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From:	Pritchard, George F (GPritchard) [GPritchard@chevron.com]	Sent:	Wed 5/31/2006 12:29 PM
То:	Stogner, Michael, EMNRD		
Cc:	Gelbs, Mike; Rittenhouse, Sarah C; Pinkerton, J. Denise (leakejd)		
Subject:	REVISION of Admin Order NSL-5366 (SD)		
Attachments	s: 刘 2 Harry Leonard 8 OCD admin request.pdf(3MB)		

Mr. Michael Stogner;

Attached is a request to revise previously approved Administrative Order NSL-5366 (SD). The well location had to be moved and is now located 400' to the east in Lot H rather than G. The proposed well [Harry Leonard #8] would now be simultaneously dedicated to different wells on the same lease. All additional data remains as previously approved.

Please let me know if you have any questions. I follow this email through regular mail.

Thank you for your attention to this matter.

George F. Pritchard **Chevron / New Mexico AD** Houston, TX 281-561-4918 gpritchard@chevron.com

MidContinent SBU

Chevron North America Exploration and Production Company P. O. Box 36366 Houston, TX 77236



May 31, 2006

Request for Administrative Approval of Unorthodox Oil Well Location and Simultaneous Dedication [Via mail & email] Re-application due to location change Administrative Order NSL-5366 (SD)

Mr. Mark E. Fesmire c/o Mr. Michael Stogner New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Dear Mr. Fesmire:

Chevron respectfully requests an administrative approval revision of an unorthodox oil well location for the following well that has been moved 400' east into Lot H:

#### Harry Leonard #8

2310' FNL & 1030' FEL, S/2 NE/4 of Section 16, T21S, R37E, Unit Letter H Lea County, New Mexico

The New Mexico Oil Conservation Division approved the previous location of the Harry Leonard #8 (30-025-37834) by Administrative Order NSL-5366 (SD) dated April 19, 2006. Due to subsurface pipeline issues, the location has been moved to Lot H and would now be simultaneously dedicated to the Harry Leonard #7 (30-025-36741) and the Harry Leonard # 5H (30-025-066240100).

The proposed well will be an infill producer in the Penrose Skelly, Grayburg Pool, which is an oil pool spaced on 40 acres. This well is a continuation to our previous two year's infill drilling in the same Pool [Pool Code 50350]. Chevron's technical analysis of the reservoir still supports the contention that typical Grayburg wells cannot drain 40 acres.

The SE/4 NE/4 of Section 16 will be simultaneously dedicated in the Penrose Skelly, Grayburg Pool to the proposed well and to the Harry Leonard #7 and Harry Leonard #5H. The Harry Leonard #8 will be completed as a Penrose Skelly, Grayburg producer. Chevron also requests approval for simultaneous dedication.

May 31, 2006 Page 2

This application is based on geological and engineering analysis. The analysis and justification for this request is attached as Exhibit 1, along with other supporting documentation. There are five wells that have produced the Grayburg formation in the NE/4 of Section 16. The proposed well will be located in a 20 acre location among the current producers and located 330' off the lease line. Based on drainage calculations, Chevron believes that drilling this infill well will recover reserves that would not be recovered by existing Grayburg producers and will protect our leasce from any possible drainage due to Apache's south offset, the State DA #10 (30-025-36786) well.

A land plat highlighting the proposed well's location is attached as Exhibit 2. The NE/4 of Section 16 is covered by a single fee lease which has common royalty and 100% Chevron working interest ownership. For that reason and the proposed location of the infill well, there are no adversely affected interest owners and no one has been notified of this application.

If you have any questions concerning this application or need additional information, please contact me by phone at (281) 561-4918 or by email at <u>gpritchard@chevron.com</u>. If I am not available, you can also reach Mike Gelbs by phone at (281) 561-7939 or by email at <u>mike.gelbs@chevron.com</u>. Thank you for consideration of this matter.

Sincerely,

CTroy F.L.

