38-E Lea County, NM

Gentlemen:

Altura Energy LTD respectfully requests administrative approval for expansion of the subject pressure maintenance project by converting North Hobbs (G/SA) Unit Well No. 332 from production to water injection. Administrative Order No. R-6199 granted November 30, 1979, authorized Shell Western E&P Inc. (Altura's predecessor) to conduct the North Hobbs (G/SA) Unit pressure maintenance project within the Hobbs; Grayburg – San Andres Pool.

The following data is submitted in support of this request:

- Form C-108 with miscellaneous data attached
- Form C-102
- A map reflecting the location of the proposed injection well (No. 332). The map identifies all wells located within a two-mile radius of the proposed injector and has a one-half mile radius circle drawn around the proposed injection well which identifies the well's Area of Review.
- An injection well data sheet
- A tabulation of data on all wells of public record within the well's Area of Review
- Schematics of plugged wells that are within the well's Area of Review
- A list of Offset Operators and Surface Owners (these parties have been notified of this application by certified mail)



• An Affidavit of Publication and copy of the legal advertisement that was published in the county in which the well is located.

Your favorable consideration of our request will be appreciated. If you have any questions of a technical nature, please call David Nelson at (505) 397-82ll. Otherwise, please call me at (281) 552-1158.

Very truly yours,

Mark Stephen

Mark Stephens Business Analyst (SG)

CC: Oil Conservation Division Hobbs District Office P.O. Box 1980 Hobbs, NM 88241

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

Bureau of Land Management Roswell District Office 2909 West Second Street Roswell, NM 88201

Offset Operators (see attached list)

Surface Owners (see attached list)

NERGY, MINERALS AND NATURAL ESOURCES DEPARTMENT

2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

APPLICATION FOR AUTHORIZATION TO INJECT

		Secondary RecoveryXPressure Maintenance administrative approval?X_YesNo	DisposalStorage
I.	OPERATOR:	Altura Energy LTD	
	ADDRESS:	P.O. Box 4294, Houston, TX 77210-4294	
	CONTACT PARTY:	Mark Stephens, Rm. 338-B, WL2	PHONE: (281) 552-1158
II.	WELL DATA: Complete	e the data required on the reverse side of this form for each well prop	oosed for injection.

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.

- V. Is this an expansion of an existing project? X Yes No If yes, give the Division order number authorizing the project: R-6199 (11/30/79)
- 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:	Mark Stephens	TITLE: Business	s Analyst (SG)
SIGNATURE:	Mark Stephen	DATE:	12/3/99

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: <u>Hearing October 3, 1979; Case No. 6653</u>, Order No. R-6199

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

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 tabu ar 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 inclucing 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 purplies. 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 init al 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 owne 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, 2040 Sout Pacheco, 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 cays from the date this application was mailed to them.

Attachment To Form C-108 Miscellaneous Data

North Hobbs (Grayburg/San Andres) Unit Well No. 332 Letter J, Section 30, T-18-S, R-38-E Lea County, New Mexico

III. Well Data

B.(5) Next higher oil zone -- Grayburg @ +/- 3700' Next lower oil zone -- Glorieta @ +/- 5300'

VII. Proposed Operation

- 1. Average Injection Rate1500 BWPDMaximum Injection Rate4000 BWPD
- 2. Closed Injection System
- 3. Average Injection Pressure500 PSIGMaximum Injection Pressure805 PSIG (approx.)(will not exceed 0.2 psi/ft. to top perforation)
- 4. Source Water San Andres Produced Water (Champion Technologies, Inc. analysis attached)

IX. Stimulation Program

Acid treatment of unitized perforations will be performed during conversion work

- XI. Fresh Water Sample Analysis (Laboratory Services, Inc. analysis attached – 4 ea.)
- XII. Altura Energy LTD affirms that available geologic and engineering data has been examined resulting in the finding of no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II P.O. Drawer DD. Artesia, NN 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV F.O. BOX 2088, SANTA FE, N.M. 87504-2088 State of New Mexico

Energy Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa %e. New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API_Number	Pool Code	Pool Na	
30-025-28954	31920	HOBBS: GRAMBURG -	
Property Code		operty Name	Kell Number
19520		BBS G/SA UN	3352
ogrid no. 157984		erator Name ENERGY (TD)	Elevation

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	30	18 S	38 E		2457	SOL "H	1598	EAST	. EA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
						1			
	L.,	l		·				•	
Dedicated Acre	s Jointo	r Infil: Co	nsolidation (Code Or	der No.				
	l.								

