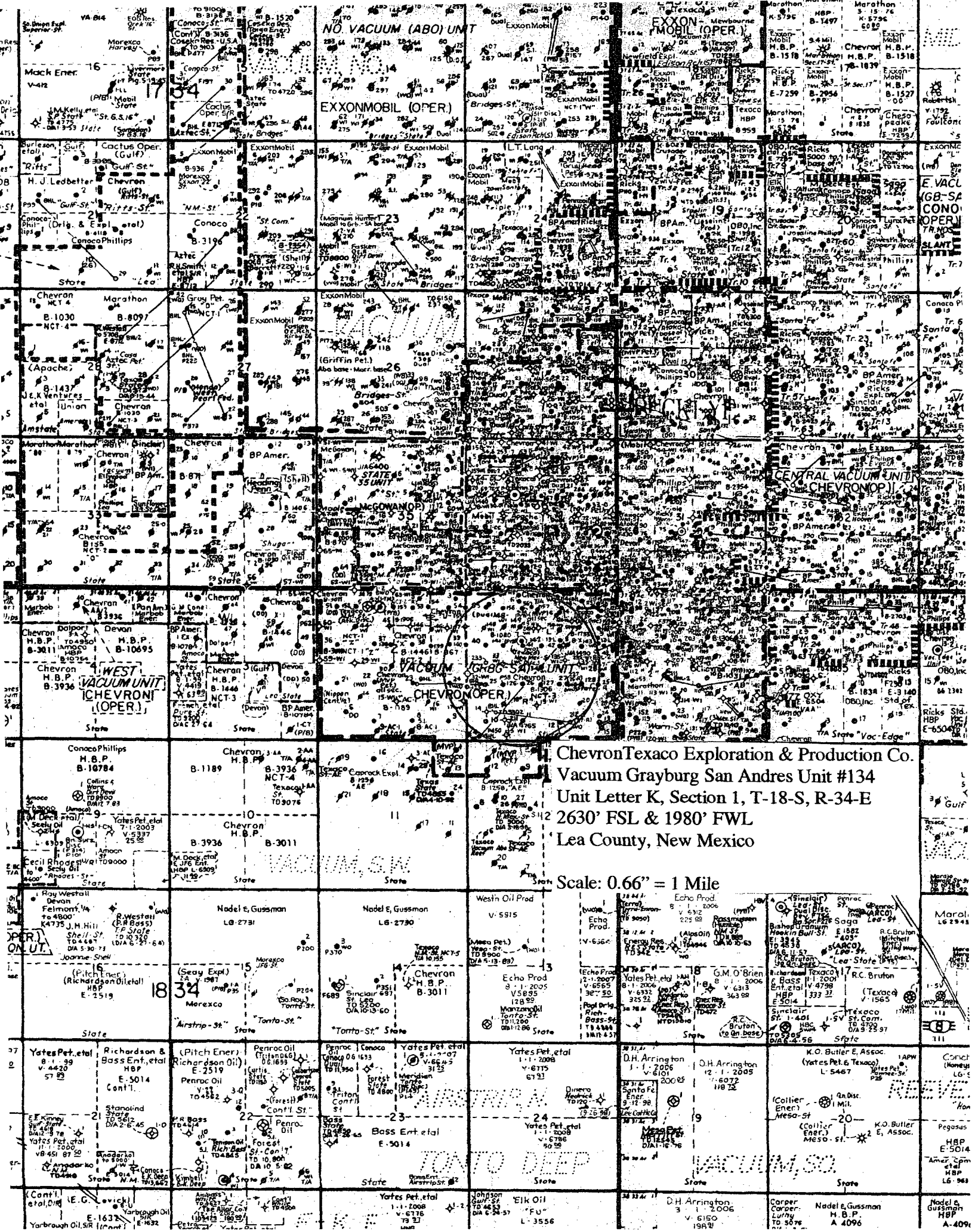


V

Maps



VI

**Tabulation
of
Well Data**

VGSAU 134 AREA OF REVIEW

ACTIVE WELLS INSIDE THE AREA OF REVIEW - VGSAU

Well Name	Type of Well	API	Date Drilled	Location							Depth	Record of Completion
				N-S	W-E	Sec	UL	Twn	Range	County		
VGSAU 5	Injector	30-025-24333	Jan-73	210-S	1420-W	1	N	18-S	34-E	Lea	4,788	Yes
VGSAU 10	Producer	30-025-02258	Aug-41	660-S	660-W	1	M	18-S	34-E	Lea	4,710	Yes
VGSAU 12H	Producer	30-025-02259	Oct-43	660-S	1980-E	1	O	18-S	34-E	Lea	4,681	Yes
VGSAU 17	Injector	30-025-24316-1	Jan-73	1400-S	10-E	2	I	18-S	34-E	Lea	4,787	Yes
VGSAU 18	Injector	30-025-24317	Dec-72	1330-S	1330-W	1	K	18-S	34-E	Lea	4,788	Yes
VGSAU 19	Injector	30-025-24331	Jan-73	1310-S	2540-W	1	?	18-S	34-E	Lea	4,658	Yes
VGSAU 20	Injector	30-025-24360	Mar-73	1330-S	1330-E	1	?	18-S	34-E	Lea	4,780	Yes
VGSAU 25	Producer	30-025-02256	Sep-40	1980-S	660-W	1	L	18-S	34-E	Lea	4,652	Yes
VGSAU 26	Producer	30-025-02255	Jun-40	1980-S	1980-W	1	K	18-S	34-E	Lea	4,565	Yes
VGSAU 27	Producer	30-025-02254	May-40	1980-S	1980-E	1	J	18-S	34-E	Lea	4,710	Yes
VGSAU 32	Injector	30-025-24330	Jan-73	2630-S	30-W	1	L	18-S	34-E	Lea	4,789	Yes
VGSAU 34	Injector	30-025-24312	Jan-73	2630-S	2630-E	1	?	18-S	34-E	Lea	4,799	Yes
VGSAU 35	Injector	30-025-24361	Mar-73	2630-N	1330-E	1	?	18-S	34-E	Lea	4,690	Yes
VGSAU 40	Producer	30-025-02252	Jun-40	1980-N	660-W	1	E	18-S	34-E	Lea	4,712	Yes
VGSAU 47	Injector	30-025-24365	Mar-73	1330-N	10-E	2	H	18-S	34-E	Lea	4,788	Yes
VGSAU 48	Injector	30-025-24322	Feb-73	1330-N	1330-W	1	?	18-S	34-E	Lea	4,750	Yes
VGSAU 56	Producer	30-025-02251	Apr-40	671-N	1980-W	1	?	18-S	34-E	Lea	4,710	Yes
VGSAU 57	Producer	30-025-99031	Apr-40	669-N	1980-E	1	B	18-S	34-E	Lea	4,710	Yes
VGSAU 126H	Producer	30-025-32026	Aug-93	1980-S	1308-W	1	?	18-S	34-E	Lea	4,750	Yes
VGSAU 128	Producer	30-025-32028	Sep-93	1980-S	1220-E	1	I	18-S	34-E	Lea	4,846	Yes
VGSAU 128H	Producer	30-025-32028	Sep-93	1980-S	1220-E	1	I	18-S	34-E	Lea	4,846	Yes
VGSAU 133	Injector	30-025-35686	Apr-02	2590-N	1270-W	1	E	18-S	34-E	Lea	4,700	Yes
VGSAU 135	Injector	30-025-35561	Aug-04	2535-N	4930-E	1	?	18-S	34-E	Lea	4,723	Yes
VGSAU 140	Producer	30-025-30765	Mar-90	1980-N	10-E	2	H	18-S	34-E	Lea	4,900	Yes
VGSAU 141	Producer	30-025-30797	Jun-90	1980-S	1309-W	1	E	18-S	34-E	Lea	6,004	Yes
VGSAU 142	Producer	30-025-30843	Oct-90	1980-N	2628-W	1	F	18-S	34-E	Lea	5,000	Yes
VGSAU 143	Producer	30-025-30844	Sep-90	?	?	2	?	18-S	34-E	Lea	4,790	Yes
VGSAU 148	Injector	30-025-30799	Jun-90	1330-N	660-W	1	?	18-S	34-E	Lea	4,770	Yes
VGSAU 149	Injector	30-025-30847	Oct-90	1330-S	1980-W	1	C	18-S	34-E	Lea	5,000	Yes
VGSAU 150	Injector	30-025-30917	Aug-90	1390-N	1980-E	1	G	18-S	34-E	Lea	5,000	Yes
VGSAU 156	Producer	30-025-30851	Nov-90	660-N	1330-W	1	?	18-S	34-E	Lea	4,770	Yes
VGSAU 157	Producer	30-025-30717	Jun-90	710-N	2530-W	1	C	18-S	34-E	Lea	5,000	Yes
VGSAU 212	Producer	30-025-32004	Apr-94	660-S	1650-E	1	?	18-S	34-E	Lea	4,645	Yes
VGSAU 233	Injector	30-025-36355	Oct-03	2630-S	660-W	1	L	18-S	34-E	Lea	4,556	Yes
VGSAU 235	Injector	30-025-35562	Jul-01	2610-N	660-E	1	?	18-S	34-E	Lea	4,799	Yes

ACTIVE WELLS INSIDE THE AREA OF REVIEW - VGWU

Well Name	Type of Well	API	Date Drilled	Location							Depth	Record of Completion
				N-S	W-E	Sec	UL	Twn	Range	County		
VGWU 113	Injector	30-025-21107	Feb-65	330-N	1880-E	1	C	18-S	34-E	Lea	6,216	Yes
VGWU 120	Injector	30-025-31859	Jun-93	1102-N	1575-E	1	B	18-S	34-E	Lea	6,266	Yes

ACTIVE WELLS INSIDE THE AREA OF REVIEW -NEW MEXICO ST

Well Name	Type of Well	API	Date Drilled	Location							Depth	Record of Completion
				N-S	W-E	Sec	UL	Twn	Range	County		
NM M ST 7	Producer	30-025-20494	Jul-63	1800-N	1980-W	1	F	18-S	34-E	Lea	12,220	Yes
NM M ST 9	Producer	30-025-32016	Feb-94	660-N	2310-W	1	C	18-S	34-E	Lea	8,100	Yes
NM L St 6	Producer	30-025-20514	Nov-63	770-N	2090-E	B	1	18-S	34-E	Lea	12,255	Yes
NM L ST 8	Producer	30-025-20938	Apr-64	1980-N	1865-E	1	G	18-S	34-E	Lea	6,794	Yes
NM L ST 13	Producer	30-025-32007	Oct-93	1780-N	1980-E	1	G	18-S	34-E	Lea	7,990	Yes
NM L ST 14	Producer	30-025-32008	Nov-93	810-N	1980-E	1	B	18-S	34-E	Lea	7,926	Yes

ABANDONED WELLS INSIDE THE AREA OF REVIEW - VGSAU

Well Name	Type of Well	API	Date Drilled	Location							Depth	Record of Completion
				N-S	W-E	Sec	UL	Twn	Range	County		
VGSAU 11	Producer	30-025-02257	Jul-41	660-S	1980-W	1	N	18-S	34-E	Lea	4,650	Yes
VGSAU 33	Injector	30-025-24323	Feb-73	2630-N	1310-W	1	E	18-S	34-E	Lea	4,790	Yes
VGSAU 49	Injector	30-025-24329	Feb-73	1390-N	2580-W	30	M	18-S	34-E	Lea	4,800	Yes
VGSAU 127	Producer	30-025-32037	Sep-04	1980-S	2625-W	1	?	18-S	34-E	Lea	4,900	Yes
VGSAU 211	Producer	30-025-24331	?	710-S	1280-W	1	?	18-S	34-E	Lea	4,765	Yes

