DISTRICT I

- P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-101 Revised February 10,199

Instructions on bac

Submit to Appropriate District Offic

State Lease - 6 Copie

Fee Lease - 5 Copie ☐ AMENDED REPORT

P.O. Box 2088			OR PER	MIT TO D	RILL, RE-F	ENTER	t, DEEPEN, P	LUGBACK, OF			ED KEPOKI
CHEVRON				and Address	·····	<u></u>	n202425262	720		² OGRI	ID Number 323
		ND, TX 79705				15	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	2/1		3 API Nu 30-025	umber 5-31727
4 P	Property Code	9958			⁵ Pri	roperty Na VAN ET	TEN D	B	/	6 W	ell No.
					7 Surface	e Loca	ition	, s ë			
UI or lot no.	Section	Township	Range	Lot.idn	Feet From		North/South Line	Feet From The	East/We	est Line	County
K	9	20-S	37-E	l	1653		SOUTH	2307	WE	ST	LEA
			8 Propos	sed Bottor	m Hole Loc	ation I	f Different Fro	m Surface			
UI or lot no.	Section	Township	Range	Lot.ldn	Feet From		North/South Line	Feet From The	East/We	est Line	County
	EUNICE N	⁹ Proposed MONUMENT;GRA		N ANDRES				¹⁰ Proposed Po	ool 2		
					-12						
F	Type Code	12	² WellType Co O	ode	Rotary or	C.T.		ase Type Code S	¹⁵ Gr	round Leve 3541' C	GR
¹⁶ Multi N	iple No	17	Proposed De 7875'	pth	¹⁸ Formation		19 C	Contractor	²⁰ Spud Date		i Date
L		<u> </u>	7	21 Propos	ed Casing	and C	ement Prograr	m			
SIZE OF	F HOLE	SIZE OF 0	CASING		T PER FOOT		SETTING DEPTH		OF CEMENT		EST. TOP
14.75"		11.75"		42#		1150'	,	900 SX - CII			
11"		8 5/8"		32#	,	4000'		1650 SX CIF	 		
7 7/8"		5 1/2"		15.5#		7875'	<i>;</i>	1500 SX - C	1500 SX - CIRC		
		<u> </u>									
		ram. If this applicati ntion program, if any				n the prese	ent productive zoneand	d proposed new producti	ive zone.		
GRAYBURG	G-SAN AND	RES RESERV	OIR.				M THE MONUME	ENT ABO TO THE	EUNICE N	MONUME	:NT;
THE INTEN	DED PROC	EDURE AND	CURRENT A	AND PROP	OSED WELLE	3ORE D	Pennit Ex Date !	ATTACHED FOR opines 1 Year Onless Dulling Plane	YOUR APP F From / ACH Lade	PROVAL. Approv A	iral
Division hav	e been complied	es and regulations or ed with and that the best of my knowled	information give				OIL (CONSERVA	TION C)IVISIO	ON
Signature (X/e	n/sel	I'm	Kerto	n)		roved By:	his Use	liem		
Printed Nam		nise Pinkerton				Title	_	SUPERVISOR/G	SENERAL	MANA	3 e r
Title Re	gulatory Spe	ecialist	 			App	oroval Date:	· • • • • • • • • • • • • • • • • • • •	Expiration	Date:	
Date 5	/17/2007		Telepho	one 43	32-687-7375	Con	nditions of Applications	rail 2 2007			

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88241-1980 <u>DISTRICT II</u>

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OIL CONSERVATION DIVISION

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Revised February 10,199
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Fee Lease - 3 Copie

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-31727	7 507 5035			
Property Code	·	erty Name	⁶ Well No. 13	
⁷ OGRID Number 4323	'	rator Name ON USA INC	⁹ Elevation 3541' GR	

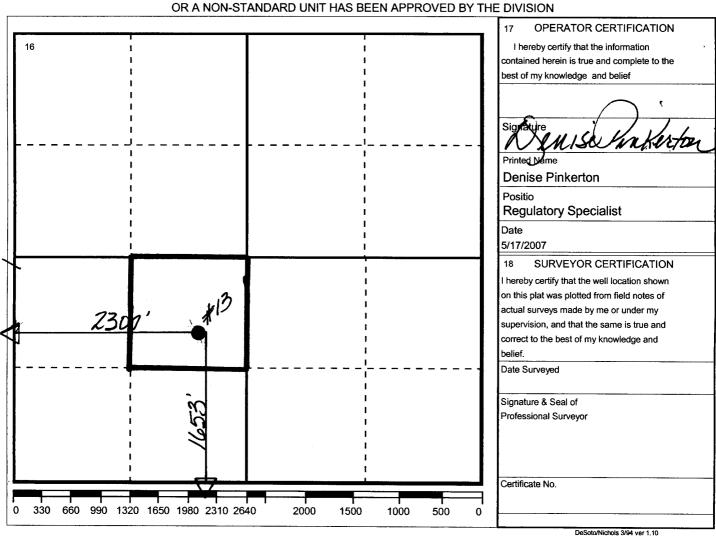
¹⁰ Surface Location

UI or lot no	Section	Township	Range	Lot.ldn	Feet From The	North/South Line	Feet From The	East/West Line	County
К	9	20-S	37-E		1653	SOUTH	2307	WEST	LEA

Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.ldn	Feet From	The	North/South Line	Feet From The	East/West Line	County
Dedicated	d Acre	Joint or Infill	14	Consolidation	on Code	¹⁵ Ord	der No.		1	

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



05/16/2007

L Van Etten #13 Eunice Monument; GB-SA T20S, R37E, Section 9 30-025-31727

Job: PB to Grayburg, Acidize, and Frac

Procedure:

- 1. This procedure is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of 5/16/2007. Verify what is in the hole with the well file in the Eunice Field office. Discuss w/ WEO Engineer, Workover Rep, OS, ALS, and FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.
- 2. Displace flowline with fresh water. Have field specialist close valve at header. Pressure line according to the type of line. Buried fiberglass lines will be tested with 300 psi. All polypipe (SDR7 and SDR11) will be tested w/100 psi. All steel lines will be tested w/500 psi. If a leak is found, contact Donnie Ives for repair/replacement. If test is good, bleed off pressure and open valve at header. Document this process in the morning report.
- 3. MI & RU workover unit. Bleed pressure from well, if any. Pump down csg with 8.6 PPG cut brine water, if necessary to kill well. POH LD rods and pump. Remove WH. Install BOP's and test as required. POH and LD 2-7/8" production tbg.
- 4. PU and GIH with 4 3/4" MT bit, and new 2-7/8" tubing, and WS as needed to 6990'. Attempt to circulate well clean from 6990' using 8.6 PPG cut brine water, if possible. POH with tbg string and bit. LD bit.
- 5. MI & RU WL. GIH w/ CIBP to 6975'. Set 5 ½" CIBP at 6975'. POH. LD setting tool. GIH and dump bail 35' cement on CIBP @ 6975'.
- 6. GIH w/ CIBP to 5550'. Set 5-1/2" CIBP @ 5550'. Pressure test casing and CIBP to 500 psi. POH. LD setting tool.
- 7. GIH and conduct GR/CBL/CCL log from 5550' up to 2500'. Run log with 500 psi on casing. POH. Inspect logs for good cement bond from approximately 4100' up to 3400'. If bond does not appear to be good across proposed completion interval, discuss with Engineering before proceeding.
- 8. GIH with 3-1/8" slick casing guns and perforate the following intervals with 4 JSPF at 120 degree phasing using 23 gram premium charges:

Top Perf	Bottom Perf	Net Feet	Total Holes
3666	3677	11	44
3701	3712	11	44
3717	3728	11	44

3734	3745	11	44
3755	3765	10	40
3772	3782	10	40
3786	3794	8	32
3805	3815	10	40
3819	3828	9	36
3831	3840	9	36
3845	3855	10	40
3861	3871	10	40
3875	3884	9	36

- 9. POH. GIH and dump bail 35' of cement on top of CIBP at 5550'. POH RD & release WL. Note: Correlate Schlumberger Compensated Neutron Litho-density Log dated 10/18/1992 to BakerAtlas GR/CBL/CCL conducted in Step 7 for perforating.
- 10. RIH w/ 5-1/2" PPI packer w/ SCV and 12' element spacing. Test PPI packer in blank pipe. Mark Settings.
- 11. MI & RU DS Services. Acidize perfs 3666'-3884' with 2,600 gal 15% NEFE HCl acid* at a maximum rate of ¹/₂ BPM and a maximum surface pressure of 4000 psi as follows:

Perfs	Acid Volume	Max Rate	PPI Setting
3666-3676	200	1/2 bpm	3665-3677
3702-3712	200	1/2 bpm	3701-3713
3717-3727	200	1/2 bpm	3716-3728
3735-3745	200	1/2 bpm	3734-3746
3755-3765	200	1/2 bpm	3754-3766
3772-3782	200	1/2 bpm	3771-3783
3786-3794	200	1/2 bpm	3783-3795
3805-3815	200	1/2 bpm	3804-3816
3819-3828	200	1/2 bpm	3817-3829
3831-3840	200	1/2 bpm	3830-3842
3845-3855	200	1/2 bpm	3844-3856
3861-3871	200	1/2 bpm	3860-3872
3875-3884	200	1/2 bpm	3874-3886

