

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

GOVERNOR

11/23/99

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

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501	PMX-201	
RE: Proposed: MC DHC NSL NSP SWD WFX PMX		
Gentlemen:		
I have examined the applica Alara Energy Ltd Operator	N. Hobbs 68 SA Unit 241-N-29.18. Lease & Well No. Unit S-T-R 30-025-074	s . 386 37
OK.	·	
Yours very truly, Mus Williams Chais Williams		

Supervisor, District 1





November 18, 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. 241 Letter N, Section 29, 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. 241 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. 241). 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 Stephens

Business Analyst (SG)

Mark Skpliers

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)

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

Revised 4-1-98

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE:Application qualifie	Secondary Recovery es for administrative approval?	X X	_Pressure Maintenance Yes	Disp	osal		Storage
II.	OPERATOR:	Altura Energy LTD						
	ADDRESS:	P.O. Box 4294, Hou	ston,	TX 77210-4294				 ,
	CONTACT PART	Y: Mark Stephens, Rm.	338-	B, WL2	PHO	ONE: _	(281)	552-1158
III.		mplete the data required on the rever ditional sheets may be attached if ne			ell proposed for in	jection	ı .	
IV.	Is this an expansion If yes, give the Div	n of an existing project? X ision order number authorizing the p	Yes	No R-6199 (11/3	0/79)	············		
V.		dentifies all wells and leases within proposed injection well. This circle				ne-hal	f mile rad	ius circle
VI.	Such data shall inc	of data on all wells of public record lude a description of each well's type lugged well illustrating all plugging	e, cons					
VII.	Attach data on the	proposed operation, including:						
*VIII.	 Whether the sy Proposed avera Sources and an produced wate If injection is for chemical analy wells, etc.). Attach appropriate depth. Give the get total dissolved sol 	or disposal purposes into a zone not rsis of the disposal zone formation we geologic data on the injection zone cologic name, and depth to bottom or ids concentrations of 10,000 mg/l or	; id and product vater (r include f all un less)	compatibility with the rective of oil or gas at or we hay be measured or inferting appropriate lithological derground sources of dr.	ithin one mile of t red from existing ic detail, geologic inking water (aqui	he prop literatu name, fers co	posed wel are, studies thickness, ntaining v	l, attach a s, nearby and vaters with
IX.		ediately underlying the injection into osed stimulation program, if any.	a vai.					
*X.	_	logging and test data on the well. (If well	logs have been filed wit	h the Division, the	y need	l not be re	submitted).
*XI.		analysis of fresh water from two or i			able and producing	g) with	in one mi	le of any
XII.		posal wells must make an affirmative vidence of open faults or any other lag water.						
XIII.	Applicants must c	omplete the "Proof of Notice" section	n on th	ne reverse side of this for	·m.			
XIV.	and belief.	reby certify that the information sub					_	
	NAME:	Mark Stephens		TIT	LE: Busines	ss An	alyst	(SG)
	SIGNATURE: _	Mark Stephens Mark Stephens			DATE:	11	/18/99	
*	If the information	required under Sections VI, VIII, X, ate and circumstances of the earlier s	and X	I above has been previous	usly submitted, it i	need no	ot be resul	mitted.

Order No. R-6199

Attachment To Form C-108 Miscellaneous Data

North Hobbs (Grayburg/San Andres) Unit Well No. 241 Letter N, Section 29, 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

- Average Injection Rate
 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 88241-1980

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 IV

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

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	nber Pool Code Pool Name		
30-025-07437	31920	HOBBS; GRAYBURG — SAN A	ANDRES
Property Code	Pro	Well Number	
19520	NORTH HO	241	
ogrid no.	-	erator Name	Elevation
157984		ENERGY LTD.	3644

Surface Location

Ul. or lot	No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N		29	18 S	38 E		348	SOUTH	2307	WEST	LEA

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
Dedicated Acres	Joint o	r Infill Con	nsolidation	Code Ore	der No.			<u> </u>	

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 contained herein is true and complete to the best of my knowledge and belief.
		Mark Skolens Signature
		Mark Stephens
		Printed Name
		Business Analyst (SG)
		November 18, 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.
		JULY 20, 1999
		Date Surveyed"""" Signatura & Seat Of "" Preference Surveyed" MEX. 19
WELL #241	SPC NME NAD 27 Y=624675 X=857439	1 000 1 00 1 00 1 00 1 00 1 00 1 00 1
2307'		Cemption No. ROMAL DETOSON 3239 1264; POFES SALOW McDONALD 12:85

INJECTION WELL DATA SHEET

Operator Altura Energy LTD.		Lease North Hobbs	G/SA Linit	<u> </u>	County Lea		
Weil No. 29-241	Footage Location 330 FSL & 2310 FWL	Section 29	Township 18-S	Range 38-E	Unit Letter		
12-1/2" @ 217'	Schematic	Surface Casing Size 12-1/ TOC Surf Hole size Intermediate Casize 9-5/8 TOC 1355 Hole size Long string Casize 7	2" Ce De asing Ce 11-3/4	emented with etermined by emented with etermined by emented by emented by emented with	160 sxs. Circ. 500 sxs. Calc. w/ 50% Efficiency 300 sxs.		
9-5/8" @2730'		TOC 1850 Hole size	De	etermined by	CBL		
7" @3929'	Final wellbo 100 feet and ru (See dashed lin	Total depth Injection interva 4000 Completion type ore status will but a 5-1/2 liner	Performent to deeperdown to T	ations on this well a	approximately		
Tubing size	2-7/8" lined with	Fiberglass E	роху		set in a		
Giberson U		packer at	±3950	feet			
(brand and model) Other Data 1. Name of the injection formation San Andres							
2. Name of field or Pool Hobbs (Grayburg/San Andres) Pool							
3. Is this a new well drilled for injection? If no, for what purpose was the will originally drilled? Yes San Andres producer							
Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) None							
5. Give the depth to and name of any overlying and/or underlying oil and gas zones (pools) in this area. Grayburg – 3700, Glorieta - 5300							

LIST OF OFFSET OPERATORS & SURFACE OWNERS

North Hobbs (Grayburg/San Andres) Unit Well No. 241 Letter N, Section 29, 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

Chevron Production Co. NOJV Mgr. P.O. Box 1635 Houston, TX 77251

Conoco Inc. 10 Desta Dr. West Midland, TX 79705

Amerada Hess Corporation P.O. Box 2040 Houston, TX 77252-2040

Surface Owners

Gary L. Jones & Donna Jones P.O. Box 1786 Hobbs, NM 88241