ABANDONED WELLS INSIDE THE AREA OF REVIEW - VGWU

Well Name	Type of Well	API	Date Drilled	Location							Depth	Record of Completion
				N-S	W-E	Sec	UL	Twn	Range	County		
VGWU 112	Producer	30-025-20515	Nov-63	560-N	760-W	1	D	18-S	34-E	Lea	12,215	Yes

ABANDONED WELLS INSIDE THE AREA OF REVIEW - NEW MEXICO ST

Well Name	Type of Well	API	Date Drilled	Location							Depth	Record of Completion
				N-S	W-E	Sec	UL	Twn	Range	County		
NM M St 6	Producer	30-025-20940	Mar-64	460-N	1880-W	6	C	18-S	34-E	Lea	11,318	Yes
NM R ST NCT-3 14	?	30-025-xxxxx	May-59	990-S	660-W	1	M	18-S	34-E	Lea	3,332	Yes

**CURRENT
WELLBORE DIAGRAM**

Created: 11/4/2003 By: SMG
 Updated: By: _____
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 210' FSL & 1420' FWL
 Bottomhole Location: _____
 County: Lea St: NM
 Current Status: Active Injection Well
 Directions to Wellsite: Buckeye, New Mexico

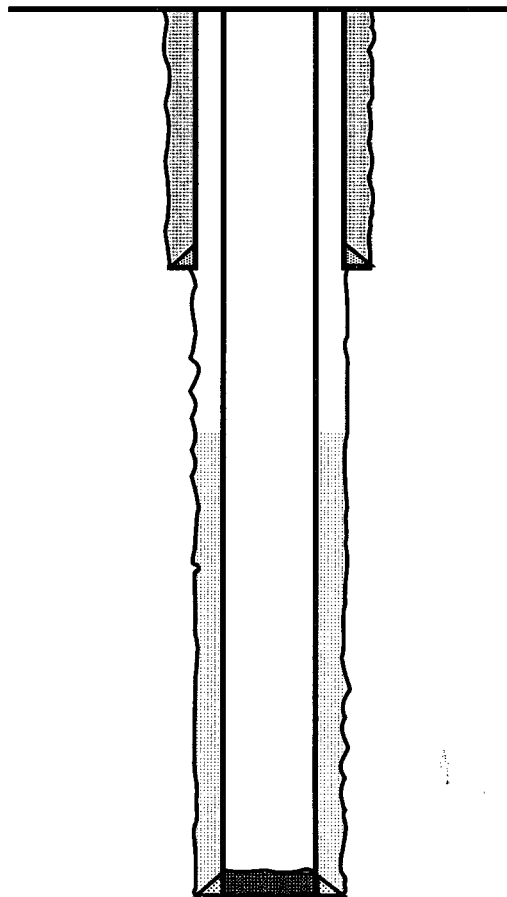
Well No.: 5 Field: Vacuum Grayburg San Andres
 Unit Ltr: N Sec: 1 TSHP/Range: 18S-34E
 Unit Ltr: _____ Sec: _____ TSHP/Range: _____
 St Lease: 857948 API: 30-025-24333 Cost Center: BCT492200
 Elevation: 3994' GR

Surface Csg.
 Size: 8 5/8"
 Wt.: 20#, MV-46
 Set @: 357'
 Sxs cmt: 300 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 12 1/8"

Production Csg.
 Size: 4 1/2"
 Wt.: 9.5#, J-55
 Set @: 4800'
 Sxs Cmt: 650
 Circ: _____
 TOC: 2620'
 Hole Size: 7 7/8"

Perforations:
 2 JSPI 4387'-4742'

PBTD: 4788'
TD: 4800'



KB: _____
 DF: _____
 GL: 3994'
 Original Spud Date: 2/3/1973
 Original Compl. Date: 2/17/1973

TD: 4800'

Remarks: _____

**CURRENT
WELLBORE DIAGRAM**

Created: 11/10/2003 By: SMG
 Updated: By: _____
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 660' FSL & 660' FWL
 Bottomhole Location: _____
 County: Lea St: NM
 Current Status: Active Oil Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 10 Field: Vacuum Grayburg San Andres
 Unit Ltr: M Sec: 1 TSHP/Range: 18S-34E
 Unit Ltr: _____ Sec: _____ TSHP/Range: _____
 St Lease: B-1308 API: 30-025-02258 Cost Center: BCT492200
 Elevation: 4018' KB

Surface Csg.

Size: 8 5/8"
 Wt.: 28# & 32#, SMLS
 Set @: 803'
 Sxs cmt: 200
 Circ: Yes
 TOC: Surface
 Hole Size: 11"

Production Csg.

Size: 5 1/2"
 Wt.: 17#, SMLS
 Set @: 4135'
 Sxs Cmt: 300 sxs
 Circ: Yes
 TOC: 1270'
 Hole Size: 6 3/4"

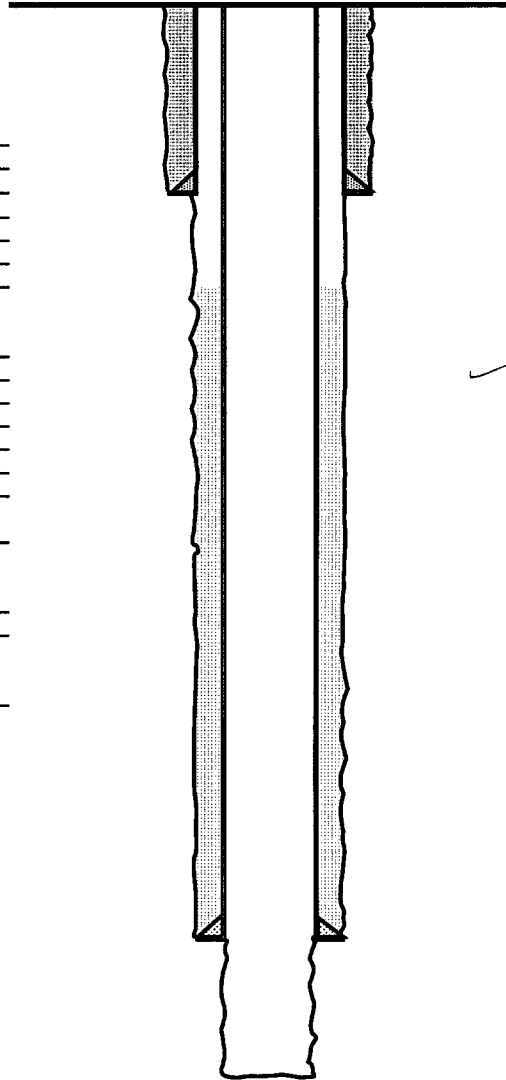
TD: 4710'

Open Hole

Hole Size: 4 3/4"
 Depth: 4135'-4710'

Perforations:

Open Hole 4135'-4710'



KB: 4018'
 DF: 4007'
 GL: _____
 Original Spud Date: 7/17/1941
 Original Compl. Date: 8/15/1941

TD: 4710'

Remarks:

VGSAU 12H

API # 30-025-02259

660' FSL & 1980' FEL, Unit Letter "O"
SEC 1, TWN 18-S, Range 34-E, County Lea
ELEVATION: 3988' GL, 3997' DF
Completed: 10/4/1943

Surface Casing:

10" hole
8 5/8" csg - 32# , 8rd LW.
set @ 860'. Cemented w/ 300 Sacks. Cemented to surface. ()

Production Casing:

7-7/8" hole
5-1/2" csg - 17# , 8rd SMLS.
set @ 4067'. Cemented w/ 300sx. No Returns.
()

TOC @ 2685'. (Calculated Top)

Horizontal Completion:

Top of Window: 4,147'
Bottom of Window: 4154'
Kick Off Point: 4157'
Target Interval: 4302'-4427' TVD
Final Point of Lateral: 4427' TVD @ 7022' MD
Direction: East-West
Size Of Hole: 4 3/4"
Bottom Hole Location: T18S, R34E, sec 1, 660' FSL,
2180' FEL

Perforations:

4067'-4105': 4 3/4" Open Hole
4105'-4624': 6 1/4" Open Hole (7/11/94)
4624-4690': 4 3/4" Open Hole

Brief Workover History:

10/4/1943 : Initial Completion.
1/29/1979 : Clean Out, Log and Frac Open Hole: Cleaned out to 4690'. Acid w/ 2000 gls. Frac Open Hole from 4067' to 4690' w/ 37,800 # 20/40 & 4725 # 10/20.
9/15/89 : Acid Job: Tagged at 4615'. C/O to 4617'. Acid open hole 4067'-4616' w/ 2000 gal 15% HCL.
2/24/1990 : Tubing Failure. Hole in tbg.
12/17/1991 : Pump change
4/27/1992 : Pump failure
3/27/1993 : Pump change
10/1/1993 : Upgrade Design. New rods.
7/11/94 : Under-reamed and acid: C/O f/ 4615' to 4681'. Under-reamed w/ 6 1/4" reamer f/ 4105' to 4624'. Junk found below 4624'. Acid open hole w/ 8000 gls 15% HCL. Pmax=4000 psi, AIR=4 bpm, SIS. Tagged at 4596' (28' higher). C/O to 4681'.
2/27/1995 : Upgrade Pump
6/22/1996 : DHS: Motor was wet and grounded.
11/18/1996 : DHS
12/12/1997 : C/O and Acid: Pump had rubber in intake and cable at pothead. C/O to 4681'. Acid w/ 2000 gls 15% HCL.
7/20/2000 : Failure Report: Rubber in Pump. Plugged Well back w/ sand and cement. No idea where the top is.
3/28/2001 : Upgrade Pump
9/16/2002 : Failure-DHS: Motor burnt. Low fluid levels. Injectors VGSAU 5 & 19 shut in.

Zones

Top	Depth	Interval
GB Marker	4,160	
GB Dol Top	4,268	47
GB Dol Bas	4,315	25
San Andres	4,340	223
LSA	4,563	135
O/W	4,698	
TOTAL		430

PBTD @ 4681'. Junk Below

COMMENTS AND RECOMMENDATIONS:

Well: **VGSAU 17****VGSA**

Reservoir:

Location:

Section: 2
 TWN 18S
 RANGE 34E
 County: LEA

Current**Wellbore Diagram****Well ID Info:**

Refno:
 API No: 30-025-24316-1
 L5/L6:
 Spud Date:
 Compl. Date: 1/14/1973

Elevations:

GL: 3998'
 DF:
 KB: 13'

SQUEEZE #1 10/3/02 CLASS C
 HOLES @ 648' TO 1130'
 SQUEEZE #2 10/10/02 CLASS C
 HOLES @ 648' TO 1130'
 SQUEEZE #3 10/18/02 SQUEEZE CRETE
 HOLES @ 648' TO 1130'
 SQUEEZE #4 10/22/02 SQUEEZE CRETE
 HOLES @ 648' TO 670'

Tbg Detail:

KB 12.5
 134 JTS 2 3/8" PLASTIC COATED TBG 4324.17
 4 1 1/2" 10.5 PLASTIC COATED PKR 2.5
 TOTAL 4339.17

Surf. Csg: 8 5/8"
 20#
 K-55
 Set: @ 364'
 With: 350 SX
 Hole Size: 12 1/4"
 Circ: YES
 TOC @ 364'

Perfs:	Status
4386' TO 4740'	0
	0
	0
	0
	0
	0

Prod. Csg: 4 1/2
 9.5
 K-55
 Set @ 4,800'
 With: 650
 Hole Size: 7 7/8"
 Circ:
 TOC @ 2,706'

COTD:

PBTD: 4,787'
 TD: 4,800'

Updated: 26-Sep-02
 By: GEORGE GARCIA

PACKER SET @ 4339

PERFS 4386' TO 4740'

PBTD 4787

CURRENT
WELLBORE DIAGRAM

Created: 5/5/2004 By: SMG
Updated: _____ By: _____
Lease: Vacuum Grayburg San Andres Unit
Surface Location: 1330' FSL & 1330' FWL
Bottomhole Location: _____
County: Lea St: NM
Current Status: Active Oil Well
Directions to Wellsite: Buckeye, New Mexico

Well No.: 18 Field: Vacuum Grayburg San Andres
Unit Ltr: K Sec: 1 TSHP/Range: 18S-34E
Unit Ltr: _____ Sec: _____ TSHP/Range: _____
St Lease: B-1306-1 API: 30-025-24317 Cost Center: _____
Elevation: 3994' GR TEPI: BCT493000
MVP: BCT494500

Surface Csg.

