

580 WestLake Park Blvd. Houston, TX 77079 PO Box 4294 Houston, TX 77210-4294 Phone: 281-552-1000

July 10, 2000

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

JUL 13

RE: Expansion of Pressure Maintenance Project South Hobbs (GSA) Unit Hobbs; Grayburg – San Andres Pool Well No. 239 Letter I, Section 5, T-19-S, R-38-E Lea County, NM

Gentlemen:

Occidental Permian Limited Partnership respectfully requests administrative approval for expansion of the subject pressure maintenance project by the drilling and completion of the subject well as a new water injection well. Administrative Order No. R-4934 authorized Amoco Production Company (Occidental Permian Limited Partnership's predecessor) to conduct the South Hobbs (GSA) 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 (along with a copy of OCD-approved Form C-101)
- A map reflecting the location of the proposed injection well (No. 239). 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



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- Schematics of plugged 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) 397-8211. Otherwise, please call me at (281) 552-1158.

Very truly yours,

Mark Stephers

Mark Stephens Business Analyst (SG)

CC: Oil Conservation Division Hobbs District Office 1625 N. French Drive Hobbs, NM 88240

> 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 RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA 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: Occidental Permian Limited Partnership
	ADDRESS: P.O. Box 4294, Houston, TX 77210-4294
	CONTACT PARTY:Mark Stephens, Rm. 338-B, WL2PHONE: (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? Yes No If yes, give the Division order number authorizing the project: R-4934
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 Stephens TITLE: Business Analyst (SG)
	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, 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

South Hobbs (G/SA) Unit Well No. 239 Letter I, Section 5, T-19-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 Rate 2000 BWPD Maximum Injection Rate 4000 BWPD
 - 2. Closed Injection System
 - 3. Average Injection Pressure 800 PSIG

 Maximum Injection Pressure 818 PSIG (approx.)

 (will not exceed 0.2 psi/ft. to top perforation)
 - 4. Source Water San Andres Produced Water (Mitchell Analytical Laboratory analysis attached)
- IX. Stimulation Program

Acid treatment of unitized perforations will be performed during completion work

- XI. Fresh Water Sample Analysis
 (Laboratory Services, Inc. analysis attached 2 ea.)
- XII. Occidental Permian Limited Partnership 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.

MITCHELL ANALYTICAL LABORATORY

Odessa, Texas 79765-8538 561-5579

Water Analysis

Company Nalco/Exxon Well # WIS DISCHARG Lease ALTURA NHU Location Date Run 11/08/1999 Lab Ref # 99-NOV-N0512	SE PUMP	emicals	Sample Temp Date Sampled Sampled by Employee # Analyzed by	11/05/1999 Mike Athey 27-008	
;	Di	ssolved Gasses	5		
Hydrogen Sulfide Carbon Dioxide Dissovled Oxygen	(H2S) (CO2) (O2)	Not Analyzed Not Analyzed	Mg/L 486.00	Eq. Wt. 16.00	MEq/L 30.38
		Cations			
Calcium Magnesium Sodium Barium Manganese	(Ca++) (Mg++) (Na+) (Ba++) (Mn++)	Not Analyzed Not Analyzed	804.00 195.20 3,459.66	12.20	40.00 16.00 150.42
		Anions			
Hydroxyl Carbonate Bicarbonate Sulfate Chloride	(OH-) (CO3=) (HCO3-) (SO4=) (C1-)	Not Analyzed	0.00 1,869.66 1,700.00 5,005.50	61.10 48.80	0.00 30.60 34.84 141.00
Total Iron Total Dissolved Sol Total Hardness As (Conductivity MICRON	CaCO3		0.30 13,520.32 2,810.32 23,500	18.60	0.02
рН 6.500	Sp	ecific Gravity	7 60/60 F.	1.009	
CaSO4 Solubility @	80 F.	46.63 MEq/L,	CaSO4 scale	is unlikely	
CaCO3 Scale Index 70.0 0.190 80.0 0.310 90.0 0.530 100.0 0.790 120.0 0.790 130.0 1.090 140.0 1.090 150.0 1.370					

Nalco/Exxon Energy Chemicals

S S

Laboratory Services, Inc.

4016 Fiesta Drive Hobbs, New Mexico 88240 Telephone: (505) 397-3713

Water Analysis

COMPANY	Altura Energy Ltd,
SAMPLE	Fresh Water Well for Well SHU # 239
SAMPLED BY	riesh water well for well Sno # 237
	:
DATE TAKEN	6/19/00
REMARKS	T19S-R38E-Sec5; Qtr Sec 2,4,3
Barium as Ba	0
Carbonate alkalir	
Bicarbonate alka	linity PPM 208
pH at Lab	7.41
Specific Gravity	
Magnesium as M	
Total Hardness a	332
Chlorides as Cl	113
Sulfate as SO4 Iron as Fe	155
Potassium	0.1
Hydrogen Sulfide	0.1
Rw	
Total Dissolved S	12 @ 24 ° C
Calcium as Ca	900 139
Nitrate	11
Results reported as I	Parts per Million unless stated
Langelier Satura	tion Index -0.21

Analysis by: Vickie Walker
Date: 6/20/00

S S

Laboratory Services, Inc.