George F. Pritchard Project Manager / Geologist

Attachments

cc: NMOCD District 1 – Hobbs, NM George F. Pritchard Mike Gelbs Well File

,					
DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
		•			

ABOVE THIS LINE FOR DIVISION USE ONLY

- Engineering Bureau -

NEW MEXICO OIL CONSERVATION DIVISION 1220 South St. Francis Drive, Santa Fe, NM 87505



### **ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

#### Application Acronyms:

	DHC-Down] PC-Poo[ ]	dard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] hole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] of Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] fied Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF AP [A]	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery           WFX         PMX         SWD         IPI         EOR         PPR
	[D]	Other: Specify
[2]	NOTIFICATI [A]	ON REQUIRED TO: - Check Those Which Apply, or 🔀 Does Not Apply
	[B]	Offset Operators, Leaseholders or Surface Owner
	[C]	Application is One Which Requires Published Legal Notice
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Burcau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	For all of the above, Proof of Notification or Publication is Attached, and/or,
	<b>[F]</b>	Waivers are Attached
[3]		CURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE TION INDICATED ABOVE.

CERTIFICATION: I hereby certify that the information submitted with this application for administrative [4] approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

George F. Pritchard Print or Type Name

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Signature F		

Project Manager / Geologist Title

5/31/2006 Date

gpritchard@chevron.com c-mail Address

#### **NOTIFICATION LIST**

Application of Chevron U.S.A. Inc. for Administrative Approval of an Unorthodox Oil Well Location and Simultaneous Dedication:

### Harry Leonard NCT-E #8

2310' FNL & 1030' FEL Section 16, T21S, R37E, Unit Letter H Lea County, New Mexico

#### Offset Operators, Working Interest Owners, NE/4 Section 16:

1. Chevron U.S.A. Inc. 11111 S. Wilcrest Houston, TX 77099 Operator/100% WI

#### EXHIBIT 1

#### ENGINEERING AND GEOLOGICAL JUSTIFICATION

Application of Chevron U.S.A. Inc. for Administrative Approval of an Unorthodox Oil Well Location and Simultaneous Dedication:

#### Harry Leonard NCT-E #8

2310' FNL & 1030' FEL Section 16, T21S, R37E, Unit Letter H Lea County, New Mexico

#### PRIMARY OBJECTIVE: GRAYBURG

SUPPORTING DATA:

- 1. Chevron U.S.A. Inc. (Chevron) is the operator of the proposed Harry Leonard NCT-E #8 well (Exhibit 3). The proposed total depth is 4300' in the top of the San Andres formation.
- 2. The completion will be in the Penrose Skelly, Grayburg Oil Pool and the proposed location encroaches toward the following wells (Exhibit 4).

Operator	Well	API #	Location	Formation	Cun	n Prod	Curre	nt Prod	Status	
Operator	** C11	Art#	Location	romation	MBO	MMCF	BOPD	MCFPD	Status	
Chevron #1		3002506620	16-G	Grayburg	27	122	20	180	active 7/2002	
Chevron	Harry Leonard #3	3002506622	16-B	Grayburg	41	207	25	205	active 7/2002	
Chevron	Harry Leonard #5H	3002506624	16-H	Grayburg	32	166	65	183	active 12/2001, hzntl 2005	
Chevron	Harry Leonard #6	3002525198	15-A	Grayburg	46	.231	23	170	active 5/2002	
Chevron	Harry Leonard #7	3002536741	15-H	Grayburg	21	84	34	188	active 9/2004	

3. The proposed Harry Leonard NCT-E #8 unorthodox Grayburg location is based primarily on drainage considerations:

a. Grayburg Reservoir

The Grayburg is a series of alternating subtidal and supratidal dolomites with the subtidal rock having porosity and hydrocarbons while the supratidal rock is tight. The Grayburg depositional environments varied rapidly so that many porous and tight intervals are not continuous from well to well on 40-acre spacing. Tight dolomite and/or anhydrite intervals within the Grayburg create vertical and horizontal flow barriers between different zones of porosity. Additionally, average porosity of the Grayburg is less than 10%, and the average permeability is less than 1 millidarcy. For all of these reasons, Grayburg wells are not usually capable of draining a 40-acre proration unit.

The reservoir was also analyzed by mapping the Hydrocarbon Pore Volume (HCPV) (Exhibit 5). HCPV is the product of feet of net pay (h) times average porosity (phi) time oil saturation  $(S_o)$ . The attached map is the arithmetic product of grids interpreted from those values. The values were obtained as follows:

- 1. Net pay was read from either modern neutron-density logs or estimated from a map developed from gross pay times net-togross ratio (Exhibit 4).
- 2. Average porosity was calculated from modern well logs using a minimum of 6% crossplot porosity and a maximum of 20%.
- 3. Oil saturation was calculated from a fractional flow curve using representative water cut values.

