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 1220 South St. Francis Dr.

Santa Fe, NM 87505

t

Form C-101 May 27, 2004

Submit to appropriate District Office

AMENDED REPORT

APPL	ICATI	ON FC	R PERMIT	TO D	RILL, RE-I	ENTE	R, DF	EEPEN	, PLUGB	ACK,	OR AD	D A ZONE
			¹ Operator Name CHEVRON U	.S.A. INC.	SS				4323	² OG	RID Numbe	r
			15 SMITH MIDLAND, TE		5				30-025-		PI Number	
[°] Prope	rty Code		,	VACIUI	' Property		DECID	NIFT .	50 025			ll No. 3
30022								N11			-	3
		VACIDA	⁹ Proposed Pool 1	NINDEC					¹⁰ Pi	oposed Po	ool 2	
		VACUUN	GRAYBURG SAN	ANDRES	⁷ Surface	Locatic						
UL or lot no.	Section	Township	Range	Lot I	·····	<u> </u>		Feet from the Ea		East/West line County		
P	1	18-S	34-E		66			ЛН	660'		EAST	LEA
			⁸ Propo	sed Botte	om Hole Loca	ion If Di	ifferen	t From S	urface			· · · · · · · · · · · · · · · · · · ·
UL or lot no.	Section	Township	1	Lot 1	T			outh line	Feet from the	East	t/West line	County
I	1	18-S	34-E		255	·		лн	400'		EAST	LEA
¹¹ Work	Type Code	- 1	¹² Well Type Co		ditional We	Rotary	matio		Lease Type Code		¹⁵ Grou	und Level Elevation
	D HOM	2000/2				ARY			S		010	3984' GL
	ultiple NO	7	¹⁷ Proposed Dep 6366'	th		mation NDRES			¹⁹ Contractor			²⁰ Spud Date 10-15-2005
Depth to Grou				Distanc	e from nearest free		ell		Distance f	tom neare	est surface w	
-										Tomneare		
	: Synthetic		mils thick Clay	_	olume:bbl	S		illing <u>Meth</u>				
Close	d-Loop Sys	tem 🔟	SEE ATTA 21			10		resh Water		Diesel/O	il-based	Gas/Air
				Propos	sed Casing a	nd Cen	nent	Progran	n T			
Hole S		C	asing Size	Casing	g weight/foot	Setting Depth			Sacks of	Cement		Estimated TOC
NO CH	ANGE_											
									<u> </u>			
							the dat	a on the pr	esent productiv	e zone an	d proposed	new productive zone.
Describe the	blowout pro	evention p	rogram, if any. Us	e additiona	al sheets if necess	ary. Georffr	on /	Koorov		1		•
			P	BULLE Date	Expires 1 Y Unloes D A	rillina (Jinda	atw ≋y	•	2		
KICK OFF P				66 49-6	λ.		1	(· \
BOTTOM O	F WINDOW	/ - 4139'			H	oriza	onto	21		4	: โกลามีของ	<u>د.</u> ا
TARGET IN LENGTH OF			9,							v	1999 - 1999 1997 - 1999 1997 - 1999	80/ col
									/		9 (#)	211
									ì			and the second second
											1 1.81	a series and the
			ion given above is						ONSERV			ION
best of my kr	owledge an	d belief. I	further certify th D guidelines 🗹, a	at the dril	ling pit will be					-	<u>- 21 A 171 -</u>	
			pproved plan [].	i general p	ermit, or	Approve	ea by:		31			
Printed name	DENIOT	DINTER	TON A MAN	ز () پ	Karles	Tieler	/2		<u> <u> </u></u>	PI	TROLE	UM ENGINEER
				\mathcal{N}	13 (TIT)	Title:	al Dett	· · · · · ·		E	ion Det	
Title: REGU						Approva		ct 0 a	3 2005	Expirat	ion Date:	
		JD@CHE	VRON.COM									
Date: 9-21-2	.005	17. J.B.	Phone: 432-	687-7375		Conditions of Approval Attached						

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

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised June 10, 2003 Submit to Appropriate District Office State Lease 4 Copies Fee Lease 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number ² Pool Code							³ Pool Na	me Jey	281.85	
3	0-025-02260									
⁴ Property (Code		•		⁵ Property N	Name		Vell Number		
30022				VACU	UM GRAYBURG S	AN ANDRES UNIT			13	
'OGRID I	No.				⁸ Operator 1	Name			'Elevation	
4323					CHEVRON U.S	.A. INC.			3984' GL	
	¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Р	1	18-S	34-E		660'	SOUTH	EAST	LEA		
			¹¹ Bot	tom Hole	e Location If	Different From	m Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
I	1	18-S	34-E		2550'	SOUTH	400'	EAST	LEA	
¹² Dedicated Acres	¹³ Joint or	r Infill ¹⁴ C	onsolidation	Code ¹⁵ Ore	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			¹⁷ OPERATOR CERTIFICATION
			I hereby certify that the information contained herein is true and complete
			to the best of my knowledge and belief.
			Signature
			DENISE PINKERTON
			REGULATORY SPECIALIST LEAKEJD@CHEVRON.COM
			Title and E-mail Address
			9-20-2005
			Date
		BH. \$400'	¹⁸ SURVEYOR CERTIFICATION
		Ŷ.	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
		A	that the same is true and correct to the best of my belief.
		25.30	
			Date of Survey
			Signature and Seal of Professional Surveyor:
		CUL	
) 🔴 660'	
		, o	Certificate Number
		(0 lb D)	
1999-1999-1999-1999-1999-1999-1999-199	•	VV	