4016 Fiesta Drive Hobbs, New Mexico 88240 Telephone: (505) 397-3713

Water Analysis

COMPANY Altura Ener	gy Ltd,
SAMPLED BY	Well for Well SHU #239
DATE TAKEN 6/19/00 REMARKS T19S-R38E-S	Sec5; Qtr Sec 2,3,4
Barium as Ba	0
Carbonate alkalinity PPM	24
Bicarbonate alkalinity PPM	240
pH at Lab	7.27
Specific Gravity @ 60°F	1
Magnesium as Mg	311
Total Hardness as CaCO3	536
Chlorides as Cl	254
Sulfate as SO4	375
Iron as Fe	0.4
Potassium	0.2
Hydrogen Sulfide	0
Rw	9.5 @ 24° C
Total Dissolved Solids	1,460
Calcium as Ca	225
Nitrate	15.4
Results reported as Parts per Million un	<u>lless stated</u>
Langelier Saturation Index	-0.13
	Analysis by: Vickie Walker

Date:

6/20/00

P.O. Box 1980, Mobbs, NM 88241-1980

State of New Mexico Reggy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office

State Lease — 4 Copies Foe Lease — 3 Copies

DISTRICT II P.O. Brawer DD, Artenia, HM 88211-0718

DISTRICT III 1000 Rio Brazos Rd., Axteo, NM 87410 OIL CONSERVATION DIVISION
P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

DISTRICT IV P.O. BOX 2008, SANTA FE, N.M. 87504-2008

API Number	Pool Code	Pool Name	
30-025-34946	31920	Hobbs; Grayburg -	San Andres
Property Code	-	ly Name	Well Number
19552	SOUTH HO	OBBS (GSA) Unit	239
OGRID No.	Operate	or Name	Elevation
157984	Occidental Permian	Limited Partnership	3609

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wost line	County
	5	19 S	38 E		1984	SOUTH	370	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Townshi	p Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint of	r Infill	Consolidation	Code Or	der No.				
40]		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 immediate and belief.
		SPC NME NAD 1927 Y=615785 X=860160	Mark Stephens Printed Name Business Analyst (SG) Title July 10, 2000 Date SURVEYOR CERTIFICATION
	3610.2' 3609.1' O	SEE DETAIL 370°	I hereby certify that the well location shown on this plat was platted 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. JANUARY 7, 2000 Date Surveyed LMP Signature & Seal of Professional Surveyor AMALO J. EDSON 3239 GARY EDSON 12641 MACON McDONALD 12185

District ! PO Box 1980, Hobbs, NM 88241-1980 811 S. 1st Street, Artesia, NM 88210-2834 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

2040 South Pacheco, Santa Fe, NM 87505

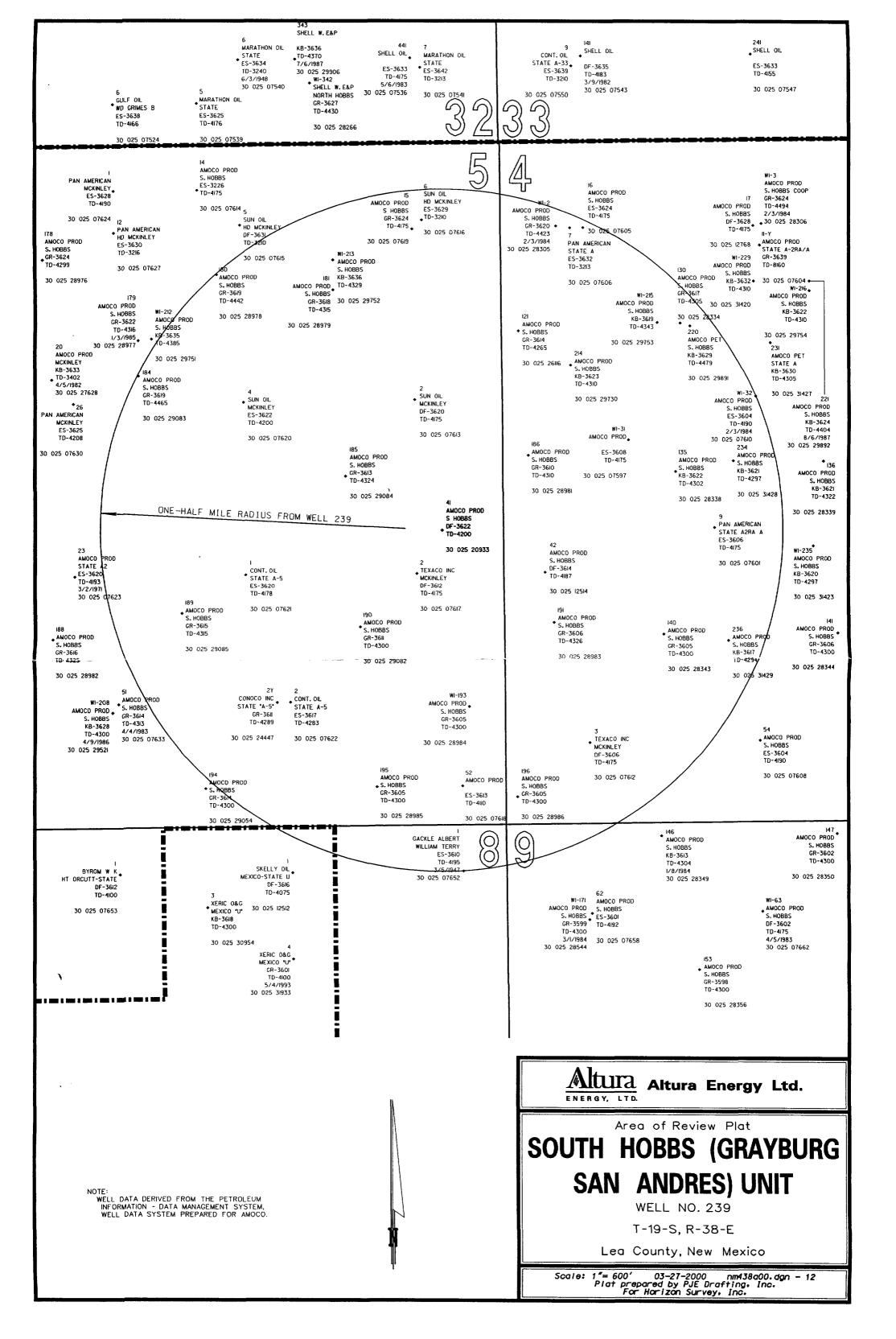
State of them breaken ergy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-101 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

