

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

GOVERNOR

11/16/99

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

PMX-199

OIL CONSERVATION DIVISION	
P. O. BOX 2088 SANTA FE, NEW MEXICO 87501	
SANTA TE, NEW PIEXTOO 07301	
RE: Proposed:	
MC DHC	
NSL	
NSP	
SWDWFX	
PMX X	
/	
Gentlemen:	
I have examined the application for the:	
DI Engra, Ind W Hobbe GB/SA Unit 342-19-24-18-5	37
Altura Energy Ltd W Hobbs GB/SA Unit 342-0-24-18- Operator Lease & Well No. Unit S-T-R 30-025-2908	ς
7.5	
and my recommendations are as follows:	
OK-	
Yours very truly,	

Chris Williams

Supervisor, District 1





November 10, 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. 342 Letter O, Section 24, T-18-S, R-37-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. 342 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. 342). 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
- 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 Stephens

Business Analyst (SG)

Mark Stephens

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

Offset Operators (see attached list)

Surface Owners (see attached list)

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESCURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 SOUTH PACHECO 3ANTA FE, NEW MEXICO 87505

FORM C-108 Revised 4-1-98

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery X Pressure Maintenance Disposal Storage Application qualifies for administrative approval? X Yes No
II.	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
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? 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:
	 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.
	NAME:Mark StephensTITLE:Business Analyst (SG)
	SIGNATURE: Mark Skyliers DATE: 11/10/99
*	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: Hearing October 3, 1979; Case No. 6653, Order No. R-6199

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, 2040 South 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 days from the date this application was mailed to them.

Attachment To Form C-108 Miscellaneous Data

North Hobbs (Grayburg/San Andres) Unit Well No. 342 Letter O, Section 24, T-18-S, R-37-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 Rate 1500 BWPD Maximum Injection Rate 4000 BWPD
 - 2. Closed Injection System
 - 3. Average Injection Pressure 500 PSIG

 Maximum Injection Pressure 805 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 2 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 68241-1980

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

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

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

DISTRICT IV P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 31920		Pool Name RAYBURG — SAN ANDRES	
30-025-29062 Property Code 19520	Pr	operty Name DBBS G/SA UNIT	Well Number 342	
OGRID No. 157984	o _i altura	Elevation 3667		

Surface Location

					Surface roce	CLOIL			
						North/South line	Feet from the	East/West line	County
UL or lot No.		Township	Range	Lot ldn	Feet from the	SOUTH	1432	EAST	LEA
0	24	18 S		l	IC DICC	t From Sur	face		

Bottom Hole Location If Different From Surface

			Bottom	Hole Loc		erent from Sur		East/West line	County
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	reet Hota die		
	,						<u></u>		L
Dedicated Acres	Joint o	r Infill Co	nsolidation	Code Or	der No.				
					20MDI ETION	UNTH ALL INTE	RESTS HAVE B	EEN CONSOLID	ATED

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

NO MEDO	OR A NON-STAND	ARD UNIT HAS BEEN	AFTROVED DT THE	
				OPERATOR CERTIFICATION
				I hereby certify the the information contained herein is true and complete to the
				best of my knowledge and belief.
				110.115101
				Mark Skephens Signature
				Mark Stephens Printed Name
				Business Analyst (SG)
		1		November 10, 1999
				Date
				SURVEYOR CERTIFICATION
				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.
	1	1		JULY 20, 1999
				Date Surveyed DMCC Signature & Bed E/O Stilling Professional Surveyor Solvey
		SPC NME NAD 27		Profesional Surveyor O
	1	Y=629683 X=848419		Amila (2 to 2 27-49
		38,		7 69-11-05912
		WELL #342	1432'	Certificate No. RONALD 12550N 3239 1264.
		WEEE #517 O.		The state of the s

INJECTION WELL DATA SHEET

perator	LTD	Lease North Hob	bs G/SA Unit		County Lea
Altura Energy Vell No. F 24-342	Footage Location	Section 24	Township 18-S	Range 37-E	Unit Letter O
3-3/8"	Schematic	Surface Cas Size 13 TOC Hole size	<u>ing</u> -3/8 Ce	ubular Data mented with termined by	sxs.
9 40' 9-5/8"		Intermediate	5/8 Ce	emented with	600 sxs.
னு 1531'		Long string Size 7"	Ce	emented with etermined by	850 sxs. Circ.
		Total depth	4402'		
		Injection in		et to43	50 feet
7"		Completion	ntype Perfo	rations	_
⊕ 4371" Tubing size	2-7/8" lined v	_{with} Fibergla	ss Epoxy		set in a
Giberson Ur	ni VI (brand and model)	packer	at <u>±3950</u>	feet	
Other Data	(brand and modes)				
		an Andres			
2. Name of fie	ld or Pool Ho	obbs (Grayburg			
3. Is this a new If no, for	wwell drilled for injection? what purpose was the will ori	ginally drilled?	Yes San Andre		
4 II - Alba Ma	ll ever been perforated in any acks of cement or bridge plug		st all such perfora	ated intervals a	and give plugging
4. Has the we detail (sa None			_		

LIST OF OFFSET OPERATORS & SURFACE OWNERS

North Hobbs (Grayburg/San Andres) Unit Well No. 342 Letter O, Section 24, T-18-S, R-37-E Lea County, New Mexico

Offset Operators

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

Surface Owners

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

Sally Huston Seed (State of New Mexico Agricultural Lease GT-766) 4721 Lovington Hwy Hobbs, NM 88240