Size: 8 5/8"
Wt.: 20#, H-40
Set @: 354'
Sxs cmt: 250
Circ: Yes
TOC: Surface
Hole Size: 12 1/4"

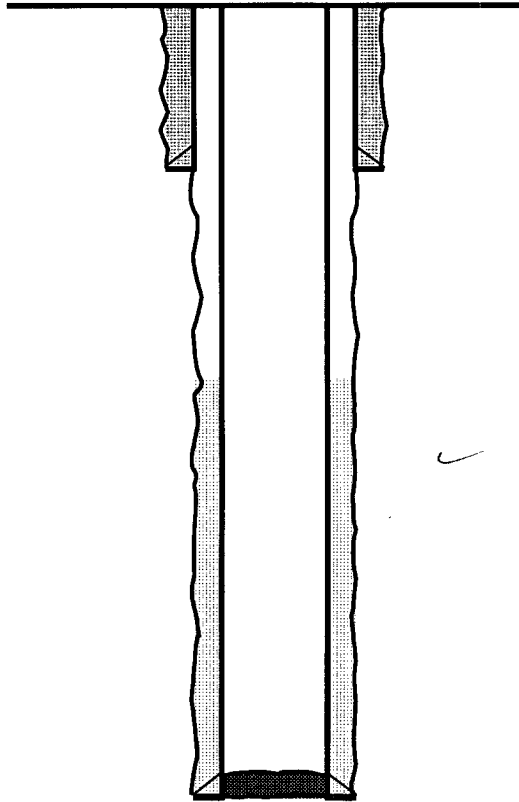
Production Casing

Size: 5 1/2"
Wt.: 14#, K-55
Set @: 4800'
Sxs Cmt: 500
Circ: ?
TOC: 2757'
Hole Size: 7 7/8"

TD: 4800'
PBDT: 4788'

Perforations:

Vacuum Grayburg San Andres
Present Completion Interval 4311'-4735'



KB: _____
DF: 4002
GL: _____
Original Spud Date: 12/18/1972
Original Compl. Date: 1/18/1973

TD: 4800'

Remarks:

VGSAU 19 WIW

API # 30-025-24331

1310' FSL & 2540' FWL
SEC 1, TWN 18-S, Range 34-E, County Lea
ELEVATION: 3991' GL, 4000' DF
Completed: 1/15/73

Surface Casing:

12 1/4" hole
8 5/8" csg - 20#
set @ 354' Cemented
w/ 300 sx class "C"
Cement to surface.
(2/6/73)

Production Casing:

7-7/8" hole
4-1/2" csg - 9.5#
set @ 4700' Cemented w/ 650
sx class "C" cmt. And 10# salt
in 3 stgs: 100, 450 (DV tool)
and 100 Sx (2/21/73)

TOC @ 3520'

Squeezed @ 3415' w/
2500 Sx TLW and 100
sx class "C" cement.
Cement to surface.

Perforations:

4377'-4683': 4377, 91, 96, 4405,
16, 31, 37, 69, 76, 85, 4501, 07,
37, 49, 53, 86, 90, 4601, 10, 32,
38, 69, 4683.

2 JSPF, 23', 46 holes. Acid w/
6000 gals 20% NEA (2/26/73)

4632'-4638': Squeezed w/ 100
Sx cmt. (11/1/74)

4536-4610': Treat w/ TZ pill and
700 # coarse sluggish material.
(3/30/76)

4669-4683': Squeezed w/ 20,000
gal injectrol + 200 sx "c" cmt
(11/22/78)

Brief Workover History:

11/1/74: Pulled tbg & pkr. Ran cmt retainer & set @ 4620'. Squeezed perms
4632'-4638' w/ 100 sx cmt. Ran tbg and pkr @ 4206'.

3/30/76: Pulled tbg & pkr. Ran pkr & set @ 4520'. Treat pers 4536'-4610'
w/ 2 bbls pretreat followed by 30 Sx TZ pill and 20 bbls brine. Treat again
w/ 15 Sx TZ pill. Treat again w/ 6 bbls TZ pill and 700 # coarse sluggish
plugging material. RWTL.

10/21/76: Perforate 3415-3416'. Squeezed w/ 2500?? Sx TLW cmt and 100
sx class "C" cement. Held OK. RWTL.

11/1-22/78: Drill CR @ 4552'. C/O 4725'. Run injection profile. Set CR @
4658'. Squeezed pers 4669-4683' and open hole w/ 20,000 gals injectrol and
200 sx class "C" cement.

5/19/83: Treat well w/ 250 gals 15% FE acid, 1000 gals xylene, 2000 gals
6% KCl water, 200 bbls K-trol-4 & 50 bbls K-Trol-5. Run Injection Survey

1/3-9/86: Release O/F tool. Fish packer. Run 4 1/2" Baker lock set packer
and set @ 4166'.

4/29/1987: Packer failure.

5/23/1990: Tbg failure. Hole in 10th joint. Ran 2 3/8" x 4 1/2" Pkr XP17

9/12/1990: Tbg Failure. Ran ELDER Permanent pkr and set @ 4109'. Ran
126 JTS new IPC 2 3/8" RAM-112.

Last Step Rate:

Date:

Maximum Injecting Pressure:

INJECTION EQUIPMENT:

1- 4 1/2" ELDER INJ PKR
126- JOINTS 2-3/8" IPC new Injection Tbg.

PACKER SET @: 4109'

Zones

Top	Depth	Interval
GB Marker	4,112	
GB Dol Top	4,204	43
GB Dol Bott	4,247	13
San Andres	4,260	248
LSA	4,508	180
O/W	4,688	

TOTAL

484

CIBP @4658

OPEN HOLE 3 7/8":4700'- 4735'

COMMENTS AND RECOMMENDATIONS:

VGSAU 20

API # 30-025-24360

1330' FSL & 1330' FEL
SEC 1, TWN 18-S, Range 34-E, County Lea
ELEVATION: 3979' GL, _____' KB
Completed: 3/19/73

Surface Casing:

11" hole
8 5/8" csg - 20#
set @ 353'. Cemented w/ 300
sx class "C" cmt w/ 2% CaCl.
Cement to surface. (3/5/73)

Production Casing:

7-7/8" hole
5-1/2" csg - 14#
set @ 4800' Cemented w/ 500 sx
class "C" cmt. (3/13/73)

TOC @ _____

Perforations:

4403'-4699': 4403, 13, 28, 39, 49, 60,
66, 90, 4500, 12, 25, 32, 43, 52, 57, 74,
79, 91, 98, 4611, 17, 29, 69, 81, 87,
4699'.
2 ISPF, 26', 52 holes. Acid w/ 8000 gals
20% NEA (3/19/73)
10/23/03
4400' to 4430' (30') 4365' to 4376' (11')
4310' to 4350' (40') 4 jspf.

Brief Workover History:

3/19/1973: Initial Completion: Open interval 4403-4699'. Acid w/ 8000
gals 20% NEA in 4 stages.

9/24/74: Frac perfs: Set pkr @ 4350'. Frac perfs 4404'-4699' w/ 42,000#
sand in 3 stages w/ ball sealers. Each stage w/ 500 gal 15% NEA.

4/21/83: Convert to Water Injection: Wash interval 4404'-4699' w/ 500
gals 15% NE Acid. Run 2 3/8" PC tbg and set pkr @ 4356'.

8/15/85: Clean Out Bleach & Acidize.

3/24/1991: Max Pressure Allowance: Set @ 1260 psi.

6/6/1994: Oil Conservation Division Letter of Max Allow. Pressure not
being followed.

8/6/96: Acid Perfs: Tagged @ 4366. C/O to 4762'. Set Pkr @ 4296'. Acid
perfs 4403-4699' w/ 5,000 gals 20% NEFE HCl. Pmax=3107 psi, AIR=1.5
bpm. TIH w/ 5 1/2" AD-1 Inj Pkr w/ 137 JTS 2 3/8" Rice Duolined Tbg.
Set Pkr @ 4358'.

10/24/03

Acid perfs from 4310' to 4699' w/ 8,000 gals 15% nefe hcl acid & 5,000#
salt block & 250 7/8" ball sealers. max psi=2400#, air=7 bpm.

Last Step Rate:

Date: September 29th to October 12th, 1998

Maximum Injecting Pressure: 1680 psi

INJECTION EQUIPMENT:

10/28/03

1- 5 1/2" hudson loc-set nickle plated od & w/riceline id.
135- JOINTS 2-3/8" Rice Duo-Lined Injection Tbg.

PACKER SET @: 4290'

Zones

Top	Depth	Interval
GB Marker	4,128	
GB Dol Top	4,230	45
GB Dol Bott	4,275	27
San Andres	4,302	262
LSA	4,564	108
O/W	4,672	

TOTAL

442

PBTD @ 4780' initial completion

COMMENTS AND RECOMMENDATIONS:

- For next job, there is intervals in the Upper San Andres that could be opened. From 4350 to 4400'.

Well: **VGSAU 25****VGSA**

Reservoir:

Location: 1980'SL
660'WL
Section: 1
TOWNSHIP 18S
RANGE 34E
County: LEA

Elevations:
GL: 4006'
DF:
KB: 11'

Current Wellbore Diagram

Well ID Info:
Refno:
API No: 30-025-02256
L5/L6:
Spud Date:
Compl. Date: 9/11/1940

Surf. Csg: 7 5/8"
26.4#

Set: @ 1593'
With: 300 SACKS
Hole Size:
Circ: YES
TOC @ SURFACE

Perfs: **Status**
4092' TO 4710' OPEN HOLE

0
0

0
0

7/3/02 ACIDIZE 8000 GALS
15% NEFE HCL ACID &
5000# ROCK SALT

Prod. Csg: 5 1/2"
17#
SMLS
Set @ 4,092'
With: 200 SACKS CALC TOC 2500' (€
Hole Size:
Circ:
TOC @

COTD:
PBTD: 4,652'
TD: 4,710'

Updated: 22-Oct-02
By: Bobby Hill

Tbg Detail:
KB 12
143 JTS J-55 2 7/8" TBG 4496
2 7/8" SUB L-80 6.02
DRAIN VALVE 0.65
2 7/8" SUB L-80 6
PUMP 12.6
GAS SEP 2.65
SEAL SECTION 10.85
MOTOR 12.1

FLAT CABLE

EOT 4558.87

TIGHT SPOT FROM 4370' TO 4468"

6/27/02 UNDER REAM FROM
4300' TO 4652' 6 1/4" REAMER
OPEN HOLE 4092' TO 4710'

10/1/2002; Pump intake plugging up
Left out check valve and put screen over
intake

81
81
162
244
325
406
487
568
650
731
812
893
974
1,056
1,137
1,218
1,299
1,381
1,462
1,543
1,624
1,705
1,787
1,868
1,949
2,030
2,111
2,193
2,274
2,355
2,436
2,517
2,599
2,680
2,761
2,842
2,923
3,005
3,086
3,167
3,248
3,329
3,411
3,492
3,573
3,654
3,736
3,817
3,898
3,979
4,060
4,142
4,223
4,304
4,385
4,466
4,548
4,629
4,710