Displace acid with 8.6 PPG cut brine water -- do not over displace. Use a SCV to control displacement fluid. Record ISIP, 5 & 10 minute SIP's. RD and release DS services. Note: Pickle tubing in 1 run of 500 gals acid, prior to acidizing perfs. Pickle acid is to contain only ½ gal A264 and 1 gal W53. Also, if communication occurs during treatment of any interval, monitor casing pressure and attempt to complete stage w/o exceeding 500 psi csg pressure. If cannot, then move PPI to next setting depth and combine treatment volumes of the intervals.

* Acid system to contain:

1 GPT A264

Corrosion Inhibitor

8 GPT L63 2 PPT A179 Iron Control Agents
Iron Control Aid

- 12. Release PPI & PU to approximately 3600'. Reverse circulate annulus clean. Set pkr @ 3600'. Fish SCV. Swab back all intervals together. Recover 100% of treatment and load volumes before shutting well in for night, if possible. Report recovered volumes, pressures, and/or swabbing fluid levels. Note: Selectively swab perfs as directed by engineering if excessive water is produced.
- 13. Open well. Release PPI pkr. POH w/ tbg and PPI pkr. LD 2-7/8" tbg and PPI pkr.
- 14. PU and GIH w/5-1/2" Arrow-Set 10k pkr & On-Off tool w/ 2.25" "F" profile and 113 jts of 3-1/2" EUE 8R L-80 work string, testing to 100 psi. Set pkr at approximately 3550'. Install frac head. Pressure annulus to 500 psi to test csg and pkr. Leave pressure on csg during frac job to aid in observing communication.
- 15. MI & RU DS Services and Tracer-Tech Services (Mike Mathis (866) 595-3115). Frac well down 3 ½" tubing at 40 BPM with 88,000 gals of YF125, 176,000 lbs. 16/30 mesh Jordan Sand, and 30,000 lbs resin-coated 16/30 mesh CR1630 proppant. Observe a maximum surface treating pressure of 8000 psi. Tag frac with 2 radioactive isotopes (1 in regular sand stages, and 1 in resin-coated proppant stage). Pump job as follows:

Pump 2,000 gals 2% KCL water containing 55 gals Baker RE 4777-SCW Scale Inhibitor at 6 BPM Pump 1,000 gals 2% KCL water spacer at 20 BPM

Pump 14,000 gals YF125 pad containing 5 GPT J451 Fluid Loss Additive at 40 BPM

Pump 14,000 gals YF125 containing 0.5 PPG 16/30 mesh Jordan Sand & 5 GPT J451 FL Additive

Pump 12,000 gals YF125 containing 1.5 PPG 16/30 mesh Jordan Sand

Pump 12,000 gals YF125 containing 2.5 PPG 16/30 mesh Jordan Sand

Pump 14,000 gals YF125 containing 3.5 PPG 16/30 mesh Jordan Sand

Pump 16,000 gals YF125 containing 4.5 PPG 16/30 mesh Jordan Sand

Pump 6,000 gals YF125 containing 5 PPG resin-coated 16/30 mesh CR1630 proppant.

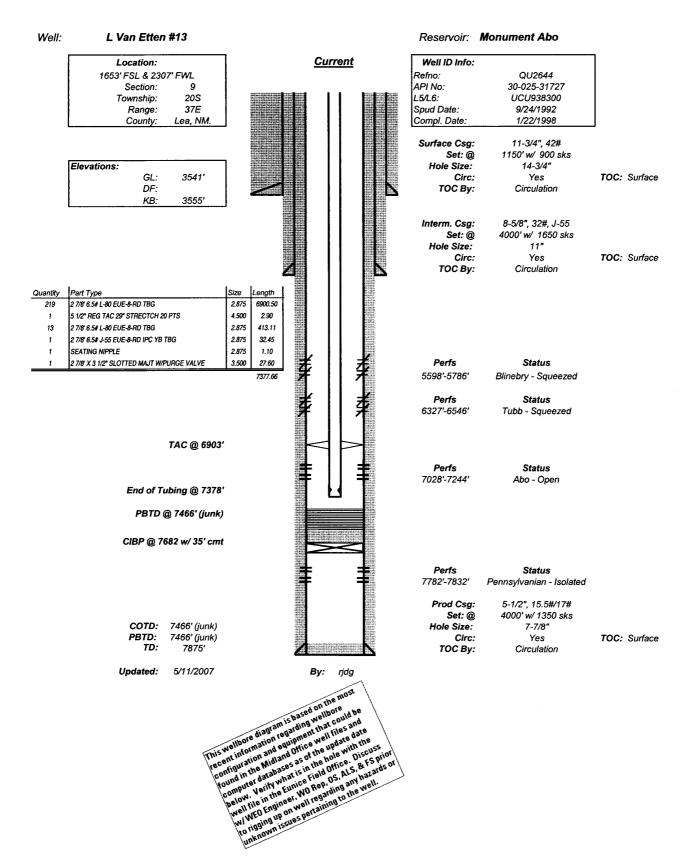
Flush to 3600' with 1,408 gal WF125. **Do not overflush.** Shut well in. Record ISIP, 5, 10, and 15 minute SI tbg pressures. SWI. RD & Release DS Services and Tracer-Tech Services. **Leave well SI overnight.**