AMENDED REPORT

APPLIC	CATION	FOR	PERMIT T	O DRII	LL, RE-EI	NTE	R, DE	EPEN,	PLUGBACI	K, OR A	DD A ZONE
		ı C	perator name and	Address						2	OGRID Number
Altura Ener	ngy L/TD									ļ	157984
P.O. Book 42	294										3 API Number
Houston, T	K 77210-	-4294								30-0	25-34946
4 Prop	perty Code				5	Propert	y Name				6 Well No.
1	L9552	:	<u> </u>		South			Unit			239
					⁷ Surface I		ion				<u> </u>
UL or lot no.	Section	Townshi	p Range	Lot. Idn	Feet from t	the	North/So	outh Line	Feet from the	East/West	ine County
I	5	19-		<u></u>	1984			outh	370	East	Lea
			⁸ Proposed	Bottom F	Iole Locati	on If	Differ	ent Fron	n Surface		
UL or lot no.	Section	Townshi	p Range	Lot. Idn	Feet from	the	North/S	outh Line	Feet from the	East/West	line County
		9 Propose	ed Pool 1			{			10 Proposed Po	ool 2	
_	Hobbs;	Graybu	rg - San An	ires		<u> </u>					
0 W. t. r.	Co do		12 Well Tome C	nda I	13 Cable/	(D = 4 = m)		747	T O- 1-	1 150	und Level Elevation
11 Work Ty	ype Code		12 Well Type C	ode	13 Cable	Rotary	•	i i Lea	se Type Code	13 Gro	und Level Elevation
	N		I			R			P		3609
16 Mul	tiple	1	17 Proposed De	pth	18 Form	nation		19 (Contractor	2	O Spud Date
1	No	1	4500′		San A	ndres	;	K∈	y Energy) ,	April, 2000
				²¹ Propos	sed Casing	and (Cemen	t Progra	m		
Hole Si	ze		asing Size		weight/foot	т —	Setting De		Sacks of Cemer	nt	Estimated TOC
18	-		14		auctor		40		50		Surface
											- Date Lace
12-1/	/4		8-5/8		24		1650		775		Surface
7-7/	8	<u> </u>	5-1/2	1	5.5		4500	1	750		Surface
						give the	data on t	he present	productive zone and	d proposed n	ew productive zone.
Describe the blow	out preventi	on progran	i, if any. Use add	inonai sneet	s if necessary						
				•							
											'
No chanc	me in on	posed o	drilling pro	ocaram -	change is	s to 1	wall ny	o, only.			
	J			J							
²³ I hereby certify	that the info	rmation give	ven above is true	and complete	e to the best						
of my knowledge			von accordicate			1			ONSERVATI		
Signature:	1101	K Stei	dese			Appro	ved by:	iAVIIĐIP K IO	- SIGNED BY (STRICT I SUP	JHHIS WI ERVISOR	
Printed name:		, 		F0 4455		Title:					
Title	Mark Ste		<u> </u>	52-1158		 	Marc Pare	0720	K T.	nimtion Dév	4);
1106.	Business	Analys	t (SG)			Lybbid	1914/416	· · · · · · · · · · · · · · · · · · ·	10) LE)	cpiration Day	the vir Land



INJECTION WELL DATA SHEET

Operator		ental F			Lease		2/24 / /	**	υ οι	
		ed Part	ners	urb	Soutr	Hobbs (3/SA U	nit	Le	a
Well No.		age Location FSL X		זטעו	Section 5	1	Township			Unit Letter
239	1904	FOL X	373	FEL	<u> </u>		<u>19-S</u>	38-E		<u> </u>
		Schematic 			Surfac Size TOC Hole si	e Casing 14" SURF		Tubular Data Cemented with Determined by	50 Circ.	\$x\$.
14"	'		_			-				
@40'						ediate Cas 8-5/8''	ing		750	
@ 10			1		Size			Cemented with		sxs.
					TOC	SURF		Determined by	Circ.	
					Hole si	ze _				
					Long s	tring Casir	<u>ng</u>			
8-5/8"					Size	5-1/2"		Cemented with	1000	sxs.
@1580'		1			TOC	SURF		Determined by	Circ.	
	Ì				Hole si	ze				
5-1/2"					<u>Liner</u>					
@4499'					Size			Cemented with		sxs.
		_	_		TOC			Determined by		
					Hole si	70		Determined by		
					Total o	,	44 99'			
					<u>Injectio</u>	on interval 4100		feet to 430	00	feet
					Comp	etion type	_ <u>P</u>	erforated Casir	ng	
Tubing size	_2-7	7/8"	_ lii	ned with	Duoli	ne (Fiber	glass lin	er)		set in a
Guibersor	n – Uni \	/I			nac	ker at	4000'	feet		
		nd and mode	1)		pac	. Ker at				
Other Data										
1. Name of t	he injectio	n formation	-	San Andr	es					
2. Name of f	ield or Poc	ol	-	Hobbs_					_	
		illed for inject rpose was th		ginally drilled	?	Yes		No		·····
		en perforated	•	other zone(s)'	? List a		orated inte	ervals and give plug	gging	
5. Give the	depth to an	d name of a	ny overly	ing and/or un	derlying	oil and gas	zones (po	ols) in this area.		
Gray	burg – 3	270, Glori	ieta - 5	300						