453SADR Structure Map





Displacement (ft)	Target (ft)	Target Box (number)	Existing well loc. (surface)	Proposed BH location	Elev. KB	Elev. GL	Perforations Top-Bottom	Begin (Lateral Box Target)	End (Lateral Box Target)	Azimuth	Total displace ment
200	-535	1	18S, 34E, sec 1,	18S, 34E, sec 1,	_ 3994	3984	open hole	4612'	4732'	10 (N 10°E)	~1900'
300	-535	2	660 FSL, 660 FEL	~2550 FSL, 400 FEL	_		(4154-4712')			This is just estimate	
500	-502	3								See map. Should	
700	-472	4								avoid deviation	
1000	-430	5	long:-103.5074905	BHL from footage cal	ls is just	an esti	mate			circles of offsets	
1300	-395	6	lat: 32.7715404	Priority is as straight a	as possi	ble pat	th				
1600	-350	7									
1700	-345	8	X: 795175.7								
1900	-343	9	Y: 645408.7								

NOTES:

* KOP ~ 4142' (as defined here 3 ft below BOW). Will try to set CIBP @ 4148'

* TOW: 4131' BOW: 4139'

The * Beginning Lateral Box Approx. 200' from wellbore.

W * Total displacement measured from vertical wellbore.

* Depths are SS from KB from the vertical wellbore.

 \gtrsim * Target tolerance is plus or minus 3' from the referenced target value.

* End of Casing @ 4154', below 4154' is open hole. We intend to drill the window in the casing.

Please see map for details

* PASON data requested

* Production casing set @ 4154'

* Casing collars at 4089 and 4121'



CHEVRON U.S.A., Inc. Well Proposal Data Sheet

Well Name:	VGSAU 13H	Field/Area:	Vacuum / New Me	xico Date:	9/12/2005	
Surf. Loc. :	18S, 34E, sec 1, 66	0 FSL, 660 FEL		County/State:	Lea, New Mexic	
Shot Pt. for S	urf. Loc.:			Authorized TD:		 ID
B.H. Target:	18S, 34E, sec 1, ~ 2	2550' FSL, 400' FEL	@ TVD	Actual Est. TD:	м	D
Shot Pt. for B	.H. Target: Estimate	ed lateral length ~1900'		Actual Est. TD:	1	TVD
CIBP:	4148'					A252627282
K.O.P:	4142'					132
T.O.W:	4131'				,	
B.O.W:	4139'					SEP 2005
Landing Point	t: (-545) 4539 max					ND ND ND ND ND ND ND ND ND ND
Target Interva	al: (-545 to -343) 4539	to 4337				De Hobbe
Perforations:	Open Hole from 41	54 - 4708 (See Current Wellt	ore Diagram)		in the second	
		(based on 3994' KB Original	hole)			Fe O
Vertical Sect		ical well VGSAU #13)				SIX. 168
For	mation MD	Subsea	Formation	TVD	Subsea	12121100
Grayburg Mar	ker 4,28	36 -292				
GB Dolomite 1	Top 4,4*	14 -420				
San Andres	4,58	36 -592				
Lower San An	dres Porosity 4,84	42 -848				
·						
DST's (incl any special re	equirements):	PASON unit requested	······································			
Cores (incl est. cost for a	nalysis):	None	·······			
······································	Anticipated Completion	Intervals:	Other Potenti	al Pay Zones: (from the	e curve)	
Formation	Depths	Pressures	Formation	Depths	Pressure	25
Upper San Andres	(-545 to -343) 4539 to 4337	normal				
Type of Logs (incl sidewa	Il cores) and Est. Tota	Cost: No open hole				
				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Run # 2 (logs	& intervals):					
Run # 3 (logs						
Possible Drilling Hazards	(High press, lost circ,	H2S, deviation, etc.):	Water Streaks from	n Injectors. Chance o	f some CO2 fror	n CVU
Remarks (Special well, p Open Hole L		completion or location requin	ements, etc):			
	NM R State #15, #24	, #25, VGSAU #68				
Base Fresh Water:		By: Water Board Letter/O	ther (Specify)			
Rule 37/Unorthodox Loca	tion?: YES / <u>NO</u>	Date Regulatory Approval	Expected?:			
Required height of tubing	spool above GL:		Offset Well Data Av	ailable? <u>YES</u> / N	0	
Required Xmas tree size	& pressure rating:	Drilling decides	Completion Type (F	lwg/Type Art Lift):	Artificial Lift	
			Prep by:			9/13/2005



API #	30-025-02260
Lease:	B-1306



123

► TOC @ <u>2,492</u> ft

4,154

4,712

558

6 1/4"

ft

ft

ft

Open Hole:

Size:

Total

Size:

PBTD @ _____ 4712

Bot. Perf:

Casing Problems:

Depth

0-863

0-863

Depth

0-4150

Depth	Date	Comment
6	Aug-93	Leak at the wellhead
2256'-2277'	13-Jul-84	Squeezed w/ 500 Sx class "C" cement.
		Tested for 30' @ 600# and held OK.