**CURRENT
WELLBORE DIAGRAM**

Created: 9/16/2002 By: MCD
 Updated: By:
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 1980' FSL & 1980' FWL
 Bottomhole Location: Same
 County: Lea St: NM
 Current Status: Active Oil Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 26
 Unit Ltr: K
 Unit Ltr: B-3011-1
 Elevation: 4003' DF
 Sec: 1
 Sec: TSHP/Range: 18S-34E
 API: 30-025-02255
 Field: Vacuum Grayburg San Andres
 Cost Center: BCT492200

Surface Casing

Size: 8 5/8"
 Wt.: 32#, 8-V
 Set @: 1556'
 Sxs cmt: 300
 Circ: Yes
 TOC: Surface
 Hole Size: 10"

KB: N/A
 DF: 4003'
 GL: N/A
 Original Spud Date: 6/7/1940
 Original Compl. Date: 7/3/1940

Production Casing

Size: 5 1/2"
 Wt.: 17#, 8 Rnd
 Set @: 4090'
 Sxs Cmt: 200
 Circ: Yes
 TOC: 950' (calculated)
 Hole Size: 6 1/4"

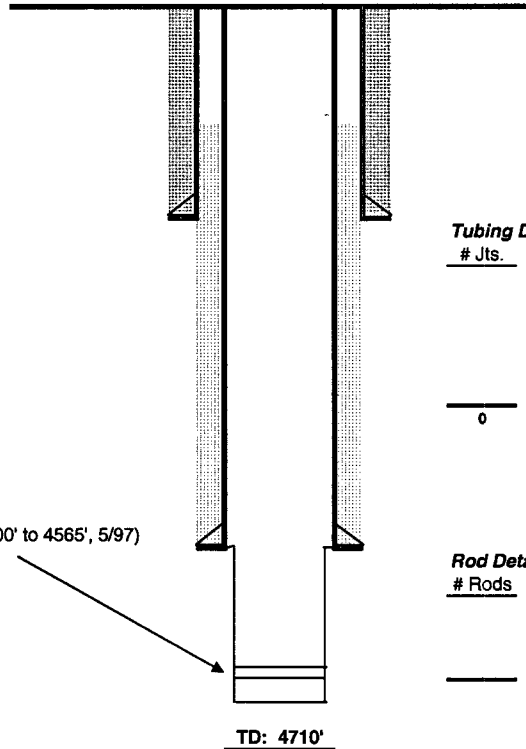
Open Hole

Hole Size: 4 3/4"
 Depth: 4090'-4710'

PBTD: 4565' (spotted 35' calseal from 4600' to 4565', 5/97)
 TD: 4710'

Perforations

Grayburg 4090'-4565'



Tubing Detail

# Jts.	Size	Date:	Footage
	2 7/8" J55 bare cl. 'B'		
	2 7/8" J55 Marker Sub		
	2 7/8" J55 bare cl. 'B'		
	Baker Type TAC		
	2 7/8" TK-99		
	2 7/8" SN		
0	Pump Intake		0.00
	EOT		0.00

Rod Detail

# Rods	Size	Date:	Footage
			0.00

Pump Detail

Date:
 Barrel:
 Plunger:
 Pump: Total Fit
 Seats:

Remarks:

**CURRENT
WELLBORE DIAGRAM**

Created: 3/18/2003 By: SMG/MCD
 Updated: _____ By: _____
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 1980' FSL & 1980' FEL
 Bottomhole Location: Same
 County: Lea St: NM
 Current Status: Active Oil Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 27
 Unit Ltr: J
 Unit Ltr: _____
 St Lease: 857948
 Elevation: 3998' DF
 Field: Vacuum Grayburg San Andres
 Sec: 1 TSHP/Range: 18S-34E
 Sec: _____ TSHP/Range: _____
 API: 30-025-02254 Cost Center: BCT492200

Surface Casing

Size: 8 5/8"
 Wt.: 32#, LW
 Set @: 1538'
 Sxs cmt: 300
 Circ: Yes
 TOC: Surface
 Hole Size: 10 3/4"

KB: _____
 DF: 3998'
 GL: _____

Original Spud Date: 5/13/1940
 Original Compl. Date: 6/6/1940

Production Casing

Size: 5 1/2"
 Wt.: 17#, SMLS
 Set @: 4064'
 Sxs Cmt: 200
 Circ: Yes
 TOC: 2150', (60% fillup)
 Hole Size: 6 3/4"

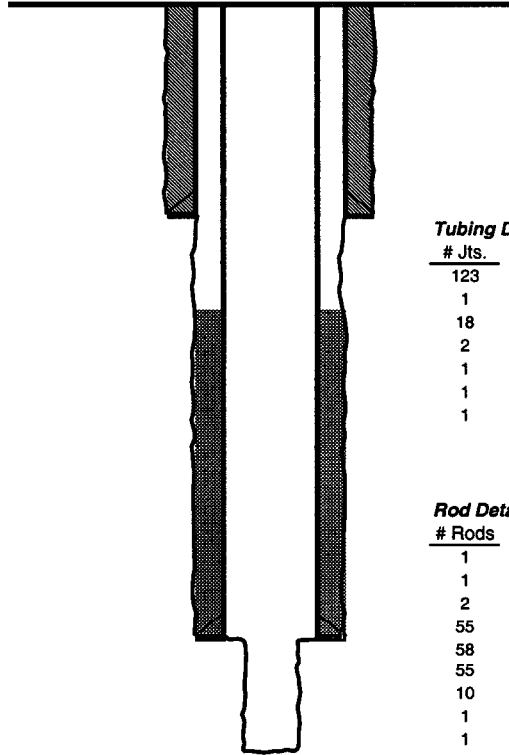
Open Hole

Hole Size: 4 3/4"
 Depth: 4064'-4710'

TD: 4710'

Perforations

Grayburg Open Hole



TD: 4710'

Tubing Detail

# Jts.	Size	Footage
123	2-7/8" J-55 TBG	3856.10
1	5-1/2" X 2-7/8" TAC	2.93
18	2-7/8" J-55 TBG	576.57
2	2-7/8" ST/STL BJ	36.40
1	2-7/8" API S/N	1.10
1	2-7/8" PERF SUB	4.10
1	3-1/2"X2-7/8" M/A	29.00
TOTAL		4506.20

Rod Detail

# Rods	Size	Footage
1	1-1/2" POR	26.00
1	1-3/4" X 16' Liner	
2	1" N90 Pony rods	10.00
55	1" N90 rods	1375.00
58	7/8" N90 rods	1450.00
55	3/4" N90 rods	1375.00
10	1-1/2" Sinker bars	250.00
1	Pmp 2.5-1.75 RHBC	24.00
1	1-1/4" Gas Anchor	8.00
TOTAL		4492.00

Pump

Barrel: BRNC w/ .001 fit
 Plunger: AXMP w/ .002 fit
 Pump total fit: .003
 Seats: T/C

Remarks:

**CURRENT
WELLBORE DIAGRAM**

Created:	<u>5/6/2004</u>	By: <u>SMG</u>			
Updated:		By: _____			
Lease:	<u>Vacuum Grayburg San Andres Unit</u>	Well No.: <u>32</u>	Field: <u>Vacuum Grayburg San Andres</u>		
Surface Location:	<u>2630' FSL & 30' FWL</u>	Unit Ltr: <u>L</u>	Sec: <u>1</u> TSHP/Range: <u>18S-34E</u>		
Bottomhole Location:		Unit Ltr: _____	Sec: _____ TSHP/Range: _____		
County:	<u>Lea</u>	St: <u>NM</u>	API: <u>30-025-24330</u>	Cost Center:	
Current Status:	<u>Active Injection Well</u>	St Lease: <u>B-1306-1</u>		TEPI: <u>BCT493000</u>	
Directions to Wellsite:	<u>Buckeye, New Mexico</u>	Elevation: <u>3999' GR</u>		MVP: <u>BCT494500</u>	

Surface Csg.

Size: 8 5/8"
 Wt.: 20#, MU-46
 Set @: 333'
 Sxs cmt: 300
 Circ: Yes
 TOC: Surface
 Hole Size: 12 1/4"

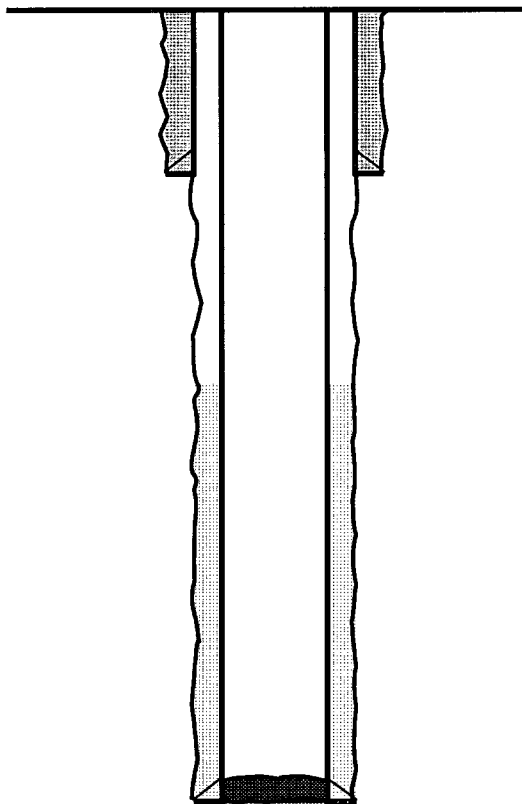
Production Casing

Size: 5 1/2"
 Wt.: 14#, K-55
 Set @: 4800'
 Sxs Cmt: 500
 Circ: ?
 TOC: 1150'
 Hole Size: 7 7/8"

TD: 4800'
PBTD: 4789'

Perforations:

2 JSPF 4333'-4781'



KB: 4009'
 DF: 4008'
 GL: 3996'
 Original Spud Date: 1/9/1973
 Original Compl. Date: 1/28/1973

TD: 4800'

Remarks:

VGSAU 34

API # 30-025-24312

2630' FSL & 2630' FEL
SEC 1, TWN 18-S, Range 34-E, County Lea
ELEVATION: 4001' GL, 4011' KB
Completed: 1/15/73

Surface Casing:

11" hole
8 5/8" csg - 20#
set @ 352'. Cemented w/ 210
sx class "C" cmt w/ 2% CaCl.
Cement to surface. (12/8/1972)

Production Casing:

7-7/8" hole
5-1/2" csg - 14#
set @ 4800' Cemented w/ 550 sx
class "C" cmt. (12/29/1972)

TOC @ 2400

Perforations:

4242'-4312': 1 jspf, 71'
acid w/ 8000 gals 15% NEFE and 4000 #
rocksalt in 3 stages.

Pmax: 2200psi, Pmin: 1400 psi, AIR: 4
bpm, ISIP=1700 psi (3/10/86)

4334'-4792': 4334, 40, 50, 58, 68, 78,
88, 99, 4408, 18, 32, 44, 83, 94, 4505,
10, 18, 27, 32, 50, 64, 88, 4600, 11, 64,
77, 96, 4744, 47, 52, 55, 83, 84, 88,
4792.

2 JSPF, 35', 70 holes. Acid w/ 9000 gals
20% NEA in 3 stages and ball sealers

(1/15/73)

Brief Workover History:

7/2/74: Frac & Acid: Frac 4334'-4611' w/ 1500# sand and 500 gals
15% NEA acid. Acidized f/ 4334'-4792' w/ 4,000 gals 15% NEA.

5/26/83: Convert to Injection & acid perfs 4334'-4792' w/ 750 gals 15%
NEFE.

3/10/86: Add perfs: Perforate 4242'-4312' (71'). Acidize perfs w/ 8,000
gals 15% NEFE. P=1400-2200 psi, AIR=4 bpm, ISIP=1700 psi.

5/24/91: Permission to increase pressure to 1140 psi

11/10/93: Permission to bump pressure to 1395 psi.