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		OPERATOR CERTIFICATION
		i hereby certify the the information
1		contained herein is true and complete to the
		best of my knowledge and belief.
		Mark Stephens
37.81 ACRES		Signature /
LOT 2		Mark Stephens
		Printed Name
		Business Analyst (SG)
	SPC NVE NAD 27	Title
	×=626538	December 3, 1999
	x=853506	Date
		SURVEYOR CERTIFICATION
37.85 ACRES		SURVEYOR CERTIFICATION
LOT 3	WELL #332 0	I hereby certify that the well location shown
		on this plat was plotted from field notes of
		actual surveys made by me or under my
		supervison, and that the same is true and correct to the best of my belief.
		, , ,
		JULY 20, 1999
		Date Survey ed multin DMCC
37.87 ACRES		Signature & Seat O O
LOT 4	24.57+	Processional Surveyoo
4		A A A A A A A A A A A A A A A A A A A
		Kong (3219 2) 10 7-27-99
		BRINNING BUILDEN 1-21-44
14 i		
		Centricate No. 32Noth F EIDSON 3239
		Centre ate, No. 301410 F EIDSON 3239 12641 North Corresson 12641 100 PROFESSION CONALD 12185

Well No.	rgy LTD.	_{Lease} North Hob	bs G/SA Unit		County Lea	
30-332	Footage Location 2470 FSL & 1600 FEL	Section 30	Township 18-S	Range 38-E		Letter
13-3/8" @ 40'	Schematic	<u>Surface Casi</u> Size <u>13-</u> TOC Hole size	Tut ng 3/8 Cen	oular Data nented with ermined by		SXS
9-5/8" @ 1503'		Intermediate Size <u>9-5,</u> TOC <u>Sur</u> Hole size	/8 Cem	ented with rmined by	650 Circ	sxs 2
		Long string C Size 7" TOC Sur Hole size	Cem	ented with rmined by	800 Circ.	sxs
		Total depth	4371'			
		Injection inter 400		435	50 fee	et
7" @ 4371"		<u>Completion ty</u>	<u>pe</u> Perforat	ions		
ubing size	2-7/8" lined with	Fiberglass	Epoxy		set in	а
		packer at	±3950	feet		-
Giberson U	(brand and model)			_ ///		
Giberson U Other Data		_				
<u>Dther Data</u> . Name of the	(brand and model)	dres				
Other Data . Name of the 2. Name of fiel 5. Is this a new	(brand and model)	dres Grayburg/Sar _{Yes}	Andres) Pool			
<u>Dther Data</u> . Name of the 2. Name of fiel 3. Is this a new If no, for 4. Has the well	(brand and model) e injection formation <u>San And</u> Id or Pool <u>Hobbs (</u>	dres Grayburg/Sar Yes drilled? <u>S</u> one(s)? List all)	Andres) Pool	No	give plugging	

4.1

LIST OF OFFSET OPERATORS & SURFACE OWNERS

North Hobbs (Grayburg/San Andres) Unit Well No. 332 Letter J, Section 30, T-18-S, R-38-E Lea County, New Mexico

Offset Operators

Altura Energy LTD P.O. Box 4294 Houston, TX 77210-4294

Exxon Company, U.S.A. Attn: Joint Interest Operations P.O. Box 4707 Houston, TX 77210-4707

Getty Oil Company P.O. Box 797035 Dallas, TX 75379-7035

Charles E. Seed Houston Ranch Lovington Hwy. Hobbs, NM 88240

Saga Petroleum LLC 415 W. Wall, Suite 835 Midland, TX 79701

Surface Owners

Grimes Land Co. P.O. Box 5102 Hobbs, NM 88241