The following table provides drainage areas calculated from the HCPV map and reserves of the offsetting wells.

	Well	API #	Location	Formation	Drainage	E	UR
Operator	wen	Ari#	Location	Pointation	Acres	MBO	MMCF
Chevron	Harry Leonard #1	3002506620	16-G	Grayburg	18	59	266
Chevron	Harry Leonard #3	3002506622	16-B	Grayburg	23	80	574
Chevron	Harry Leonard #5H	3002506624	16-H	Grayburg	20	60	355
Chevron	Harry Leonard #6	3002525198	16-A	Grayburg	49	151	789
Chevron	Harry Leonard #7	3002536741	16-H	Grayburg	46	144	960

As seen above, the average location drainage area of the offsetting wells is approximately 31 acres, and additional reserves can be recovered by drilling the proposed infill well at an approximate equidistant location from the existing offsetting producers and remaining 330' off the lease line. Due to the 330' offset from the lease line, reserves for the proposed location were calculated using the HCPV map, a 15 acre drainage area, and a 15% recovery factor. The results are as follows:

Operator	Well	ell Location HCP		Drainage	EUR		
Operator	** Ç11	Location	Acres		MBO	MMCF	
	Harry Leonard		· · · · ·				
Chevron	#8	16-G	3.8	15	46	409	

- 4. The NE/4 of Section 16 is covered by a single fee lease which has common royalty and working interest ownership. Chevron is the operator and 100% working interest owner of the Grayburg wells toward which the proposed well will encroach. Therefore, there are no offset interest owners or adversely affected parties to notify of this application.
- 5. The proposed Harry Leonard NCT-E #8 will share a 40-acre proration unit and will be simultaneously dedicated with the Harry Leonard NCT-E #7 and the Harry Leonard NCT-E #5H as a Penrose Skelly, Grayburg producer in Section 16, Unit Letter H.
- 6. Approval of this application will allow for the recovery of oil and gas reserves which would not otherwise be recovered.

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 86240

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DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 66210