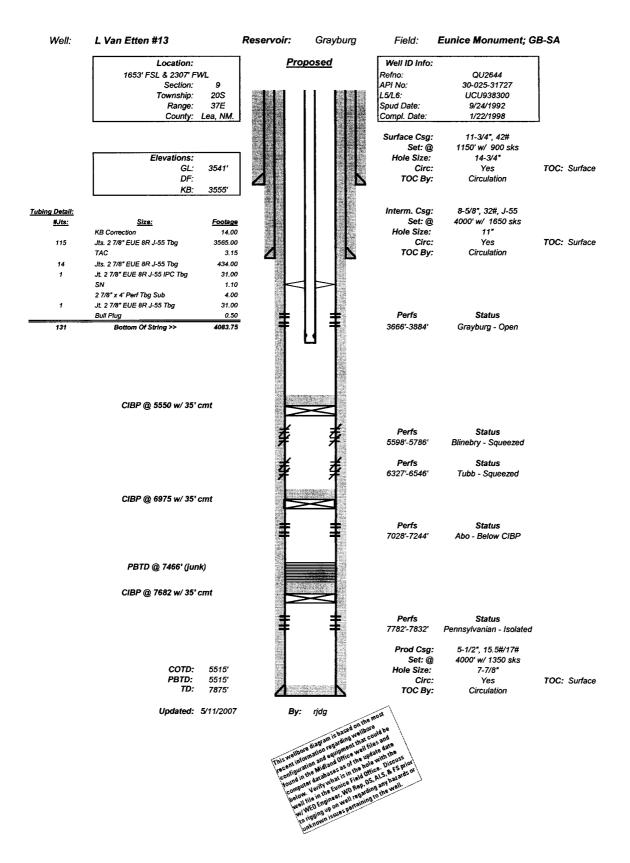
- 16. Open well. Bleed pressure from well, if any. Release pkr. POH LD 3 ½" work string, on-off tool, and pkr.
- 17. PU and GIH with 4 3/4" MT bit on 2 7/8" tubing to approximately 4200'. If fill is tagged above 4200', cleanout to 4200' using 8.6# PPG cut brine water using air unit if necessary. POH with 2 7/8" tbg and bit. LD bit.
- 18. PU & GIH with 5 ½" pkr on 2 7/8" tbg string to 3550'. Set pkr at 3550'. Open well. GIH and swab well until there is no sand inflow. Swab well for at least 3 hours before logging. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH and conduct after-

frac PRISM GR/Temp/CCL from 4200' to 3300'. POH. RD & release electric line unit. Note: Correlate logs with Baker Atlas GR/CBL/CCL Log conducted in Step # 7.

- 19. Release pkr. POH 2-7/8" tubing and pkr.
- 20. RIH w/ 2-7/8" production tubing and hang off per ALS recommendation. NDBOP. NUWH. RIH w/ rods and pump per ALS.
- 21. RD Key PU & RU. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

