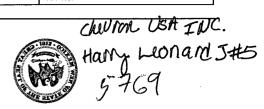
NSL

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



		ADMINISTRATIVE APP	PLICATION CHECKLIST	
TI	HIS CHECKLIST IS M.		CATIONS FOR EXCEPTIONS TO DIVISION RULES AN	D REGULATIONS
Applic	cation Acronym		THE DIVISION LEVEL IN SANTA FE	
	[DHC-Dowi	nhole Commingling] [CTB-Lease (ol Commingling] [OLS - Off-Lease [WFX-Waterflood Expansion] [PM [SWD-Salt Water Disposal] [I	l Proration Unit] [SD-Simultaneous Dedic Commingling] [PLC-Pool/Lease Commi Storage] [OLM-Off-Lease Measureme X-Pressure Maintenance Expansion] PI-Injection Pressure Increase] cation] [PPR-Positive Production Resp	ngling] nt]
[1]	TYPE OF AP [A]	PLICATION - Check Those Which Location - Spacing Unit - Simultand NSL NSP SD		
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measuren DHC CTB PLC		
	[C]	Injection - Disposal - Pressure Incre		
	[D]	Other: Specify		
[2]	NOTIFICATI [A]	ION REQUIRED TO: - Check Thos Working, Royalty or Overriding	se Which Apply, or Does Not Apply ag Royalty Interest Owners	·
	[B]	Offset Operators, Leaseholders	s or Surface Owner	
	[C]	Application is One Which Rec	uires Published Legal Notice	
	[D]	Notification and/or Concurrent U.S. Bureau of Land Management - Commission	t Approval by BLM or SLO oner of Public Lands, State Land Office	
	[E]	For all of the above, Proof of N	Notification or Publication is Attached, and	l/or,
	[F]	Waivers are Attached		
[3]		CURATE AND COMPLETE INFO	DRMATION REQUIRED TO PROCES	S THE TYPE
	val is <mark>accurate</mark> ar	• •	mation submitted with this application for adge. I also understand that no action will re submitted to the Division.	
	Note:	Statement must be completed by an individual	dual with managerial and/or supervisory capacity	
	Sarah Rittenhouse r Type Name	Signature Signature	Project Manager / Geologist Title	11/6/200 3 Date

Sarah C. Rittenhouse Project Manager / Geologist



North America Upstream Midcontinent Business Unit 11111 S. Wilcrest, Rm S1037 Houston, Texas 77099 Tel (281) 561-3773 Fax (281) 561-3576 sarah.rittenhouse@chevron.com

October 30, 2007

Request for Administrative Approval of Unorthodox Oil Well Location

Mr. Mark E. Fesmire New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Dear Mr. Fesmire:

RECEIVED

Chevron respectfully requests administrative approval of an unorthodox oil well location for the following well:

Harry Leonard J #5

1200' FNL & 990' FEL, NE/4 NE/4 of Section 24, T21S, R36E, Unit Letter A Lea County, New Mexico

The proposed well will be an infill producer in the Penrose Skelly, Grayburg Pool [Pool Code 50350], which is an oil pool spaced on 40 acres. This well is a continuation of our 5 year infill drilling in the same Pool. Chevron's technical analysis of the reservoir still supports the contention that typical Grayburg wells cannot drain 40 acres.

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 is one well that has produced the Grayburg formation in the NE/4 of Section 24. The proposed well will be located in the approximate center point of the existing wells. Based on drainage calculations, Chevron believes that drilling the infill well will recover reserves that would not be recovered by existing Grayburg producers.

A land plat highlighting the proposed well's location is attached as Exhibit 2. The N/2 of Section 24 is covered by a single fee lease and has common royalty and working interest ownerships. 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) 561-3773 or by email at sarah.rittenhouse@chevron.com. If I am not available, you can also reach Meilin Du by phone at (281) 561-3564 or by email at meilin.du@chevron.com. Thank you for consideration of this matter.

Sincerely,

Sarah C. Rittenhouse

Project Manager / Geologist

ah C. Ritterlorx

Attachments

cc: NMOCD District 1 – Hobbs, NM

Michael Gelbs Sarah Rittenhouse George Pritchard

Well File

NOTIFICATION LIST

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

Harry Leonard J #5 1200' FNL & 990' FEL, NE/4 NE/4 of Section 24, T21S, R36E, Unit Letter A

Lea County, New Mexico

Offset Operators, Working Interest Owners, NE/4, NE/4 Section 24:

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:

Harry Leonard J #5

1200' FNL & 990' FEL, NE/4 NE/4 of Section 24, T21S, R36E, Unit Letter A Lea County, New Mexico

PRIMARY OBJECTIVE: GRAYBURG

SUPPORTING DATA:

1. Chevron U.S.A. Inc. (Chevron) is the operator of the proposed Harry Leonard J #5 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	API#	Lease Name	Well #	Location	Formation	Cur	n Prod	Curre	ent Prod	Status
						во	MCF	BOPD	MCFPD	
Whiting	30025202710001	GULF MATTERN A	1	24I 21S 36E	GRAYBURG	89791	1105321	2	18	Oil
Chevron	30025200880000	EUNICE COM	2	19 21S 37E	GRAYBURG	31246	653158	1	29	Oil
Chevron	30025047700001	H T MATTERN NCT A	3	24P 21S 36E	GRAYBURG	12702	949009	0	0	InactiveOil
Chevron	30025047690000	H T MATTERN NCT A	2	24J 21S 36E	GRAYBURG	74769	166794	0	0	InactiveOil
Chevron	30025047680000	HARRY LEONARD NCT J	1	24G 21S 36E	GRAYBURG	2793	0	0	0	InactiveOil

- 3. The proposed Harry Leonard J #5 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) times 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-to-gross 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.

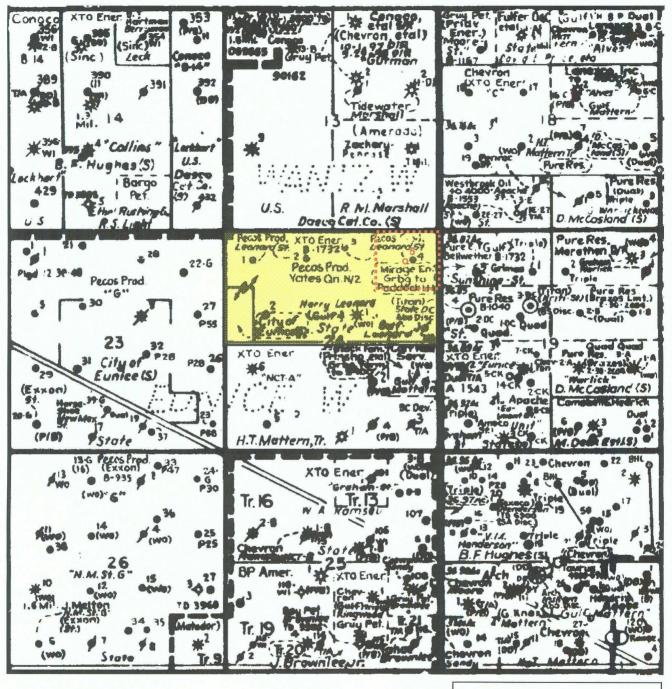
Operator	API#	Lease Name	Well #	Location	Formation	Drainage	E	UR
						Acres	во	MCF
Whiting	30025202710001	GULF MATTERN A	11	24I 21S 36E	GRAYBURG	11	91662	1122118
Chevron	30025200880000	EUNICE COM	2	19 21S 37E	GRAYBURG	4	33293	743566
Chevron	30025047700001	H T MATTERN NCT A	3	24P 21S 36E	GRAYBURG	2	12702	949009
Chevron	30025047690000	H T MATTERN NCT A	2	24J 21S 36E	GRAYBURG	9	74769	166794
Chevron	30025047680000	HARRY LEONARD NCT J	1	24G 21S 36E	GRAYBURG	0	2793	0
						5.2		

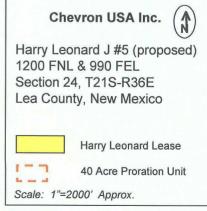
As seen above, the average drainage area of the offsetting locations is only 5.2 acres, and additional reserves can be recovered by drilling the proposed infill well at an approximate equidistant location from the existing offsetting producers. Reserves for the proposed location were calculated using the HCPV map, a 5 acre drainage area, and a 15% recovery factor. The results are as follows:

Operator	Well	Location	HCPV	Drainage	EUR	
Орстатог	W CII	Location	IICI V	Acres	MBO	MMCF
Chevron	Harry Leonard J 5	24-A	10.2	6	47	201

- 4. The NE/4 of the NE/4 of Section 24 is covered by a single fee lease which has common royalty and working interest ownerships. 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. Approval of this application will allow for the recovery of oil and gas reserves which would not otherwise be recovered.

Exhibit 2





DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 68240

State of New Mexico Energy, Minerals and Natural Resources Department

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210

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

Certificate No. GARY G. EIDSON

12641

RONALD J. EIDSON 3239

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

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT □ AMENDED REPORT 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505 API Number Pool Code Pool Name Property Code Property Name Well Number HARRY LEONARD J 5 Operator Name Elevation OGRID No. CHEVRON USA INC. 3528 Surface Location UL or lot No. Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Section 990 Α 24 21 - S36-E 1200 NORTH EAST LEA Bottom Hole Location If Different From Surface North/South line UL or lot No. Lot Idn Feet from the Feet from the East/West line Section Township Range County Dedicated Acres Joint or Infill Consolidation Code Order 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 OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary nooling agreement or a or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. 990' Signature Date Printed Name 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. GEODETIC COORDINATES NAD 27 NME Y=535879.1 N X=845469.1 E LAT.=32.468259* N Date Surveyed LONG.=103.213198° W Signature & Segl Professional Su