INJECTION WELL DATA SHEET

Operator	Occidental Permian	Lease	County
	Limited Partnership	South Hobbs G/SA Unit	Lea
Well No. 239	Footage Location 1984' FSL x 370' FEL	Section Township Rang 5 19-S 38-E	
	Schematic	Surface Casing Size 14'' Cemented with TOC SURF Determined by	50 sxs.
14" @40'		Intermediate Casing Size 8-5/8" Cemented with TOC SURF Determined by	0:
8-5/8" @1580'		Hole size Long string Casing Size 5-1/2" Cemented with TOC SURF Determined by	O:
5-1/2'' @4499'		Liner Size Cemented with	
		Total depth 4499' Injection interval 4100 feet to	1 300 feet
		Completion type Perforated Ca	
Tubing size	2-7/8" lined with	Duoline (Fiberglass liner)	set in a
Guiberso	n — Uni VI (brand and model)	packer at 4000' feet	
Other Data	the injection formation San	Andres	
2. Name of			
	new well drilled for injection? For what purpose was the will originally	Yes No drilled?	
	vell ever been perforated in any other zo (sacks of cement or bridge plug(s) used		olugging
5. Give the	depth to and name of any overlying and	or underlying oil and gas zones (pools) in this area.	
Gray	burg – 3270, Glorieta - 5300		

FOR WELL SHU 239	IU 239																
Well Name	API No.	2	Sec.	-	œ	'n	Drill	Well	TD or	Top	Bot.	Sqz.	Csg	Hole		No. of	
Operator						÷	Date	Type PBTD	PBTD	Perf	Perf	Perfs	Size	Size	Depth	Sxs.	TOC
SHU 2	30-025-	28305	4	-19S	-38E	ш	1	م	4299	4084	4218	4050-4064	16	50	232	100	CIRC
Altura									PBTD				10.75	13.5	2776	400	1985**
													8.625	12.25	3975	150	CIRC
													5.5	7.875	3919-4220	188	3000
SHI 15	30-025-	07619	7.	195	-38F	⋖	8//30	۵	4212	2750	4175	3982-3990	13.375	18	192	150	CIRC**
OH: I'm	22000	5)	2				1	PRTD			4030-4044	9 625	12.25	2746	300	2221**
													7	8.875	3984	225	3011**
													5.5	6.5	4175	20	3700-TS
		1															
SHU 16	30-025-	0200	4	-19S	-38E	Ω	8//30	Д	4205	4102	4198	3890-3978	16	20	251	135	36**
Altura									PBTD			4053-4085	9.625	12.25	2798	700	CIRC**
													6.625	8.875	3976	200	CIRC
													5	6.5	3886-4198	75	CIRC**
														- 1			
SHU 29	30-025-	07620	5	-19S	-38E	ഗ	12//30	_	4220	4053	4190	160-350	13		175	175	CIRC
Altura													9.625		2744	200	953**
													7	8.75	3932	230	2867**
												4000	5.5	6.25	4200	20	3391**
												4084-4198					
SHU 30	30-025-	07613	5	-19S	-38E	I	10//30	_	4230	4059	4172	165	13	5	192	150	CIRC
Altura												4044-4054	9.625	12.25	2750	200	CIRC
												4150	7	8.75	3950	215	3092**
													5.5	6.25	4169	20	2900-TS
70	000	07507	*	007	000	L	07//30	-	0307	4005	7007	3400	12	17	259	106	**CBC
Altina	-020-06	180.00	r	200		ן		-	PRTD		1771	3975-3998	9 625	12.25	2785	300	2280**
					! -							4022-4092	6.625	8.75	3993	135	3591**
		 											5	6.25	3949-4217	75	2503**
						ı	001.0	-		0,		0070	1		C	c	*
SHU 32	30-025-	0/610	4	-19S	-38E	_	8//30	-	4224	40/8	4198	3100	2 6	C 0	253	0 0) LEC
Altura		- -			-!				2 2				9.623	0.75	3007	300	352/4*
					Ţ								0.0		3036.4109	3 2	CIRC**
														2	0000		

Well Name	API	API No.	Sec.	-	æ	'n	Drill	Well	TD or	Top	Bot.	Sqz.	Csg.	Hole		No. of	
Operator						רָּדָּ	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	Sxs	T0C
SHU 42	30-025-	12514	4	-198	-38E		9//30		4224	3986	4214	2450	12.5	13.75	164	175	CIRC*
Altura									PBTD			2700-2701	8.25	9.625	2750	009	CIRC**
													6.625	7.875	3960	200	1932**
													4.5	5.625	3845-4224	75	CIRC**
70	30 005	07804	~	100	38	۲	08//8		7100	4070	4108	3078 4040	7.0	15.5	250	150	***************************************
Altura	-070-00	8			1	-	5	-	PBTD	2	2		9.625	12.25	2779	300	CIRC
													6.625	7.875	3988	200	2988-CBL
													4.5	6.25	3914-4214	85	CIRC**
	000	01010	L	0	٢	C	4	F	2,7	000	0007	3000	40 075	4 F F	030	200	**
20 DH8	30-023-	0/0/0	D	200		L	٤	2	4240 0T00	5	4230	3900-3960	2.5.7	7 275	4100	150	3550**
Airai a									2			4070 4078	2000	175	7200	3 6	4127**
												4070-4070	2.013	1	1530	3	102
												4247-4276					
SHU 53	30-025-	07612	4	-19S	-38E	Σ	10//30	-	4177	4083	4177	1550	12.5	13.75	196	200	CIRC**
Altura								Ĺ	PBTD			3984-4078	6	12.25	2778	900	1012**
													7	8.75	3965	200	2965
													4.5	6.25	3702-4220	20	CIRC
	0	01010		0	(•	177	-	000	000	00.7	0007 0207	1000	7	0017	CCC	****
SHU 61	30-025-	7,007	α	-18S	-38E	∢	3//4/	-	4220	3885	4182	40/8-4080	8.020	=	980	200	e i
Altura												4105-4110	5.5	7.875	4195	400	1719**
SHU 121	30-025-	26116	4	-19S	-38E	ш	12//78	-	4210	4050	4240	3972-3988	11.75	15	1431	150	CIRC
Altura								_	PBTD			3998-4008	8.625	11	3865	1350	CIRC
												4018-4030	5.5	7.875	4268	92	CIRC
SHU 130	30-025-	28334	4	4 -19S	-38E	ட	10//83	۵	4298	4070	4194	4203-4244	4	17.375	40	o	29**
Altura													8.625	12.25	1496	875	CIRC
													5.5	7.875	4298	1300	CIRC
SHU 135	30-025-	28338	4	-198	-38E	ட	11//83	ΤA	4050	4116	4199	4076-4084	41	17.375	37	42	CIRC**
Altura									CIBP			4096-4101	8.625	12.25	1501	480	CIRC**
												4208-4234	5.5	7.875	4300	2100	CIRC**