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

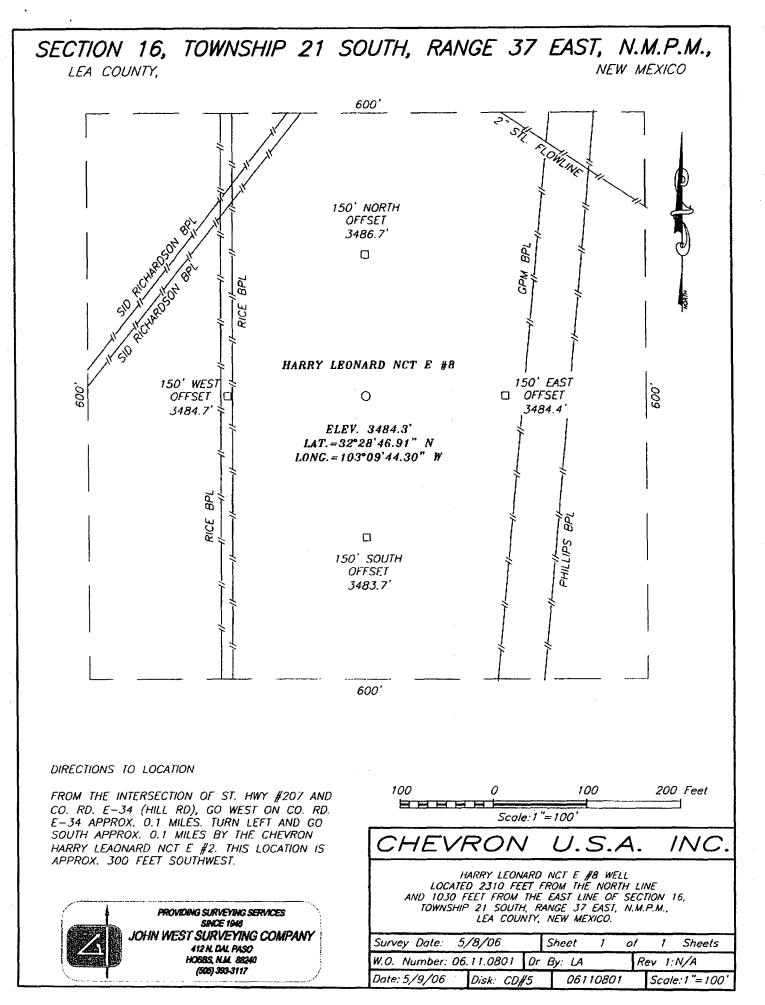
#### State of New Mexico

Energy, Minerals and Natural Resources Department

#### OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

API N	umber		Pool Code Property Name HARRY LEONARD NCT E									
Property Co	ode							<del></del>	Well Number 8			
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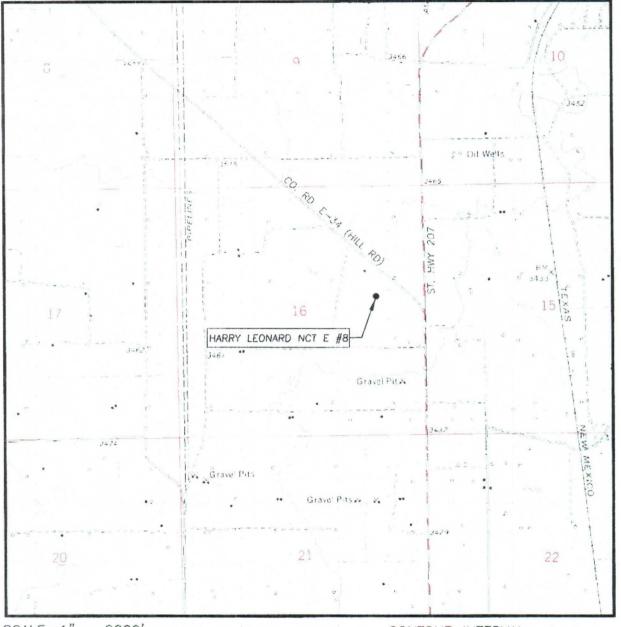
SEC. 16 TWP. 21-S RGE. 37-E

SURVEY	N.M.P.M.
COUNTY	LEASTATE_NEW_MEXICO
DESCRIPTIO	N 2310' FNL & 1030' FEL
ELEVATION_	3484'
OPERATOR _	CHEVRON U.S.A., INC.
LEASE	HARRY LEONARD



DREH

# LOCATION VERIFICATION MAP



SCALE: 1'' = 2000'

SEC. <u>16</u> TWP.<u>21-S</u> RGE. <u>37-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> STATE <u>NEW MEXICO</u> DESCRIPTION <u>2310'</u> FNL & 1030' FEL ELEVATION <u>3484'</u> OPERATOR <u>CHEVRON U.S.A., INC.</u> LEASE <u>HARRY LEONARD NCT E</u> U.S.G.S. TOPOGRAPHIC MAP EUNICE, N.M. CONTOUR INTERVAL: EUNICE, N.M. - 10'



### Exhibit 2

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Chevrold Chevrold Dual Morey Langur Apoche Lane (1) Apoche (1) Apoch	And the second s	Chevron USA Inc. Harry Leonard #7 1330 FNL & 1070 FEL, Unit H Harry Leonard #5H 2310 FNL & 330 FEL, Unit H Harry Leonard #8 (revised)
Chevrold Staal Morey Langur Aporte Linker Aporte	ALCO Apco Guest A Alcon Apco Guest A Alcon Apco A Micro Della Car Di Conner A Allarro Del	Chevron USA Inc. Harry Leonard #7 1330 FNL & 1070 FEL, Unit H Harry Leonard #5H 2310 FNL & 330 FEL, Unit H Harry Leonard #8 (revised) 2310 FNL & 1030 FEL, Unit H
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Chevrold Chevrold Dual Morey Langur Apoche Lane (1) Apoche (1) Apoch	Aller of the second of the sec	Chevron USA Inc. Harry Leonard #7 1330 FNL & 1070 FEL, Unit H Harry Leonard #5H 2310 FNL & 330 FEL, Unit H Harry Leonard #8 (revised) 2310 FNL & 1030 FEL, Unit H
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Chevrold Dual Morroy Langur 7 Apoche Langur 2	And the second s	Chevron USA Inc. Harry Leonard #7 1330 FNL & 1070 FEL, Unit H Harry Leonard #5H 2310 FNL & 330 FEL, Unit H Harry Leonard #8 (revised) 2310 FNL & 1030 FEL, Unit H Harry Leonard #8 (revised) 2310 FNL & 1030 FEL, Unit H Section 16, T21S-R37E Lea County, New Mexico
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Chevrold Dual Morroy Langur 7 Apoche Langur 2	And the second month of the second se	Chevron USA Inc. Harry Leonard #7 1330 FNL & 1070 FEL, Unit H Harry Leonard #5H 2310 FNL & 1070 FEL, Unit H Harry Leonard #8 (revised) 2310 FNL & 1030 FEL, Unit H Section 16, T21S-R37E Lea County, New Mexico Harry Leonard Lease

