## District I 1625 N. French Dr , Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S St Francis Dr, Santa Fe, NM 87505

## State of New Mexico Energy Minerals and Natural Resources

May 27, 2 Submit to appropriate District Of

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

	AMENDED	REPC
ш	AMIENDED	KEPC

Form C-

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN.

Depth to Groundwater   Distance from nearest fresh water well   Distance from nearest surface water	PLUGB.	ACK, (	OR ADD	A ZONE	-			, , ,	. 221 19				
**MIDLAND, TEXAS 79705**  **Jepoperty Code**	Operator Name and Address CHEVRON U S A INC.												
Proposed Pool   Proposed Poo													
VACUUM GRAYBURG SAN ANDRES	<sup>3</sup> Prope	erty Code	Ι			5 Prope	rty Name			<u> </u>	1	6 Wel	I No.
Surface Location  ULer lot no Section Section Township 18-8  Proposed Bottom Hole Location If Different From Surface  ULer lot no Section Section Township 18-8  Proposed Bottom Hole Location If Different From Surface  ULer lot no Section Township Range Let like Feet from the North/South late Feet from the East/West late County  Additional Well Information  "Work Type Code Oil 19-	30	022	_ [		VACUU			NDRES L	INIT				
U. or ion no   Section   Township   Range   Lot Man   Feet from the   NoRTH   Peet from the   NORTH					N ANDRES					10 Proj	oosed Pool	2	
Proposed Bottom Hole Location If Different From Surface   UL or lot as   Section   Township   Range   Lot Ids   Feet from the   North-South line   Feet from the   East/West line   County	<sup>7</sup> Surface	Location	on				-						
**Proposed Bortom Hole Location If Different From Surface    Utor lot no   Section   Township   Range   Lot fish   Feet from the   North/South line   Feet from the   East/West Line   County		1			Lot		NORTH		3 <del>30</del> =	1 1			
Additional Well Information  "Woyk Type Code OIL "Well Type Code OIL "Ground Level Elevation Ad07"  "Multiple No Proposed Depth OIL "Formation GRAYBURG S/A Depth to Groundwater Distance from nearest fresh water well Distance from nearest surface water Ptl. Lines excluded the state of the st	<sup>8</sup> Proposed	Bottom l	Hole Locat	ion If Differe	nt From S	urface			-				
" Work Type Cult	UL or lot no	Section	Township	Range			et from the	North/S	South line	Feet from the	East/We	est line	County
OIL    S			Informat										
Depth to Groundwater			epen	OIL			13 Cable/Rotary			S		4007	
Pt. Liner Synthetic   mils thick Clay   Pti Volume.   bbbs   Drilling Method   Fresh Water   Brine   Diesel/Oil-based   Gas/Air    2! Proposed Casing and Cement Program    Hole Size   Casing Size   Casing weight/foot   Setting Depth   Sacks of Cement   Estimated TOC    NO CHANGE   Sacks of Cement   Stimated TOC    MAR 0 4 2006   Sacks of Cement   Stimated TOC    MAR 0 4 2006   Sacks of Cement   Stimated TOC    Approved by Sacks of Cement   Stimated TOC    Approved Date   Date   Date    Approved Date   Date   Date   Date	1	NO			pth						<sup>20</sup> Spud Date		
Closed-Loop System	Depth to Grou	ındwater			Distanc	e from nearest	fresh water	well		Distance from	m nearest s	urface wa	iter
Hole Size Casing Size Casing weight/foot Setting Depth Sacks of Cement Estimated TOC  NO CHANGE  23 Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zones the blowout prevention program, if any Use additional sheets if necessary CHEVRON U.S.A. INC. INTENDS TO DEEPEN THE SUBJECT WELL INTO THE SAN ANDRES TRANSITION ZONE FROM 473\$4850, ACIDIZE AND RETURN TO PRODUCTION.  THE INTENDED PROCEDURE & WELLBORE DIAGRAM IS ATTACHED FOR YOUR APPROVAL.  Permit Expires 2 Years From Approval Date Unless Brilling Underway  23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines   a general permit   or an (attached) alternative OCD approved plan    Printed name UENISE PINKERTON  Title OC DISTRICT SUPERVISOR CENERAL MANAGER Approval Date WAR D S 2003 Expiration Date:													