4/30/96 to 5/3/96: Tagged @ 4180'. C/O to 4799'. Set Pkr at 4132'. Acid
perfs f/ 4242' to 4792' w/ 7100 gals 15% NEFE HCl + 3500# rock salt.
Pmax= 4000 psi, Average rate= 4 bpm, ISIP=1000 psi. Run 133 Joints 2
3/8" IPC injection tubing. Set packer @ 4077'. Chart.

5/1/03: Attempt to do Injection Profile: Run Sinker bars (1 3/8" on
april 29th and 1" tools on may 1st) and tagged @ 4127'. Had to jar and
work wireline to free tools. TOH.

Last Step Rate:

Date: 4-6 October, 1993

Maximum Injecting Pressure: 1395 psi

INJECTION EQUIPMENT:

1- 5 1/2" ADI PC INJ PKR

133- JOINTS 2-3/8" IPC Injection Tbg.

PACKER SET @: 4077'

Zones

Top	Depth	Interval
GB Marker	4,079	
GB Dol Top	4,175	40
GB Dol Bott	4,215	23
San Andres	4,238	236
LSA	4,474	234
O/W	4,708	

TOTAL

533

PBTD @ 4799'

COMMENTS AND RECOMMENDATIONS:

- When the perfs were added in 3/10/86 there was a clear change in injection rate. This is strange being that the lower San Andres is a more continuous zone than Upper and the new perforations were all in the upper. The only noticeable difference was the type of perforations used.

VGSAU 35 WIW

API # 30-025-24361

2630' FNL & 1330' FEL
SEC 1, TWN 18-S, Range 34-E, County Lea
ELEVATION: 3988' GL, _____' DF
Completed: 3/21/73

Surface Casing:

12 1/4" hole
8 5/8" csg - 20#
set @ 357'. Cemented w/ 300
sx class "C" Cement to
surface. (3/15/73)

Production Casing:

7-7/8" hole
4-1/2" csg - 9.5#
set @ 4800' Cemented w/ 450
sx class "C" cmt w/ 12% gel and 200
sx class "C" cmt w/ 10#/sx salt
(3/24/73)

4 1/2" csg-10.5# @ 1040'. Ran in
11/11/81.

TOC @ 800'.

Perforations:

4360'-4737': 4360, 74, 92, 4405, 11,
25, 37, 48, 56, 68, 83, 4507, 16, 29,
59, 69, 72, 98, 4616, 24, 52, 56, 81,
91, 4707, 27, 4737. (3/27/73)

2 JSPF, 27', 54 holes. Acid w/ 6000
gals 20% NEA in three stages
(3/27/73)

4254'-4338': 1 jspf. No more deatils.
Acid w/ 8000 gal 15%. Asumming
continuos interval: 84', 84 holes
(3/21/86).

4112'-4237': 4112-26, 31-37, 48-54,
60-66, 68-78, 4192-4200, 4202-06, 10
14, 22-26, 28-37. Acid w/ 3300 gals
20% HCl. (5/28/96)

Brief Workover History:

7/12/74: Repaired casing leak between 1008' & 1071'. Retrieved 850' of 4 1/2" parted casing. Squeezed 100 sx class "c" cmt w/ 2% CaCl and 200Sx class "c" cmt. Run PC tbg and set pkr @ 4285'.

10/19/74: Pulled PC tbg. C/O fl 4610 to 4788'. Acid perfs 4652-4737 w/ 3000 gal 20% NEA in 3 stgs. Acid perfs 4360'-4624' in 6 stages. Set pkr @ 4285'. RTL

11/11/81: Pulled 881' of 4 1/2" casing. Recover additional 129' of csg. Ran 1040' 4 1/2" 10.5# csg. Cement 4 1/2" csg w/ 350 Sx class "H" cement w/ 2% CaCl. Top of cmt @ 800' by temperature survey. Run PC tbg and set pkr @ 4200'.

3/21/86: C/O to 4744' w/ 3 7/8" bit. Perforate interval 4254'-4338' w/ 1 spf. Acidized perfs 4254'-4737' w/ 8000 gal gelled 15% NEFE acid in 3 stgs. AIR=5.3 bpm. Found leak in csg. Repair leak @ well head level. Push RBP to bottom. Run duoline tbg and set pkr @ 4174'.

4/17/92: C/O to 4744' (PBTB). Acid perfs 4254'-4737' w/ 7500 gal 20% HCl NEFE, 3000# RS, 269 BS's in 3 stages. Pmax=2466 psi, AIR=4 bpm. RTL

5/28/96: C/O to 4717'. Acidized perfs 4254'-4737' w/ 4900 gals 20% NEFE HCl, RS @ 3-4 bpm and Pmax pf 4000 psi. Perforated w/ 2 jspf the interval 4112'-4237' (162 holes, 81 ft). Acidized new perfs w/ 3300 gals 20% NEFE HCl @ 3-4 bpm and Pmax of 4000 psi. Run cement-lined tbg and set pkr @ 4066'.

5/26/99: Tag @ 4110'. C/O to 4558'. Set CIBP @ 4495'. Acid perfs 4112'-4468' w/ 3500 gals 15% NEFE acid. Set Pkr @ 4076'.

6/19/00: Tag CIBP @ 4495'. C/O to 4690'. Acid perfs 4112'-4690' w/ 7000 gals 20% NEFE. run Duolined tbg and set Pkr @ 4067'

Last Step Rate:

Date:

Maximum Injecting Pressure:

INJECTION EQUIPMENT:

1- 4 1/2" LOCKSET NICKEL COATED
4067- FEET 2-3/8" NEW RICE DUOLINED TBG.

PACKER SET @: 4067'

Zones

Top	Depth	Interval
GB Marker	4,078	
GB Dol Top	4,190	33
GB Dol Bott	4,223	29
San Andres	4,252	232
LSA	4,484	210
O/W	4,694	

TOTAL

504

PBTB @: 4690'

COMMENTS AND RECOMMENDATIONS:

CURRENT
WELLBORE DIAGRAM

Created: 7/7/2003 By: SMG
Updated: 8/26/2003 By: BJH
Lease: Vacuum Grayburg San Andres Unit
Surface Location: 1980' FNL & 660' FWL
Bottomhole Location: Same
County: Lea
Current Status: Active Oil Well
Directions to Wellsite: Buckeye, New Mexico

Well No.: 40
Unit Ltr: E
Unit Ltr: E
St Lease: B-1080
Elevation: 4008' DF
Field: Vacuum Grayburg San Andres
1 TSHP/Range: 18S-34E
Sec: TSHP/Range:
API: 30-025-02252 Cost Center: BCT492200

Surface Casing

Size: 8 5/8"
Wt.: 28#, LW
Set @: 1559'
Sxs cmt: 300
Circ: Yes
TOC: Surface
Hole Size: 10 3/4"

Production Casing

Size: 5 1/2"
Wt.: 17#
Set @: 4076'
Sxs Cmt: 200
Circ: Yes
TOC: 2180'; 70% Fill
Hole Size: 6 3/4"

Open Hole

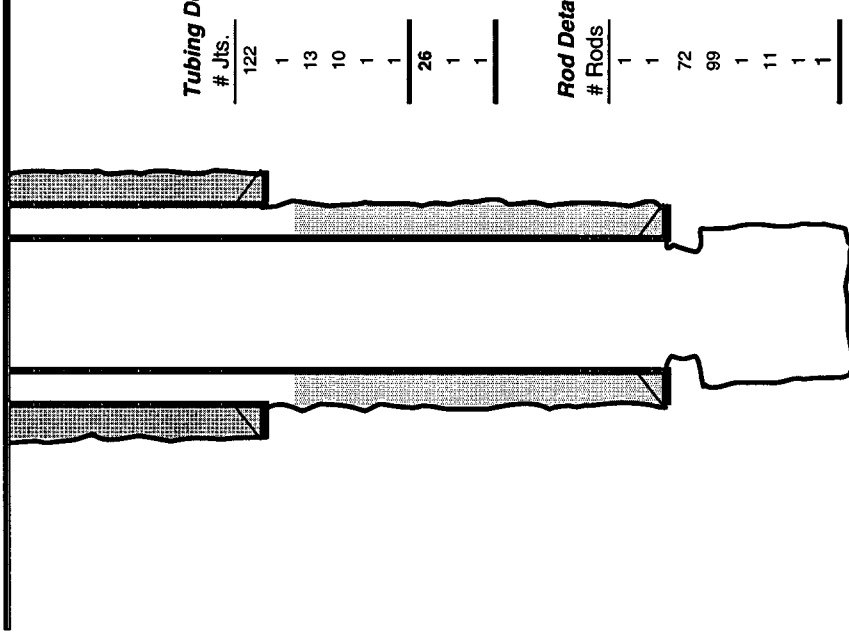
Hole Size / Depth
Hole Size / Depth
4 3/4' / 4076' - 4325'
6 1/4' / 4325' to 4712'

TD:

4710'

PERFS:

Squeeze Perfs
1585'-1585'; 230 sxs.



TD: 4712'

Tubing Detail			Date: 06/23/03
# Jts.	Size	Footage	
122	2 7/8" J55 bare cl. 'B'	3844.3	
1	5-1/2" X 2-7/8" TAC	2.78	
13	2 7/8" J55 bare cl. 'B'	410.45	
10	3 1/2" J55 bare cl. 'B'	318.23	
1	2-7/8" SS Blast Joint	36.13	
1	2-7/8" Seat nipple	1.1	
26	Pump Intake	4612.99	
1	2-7/8" Perf Sub	4	
1	2-7/8" X 3-1/2" MA	30	
	EOT	4646.99	

Rod Detail			Date: 06/23/03
# Rods	Size	Footage	
1	1-1/2" POR	26.00	
1	1" "KD" Pony rods	2.00	
72	1" "KD" Rods Class "B"	1800.00	
99	7/8" "KD" Rods Class "B"	2475	
1	7/8" "KD" Pony Class "B"	1	
11	1-3/4" K-Bars	275	
1	Pump 2.5 X 2 X 24	24.00	
1	Gas Anchor 1-1/4"	12	
		4615.00	

Pump Detail

Date: 06/23/03
Barrel: 24' BRNY w/ .001 flt
Plunger: 4' AXMP w/ .004 flt
Pump: Total Flt 0.005
Seats: T/C

Remarks:

**CURRENT
WELLBORE DIAGRAM**

Created:	<u>5/18/2004</u>	By: <u>SMG</u>			
Updated:		By: _____			
Lease:	<u>Vacuum Grayburg San Andres Unit</u>	Well No.: <u>47</u>	Field: <u>Vacuum Grayburg San Andres</u>		
Surface Location:	<u>1330' FNL & 10' FEL</u>	Unit Ltr: <u>H</u>	Sec: <u>2</u> TSHP/Range: <u>18S-34E</u>		
Bottomhole Location:		Unit Ltr: _____	Sec: _____ TSHP/Range: _____		
County:	<u>Lea</u>	St: <u>NM</u>	API: <u>30-025-24365</u>	Cost Center:	
Current Status:	<u>Active Water Injection Well</u>	St Lease: <u>B-867-1</u>		TEPI:	<u>BCT493000</u>
Directions to Wellsite:	<u>Buckeye, New Mexico</u>	Elevation: <u>4003' GR</u>		MVP:	<u>BCT494500</u>

Surface Csg.

Size:	<u>8 5/8"</u>
Wt.:	<u>20#, K-55</u>
Set @:	<u>355'</u>
Sxs cmt:	<u>300</u>
Circ:	<u>Yes</u>
TOC:	<u>Surface</u>
Hole Size:	<u>12 1/4"</u>

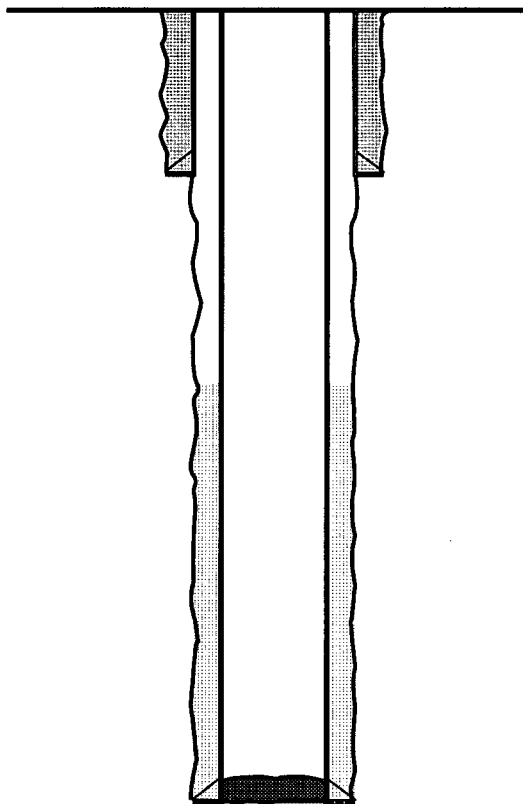
Production Casing

Size:	<u>4 1/2"</u>
Wt.:	<u>9.5#, J-55</u>
Set @:	<u>4800'</u>
Sxs Cmt:	<u>600</u>
Circ:	<u>Yes</u>
TOC:	<u>2460'</u>
Hole Size:	<u>7 7/8"</u>

TD:	<u>4800'</u>
PBTD:	<u>4788'</u>

Perforations:

<u>2 JSPI, 30 intervals</u>	<u>4361'-4739'</u>
-----------------------------	--------------------



KB:	_____
DF:	_____
GL:	<u>4010'</u>
Original Spud Date:	<u>3/24/1973</u>
Original Compl. Date:	<u>4/4/1973</u>

TD: 4800'

Remarks:

VGSAU 48

API # 30-025-24322

1330' FNL & 1330' FWL
SEC 1, TWN 18-S, Range 34-E, County Lea
ELEVATION: 3994' GL, 4005' DF
Completed: 2/8/73

Surface Casing:

11 3/4" hole
8 5/8" csg - 20#
set @ 355'. Cemented w/ 300 sx class "C" cmt
w/ 2% CaCl. Cement to surface. (1/24/1973)

Production Casing:

7-7/8" hole
5-1/2" csg - 14#
set @ 4800' Cemented w/ 300 sx class "C" cmt 12%
gel & 200 Sx cl "C" cmt w/ 10# salt/sx. (2/2/1973)

TOC @ _____

Perforations:

4389'-4730' (26'): 4389, 4402, 10, 38, 45, 75, 80,
90, 96, 4506, 26, 36, 42, 49, 66, 74, 81, 4646, 59,
62, 78, 88, 4705, 13, 19 & 4730 w/ 2 jspf (26', 52
holes)
acid w/ 8000 gals 20% NEFE in 4 stages w/ 48 ball
sealers. (2/2/73)
4280'-4372': 4280, 84, 93, 4301, 10, 14, 27, 33, 45, 50,
56, 67 and 4372 (26 holes). (8/22/87)
4710'-4301': 4656'-4710', 4500'-84', 4487'-99', 4472'-
84', 4432'-50', 4398'-4408', 4388'-93', 4333'-76', 4301'-
27',

Brief Workover History:

02-08-1973 New well. TD 4800', PBTD 4788', Perfs 2JSPI @
4389,4402,10,38,45,75,80,90,96, 4506,26,36,42,
49,66,74,81,4646,59,62,78,88,4705,13,19 and 4730', Acidized perfs with 8000 gals
15% NEA in 4 stages. 210 Oil 11 Water 495 Gas 2296 GOR 36.1 API.
04-23-1974 Fraced perfs 4389-4730' (PKR @ 4352') with 28000 gals Emulsifrac and
28000# sand in 2 stages. Before 82 Oil, after 162 Oil 18 Water 1987 GOR 35.9 API.
01-26-1983 CO & acidized perfs 4389-4730' with 500 gals 15% NEA. Ran 2 3/8"
plastic coated tubing with PKR set @ 4331. Converted to an injection well.
8-22-1987 CO to PBTD 4758', spotted 275 gals bleach & sqz across perfs 4389-4730'.
Perfs 2JSPI @ 4280,84,93,4301,10,14,27,33,45,50,56,67 and 4372 (26 holes). Acidized
perfs 4646-4730' with 3000 gals 15% NEFE. Acidized perfs 4280-4581' with 6000 gals
15% NEFE in 3 stages.
03-13-1991 CO to PBTD 4788', spotted 450 gals 4% Na perborate across 4280-4730'
and SL. Spotted 450 gals Na perborate, 500 gals 15% NEFE & 1 drum TW425 across
4280- 4730' and acidized with 6100 gals 15% NEFE. Swabbed well. TIH w/ pkr (AD1)
& OPC tbg. Returned to injection.
11/12/01-11/30/01: Tagged @ 4244'. C/O to 4788'. Run RBP & pkr. Test csg OK. Set
RBP @ 4217'. Run USI log f/ 4195' to 100'. Release RBP. Perf 4656'-4710', 4500'-84',
4487'-99', 4472'-84', 4432'-50', 4301'-27', 4333'-76', 4388'-93', 4398'-4408'. Acid perfs
4280'- 4710' w/ 8000 gls 15% HCL. RIH and tag @ 4750'. Set pkr @ 4208'. RWTL

INJECTION EQUIPMENT:

1- 5 1/2" Nickle Plated Lockset pkr w/ O/F tool
128- JOINTS 2-7/8" Rice Duolined Injection Tbg.

PACKER SET @: 4208'

Zones

Top	Depth	Interval
GB Marker	4,140	
GB Dol Top	4,250	40
GB Dol Bott	4,290	10
San Andres	4,300	162
LSA	4,462	242
O/W	4,704	

TOTAL

454

PBTD @ 4750'

COMMENTS AND RECOMMENDATIONS:

VGSAU 56

API # 30-025-02251

471' FNL & 1960' FWL
SEC 1, TWN 18-S, Range 34-E, County Lea
ELEVATION: 4064' GL, _____' DF
Completed: 4/21/1940

Surface Casing:

9 5/8" hole
7 5/8" csg - 26.4# , LW casing
set @ 1521' Cemented w/ 200 Sacks. Complete
Job w/ 100 Sx cmt w/ 1" pipe behind casing
(3/22/1940)

Production Casing:

6-3/4" hole
5-1/2" csg - 17# , Seamless (3956' Csg).
set @ 3968' Cemented w/ 200 sx. (4/7/1940)

TOC @ _____

Perforations:

3968'-4100': 4 3/4" OPEN HOLE
4100'-4710': 6 1/4" OPEN HOLE (7/7/93)

Brief Workover History:

4/21/1940 : Initial Completion.

10/17/1972: Acidized Open Hole.

2/9/79: Log Well & Fracture Treatment: C/O open hole to 4710'. Log well GR CNL. Set pkr @ 4375' and acidize 4375'-4710' w/ 6000 gls 15% HCl in 3 stages. Frac Open Hole 4375'-4710' w/ 30,000 gls emulsifrac, 42,000 # 20/40 sand in 2 stages using rock salt & 250 # benzoic acid flakes between stages.

1986-90: 15 Failures

1991: 2 failures

1992: 4 failures

3/1993: Rod Pump Failure.

6/22/93- 7/7/93: Under-reamed & Acidize: Tagged @ 4710'. Under-Reamed 4100'-4710'. Set pkr @ 3200'. Acid open hole w/ 6,000 gls 15% HCl, 4 bpm.

7/15/97- 7/28/97: Fracture Treatment: Tagged @ 4690'. Plug back the wellbore to 4523' w/ sand (LSA @4464'). Set pkr @ 3891'. Frac Open Hole w/ 28,000 gls 40# XL, 78,000 # 16/30 resin coated sand. Pmax=9100 psi, AIR=35 bpm (Screen Out). C/O 3 1/2" tbg f/ 3300' to 4024'. TOH w/ Pkr. C/O sand and Fiber glass to 4550'. RWTP.

8/6/97: DHS due to Lightning. Pump worn out due to sand. Run Stanley Filters.

5/2/2000: Upgrade Submersible.

6/16/2000: DHS: Improper installation of ESP. C/O to 4710'

6/12/2001: DHS: Corrosion and scale in pump.

4/8/2003: Well connected to new Satellite for CO2 gas handling.

12/16/03: Clean out to 4710'. acidize w/6,000 gals dad acid, 4000# rock salt, chemical squeeze.

Pump @ 4472'

Zones

Top	Depth	Interval
GB Marker	4,120	
GB Dol Top	4,225	33
GB Dol Bott	4,258	12
San Andres	4,270	194
LSA	4,464	239
O/W	4,703	

TOTAL 478

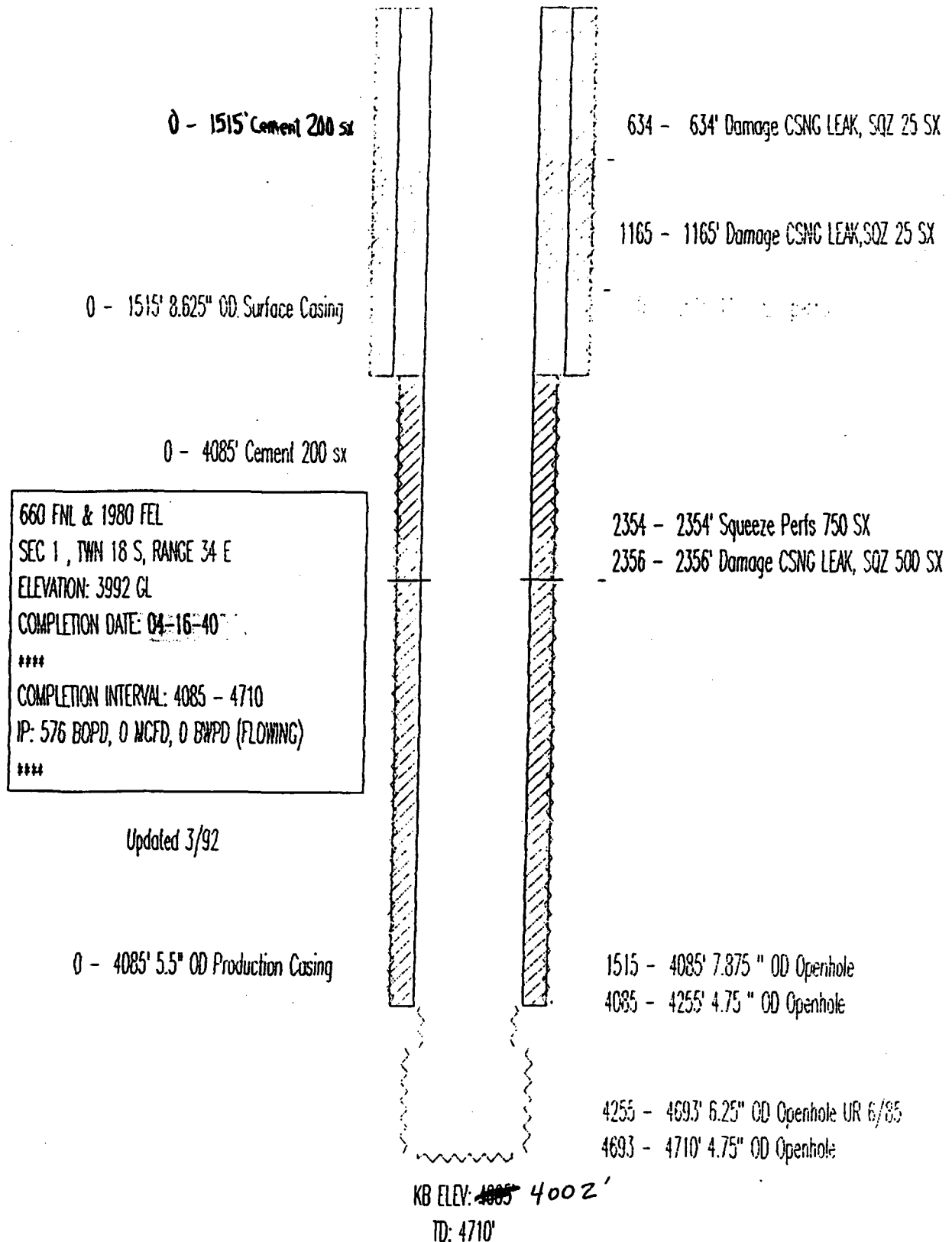
PBTD @ 4710'

COMMENTS AND RECOMMENDATIONS:

136 jts 2 3/8" j-55 tbg 4443', 1-2 3/8" dran valve .52', 1-2 3/8" tbg sub 4.10', 1-2 3/8" check valve .52', 1-2 3/8" tbg sub 4.00', 2 7/8" x 2 3/8" xo .75', pump 19', seal 5.6', intake 1.1' motor 20.9'.

pump @ 4472'. Bop @ 4500'. Intake @ 4479'.

TEXACO INC
VACUUM GRBG-SADR UN NO. 57
API# 30025990310000



VGSAU 126H

API # 30-025-32026

1980' FSL & 1308' FWL
SEC 1, TWN 18-S, Range 34-E, County Lea
ELEVATION: 3993' GL, 4008' KB, 4007' DF
Completed: 8/11/93

Surface Casing:

11" hole
8 5/8" csg - 24#
set @ 1500'. Cemented w/ 650 sx class "C" cmt
Cement to surface (74 Sx). (7/14/93)

Production Casing:

7 7/8" hole
5 1/2" csg - 15.5#
set @ 4900'. Cemented w/ 1300 Sx cl "H" cmt.
Flow to surface 71 Sx. (7/24/93)

# Jts.	Size	Footage	Depth
1	2-7/8" N-80 tbg sub	4.00	17.00
1	2-7/8" N-80 tbg sub	10.00	27.00
130	2-7/8" J-55 Lonestar tbg "B"	4117.00	4144.00
1	2-7/8" Drain Valve - nickel	0.55	4144.55
1	2-7/8" N-80 tbg sub	6.00	4150.55
1	2-7/8" check valve	0.58	4151.13
1	2-7/8" N-80 tbg sub	6.00	4157.13
1	4-1/2" Centrilift Sub Pump	22.55	4179.68
1	Intake	0.87	4180.55
1	4-1/2" Seal	5.57	4186.12
1	4-1/2" Motor	23.32	4209.44

Horizontal Completion:

Top of Window: 4,241'
Bottom of Window: 4,248'
Kick Off Point: 4,251'
Total Measured Depth of Lateral: 6,133'
Total Vertical Depth of Lateral: 4,588'
Direction: East-West: 1650.20', North: 3.11'
Size Of Hole: 4 3/4"

Brief Workover History:

8/11/93: Initial Completion. Perf w/ 2 jpf from 4728' to 4257'. Acid w/ 14,000 gals 15% HCL.
6/4/94: Acid Job: Tag @ 4814'. Acid w/ 10,000 gals acid. Pmax=2050 psi, AIR=4 bpm.
6/6/97: Fracture Treatment: C/O to 4596'. Set CIBP @ 4570' to isolate LSA. Frac perfs 4257'-4564' through 3 1/2" tubing w/ 29,000 gls 40# XL fluid and 94,000# 16/30 curable resin coated. Pmax=6550 psi, AIR= 35 bpm, ISIP= 3600 psi. C/O to 4570'. Drill CIBP and C/O to 4736'.
1/21/02: Acid Treatment: Tag @ 4716'. C/O to 4750'. Acid w/ 8,000 gls acid. Pmax=2050 psi, AIR=4 bpm. C/O to 4750'. Run motor to 4562'.
5/20/03: Sub Failure: Pump filled w/ junk. Emulsion in check valve.
11/15/03- 11/21/03: Drill 4 3/4" Lateral East-West.
11/24/03- 12/03/03: Acid Lateral w/ 60,000 gls acid and 34,500 gls gel fluid in 5 stgs. Avg/Max Psi: 4015/5097. Avg/Max bpm: 33.7/40.5. 1491 psi ISIP.
2/18/04 - 2/26/04 Fish out Whipstock and drill out CIBP to reopen SA perfs

Perforations Vertical Section:

4326'-4807':

4257'-4728': 4257'-61', 65'-73', 77'-81', 4284'-4312', 15'-22', 25'-30', 33'-44', 47'-48', 53'-64', 67'-76', 4395'-4407', 11'-13', 19'-26', 30'-37', 45'-65', 77'-81', 85'-91', 96'-97', 4499'-4502', 06'-07', 11'-14', 18'-22', 25'-35', 39'-48', 51'-56', 61'-64', 74'-77', 80'-83', 88'-96', 4601'-4604', 07'-13', 18'-25', 29'-44', 54'-57', 62'-69', 72'-79', 95'-98', 01'-03', 4705'-4707', 11'-22', 24'-28'.
422 holes, 2 JPF. Acid w/ 14000 gals 15% HCL. Completed 8/11/93

Zones

Top	Depth	Interval
GB Marker	4,167	
GB Dol Top	4,270	42
GB Dol Bott	4,312	24
San Andres	4,336	254
LSA	4,590	118
O/W	4,708	

TOTAL

438

PBTD @ 4750' Last C/O

COMMENTS AND RECOMMENDATIONS:

Updated 4/13/2004 by Cassie Viets

VGSAU 128

API # 30-025-32028

1980' FSL & 1220' FEL
SEC 1, TWN 18-S, Range 34-E, County Lea
ELEVATION: 3985' GL, 3999' KB
Completion Date: 9/29/93

Surface Casing:

11" hole
8 5/8" csg - 24#, WC-50, STC
set @ 1470'. Complete Cement to
surface w/ 500 Sx cmt 13.5 ppg
and 150 Sx 14.8 ppg class "C"
cmt (8/4/93)

Production Casing:

7-7/8" hole
5-1/2" csg - 15.5#, WC-50, LTC
set @ 4900'. Cemented w/ 850 Sx cl
"H" 12.8 ppg and 200 Sx Cl "H"
15.6 ppg. Circulated 151 Sx.

TOC @ Surface

Packer
Fluid

Perforations:

4240'-4788': 2 jpf, 120° phasing 0.44"
hole, 364 holes (182 ft)
Acid w/ 16100 gal 15% HCl (8/29/93)
Frac w/ 100200 gal XL, 193,000 #
20/40. (9/22/93)
4165'-4226': 110 holes, 2 jspf, 120 ph.
Acid new perms w/ 4000 gals 15% NCl
Pave= 3800 psi, AIR 3.5 bpm. (6/18/95)

Workover Brief History:

9/29/93: **Initial Completion:** Perf 4240-4788 (2 jspf, 364 holes). Acid w/
16,100 gal 15% HCl. Frac perms w/ 193,000 # 20/40 sand. Clean Out to 4846'
(new PBTD) Run rods and pump. S/N @ 4798'

5/28/94: **Acid:** C/O to 4846'. Spudded 1000 gal Amm. Bicarb. and 1000 gals
15% HCl. Set pkr @ 3450' and pump 9000 gals 15% HCl. Pmax=2623 psi,
AIR=4 bpm. SIS. Run rods & tbq.

6/18/95: **C/O, add pay and acidized.** Perforated 4165'-4226' (110 holes). set
RBP at 4235'. Acid new perms w/ 4000 gals 15% NCl. Pave= 3800 psi, AIR 3.5
bpm. Pump chemical Squeeze. Run Prod equipment.

5/2/97: **Fracture Treatment Upper San Andres:** C/O to 4758'. Set
CIBP @ 4596'. Shot frac Window f/ 4445' to 4465' w/ 4 Jspf. Set Pkr @
4046'. Pump SIS. Fracture Perfs f/ 4165' to 4587' w/ 38,000 gal XL,
125,000# 16/30 curable RC sand. Pmax=4600 psi, AIR=35 bpm. Tagged
@ 4449'. C/O sand to 4596'. Drilled CIBP and push to 4840. Run
Production equipment.

7-16-02: **TA:** Set CIBP @ 4100'. Pump packer fluid. Test casing to 500
psi and held for 30 min. Rig Down.

CIBP @ 4100' (7/16/2002)

Zones

Top	Depth	Interval
GB Marker	4,107	
GB Dol Top	4,175	35
GB Dol Bott	4,210	15
San Andres	4,225	283
LSA	4,508	192
O/W	4,700	

TOTAL 525

PBTD @ 4846' Initial Completion

COMMENTS AND RECOMMENDATIONS:

VGSAU 128H

API # 30-025-32028

1980' FSL & 1220' FEL

SEC 1, TWN 18-S, Range 34-E, County Lea

ELEVATION: 3985' GL, 3999' KB

Completion Date: 9/29/93

Surface Casing:

11" hole

8 5/8" csg - 24# , WC-50, STC

set @ 1470'. Complete Cement to surface w/ 500 Sx cmt 13.5 ppg and 150 Sx 14.8 ppg class "C" cmt (8/4/93)

Production Casing:

7-7/8" hole

5-1/2" csg - 15.5#, WC-50, LTC

set @ 4900'. Cemented w/ 850 Sx cl "H" 12.8 ppg and 200 Sx Cl "H" 15.6 ppg. Circulated 151 Sx.

TOC @Surface

Horizontal Completion:

Top of Window: 4,064'

Bottom of Window: 4,071'

Kick Off Point: 4,074'

Total Measured Depth of Lateral: 6,037'

Total Vertical Depth of Lateral: 4,396'

Direction: East-West

Size Of Hole: 4 3/4"

Workover Brief History:

2/29/93: Initial Completion: Perf 4240-4788 (2 jsf, 364 holes). Acid w/ 16,100 gal 15% HCl. Frac perfs w/ 193,000 # 20/40 sand. Clean Out to 4846' (new PBTB) Run rods and pump. S/N @ 4798'

5/28/94: Acid: C/O to 4846'. Spudded 1000 gal Amm. Bicarb. and 1000 gals 15% HCl. Set pkr @ 3450' and pump 9000 gals 15% HCl. Pmax=2623 psi, AIR=4 bpm. SIS. Run rods & thg.

6/18/95: C/O, add pay and acidized. Perforated 4165'-4226' (110 holes). set RBP at 4235'. Acid new perfs w/ 4000 gals 15% NCl. Pave= 3800 psi, AIR 3.5 bpm). Pump chemical Squeeze. Run Prod equipment.

5/2/97: Fracture Treatment Upper San Andres: C/O to 4758'. Set CIBP @ 4596'. Shot frac Window f/ 4445' to 4465' w/ 4 Jspf. Set Pkr @ 4046'. Pump SIS. Fracture Perfs f/ 4165' to 4587' w/ 38,000 gal XL, 125,000# 16/30 curable RC sand. Pmax=4600 psi, AIR=35 bpm. Tagged @ 4449'. C/O sand to 4596'. Drilled CIBP and push to 4840. Run Production equipment.

7/16/02: TA: Set CIBP @ 4100'. Pump packer fluid. Test casing to 500 psi and held for 30 min. Rig Down.

6/2/03 - 6/3/03: Run Casing Caliper Log f/ 4100' to surface. Return well to TA.

7/14/03: Set CIBP @ 4,077'. Prepare well for horizontal Lateral.

7/18/03 - 7/24/03: Drill Lateral 4 3/4" hole from 4060' MD to 6,037' MD. Left whipstock in the hole @ 4,060'. Left RBP @ 3865'.