Sxs. 42 42 6 875 1450 1450 1450 1400 6 101 0 0 101 0 0 101 0 0 101 0 0 0 101 0	Well Name	API No	No	Sec.		R	- I	Drill	Well	TD or	Top	Bot.	Sqz.	Csg.	Hole		No. of	
40 30-025- 28978 5 1985 -38E L 12/183 P 4232 4089 4208 NONE 14 1/375 1507 8/5 80 30-025- 28978 5 1985 -38E A 11/184 P 4210 4083 4206 1500 1500 1500 1500 1500 1500 1500 15	Operator				-	_		-		ВТБ	Perf	Perf	Perfs	Size	Size	Depth	Sxs.	700
80 30-025- 28978 5 -195 38E A 11/84 P 4307 4155 4205 NONE 17.375 4295 1450 1450 1450 1450 1450 1450 1450 145	SHU 140	30-025-	28343			Щ Щ	1,	2//83		 	4089	4208	NONE	14	17.375	40	45	CIRC**
Society Soci	Altura		+ -							9BTD				8.625	12.25	1507	875	CIRC
81 30-025- 28878 5 -188 -38E A 11/84 P 4307 4155 4305 NONE 14 17.375 40 42 42 436 1485 875 875 875 875 875 875 875 875 8														5.5	7.875	4295	1450	CIRC
84 30-025- 28976 5 198 -38E A 11/184 P 4307 4156 4305 NONE 141 17.375 1486 875 1486												i						
Both	SHU 180	30-025-	28978			Щ.		1//84			4155	4305	NONE	14	17.375	40	42	CIRC*
81 30-025- 29081 5 -198 -38E	Altura					-	_			втр				8.625	12.25	1485	875	CIRC
84 30-025- 28979 5 -185 -38E														5.5	7.875	4436	1485	CIRC
84 30-025- 28978 5-185 -38E A 10/184 P 4210 4083 4206 1500 14 422 8 625 12.55 1492 875 1100 184 30-025- 28984 5-185 -38E F 11/185 P 4212 4086 417 4132-4234 14 20 39 1011 1010 1011 1010 1011 1010 1011 1				•			-			_		0			0		c	******
84 30-025- 29083 5 198 38E F 11/185 P 4434 4216 4406 NONE 8 625 7875 4182 1100 85 30-025- 29084 5 198 38E E 101/184 P 4310 4075 4203 4205-4288 1498 981 100 86 30-025- 29084 6 198 38E D 121/190 D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SHU 181	30-025-	28979	5 -1		Щ Ш	\dashv	2//84	\dashv	_	4083	4206	1500	14	207	04	ין מ	35
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84 30-025- 29083 5-19S 38E F 11/85 P 4434 4216 4406 NONE 14 20 40 101 685 1000 885 1000 1000							_							5.5	7.875	4315	1100	CIRC**
Second	187	30.025	20083	T.		ПA	+	1/85	+		4216	4406	HNCN	14	20	40	101	CIRC**
85 30-025- 29084 5-195 -38E H 1//85 P 4212 4086 4117 4132-4234 14 20 39 101 101 101 101 101 101 101 101 101 10	V 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	-070-00	2222	5		וֹל		2	+				1	8 625	12.25	1505	875	CIRC
85 30-025- 29084 5-198 -38E H 1//85 P 4212 4086 4117	Ditt.						+-		-	1				5.5	7.875	4465	1000	CIRC**
85 30-025- 29084 5 -195 -38E I 11/05 I 4310 4075 4203 4205-4238 14 20 3981	1	1				L	\vdash	0	1		0007	7.4.4.7	1100 A00A	7,	00	30	50,	***
Secondary Colored Co	SHU 185	30-025-	29084	0		Ц	+	00//	$^{+}$	_	0001	-	4132-4234	100	0.00	3	2 6	0010
86 30-025- 28981 4 -19S -38E E 10//84 P 4310 4075 4205 4205-4238 14 20 39 50 86 30-025- 28981 4 -19S -38E 10//84 P 4310 4075 4205 4205-4238 14 20 39 50 87 30-025- 7621 5 -19S -38E J 12//30 1 4128 4203 515 15.5 180 50 50 39 50 50 39 50 390 50 30 300	Altura						-		_	018				8.625	12.25	1498	200	אַן כּוּצַי
86 30-025- 28981 4 -19S -38E E 10//84 P 4310 4075 4205-4238 14 20 39 50 87 30-025- 7621 5 -19S -38E J 12//30 1 4184 4128 4205-4238 14 20 39 50 87 30-025- 7621 5 -19S -38E J 12//30 1 4184 4128 4205 520 16.5 200 180 250 89 30-025- 79085 5 -19S -38E J 2//85 P 4300 4160 4228 4155-4170 40 40 412 89 30-025- 79085 5 -19S -38E J 1//85 P 4300 4160 4228 4155-4170 40 40 41 80 30-025- 79085 5 -19S 38E 1 1//85 P 4130-4186 44 4130-4186 414 20 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td> </td><td></td><td>5.5</td><td>7.875</td><td>4324</td><td>1400</td><td>535</td></td<>										-				5.5	7.875	4324	1400	535
86 30-025- 28981 4 -195 -38E E 10//84 P 4310 4075 4205-4238 14 20 39 50 86 30-025- 7621 5-19S -38E J 12//30 I 4184 4128 4203 515 7 875 4310 200 87 30-025- 07621 5-19S -38E J 12//30 I 4184 4128 4203 515 20 180 250 87 30-025- 07621 5-19S -38E J 21//30 I 4184 4128 4203 515 7 8.75 3970 300 89 30-025- 29085 5-19S -38E J 21//85 PBTD 420 4155-4170 14 20 40 112 90 30-025- 29085 5-19S -38E I I//85 PBTD 425 4130-4186 14 20 40							-			-		+ 					1	1
87 30-025- 07621 5 -19S -38E J 121/30 I 4184 4128 4203 515 7 8 52 7 8 75 4310 2000 89 30-025- 9082 5 -19S -38E J 21/85 PBTD 4097-4127 415-4170 14 20 40 <td>SHU 186</td> <td>30-025-</td> <td>28981</td> <td></td> <td>98</td> <td>38E</td> <td></td> <td>0//84</td> <td>i</td> <td></td> <td>4075</td> <td>4203</td> <td>4205-4238</td> <td>14</td> <td>20</td> <td>36</td> <td>20</td> <td>CIRC</td>	SHU 186	30-025-	28981		98	38E		0//84	i		4075	4203	4205-4238	14	20	36	20	CIRC
87 30-025- 07621 5-198 -38E J 12//30 I 4184 4128 4203 516 515 50 7.875 4310 2000 88 30-025- 07621 5-198 -38E J 12//30 I 4184 4128 4203 5165 516 516 516 516 516 516 516 516 51	Altura		ļ											8.625	12.25	1479	1075	CIRC
87 30-025- 7621 5-19S -38E J 12//30 I 4184 4128 4203 515 15.5 20 180 250 89 30-025- 79085 5-19S -38E J 1//85 P 4097 415 14 20 40 40 89 30-025- 9085 5-19S -38E J 2//85 P 4087 4155 17 8 7 8 7 8 7 8 7 8 7 8 7 8 7 9 7 8 7 8 7 8 7 8 7 8 9 8 9 8 9 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5.5</td> <td>7.875</td> <td>4310</td> <td>2000</td> <td>CIRC</td>							-							5.5	7.875	4310	2000	CIRC
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89 30-025- 9082 5-19S -38E 1//85 PBTD 4097-418F 4130-4186 4130-4186 415-4170 440-4182 45-625 2779 600 80-625 9082 5-19S 38F 30//85 PBTD 4097-4127 400	SHU 187	30-025-	07621		86	3E	 	2//30	- -		4128	4203	515	15.5	20	180	250	CIRC**
89 30-025- 390-025- 4097-4127 4097-4127 4097-4127 400-025- <th< td=""><td>Altura</td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td>-</td><td>эвто</td><td></td><td></td><td>2290</td><td>9.625</td><td>12.25</td><td>2779</td><td>900</td><td>373**</td></th<>	Altura				-				-	эвто			2290	9.625	12.25	2779	900	373**
89 30-025- 3085 5-19S -38E J 21/85 P 4300 4160 4224 4130-4186 445-4170 445-4170 4409 4409 4500 4609					-		-	-	-				3025	7	8.75	3970	300	2002**
89 30-025- 29085 5-19S -38E 1 1//85 P 4300 4160 4228 4155-4170 14 20 40 112 8/75 8/75 8/15 8/15 8/15 8/15 8/15 8/15 8/15 8/1									-				3994-4020	4.5	6.25	4207	400	CIRC
89 30-025- 29085 5-19S -38E J 2//85 PBTD 4155-4170 14 20 40 112 90 30-025- 30-025- 30-025- 30-025- 30-025- 4084 4275 4084 4224 4130-4186 14 20 40 40 8 90 30-025- 30-025- 30-025- 17.85 PBTD 8625 12.25 1529 748 90 30-025- 30-025- 30-025- 30-025- 400 400 8											ĺ		4097-4127					
90 30-025- 3082 5-198-38E I 1//85 P 4275 4084 4224 8625 12.25 15.25 1529 875 90 90-025- 9082 5-198-38E I 1//85 P PBTD 8625 12.25 15.25 14.0 8 90 30-025- 3082 5-198-38E I 1//85 P PBTD 8625 12.25 15.29 748 90 30-025- 3082 5-198-38E I 1//85 P PBTD 14.20-4186 14 20 40 8 90 30-025- 3082 5-198-38E I 1//85 P PBTD 14.20-4186 14 20 40 1162	SHU 189	30-025-	29085	5-1		38E		//85	+	-	4160	4228	4155-4170	14	20	40	112	CIRC**
90 30-025- 79082 5-19S -38E 1 1/185 P 4275 4084 4224 4130-4186 14 20 40 8 8 625 12.25 1529 748 6 14 5.6 7.875 4300 1162	Altura						+-			ļ				8.625	12.25	1529	875	CIRC
90 30-025- 9082 5-19S-38E I 1//85 P 4275 4084 4224 4130-4186 14 20 40 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8				-										5.5	7.875	4311	2060	CIRC
90 30-0259082 5-19S -38E I 1//85 P 4275 4084 4224 4130-4186 14 20 40 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9			:									:						
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5.5 7.875 4300 1162	Altura				-					эвтр				8.625	12.25	1529	748	CIRC
		! 		-	-	-	-		-					5.5	7.875	4300	1162	CIRC