District 1 1625 N, French Dr., Hobbs, NM 88240

District II 1301 W. Grand Avenue, Artesia, NM 88210

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

### **OIL CONSERVATION DIVISION**

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Revised June 10, 2003

Form C-102

Submit to Exhibit 3.1B

District IV 1220 South St. Francis Dr., Santa Fe, NM 87505

1220 South St. Francis Dr. Santa Fe, NM 87505

AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

	<sup>1</sup> API Number 30-025-3674												
<sup>4</sup> Property	Code				<sup>5</sup> Property Nar Harry Leonard N				<sup>6</sup> Well Number 5H				
	<sup>7</sup> OGRID No. 4323 <sup>®</sup> Operator Name Chevron U.S.A., Inc.							<sup>9</sup> Elevation 3493' KB					
- - -					<sup>10</sup> Surface Lo	ocation							
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County				
н	H 16 21S 37E 2310 North 330 East												
	-		<sup>11</sup> Bot	tom Hole	Location If D	ifferent From S	urface		<u></u>				
111 1 11-	0		Davas		Cash from the	North (Courth Lines	Cant from the	C	0				

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	16	21S	37E		330	North	330	East	Lea
<sup>17</sup> Dedicated Acr 40	es <sup>13</sup> Joir	it or Infill	Consolidation	Code <sup>15</sup> On	der No.				

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

16	Harry Leonard NCT-E Lease		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
		2310' 7 40-acre proration unit O 8	Signature George F. Pritchard Printed Name Geologist Title May 17, 2006
	 ਤੇ STATE DA ♥ 10	8 5н	18 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 supervision, and that the same is true and correct to the best of my belief. Signature and Seal of Professional Surveyor:
			Certificate Number

District I 1625 N. French Dr., Hobbs, NM 88240

District II 1301 W. Grand Avenue, Artesia, NM 88210

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

### **OIL CONSERVATION DIVISION**

State of New Mexico

Energy, Minerals & Natural Resources Department

Submit to Annuanciate District Offic

Exhibit 3.1A

1220 South St. Francis Dr. Santa Fc, NM 87505

AMENDED REPORT

<u>District IV</u> 1220 South St. Francis Dr., Santa Fe, NM 87505

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-36741 <sup>1</sup> Property Code				<sup>2</sup> Paol Code 50350		<sup>3</sup> Pool Name Penrose Skelly; Grayburg				
					<sup>5</sup> Property Nar Harry Leonard N		<sup>6</sup> Weil Numbe 7			
<sup>7</sup> OGRID No. 4323				<sup>e</sup> Operator Name Chevron U.S.A., Inc.					<sup>9</sup> Elevation 3489' KB	
					<sup>10</sup> Surface Lo	cation				
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
н	16	215	37E		1330	North	1070	East	Lea	
			<sup>11</sup> Boti	om Hole	Location If D	ifferent From S	urface	· · · · · · · · · · · · · · · · · · ·		
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
<sup>12</sup> Dedicated Acr 40	es <sup>13</sup> Joir	nt or Infill 14 C	onsolidation	Code <sup>15</sup> Or	der No.	·		· · · · · · · · · · · · · · · · · · ·		

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16		Harry Leonard NCT-E Lease	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
		40-acre proration unit	Signature George F. Pritchard Printed Name Geologist
	 ම STATE DA P 10	8 5H	May 17, 2006 18 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 supervision, and that the same is true and correct to the best of my belief.
	· · · · · · · · · · · · · · · · · · ·		Signature and Scal of Professional Surveyor:

