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 May 27, 2
Oil Conservation Division

May 27, 2

Sulphir to appropriate District Of

1220 South St. Francis Dr. Santa Fe, NM 87505 MAY 2 7 2003

☐ AMENDED REPC

Form C-

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DESIGNODO

PLUGBA	ACK, O	R A	DD	A ZONE	o Diui	, x	SE E 11	ı Lıı,		IUL)		
¹ Operator Name and Address								² OGRID Number							
CHEVRON U S A INC 15 SMITH ROAD								4323 API Number							
MIDLAND, TEXAS 79705										30 - 025-30					
³ Property Code ⁵ Property ACLILIM GRANDING															
30022 VACUUM GRAYBURG 9 Proposed Pool 1							TBUNG	G SAN ANDRES UNIT 143 / 10 Proposed Pool 2							
VACUUM GRAYBURG SAN ANDRES										110	Jos cu 1 00				
Surface Location															
UL or lot no H	L or lot no Section Town H 1 18-S		nship Range 34-E		- Lot Idn		Feet from the 1980		North/South line NORTH				est line	County	
8 Proposed	Proposed Bottom Hole Location If Different From Sur				urface	l urface									
UL or lot no			Range			···		North/South line		Feet from the East/West line		est line	County		
Additiona	al Well	Infor	mati	ion											
	Type Code		mai	12 Well Type Co	ode		13 Cable	e/Rotary 14 Lease Type Code 15 Ground Level I				nd Level Elevation			
	D			0							S		3983'		
	iultiple NO			¹⁷ Proposed Dep 5000'	oth	18 Formation GRAYBURG SAN A			ORES	19 Contractor			²⁰ Spud Date		
Depth to Grou	ndwater				Distance from nearest fresh						Distance from	stance from nearest surface water		ter	
	Synthetic			ıls thıck Clay	☐ Pit Vo	olume _	bbl								
	d-Loop Sys	tem _	<u>」</u> ——						<u>Fr</u>	esh Water	Brine Di	esel/Oıl-b	ased [] (Gas/Air 🔲	
²¹ Proposed Casing and Cement Program															
Hole Size			Casi	ng Size	Casing weight/f		t/foot	oot Sett		epth	Sacks of Cement		Estimated TOC		
								<u> </u>							
										-					
											<u> </u>		- 		
												,	-		
22 Describe th	ne proposed	progra	ım. If	this application	ıs to DEEF	PEN or	PLUG BA	ACK, giv	e the data	a on the pr	esent productive z	one and p	proposed n	ew productive zo	
Describe the	biowout pro	eventio	n pro	gram, if any Us	e additiona	l sneets	if necess	ary							
CHEVRON U	SA INC	INTEN	NDS T	O ADD PERFS	IN THE LO	OWER	SAN AN	DRES &	SAN AN	NDRES TE	RANSITION ZON	E. ADDI	NG THE	Z PERFS WILL	
1A CO2 EXP	ANSION P	ROJEC	TOF I	IBERGLASS L	ESANDIN	G EQP	T & DRII	LLING (MIFR	47904900	. THIS WELL WO	ORK IS P.	ART OF T	HE VGSAU PH.	
THE INTEND	DELD BBOC	ומוורום	E IC A	TTACHED EO	א מנוסע מ	. DDD ()	17 A T	1	Domm. 1	A 117. a					
THE INTENDED PROCEDURE IS ATTACHED FOR YOUR APPROVAL							VAL	Permit Expires 2 Years From Approval Date Unless Design Transport							
A PIT WILL I	NOT BE U	SED FO	OR TI	HIS DEEPENIN	G			Date Unless Dritting Underway Deepen							
											nee	per) ~ _		
²³ I hereby cer	tify that the	ınforn	nation	given above is	true and co	mplete	to the		··						
best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines \Box , a general permit \Box , or						OIL CONSERVATION DIVISION									
an (attached) alternative OCD-approved plan .							Approved by								
Signature () 14 150 () 12 Key form							This William								
Printed name DENISE PINKERTON															
Title. REGULATORY SPECIALIST								Approval Date VIAY 2 8 20 (1) Repiration Date.							
E-mail Address: LEAKEJD@CHEVRON COM									2012	<u>-</u>	<u> υ ευψυ</u>				
Date05-23-2008 Phone 432-687-7375						Conditions of Approval Attached									

VGSAU No. 143 API No. 30-025-30844 Vacuum (Grayburg-San Andres) Field Lea County, NM