Well Name	APINo	No	Sec	F	2	S	Drill	Well	TD or	Top	Bot.	Sqz.	Csg.	Hole		No. of	
Operator						Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	SXS	TOC
		100							!			0		C	0.4	5	*
SHU 191	30-025-	28983	4	-19S	-38E	_	11//84	a.	4310	4126	4310	4100-4110	14	07	040	5	2 2 2
Altura					_				PBTD			4212-4245	8.625	12.25	1515	8/2	O SEC
						-							5.5	7.875	4326	1000	CIRC
SHU 192	30-025-	24447	5	-19S	-38E	0	7//73	_	4250	4162	4219	1485	8.625	12.25	1481	720	CIRC
Altura									PBTD			4068-4154	5.5	7.875	4280	430	2550
						-											
SHU 193	30-025-	28984	5	-19S	-38E	۵	11//84	-	4275	4124	4230	NONE	14	20	40	88	CIRC**
Altura						_			PBTD				8.625	12.25	1450	875	CIRC
						<u> </u>							5.5	7.875	4300	1175	CIRC
SHU 195	30-025-	28985	5	-19S	-38E	۵	11//84	TA	4075	4124	4234	NONE	14	20	40	52	CIRC**
Altura						<u> </u>			CIBP				8.625	12.25	1549	875	CIRC
						-							5.5	7.875	4299		CIRC
		0000		0		_	7 07 7		0.0	0077	-	L	7.7	C	O.V	0	7.4*
051 OH0	30-029-	78380	4	25-	100-	≥	1//04	<u> </u>	4000	4 120	4535	NO NO	1 0	2007	1 1 2	0 6	***
Altura							!	Ī	CIBP				8.625	12.25	1503	27)	2
						+							5.5	7.875	4300	875	CIRC
SHU 213	30-025-	29752	2	-19S	-38E	<	11//86	-	4202	4078	4216	NONE	14	20	40	¥	NA A
Altura						ļ			PBTD				8.625	12.25	1482	850	CIRC
			;			++							5.5	7.875	4329	950	CIRC
SHU 214	30-025-	29730	4	-19S	-38E	-	10//86	۵	4300	4073	4278	NONE	14	20	40	∞	37**
Altura					-	ļ			PBTD				8.625	12 25	1504	750	CIRC
						 							5.5	7.875	4310	657	CIRC
SHU 215	30-025-	29753	4	-19S	-38E	<u>—</u>	11//86	_	4293	4110	4244	NONE	14	20	40	ω	37**
Altura						 			PBTD				8.625	12 25	1485	602	CIRC
			! 			+							5.5	7.875	4348	810	CIRC
SHU 220	30-025-	29891	4	-198	-38E	<u>ں</u>	6//87	۵	4465	4220	4346	1350	16	20	41	13	29**
Altura						-			PBTD			3250	10.75	14 75	1449	650	CIRC
						1							7	9.875	4479	818	CIRC
	l—				_												