SECTION 24, TOWNSHIP 21 S	SOUTH, RANGE 36 EAST, N.M.P.M.,
	600'
15/	o' NORTH
	OFFSET 3529.9'
	NOWILL
OFFSET 3529.4' ELE LAT.=3	LEONARD J #5 ○
'	D' SOUTH OFFSET 3528.9'
	600'
DIRECTIONS TO LOCATION	100 0 100 200 Feet
FROM THE INTERSECTION OF STATE HWY. #8 AND S. LEGION RD. (CO. RD. #E-33) GO WEST ON STATE HWY. #8 APPROX. 2.4	Scale: 1"=100'
MILES. TURN RIGHT AND GO NORTH APPROX. 1.15 MILES. THIS LOCATION IS NORTHEAST	CHEVRON USA INC.
APPROX. 400 FEET.	HARRY LEONARD J #5 WELL LOCATED 1200 FEET FROM THE NORTH LINE AND 990 FEET FROM THE EAST LINE OF SECTION 24, TOWNSHIP 21 SOUTH, RANGE 36 EAST, N.M.P.M.,
PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY	LEA COUNTY, NEW MEXICO.
412 N. DAL PASO HOBBS, N.M. 88240 (505) 393-3117	Survey Date: 10/10/07 Sheet 1 of 1 Sheets W.O. Number: 07.11.1319 Dr By: DSS Rev 1:N/A Pate: 10/16/07 District 07.111.310 Segle: 1"=100'

Date: 10/16/07 | Disk: .

Scale:1"=100' 07111319

VICINITY MAP

10 11 12 7 OIL CENTER 8 HARRY LEONARD J #5 PECA PORCE 15 14 13 82 82 17 16 15 14 13 82 82 18 17 15 16 15	3
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	15

SCALE: 1" = 2 MILES

SEC. <u>24</u> 1	NP. <u>21-</u>	- <u>S</u> RG	E. <u>36</u>	<u>></u> E	
SURVEY	N.	М.Р.М.	·	**	
COUNTYL	EAS	TATE_	VEW_	ME:	XICO
DESCRIPTION	1200'	FNL &	<u>k 99</u>	0,	FEL
ELEVATION		3528	3'		
OPERATOR	CHEVE	RON U	SA II	NC.	
LEASE	HARRY	LEONA	RD J		



PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 393-3117



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. <u>24</u> TWP. <u>21-S</u> RGE. <u>36-E</u>

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 1200' FNL & 990' FEL

ELEVATION 3528'

OPERATOR CHEVRON USA INC.

LEASE HARRY LEONARD J

U.S.G.S. TOPOGRAPHIC MAP EUNICE, N.M.

CONTOUR INTERVAL: EUNICE, N.M. - 10'



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117



State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised June 10, 2003

District II

1301 W. Grand Avenue, Artesia, NM 88210

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

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

OIL CONSERVATION DIVISION

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

Submit to Annuariate District Office

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number				² Pool Code 50350			ayburg				
						roperty Name fry Leonard J 6 Well Num 5					
						pperator Name yron U.S.A., Inc. 9 Elevation 3528					
					¹⁰ Surface Lo	ocation					
IL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	South line Feet from the East/West line		County		
A	24	218	36E		1200	North	990	East Lea			
			¹¹ Bott	om Hole	Location If D	ifferent From S	urface				
JL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
Dedicated Acres	es ¹³ Join	nt or Infill 14 C	consolidation	Code 15 Ord	der No.						

16			1200'	40-acre proration unit	OPERATOR CERTIFICATION
			1200	• 4	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
		5 (,) +——	990'	
			-		Shuh C. Ritten
					Signature Sarah C. Rittenhouse
					Printed Name Geologist
	Harry Leonard J Lease				November 1, 2007
	<u> </u>				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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised June 10, 2003

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

1000 Rio Brazos Rd., Aztec, NM 87410

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

OIL CONSERVATION DIVISION

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

Exhibit 3.1

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number ² Pool Code 50350						³ Pool Name Penrose Skelly; Grayburg					
⁴ Property	Code				⁵ Property Na Harry Leona r						
⁷ OGRID	No.	⁸ Operator Name Chevron U.S.A., Inc.									
					¹⁰ 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		
Α	24	218	36E		1200	North	990	East	Lea		
			¹¹ Bott	tom 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		
Dedicated Acre	es ¹³ Joir	nt or Infill 14 C	Consolidation	Code 15 Or	der No.						

NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16			40-acre proration unit	OPERATOR CERTIFICATION
			1200'	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
			990'	
		4	· · · · · · · · · · · · · · · · · · ·	Scyl C. Ritter
·			·	Signature Sarah C. Rittenhouse Printed Name
	Harry Leonard J Lease	,		Geologist Title November 1, 2007
	5	4		
				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