Engineer – Richard Jenkins 432-687-7120 Office 432-631-3281 Cell





Tubing Landing Details

	Tubing Detail										Physical Inventory					
Jts.	Description	Ref. #	O.D.	I.D.	Length	Depth	Ref. #	To Lo	cation	Cond.	Rec. Doc.	Installed in Well	Cond.	Balance	Cond.	ELP - 400
	Original KB to Tubing Head Flange				17.00	0.00										
219	2 7/8' 6.5# L-80 EUE-8-RD TBG		2.875	2.445	6900.50	17.00										
1	5 1/2' REG TAC 29' STRECTCH 20 PTS		4.500	2.445	2.90	6917.50										
13	2 7/8' 6.5# L-80 EUE-8-RD TBG		2.875	2.445	413.11	6920.40										
1	2 7/8' 6.5# J-55 EUE-8-RD IPC YB TBG		2.875	2.445	32.45	7333.51										,
1	SEATING NIPPLE		2.875	2.225	1.10	7365.96										
1	2 7/8' X 3 1/2" SLOTTED MAJT W/PURGE VALVE		3.500		27.60	7367.06										
						7394.66										
	**TL 232 JTS DWN HOLE BDY PUMP DISCHARGE															
	7/31/02 FT ***															
	PERFS @ 7028'7244'															
	TD @ 7875' PBTD @ 7466'															
	5 1/2' 15.5# J-55 @ 7875'															
	Rod Detail									CASING	VLINER CEMENT DETA	ILS:				
1	1 1/2' X 26' P-ROD END SPRAY W/1' PINS W/16' LINER				26.00	26.00		CEMENT CO.:			CMT PMP RATES:			EST. TOC:		
5	7/8' X 2', 2', 6', 6', 8' D-87 AXELSON PONY ROD				24.00	50.00		RETURNS ON JOB?			HOLE SIZÉ:			CSG RECIPROCATED:		
75	1° D-87 RODS				1875.00	1925.00		SPACER TYPE & VOL.	_		PLUG BUMPED?					
80	7/8' D-87 RODS				2000.00	3925.00		CASING SET @ TVD:			SPACER TYPE & VOL:					
130	3/4' D RODS				3250.00	7175.00		CEMENT	SACKS	TYPE	ADDITIVES	YIELD	PMP TIME	COMP STR @ 1224 HRS	WL	WT PPG
6	1 1/2' 'C' SINKER BAR W/NECKS RH BACK OFF TOOL				150.00	7325.00		LEAD:								
1	25-125-HHBC-20-4-2 -4 FIT TM-313 7/31/02 FT				20.00	7345.00		TAIL:								
	1 1/4" X 10' GAS ANCHOR							REMARKS:								
Details:	BOP 6"900					String:	SINGLE	PROD		AFE:	UCU938300			-	Page:	1
Rep:	FELIX TREVINO				Field:	MONUNEMT; S	E, ABO			Lease:	L VAN ETTEN		Well#:	13	Date:	7/31/2002

	Grayburg			
	Top Perf	Bottom Perf	Net Feet	Total Holes
1	3586	3597	11	44
2	3604	3612	8	32
3	3615	3626	11	44
4	3631	3636	5	20
_5	3646	3657	11	44
6	3666	3676	10	40
7	3702	3712	10	40
8	3717	3727	10	40
9	3735	3745	10	40
10	3755	3765	10	40
11	3772	3782	10	40
12	3786	3794	8	32
13	3805	3815	10	40
14	3819	3828	9	36
15	3831	3840	9	36
16	3845	3855	10	40
17	3861	3871	10	40
18	3875	3884	9	36
		Total	125	500

Tool Length	12	ft] .
	100	gal/ft	
Perfs	Acid Volume	Max Rate	PPI Setting
3586-3597	200	1/2 bpm	3670-3682
3604-3612	200	1/2 bpm	3670-3683
3615-3626	200	1/2 bpm	3670-3684
3631-3636	200	1/2 bpm	3670-3685
3646-3657	200	1/2 bpm	3670-3686
3666-3676	200	1/2 bpm	3665-3677
3702-3712	200	1/2 bpm	3701-3713
3717-3727	200	1/2 bpm	3716-3728
3735-3745	200	1/2 bpm	3734-3746
3755-3765	200	1/2 bpm	3754-3766
3772-3782	200	1/2 bpm	3771-3783
3786-3794	200	1/2 bpm	3783-3795
3805-3815	200	1/2 bpm	3804-3816
3819-3828	200	1/2 bpm	3817-3829
3831-3840	200	1/2 bpm	3830-3842
3845-3855	200	1/2 bpm	3844-3856
3861-3871	200	1/2 bpm	3860-3872
3875-3884	200	1/2 bpm	3874-3886
	2600		

No mineral rights

Top Perf	Bottom Perf	Net Feet	Total Holes
3666	3677	11	44
3701	3712	11	44
3717	3728	11	44
3734	3745	11	44
3755	3765	10	40
3772	3782	10	40
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3772-3782	200	1/2 bpm	3771-3783
3786-3794	200	1/2 bpm	3783-3795
3805-3815	200	1/2 bpm	3804-3816
3819-3828	200	1/2 bpm	3817-3829
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3845-3855	200	1/2 bpm	3844-3856
3861-3871	200	1/2 bpm	3860-3872
3875-3884	200	1/2 bpm	3874-3886