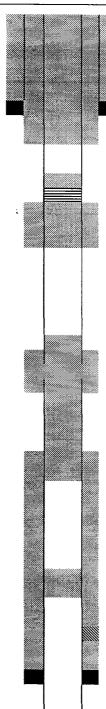
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	T0C	Ϋ́	CIRC	CIRC	CIRC	CIRC	CIRC	2908	CIRC**	1337**	CIRC**		CIRC**		CIRC**	1037**	329
No. of	Sxs.	ΑN	720	1454	952	1257	300	200	300	650	250	800	150	675	175	009	200
	Depth	40	1435	4314	1517	4301	419	4088	348	4290	432	3092	276	3103	210	2795	3956
Hole	Size	20	14.75	9.875	14.75	9.75	15.5	6.75	13.75	8.75	12.25	7.375	13.75	7.375	16	12.25	8 75
Csg.	Size	16	10.75	7	10.75	7	10.75	4.5	10.75	5.5	9.625	5.5	9.625	5.5	12.5	6	7
Sqz.	Perfs	NONE			NONE		3942-3947	4050-4054	A N		A A		NA		₹Z		
Bot.	Perf	4242			4264		4232		4216		3210		3200		3197		
Top	Perf	4085			4134		4088		4180		3165		3154		3167		
TD or	PBTD	4285	PBTD		4291	PBTD	4232		4252	PBTD	3213		3210		4175		
Well	Type	۵			Д.		PA		PA		PA		A A		PA A		
Drill	Date	12//91			11//91		71/64		9//48		2//49		8//48		10//30		
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œ		-38E			-38E		-38E		-38E		-38E		-38E		-38E		
-		-198			4 -19S		198		-19S		-19S		-19S		-19S		
Sec.	-	4			4		ro		5		4		3		5		
		31428			31429		29033		07622		07606		07616		07617		
API No.	!	30-025-			30-025-		30-025-		30-025-		30-025-		30-025-		30-025-		
Well Name	Operator	SHU 234	Altura		SHU 236	Altura	SHU 41	Altura	State A-5 #2	Conoco	State A #7	Pan American	HD McKinley #6	Sun	McKinlev #2	Texaco	

words to the to the

Altura Unit I, 2310 FSL & 460 FEL Sec. 5, T-19S, R-38E

WELL PLUGGED: 11/7/99

Size: 10.75" Depth: 419' Hole size: 15.5" Cmt: 300 sxs TOC: CIRC



Perforated at 465 and circulated 255 sxs cement to surface. Left 4.5" full of cmt.

Cmt Ret. at 1423, sqz'd 75 sxs and capped retainer with 20 sxs

Spotted 70 sxs plug 2233-3210'

4.5" csg parted at 2321' pumped 350 sxs to stablize casing.

·

Spotted 9 sxs 3710-3832

Sqz'd perfs 3942-47, 4050-54

Size: 4.5" Depth: 4088' Hole size: 6.75 Cmt: 200 TOC: 2908'

TD: 4232'

Conoco Unit O, 990 FSL & 1650 FEL Sec 5, T-19S, R-38E

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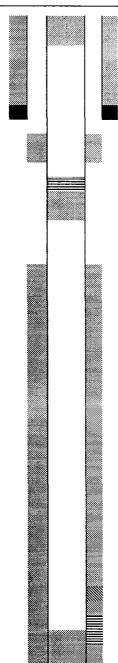
WELL PLUGGED: 7/31/73

Size: 10.75" Depth: 348' Hole size: 13.75" Cmt: 300 sxs TOC: CIRC - Calc 50% efficiency

20' surface cmt. plug.