Hole Size Casing Size Casing weight/foot Setting Depth Sacks of Cement Estimated TOC  NO CHANGE  23 Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zones the blowout prevention program, if any Use additional sheets if necessary CHEVRON U.S.A. INC. INTENDS TO DEEPEN THE SUBJECT WELL INTO THE SAN ANDRES TRANSITION ZONE FROM 473\$4850, ACIDIZE AND RETURN TO PRODUCTION.  THE INTENDED PROCEDURE & WELLBORE DIAGRAM IS ATTACHED FOR YOUR APPROVAL.  Permit Expires 2 Years From Approval Date Unless Brilling Underway  23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines   a general permit   or an (attached) alternative OCD approved plan    Printed name UENISE PINKERTON  Title OC DISTRICT SUPERVISOR CENERAL MANAGER Approval Date WAR D S 2003 Expiration Date:	<sup>21</sup> Propos	ed Casi	ng and C	ement Prog	gram							-	
22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone such program. If any Use additional sheets if necessary CHEVRON U.S.A. INC. INTENDS TO DEEPEN THE SUBJECT WELL INTO THE SAN ANDRES TRANSITION ZONE FROM 47354850, ACIDIZE AND RETURN TO PRODUCTION.  THE INTENDED PROCEDURE & WELLBORE DIAGRAM IS ATTACHED FOR YOUR APPROVAL.  Permit Expires 2 Years From Approval Date Unless Brilling Underway Date Unless Brillin							Setting Depth Sacks of Cement Estima					Estimated TOC	
22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone such program. If any Use additional sheets if necessary CHEVRON U.S.A. INC. INTENDS TO DEEPEN THE SUBJECT WELL INTO THE SAN ANDRES TRANSITION ZONE FROM 47354850, ACIDIZE AND RETURN TO PRODUCTION.  THE INTENDED PROCEDURE & WELLBORE DIAGRAM IS ATTACHED FOR YOUR APPROVAL.  Permit Expires 2 Years From Approval Date Unless Brilling Underway Date Unless Brillin	NO CHA	ANGE											
Describe the blowout prevention program, if any Use additional sheets if necessary CHEVRON U.S.A. INC INTENDS TO DEEPEN THE SUBJECT WELL INTO THE SAN ANDRES TRANSITION ZONE FROM 473\$4850, ACIDIZE AND RETURN TO PRODUCTION.  THE INTENDED PROCEDURE & WELLBORE DIAGRAM IS ATTACHED FOR YOUR APPROVAL.  Permit Expires 2 Years From Approval Date Unless brilling Underway  33 I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines, a general permit, or an (attached) reliternative OCD-approved plan  Signature  Printed name DENISE PINKERTON  Title OC DISTRICT SUPERVISOR CENTERAL FARNACTS  Approval Date WAR 0 6 2008 Expiration Date  E-mail Address leakejd@chevron.com												1	· · · · · · · · · · · · · · · · · · ·
Describe the blowout prevention program, if any Use additional sheets if necessary CHEVRON U.S.A. INC INTENDS TO DEEPEN THE SUBJECT WELL INTO THE SAN ANDRES TRANSITION ZONE FROM 473\$4850, ACIDIZE AND RETURN TO PRODUCTION.  THE INTENDED PROCEDURE & WELLBORE DIAGRAM IS ATTACHED FOR YOUR APPROVAL.  MAR () 4 2003  Permit Expires 2 Years From Approval Date Unless brilling Underway  33 I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines, a general permit, or an (attached) reliternative OCD-approved plan  Signature  Printed name DENISE PINKERTON  Title OC DISTRICT SUPPENISOR CENTERAL MARNACTS  Approval Date: MAR 0 6 2008 Expiration Date:  E-mail Address leakejd@chevron.com													
Describe the blowout prevention program, if any Use additional sheets if necessary CHEVRON U.S.A. INC INTENDS TO DEEPEN THE SUBJECT WELL INTO THE SAN ANDRES TRANSITION ZONE FROM 473\$4850, ACIDIZE AND RETURN TO PRODUCTION.  THE INTENDED PROCEDURE & WELLBORE DIAGRAM IS ATTACHED FOR YOUR APPROVAL.  MAR () 4 2003  Permit Expires 2 Years From Approval Date Unless brilling Underway  33 I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines, a general permit, or an (attached) reliternative OCD-approved plan  Signature  Printed name DENISE PINKERTON  Title OC DISTRICT SUPPENISOR CENTERAL MARNACTS  Approval Date: MAR 0 6 2008 Expiration Date:  E-mail Address leakejd@chevron.com													
