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
Oil Conservation Division

May 27, 2 an propriate District Of

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

JUN D A 2008

☐ AMENDED REPC

Form C-

	ATION	FOR	PERMIT T D A ZONE	O DRII	LL, RE		cR, DEE		OBBS			
	`	Operator Nam CHEVRON 15 SMITE	USA INC			² OGRID Number 4323						
		MIDLAND, T	EXAS 7970	05		³ API Number 30 – 025-24365						
³ Prope	erty Code			⁵ Property VACUIJM GRAYBURG				y Name S SAN ANDRES UNIT		6 Well No.		
		VACUUM	⁹ Proposed Pool 1 1 GRAYBURG SA	N ANDRES	3				10 Proj	posed Pool 2		
⁷ Surface												
UL or lot no Section Township H 2 18-S		p Range 34-E	34-E		Feet from the 1330		outh line H	Feet from the	East/West la EAST	ne County LEA		
	Bottom I	lole Loc	cation If Differe	nt From S	Surface					<u> </u>		
UL or lot no	Section	Townshi	p Range	Range Lot 1				South line	Feet from the	East/West	line County	
Additiona	al Well	Inform										
¹¹ Work Type Code D			INJECTOR	12 Well Type Code INJECTOR		¹³ Cable/Rotary			14 Lease Type Code S		15 Ground Level Elevation 4003°	
¹⁶ Multiple NO			¹⁷ Proposed De 4840'	17 Proposed Depth 4840'			n S/A		19 Contractor		²⁰ Spud Date	
Depth to Grou	ındwater			Distance	e from near	est fresh wa	iter well	<u> </u>	Distance from	m nearest sur	face water	
	Synthetic d-Loop Sys		mils thick Clay	Pit V	olume	bbls		rilling Me esh Wate	thod r Brine Di	esel/Oıl-base	d ☐ Gas/Aır ☐	
²¹ Propose	ed Casii	ng and	Cement Prog	gram								
Hole Size			Casing Size		Casing weight/foot		Setting Depth		Sacks of Co	ement	Estimated TOC	
NO CHA	NGE											
CHEVRON U CURRENTLY WITH 4000 G	blowout pro SAINC ASANA SALS 15%	evention I INTEND NDRES I HCL	orogram, if any Us S TO DEEPEN TH	se additiona HE SUBJEC D COMPLE	il sheets if i CT WELL I	necessary INTO THE	SAN ANDR 50 BWPD T	es trai he new	NSITION ZONE FR PERFS & OPEN I	COM 4788-48 HOLE SECT	posed new productive zo 840 THE WELL IS ION WILL BE ACIDIZ	
			& WELLBORE DI		S АТТАСН	IED FOR Y	D)	ate Oi	iless Drilling Dees	HUnderv Pen	vay	
²³ I hereby certify that the information given above is true and complete o the best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines \(\Bar{\Bar}\), a general permit \(\Bar{\Bar}\), or an (attached) alternative OCD approved plan \(\Bar{\Bar}\). Signature:							OIL CONSERVATION DIVISION Approved by					
Printed name	INKERT	ON	<u> </u>		Tıtl	Title: PETROLEUM ENGINEER						
Title REGUL.						Approval Date JUN 1 1 2008 Expiration Date						
E-mail Address leakejd@chevron.com Date 06-02-2008 Phone 432-687-7375							,					
Date 06-02-2	UUX		☐ Phone 432-6	5X7-7375		Cor	ditione of A	annoval A	ttoohod			

VGSAU 47 API No. 30-025-24365 Vacuum (Grayburg San Andres) Field Lea County, NM

Procedure to: Remediate Casing, Deepen, Perforate and Stim

Note: Subject well failed an MIT test on 10-5-07. WO in August 2004 found and squeezed holes from 377 to 439'.

- 1. MIRU PU & RU. Pump 25 bbls 10# BW down tbg, take SI pressure and calculate kill weight fluid. Kill well as nec. ND WH. NU BOP & Envirovac.
- 2. Unset pkr & POOH w/ tbg & pkr. Truck off Duoline tbg.
- 3. MI Baker Atlas to run MicroVertilog from 4230' to surface.
- 4. TIH w/ 4 1/2" RBP and set @ ~30 ft. Test csg to 500#. ND BOP. Replace Larkin WH w/ slip-type WH. Test WH. NU BOP. GIH, latch onto RBP and TOH.
- 5. Consult with Technical Team about casing remediation.
- 6. After successfully testing the casing, TIH w/ 3 7/8" MT bit, 6 3 1/8" DC on 2 3/8" WS. D/O fill & cmt to new PBTD of 4840'. Circ clean with 10# BW. POOH w/ WS, DCs & bit. NOTE: The latest maximum depth recorded with a drill bit was +/- 4784' in September 2004. Fill was tagged at 4764' in July 2005. Getting to PBTD will require drilling out the float shoe. If casing is collapsed, POOH w/bit and GIH w/ 3 7/8" cone buster mill to C/O. If the casing still continues to "fall in" use a casing roller to swedge out the casing.
- 7. MI Baker Atlas to perforate the following intervals w/ 3 1/8" slick guns w/ 2 DP JSPF 120 phasing. Tie into The Western Company Gammatron Log dated 4/2/1973 for depth control. A short joint is located at 4239-4260. Perf intervals are:

4294-4298, 4312-4320, 4323-4328, 4354-4366, 4460-4470, 4482-4488, 4490-4496, 4556-4564, 4639-4648, 4664-4681, 4719-4724, 4740-4742, 4750-4756, 4760-4766, 4770-4780, 4785-4795

- 8. TIH w/ SN on 2 3/8" workstring to 4840'.
- 9. Drop Vortech pulsating sub in seating nipple.
- 10. RU Halliburton to acidize new perfs and open hole from 4294' to 4840' w/ 4,000 gallons 15% HCl. Obtain pulsating sub treating depths and volumes from Technical Team. TOH.
- 11. TIH w/ new Fiberline injection tbg & pkr w/ On-Off tool. Set pkr @ +/- 4204' w/ 10 pt compression. Space out. Release from On-Off tool, circ hole with 10 ppg pkr fluid. Latch back onto On-Off tool & land tbg hanger. ND BOP. NU WH. Run MIT for OCD.
- 12. Hookup injection lines. Clean location. RDMO PU & RU.
- 13. Turn well over to production department.
- 14. Run injection profile.

BAS 5/27/08

VGSAU #47 Wellbore Diagram

Created:	<u>05/18/04</u> By: SM0		Well #.	47 St. Ls	e: 857948
Updated:			API	30-025-243	365
Lease:	Vacuum Grayburg San Andres	Unit	Unit Ltr.:	H Sectio	n: 2
Field:	Vacuum Grayburg San Andres	Unit	TSHP/Rng:	S-18 E-3	4
Surf. Loc.:	1330' FNL & 10' FEL		Unit Ltr.:	Sectio	
Bot. Loc.:			TSHP/Rng:		
County:	Lea St.: NM		Directions:	Buckeye, f	JM
Status:	Active Injection Well		Chevno:	FH0890	
		······································	Onovio.	1110030	
Curfo on Co.		1		-	_
Surface Cas	L'afife)	T		KI	***************************************
Size:	8 5/8"			DI	***************************************
Wt., Grd.;	20#, K-55	.,		G	
Depth:	<u>355'</u>			Ini, Spů	d: 03/24/73
Sxs Cmt:	300			Ini. Comp	: 04/04/73
Circulate:	Yes	議員			
TOC:	Surface Sqz holes	1111分	*	History	
Hole Size:	12 1/4" f/ 377 - 439'	1"		4/73 Ini Comp: Perf 2 jspi 4	361, 93, 4407.
		1 1		16, 28, 51, 65, 75, 85, 4500	
Production	Casing	1 1		62, 69, 75, 89, 94, 4620, 24	
Size:	4 1/2"			77, 4708, 19, 29 & 39, acid	ze w/ 6000 gals
Wt., Grd.:	9.5#, J-55 Tight Spot			20% NEA.	
Depth:	4800' @ 1060-75'			7/82 CT CO: Washed perfs 15% NEFE using CT unit	with 1000 gals
Sxs Cmt:	600			6/90 CO, Perf, Acid: Swage	tight snot in cea
Circulate:	No			@ 1075'. Rpr WH. CO to 48	
TOC:	2460', CBL			4403-12, 20, 34, 46, 55, 96	
Hole Size:	7 7/8"	1		58, 81, 85, 4616, 46 and 47	12 (32 holes).
noie Size.	1 1/6	Co. 8	0.5.4	AC all perfs w/ 6000 gals 15	
m				stages w/ 3K# RS & 46 BS.	
Perforations				9/92 CO, Acid: CO to 4789	
4360'-4739'				gals 20% NEFE w/ 3K# RS	& 144 BS, Set
				pkr @ 4250, Test csg ok, 8/96 CO, Acid: CO fill from	1222' (0. 1700'
		1, 14 1, 14	打造	(PBTD)w/ 3 7/8" bit. Acidize	
				4361'-4739' (92 holes) with	
		right.		NEFE in 4 stages w/ 5000 #	
				block). Pkr @ 4230. Test cs	
		1 ha		8/04 MIT, CO, Perf, Acid: Ta	agged @ 4246'
			(17)	w/bit. Attempt to find holes	in 4 1/2" csg w/
				RBP & pkr? Set RBP @ 423	
		133		in 8 5/8" near WH by diggin	
		131 k új 151 i		Pump 125 sx cmt down 4 1/	
	4	[1]		DO cmt. TiH w/ 3 7/8" bit an (scale, iron sulfate) Perf 4 j	
		[1]		& re-perf 4400'-4440' (200 h	
				4207. AC 6000 gls 15% NE	
		清 点		(good block). Set RBP @ 42	07. Find holes f/
				377-439' w/ pkr. Sqz w/ 105	sx. Run CBL.
				Sqz w/ 100 sx. Test csg to 3	150# ok.
13	2 jts. 2 3/8" J-55 Duoline tbg			7/05. Tagged @ 4764'.	
	,	1		10/5/2007. Failed MIT pre-to	SI
4 1	/2" NP Loc-Set Pkr @ 4204'				
, ,			==		
	3		===		
			. Litt		
	ļ		4		
		PBTD: 4,788			
		TD: 4,800	<u>) </u>		