Csg. repair at 985, sqz'd w/ 80 sxs

Cmt. Ret at 995 + 100 sxs



Sqz'd perfs 3956-4044 w/ 137 sxs

Perfs 4124-4216

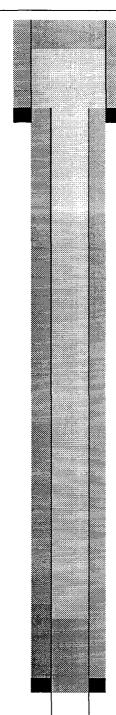
PBTD w/ cmt to 4206'

Size: 5.5" Depth: 4290' Hole size: 8.75" Cmt: 650 sxs TOC: 1337' - Calc 50% efficiency

Pan American Unit D, NW/4 of NW/4 Sec 4, T-19S, R-38E

WELL PLUGGED: 6/16/53

Size: 9.625"
Depth: 432'
Hole size: 12.25"
Cmt: 250 sxs
TOC: CIRC – Calc
50% efficiency



Spotted 20' suface plug

Shot 5.5" off at 323'

Heavy mud in hole

Spotted 25 sxs plug from 2892-3092

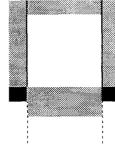
Size: 5.5" Depth: 3092' Hole size: 7.375" Cmt: 800 sxs TOC:

TD: 3213'

il. ic. mathames no Sun Oil Co. Unit A, 585 FNL & 585 FEL Sec 5, T-19S, R-38E

WELL PLUGGED: 1/30/74

Size: 9.625" Depth: 276' Hole size: 13.75" Cmt: 150 sxs TOC: CIRC - Calc 50% efficiency

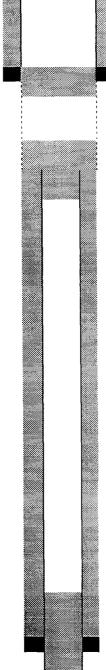


Spotted 5 sxs plug at surface

Spotted 45 sxs at 340'

Spotted 45 sxs plug at 1049'

Shot 5.5" off at 1016'

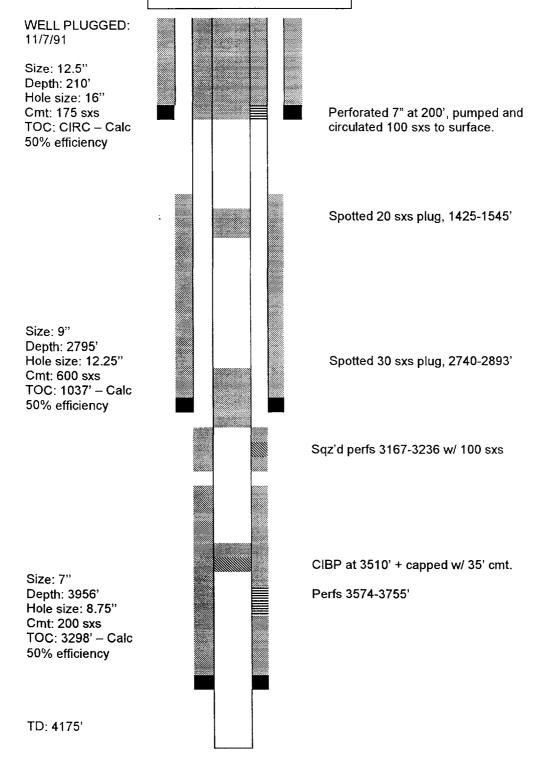


Size: 5.5" Depth: 3103' Hole size: 7.375" Cmt: 675 sxs TOC:

TD: 3210'

Spotted 45 sxs plug 2900-3150'

Texaco Unit I, 1980 FSL & 660 FEL Sec 5, T-19S, R-38E



LIST OF OFFSET OPERATORS & SURFACE OWNERS

South Hobbs (GSA) Unit Well No. 239 Letter I, Section 5, T-19-S, R-38-E Lea County, New Mexico

Offset Operator

Occidental Permian Limited Partnership P.O. Box 4294 Houston, TX 77210-4294

Surface Owner

Texaco Exploration and Production Inc. P.O. Box 3109 Midland, TX 79702

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AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I, 03112000
Publisher
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of1
weeks Beginning with the issue dated
March 16 2000
and ending with the issue dated
March 16 2000
Anti Bense
Publisher Sworn and subscribed to before
me this 16th day of
March 2000
Joli Monson Notary Public.
My Commission expires October 18, 2000

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

(Seal)

LEGAL NOTICE March 16, 2000

Notice is hereby given of the application of Altura Energy LTD, Attn: Mark Stephens, P.O. Box 4294, Rm. 338-B, Houston, TX 77210-4294 (281/552-1158), to the Oil Conservation Division, New Mexico Energy, Minerals and Natural Resources Department, for approval of the following to be drilled injection well for the purpose of secondary recovery:

Pool Name: Hobbs; Grayburg-San Andres Lease Unit Name: South Hobbs (GSA) Unit

Well No. 239

Loc.: 1984' FSL & 370' FEL, Unit Letter I, Sec. 5, T-19-S, R-38-E, Lea Co., NM

The injection formation is the Hobbs; Grayburg-San Andres Pool between the intervals of+/- 3700' and +/- 5300' below the surface of the ground. Expected maximum injection rate is 4000 BWPD and the expected maximum injection pressure is approximately 818 psi. Interested parties must file objections or requests for hearing with the Oil Conservation Division, 2040 S. Pacheco, Santa Fe, NM 87505 within fifteen (15) days. #17264

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

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