Zones			
Top	Depth	Interval	Comment
GB Marker	4,286		
GB Dol Top	4,414	58	
GB Dol Bott	4,472	46	
San Andres	4,518	158	
LSA	4,676	36	
PBTD	4,712		
O/W			
TOTAL		298	

Original Size wellbore was 4 3/4" from 4154' to 4680'. It was deepened in August 1984 to 4708'. In June-1995 it was underreamed to 6 1/4" from 4214" to 4712".

PRODUCTION COMMENTS

- 13-Feb-03:	Oil production dropped about 10-20 bopd lat october 2002. This could be either pump or wellbore. Last June-2002 they ran a new
	pump, so it should be still in good conditions. In general terms the total production has been going up and down, so it is recommended to do
	a clean out run as a preventive measure.

TD: <u>4,708</u> ft Last BHP: _____ psi

INJECTION COMMENTS

- 13-Feb-03:	Water production picked up about 300 bpd when CVU 134 bumped its rate to over a 1000 bpd. At the same time water production was
	declining at the beginning of 2002 because of VG 20. The Operator reported that this well never declined injection and that the
	meter was giving a false reading making it look like ZERO injection.

WORKOVER RECOMMENDATIONS:

- 13-Feb-03:	Tag	for fil	l and	clean	out i	f the 50) feet	rat h	ole b	elow	the p	oump	does not exist.	
								-	_			_		

Monitor closely Fluid levels since We have had quite a few changes around the area.

		- 138 · · ·		
<u>District I</u> 625 N. French Dr., Hobbs, NM 88240 <u>District II</u> E 301 W. Grand Avenue, Artesia, NM 88210		ate of New Mexico nerals and Natural Resources	22-25-26-27-2Form C-14	
istrict III	Oil C	Conservation Division	For drilling and production facilities, submit the	
000 Rio Brazos Road, Aztec, NM 87410 istrict IV	1220 South St. Francis Dr. Santa Fe, NM 87505		For drilling and production facilities, submit to appropriate NMØED District Office. For downstream facilities, Submit (Santa Fe office	
220 S. St. Francis Dr., Santa Fe, NM 87505				
		de Tank Registration or	Closure 600 6	
		tank covered by a "general plan"? egistration of a pit or below-grade tank		
			4011121314 VE	
· ·	-687-7375 e-	mail address: LEAKEJD@CHEVRON	TEXACO.COM	
ddress: 15 SMITH ROAD, MIDLAND, TX 79705				
cility or well name: Vacuum Grayburg San Andres Unit #				
bunty: LEA Latitude	Longitude	NAD: 1927 [] 19	83	
urface Owner: Federal 🗌 State				
		Below-grade tank		
<u>zpe:</u> Drilling		Volume:bbl Type of fluid:		
		Construction material:		
ined		Double-walled, with leak detection? Yes	i 🗀 11 not, explain why not.	
ner type: Synthetic 🗌 Thickness 20mil Clay 🗌 t Volume 1965 bbl				
epth to ground water (vertical distance from bottom of pit to	seasonal	· · · · · · · · · · · · · · · · · · ·	(10 points)	
igh water elevation of ground water.)		50 feet or more, but less than 100 feet		
Vellhead protection area: (Less than 200 feet from a private of	domestic			
ater source, or less than 1000 feet from all other water sourc	es.)	No	(0 points)	
istance to surface water: (horizontal distance to all wetlands	s, playas,			
rrigation canals, ditches, and perennial and ephemeral waterc	• •			
		1000 feet or more	(0 points)	
		Ranking Score (Total Points)	10 Points	
ur are burying in place) onsite i offsite i ff offsite, name nediation start date and end date. (4) Groundwater encounte Attach soil sample results and a diagram of sample location Additional Comments:	red: No 🗌 Y	res [] If yes, show depth below ground su		
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
hereby certify that the information above is true and comple as been/will be constructed or closed according to NMO			tify that the above-described pit or below-grade tank	
ate: 9-26-2005	NGINEED	Signature line 4hr	nzilet / AP	
rinted Name/Title TIMOTHY BONZELET DRILLING E our certification and NMOCD approval of this application/c		Signature Signature	the desidents of the still or ton ton ton ton ton to a sound when to	
therwise endanger public health or the environment. Nor do egulations.	oes it relieve t	he operator of its responsibility for complia		
.pproval:	DINIAL CIT	ened by autz Engineer	· · · · · · · · · · · · · · · · · · ·	
rinted Name/Title	JINAL ON	AUTZ	Date:	
	HULL	ENGINEEN		
PETI	10 mm vier		OCT 0 3 2005	



3.5'