Describe the blowout prevention program, if any Use additional sheets if necessary CHEVRON U.S.A. INC INTENDS TO DEEPEN THE SUBJECT WELL INTO THE SAN ANDRES TRANSITION ZONE FROM 473\$4850, ACIDIZE AND RETURN TO PRODUCTION.  THE INTENDED PROCEDURE & WELLBORE DIAGRAM IS ATTACHED FOR YOUR APPROVAL.  Permit Expires 2 Years From Approval Date Unless brilling Underway  33 I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines, a general permit, or an (attached) reliternative OCD-approved plan  Signature  Printed name DENISE PINKERTON  Title OC DISTRICT SUPERVISOR CENTERAL FARNACTS  Approval Date WAR 0 6 2008 Expiration Date  E-mail Address leakejd@chevron.com													
Permit Expires 2 Years From Approval Date Unless Brilling Underway Description  23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines a general permit of an (attached) alternative OCD-approved plan of an (attached) alternative OCD-approved plan of an internative OCD-approved plan of an internative OCD-approved plan of an internative OCD-approved plan of a general permit of an internative occurrence of the construct of a general permit of a general permit of a population of a populatio	Describe the blowout prevention program, if any Use additional sheets if necessary CHEVRON U.S.A. INC. INTENDS TO DEEPEN THE SUBJECT WELL INTO THE SAN ANDRES TRANSITION ZONE FROM 47354850, ACIDIZE AND												
Permit Expires 2 Years From Approval Date Unless Brilling Underway  23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines, a general permit, or an (attached) alternative OCD-approved plan  Printed name DENISE PINKERTON  Title REGULATORY SPECIALIST  E-mail Address leakejd@chevron com  Approval Date MAR 0 6 2008  Expiration Date	THE INTENI	THE INTENDED PROCEDURE & WELLBORE DIAGRAM IS ATTACHED FOR YOUR APPROVAL.											
Permit Expires 2 Years From Approval Date Unless Brilling Underway  23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines, a general permit, or an (attached) alternative OCD-approved plan  Signature  Printed name DENISE PINKERTON  Title REGULATORY SPECIALIST  E-mail Address leakejd@chevron com  Approval Date MAR 0 6 2008  Expiration Date	MAR o 4 2008												
Date Unless Brilling Underway  23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines, a general permit, or an (attached) alternative OCD approved plan  Printed name DENISE PINKERTON  Title REGULATORY SPECIALIST  E-mail Address leakejd@chevron com  Approval Date HAR D 6 2009  Expiration Date							AND Y						
best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines, a general permit, or an (attached) alternative OCD approved plan  Signature		Date	Unless-E	rilling Un Deede	de <b>rway</b> 20	7					JBL	CC	UCD
constructed according to NMOCD guidelines, a general permit, or an (attached) alternative OCD approved plan  Signature  Printed name DENISE PINKERTON  Title REGULATORY SPECIALIST  E-mail Address leakejd@chevron com  Approved by  Approved by  Title OC DISTRICT SUPERVICE ACCURATION Date  Expiration Date	l hereby cer	rtify that th	e information	n given above is	true and co	omplete to the			OII C	ONICEDUAT	CION D	плог	ON I
Approved by    Approved by	constructed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD approved plan .												
Printed name DENISE PINKERTON  Title OC DISTRICT SUPFRANCE CENTRAL MANAGER  Approval Date MAR D & 2008  E-mail Address leakejd@chevron.com						Appro							
Title REGULATORY SPECIALIST  Approval Date MAR D 6 2009  E-mail Address leakejd@chevron.com  Expiration Date	Muse Pinker ton						Mis Ilbert						
Title REGULATORY SPECIALIST  Approval Date HAR 0 6 2008  E-mail Address leakejd@chevron.com  Expiration Date	Printed name DENISE PINKERTON					Title (	Title OC DISTRICT SUPERVISOR MELTERAL FACTOR						
E-mail Address leakejd@chevron.com	Title REGULATORY SPECIALIST					Appro	val Date	MOA -				***************************************	
Date. 03-03-2008 Phone 432-687-7375 Conditions of Approval Attached													
	Date. 03-03-2008 Phone 432-687-7375					Condi	Conditions of Approval Attached						