Workover Procedure

- 1. Rig up pulling unit. ND wellhead. NU BOP.
- 2. TOH w/ 2-7/8" production tubing and submersible pump.
- 3. TIH w/ 6-1/8" shoe, 2 joints wash pipe, jars and 6 3-1/2" drill collars on 2-7/8" workstring.
- 4. Rig up reverse unit and power swivel.
- 5. Wash over fiberglass de-sanders from 4612' to 4733' and pull out of the hole. Note: The casing is perforated at 8+ JSPF between 4389 and 4409'. The casing across this interval may be non-existent. TOH.
- 6. TIH w/6-1/8" mill tooth bit and 6 3-1/2" drill collars on 2-7/8" workstring. Drill out scale and cement to 4900'. Note: Original PBTD was 4790'. Assume that cement will be encountered from 4790' to 4900'. Circulate hole clean. Spot 500 gallons 10% acetic acid from 4900' to 4650'. TOH.
- 7. Rig up Baker Atlas. Get on depth with Halliburton GR-Depth Control Log dated 9/18/1996; there is a possible short (?) joint from 4097' to 4116'+.
- 8. Perforate the 7" casing w/ 2 JSPF @ 120 degree phasing as follows: 4658'-72', 4676'-92', 4696'-4708', 4710'-16', 4720'-24', 4726'-36', 4740'-49', 4756'64', 4767'-72', 4774'-81', 4786'-99', 4810'-20', and 4824'-4844'.
- 9. TIH w/7" treating packer on 2-7/8" workstring and set at 4640'. Acidize perfs 4658' 4844' (134' net) w/7,000 gallons 15% HCl in 4 stages. Drop rock salt for diversion. Pump acid at 5-7 BPM. Do not exceed 5000 psi maximum pressure. If packer will not set in casing, TOH w/ packer and TIH w/ open ended workstring with Vortech pulsating bit sub and acidize.
- 10. Shut in one hour. Flow back load. TOH.
- 11. Rig up Baker Atlas. Perforate the 7" casing w/ 2 JSPF @ 120 degree phasing as follows: 4534'-40', 4546'-60', 4563'-72', 4581'-88', 4590'-94', 4599'-4608', 4624'-30', and 4638'-40'.
- 12. TIH w/ 7" RBP and treating packer on 2-7/8" workstring. Set RBP @ 4650'. Pull up and set packer at 4480'.
- 13. Acidize perfs 4492' 4640' with 3,000 gallons 15% HCl in two stages. Drop rock salt for diversion. Pump acid at 5-7 BPM. Do not exceed 5000 psi maximum pressure.
- 14. Shut in one hour. Flow back load.
- 15. Squeeze perfs with scale inhibitor.
- 16. Release packer. Drop down and release RBP. TOH.
- 17. TIH w/6-1/8" mill tooth bit on 2-7/8" workstring and wash down to 4900'. TOH.
- 18. TIH w/ submersible pump on 2-7/8" production tubing.
- 19. ND BOP. NU wellhead.
- 20. Place well on production and test.

PTB 5/20/08

VGSAU #143 Wellbore Diagram

Created:	05/17/05	Ву:	MAB		Well #:	143	St. Lse:	857948
Updated:	12/20/07	By:	BSPT		API		30-025-3084	
Lease:		rayburg San An			Unit Ltr.:	н	Section:	1
Field:		rayburg San An			TSHP/Rng:		S-18 E-34	
Surf. Loc.:	1980	' FNL & 1250' F	<u>EL</u>		Unit Ltr.:		Section:	
Bot. Loc.:					TSHP/Rng:			
County:	Lea	St.:	NM		Directions:		Buckeye, NIV	1
'Status:		Active Oil Well			CHEVNO:		KV1728	·
Surface Co	aina	Gerera	n 19a2 (99) 93	 	. 20121 1 120 . 134 151 mill	1	KD.	00001
Surface Ca Size::			34 (13)				KB:	3996'
	13 3/8"	7414 1114		1 1			DF:	20001
Wt., Grd.:	48 & 54.5#						GL:	3983'
Depth:	1560'						ini. Spud:	
Sxs Cmt:	1700	li ii ii					Ini. Comp.:	09/17/90
Circulate:	180 sx							
TOC:	Surface					History		
Hole Size:	17 1/2"	1111					al Completion: Per	
		11 10 11 10 11 10	100			1	6-48, 64-72, 92-96 2. 72-76, 4614-24.	
Intermediat						•	% NEFE. Set RB	
Size:	9 5/8"			ŀ			208-18, 4330-34, 4	
Wt., Grd.:	36#, K-55						0-82, 84-86, 91-93	
Depth:	2800'	N.				1	, 08-10, Acid w/ 42	200 gals
Sxs Cmt:	1570			i l		I .	TOH w/ RBP. :_ C/O to 4768'. Dr	on sand to
Circulate:	510 sx						SA). Peri 8 jspf 4:	
TOC:	Surface						es, 0 45"). Fractur	
Hole Size:	12 1/4"						w/ 35,000 gls 40#	
							wa & 24,000# 16/	
Production	_					4790'	1583 psi, AIR=35 t	opm. C/O to
Size:	<u> 7" </u>	ı					Acidize: Pump fi	all of scale &
Wt., Grd.:	26#, J-55					iron. C/O; ac	id (vol?) and sque	ecze.
Depth:	5000'			1 1		9/7/04 Acidiz	e; TOH w/ tbg dra	igging TAC
Sxs Cmt:	900	,					erfs. Left 2- 3 1/2	
Circulate:	30 sx						32"). TIH w/ shoe.	
TOC:	_Surface						o 4672'. Tried to c luck @ 4673' Cou	
Hole Size:	8 3/4"						/ pkr @ set @ 411	
			1,545				6.HCl acid. ISIP=\	
Perforations						Swab load b		
4208' - 4410			1000	1 1			Acid ze Pulled Pu	•
4389' - 4409	9′ 8 jspf		130				TIH w/ bit + bailer I bit. Ran pkr. Pun	
4429' - 4624	4' 2 jspf						kr. C/O rock salt.	iped 2000
			1,000				,	
`Tubing								
2 7/8" L-80	6.4# [.] @4501'		1, 1					
			20114	.	11 150			
Submersible			\$ 02 4%		0.00 P	San Andre	s Perfs: 4208	' - 4624'
4501' - 4536	5'		116 51 11		(git gir)	,,		• •
			10 H*10 H		4 500			
			L Fair L	() () () () () () () () () ()	en in			
				Mall:	2112		Desander @ 4	
						Bottom of	FG Desander	@ 4733'
			nore). 4 700				
			PBIL	D: <u>4,790</u>	-			

TD: 5,000

Chevron U.S.A. Inc. Wellbore Diagram: VGSAU 143