VGSAU No. 42 API No. 30-025-02245 Vacuum (Grayburg-San Andres) Field Lea County, NM

## Workover Procedure

- 1. Rig up pulling unit. Kill well. ND wellhead. NU BOP.
- 2. TOH w/ 2-7/8" production tubing and ESP.
- 3. TIH w/ 6-1/8" mill tooth bit and 6 3-1/2" drill collars on 2-7/8" workstring.
- 4. Rig up reverse unit and power swivel.
- 5. Run to bottom and clean out fill to 4735'. Circulate hole clean. Continue drilling to 4740' to insure that any downhole metal has been removed. TOH.
- 6. TIH w/6-1/8" button bit and 6 3-1/2" drill collars on 2-7/8" workstring.
- 7. Drill new open hole section to 4850'. Circulate hole clean. TOH.
- 8. Rig up logging truck. Pull GR-CNL-CCL log from 4850' to 2850'. Correct depth to be on depth with Dresser-Atlas GR-SWN log dated 5/4/72.
- 9. TIH w/ SN on 2-7/8" workstring to 4850'.
- 10. Drop Vortech pulsating sub in seating nipple.
- 11. Acidize open hole interval from 4735' to 4850' w/ 4,000 gallons 15% HCl. Obtain pulsating sub treating depths from Technical Team. TOH.
- 12. TIH w/7" treating packer on 2-7/8" workstring and set at 4075'. Perform scale squeeze. TOH.
- 13. TIH w/ ESP on 2-7/8" production tubing. ND BOP. NU wellhead.
- 14. Return well to production.

PTB 2/29/08

## VGSAU #42 Wellbore Diagram

Field: Vacuum Grayburg Surf. Loc.: 330' FNL 8 Bot. Loc.:  County: Lea Status: Active	By: SMG By: BSPT g San Andres Unit g San Andres Unit g San Andres Unit St.: NM Oil Well	Well #: API Unit Ltr.: TSHP/Rng: Unit Ltr.: TSHP/Rng: Directions: Chevno:	42 St. Lse:  30-025-02245  G Section: 1  S-18 E-34  Section:  Buckeye, NM  FA3406
Surface Casing           Size:         13 3/8"           Wt., Grd.:         40#, LW           Depth:         301'           Sxs Cmt:         275           Circulate:         Yes           TOC:         Surface           Hole Size:         9 5/8"           Wt., Grd.:         40#, SMLS           Depth:         1544'           Sxs Cmt:         350           Circulate:         No           TOC:         660' (calc @ 60% 6           Hole Size:         7"           Wt., Grd.:         24#, SMLS           Depth:         4128'           Sxs Cmt:         250           Circulate:         No           TOC:         2700' (calc @ 60%           Hole Size:         No           Open Hole         4,735'           Hole Size:         6 1/4"           Tubing         2 7/8" J-55           2 7/8" J-55         3,690' 131 jts.	では、 では、 では、 では、 では、 では、 では、 では、	735	KB: 4002' DF: 3998' GL: 4007' Ini. Spud: 9/17/1937 Ini. Comp.: 11/22/1937  History  1//37 Initial Completion: Natural OH?  5/72 Despen: Deepen w/ bit to 4690' 1/72 Frac: Set OH pkr @ 4343. Frac 4343' 1690'. 3 stages w/ 500 gal acid, 3000 gal gelled oil, 8 3000 gal gelled oil w/ 1ppg 10/40 sand per stage. 1//80 Sqz - Isolate Salt Zone: Perf 2 js @ 1569' & sqz 9 5/8" X 7" ann w/ 475 sx cmt 12 js @ 1385', D/O to 1590, sqz w/ 75 xx, 7" held 800# 1/83 Acidize: Acidize OH w/ 4000 gal 15% 18 FFE. 1000# RS, & 500# BA flakes, Re- 16 Cledize w/ 2000 gal 15% NEFE, 1000# RS, 12 Sourment TD), Spot converter, pump 10000 gal 15% NEFE w/ 7900# RS 1/96 Acidize: Pump 14000 gal 15% NEFE cid in 3 stages w/ 8000# RS. SIS. 1/97 Frac: Drop sand & Calseal in OH to 380'. SIS. Frac 4128'-4383' w/ 20000 gal 31. gel & 59220# 16/30 RC sand 1/01 Acidize: Acidize entire OH w/ 8000 gal 5% NEFE in 3 stages w/ 4000# RS 1/03 Acidize: Acidize entire OH w/ 8000 gal 5% DAD w/ 4000# RS. SIS.