CIBP @ 4100' (7/16/2002) & CIBP @ 4077' (7/14/03)

Perforations:

4240'-4788': 2 jsf, 120" phasing 0.44" hole, 364 holes (182 ft)

Acid w/ 16100 gal 15% HCl (8/29/93)

Frac w/ 100200 gal XL, 193,000 # 20/40. (9/22/93)

4165'-4226': 110 holes, 2 jsf, 120 ph.

Acid new perfs w/ 4000 gals 15% NCl. Pave= 3800 psi, AIR 3.5 bpm. (6/18/95)

Zones

Top	Depth Top	Interval
GB Marker	4,107	
GB Dol Top	4,175	35
GB Dol Bott	4,210	15
San Andres	4,225	283
LSA	4,508	192
O/W	4,700	

TOTAL

525

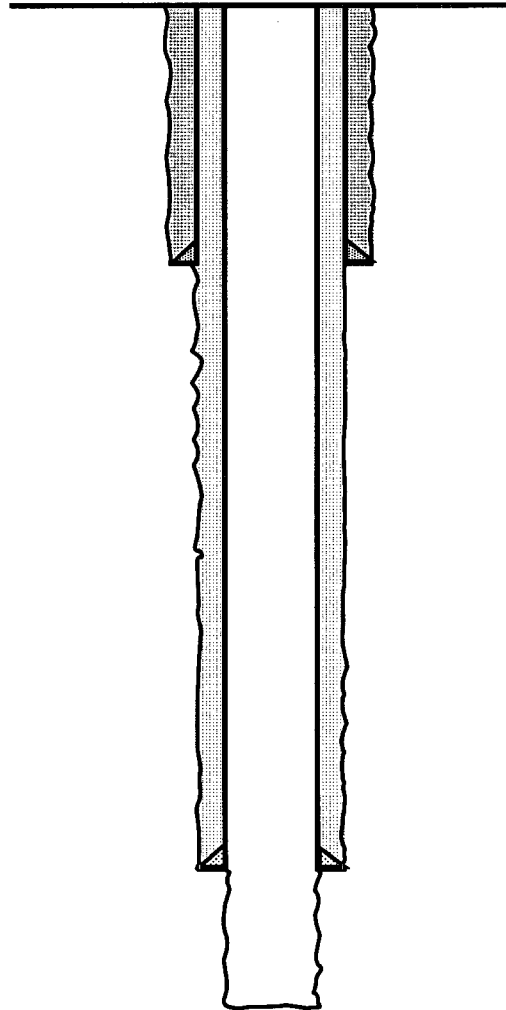
PBTB @ 4846' Initial Completion

COMMENTS AND RECOMMENDATIONS:

**CURRENT
WELLBORE DIAGRAM**

Created:	11/24/2003	By: SMG	Well No.:	133	Field:	Vacuum Grayburg San Andres
Updated:		By:	Unit Ltr:	E	Sec:	1
Lease:	Vacuum Grayburg San Andres Unit		Unit Ltr:		Sec:	
Surface Location:	2590' FNL & 1270' FWL		St Lease:		API:	30-025-35686
Bottomhole Location:	Same	St: NM	Elevation:	3992' GL	Cost Center:	BCT492200
County:	Lea					
Current Status:	Active Water Injection Well					
Directions to Wellsite:	Buckeye, New Mexico					

Surface Csg.	
Size:	8 5/8"
Wt.:	24#
Set @:	1561'
Sxs cmt:	700 sxs
Circ:	Yes
TOC:	Surface
Hole Size:	12 1/4"
Production Csg.	
Size:	5 1/2"
Wt.:	15.5#
Set @:	4263'
Sxs Cmt:	850 sxs
Circ:	Yes
TOC:	Surface
Hole Size:	7 7/8"
Perforations:	
Grayburg	4247'-4700'
TD:	4700'
Open Hole	
Hole Size:	4 3/4"
Depth:	4247'-4700'



KB:	N/A
DF:	N/A
GL:	3992'
Spud Date:	12/27/2001
Compl. Date:	1/25/2002

TD: 4700'

Remarks:

VGSAU 135

API # 30-025-35561

2535' FNL & 1930' FEL
SEC 1, TWN 18-S, Range 34-E, County Lea
ELEVATION: 3988' GL, 4002' KB
Completed: 8/10/2001

Surface Casing:

12 1/4" hole
8 5/8" csg - 24#
set @ 1544'. Cemented w/ 700 sx class
"C" cmt. Did not circulate cmt to
surface. TOC @ 96' based on Temp.
Survey. Complete Job w/ 93 Sx cmt w/
1" pipe (7/19/01)

Production Casing:

7-7/8" hole
5-1/2" csg - 15.5#
set @ 4755' Cemented w/ 950 sx 35/65 poz
"H" cmt in 2 stages 800 sx 12.8 ppg ans 150
sx 16 ppg. Circulated 138 Sx to surface
(7/26/01)

TOC @ Surface

Perforations:

4467'-4679': 4467-73 (6), 4491-96 (5), 4500-08
(8), 4520-23 (3), 4529-31 (2), 4546-49 (3), 4453-
58 (5), 4564-74 (10), 4587-89 (2), 4593-95 (2),
4607-13 (6), 4630-34 (4), 4638-46 (8), 4666-72
(6), 4674-4679 (5).
2 JSPF, 120 deg, 0.47", 75', 150 holes. Acid w/
5700 gals 15%HCl w/ 2000 # Rock Salt, P=3000-
6000 psi @ 5-6 bpm after breakdown.
ISIP=1700# (8/7/01)

4300'-4450': 4300-05, 4314-26, 4346-55, 4362-
66, 4370-76, 4386-98, 4404-08, 4417-27, 4438-50
2 JSPF, 120 deg, 0.47", 74', 148 holes. Acid w/
5600 gals 15%HCl w/ 2500 # Rock Salt,
Pave=1900 psi @ 5 bpm. ISIP=1800# (8/10/01)

Last Workover:

7/26/2001: Drilling Completed: See Wellbore Diagram.

8/12/01: Completion Terminated: Tagged @ 4723'. Perf w/ 4" HEGS
guns Lower San Andres w/ 2 jspf, 120 deg. phasing, 0.47" holes: 4467'-
4679'. Acid w/ 5700 gal 15% HCl acid + 2000 lbs rock salt. AIR=4-5
bpm, ISIP=1700 psi. Open perfs 4300'-4350' (74', 148 holes) w/ 2 jspf,
0.47"holes, 120 degrees phasing. Acid perfs w/ 5600 gal 15% HCl +
2500 lb rocksalt. AIR=5 bpm, Pave=1900 psi, ISIP=1800 psi. Well on
Vacuum. Ran 137 JTS 6.5# J55 Duolined Tbg w/ 5 1/2" Nickel Plated
Lockset Pkr, Nickel plated O/F tool, , 1.78" profile. Set packer @ 4261'.

Last Step Rate:

Date: 17-18 February, 2002.

Maximum Injecting Pressure: 1900 psig

INJECTION EQUIPMENT:

1- 5 1/2" NICKEL PLATED LOCKSET PACKER
1- NICKEL PLATED O/F TOOL (1.78"PROFILE)
132- JTS 2-7/8" DUOLINED 6.5# J55 Injection Tbg.

PACKER SET @ 4261'

Zones

Top	Depth	Interval
GB Marker	4,081	
GB Dol Top	4,174	43
GB Dol Bott	4,217	30
San Andres	4,247	248
LSA	4,495	205
O/W	4,700	

TOTAL 526

PBTD @ 4723'

COMMENTS AND RECOMMENDATIONS:

**CURRENT
WELLBORE DIAGRAM**

Created: 5/7/2004 By: SMG
 Updated: _____ By: _____
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 1980' FNL & 10' FEL
 Bottomhole Location: _____
 County: Lea St: NM
 Current Status: Active Oil Well
 Directions to Wellsite: Buckeye, New Mexico

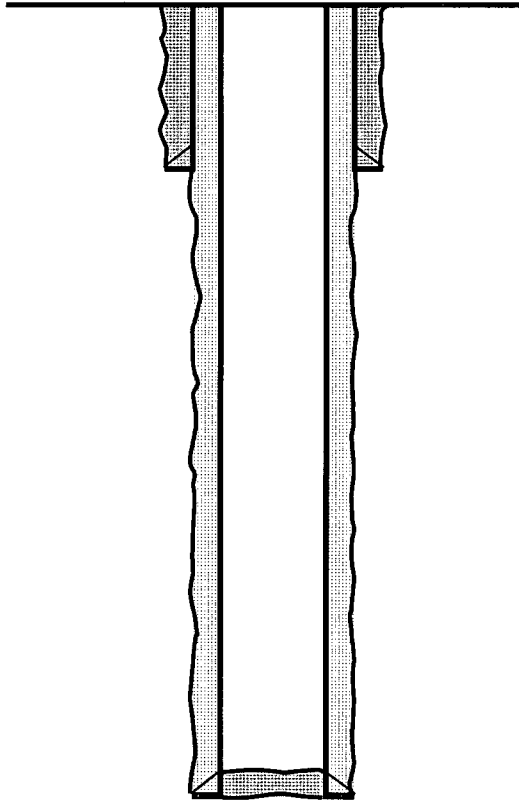
Well No.: 140 Field: Vacuum Grayburg San Andres
 Unit Ltr: H Sec: 2 TSHP/Range: 18S-34E
 Unit Ltr: _____ Sec: _____ TSHP/Range: _____
 St Lease: 857948 API: 30-025-30756 Cost Center: _____
 Elevation: 4000' GR. 4013' KB TEPI: BCT493000
 MVP: BCT494500

Surface Csg.
 Size: 9 5/8"
 Wt.: 36#, J-55
 Set @: 1550'
 Sxs cmt: 800
 Circ: Yes
 TOC: Surface
 Hole Size: 12 1/4"

Production Casing
 Size: 7"
 Wt.: 26#, J-55
 Set @: 5000'
 Sxs Cmt: 1150
 Circ: Yes
 TOC: Surface
 Hole Size: 8 3/4"

TD: 5000'
 PBTD: 4900'

Perforations:
 634 holes 4199'-4792'



KB: 4013'
 DF: _____
 GL: 4000'
 Original Spud Date: 3/8/1990
 Original Compl. Date: 4/12/1990

Remarks:

WELL DATA SHEET

Lease: Vacuum Grayburg San Andres Unit Well: 141
 Location: 1980 'F N L & 1309 'F W L Sec: 1
 Township: 18S Cnty: Lea
 Range: 34E Unit: E State: NM

Formation: Grayburg San Andres Date: 4/2/2002
 GL: 4000' Status: Oil Producer
 KB: 4013' API NO: 30-025-30797
 DF: 4012'

Date Completed: 6/16/1990
 Initial Production: 101 BOPD, 398 BWPD, 38 MCF
 Initial Formation: Grayburg San Andres
 FROM: 3716' to 3864' GOR 1961

Completion Data

4432-4470 perfs acidized w/ 2000 gals 15% NEFE in June/1990

Subsequent Workover or Reconditioning:

11/9/96 -11/16/96 (Last Workover)

Spotted 110 TH-756 in 20 BFW across perfs 4258'-4398'.

Fracture treated perfs 4258'-4398' w/ 38,000 gallons 40# X-L Gel; 91,380# 20/40 Ottawa sand & 50,320# curable resin coated 20/40 sand. Max P = 5130#, AIR = 35 BPM.

Production String: TIH w/ motor (8.30'), seal (6.30'), gas separator (2.67'), pump (17.50'), 2-3/8 x 2-7/8 x/over (.50'), 2-7/8 sub (4'), 1-JT 2-7/8 rbg (32.78') check valve (.50'), 2-jt's 2-7/8 tbg (65.76'), drain valve (.50'), 125 JT'S 2-7/8 tbg (4110'), bottom of motors @ 4259', ND BOP, NU wellhead. Returned well to production.

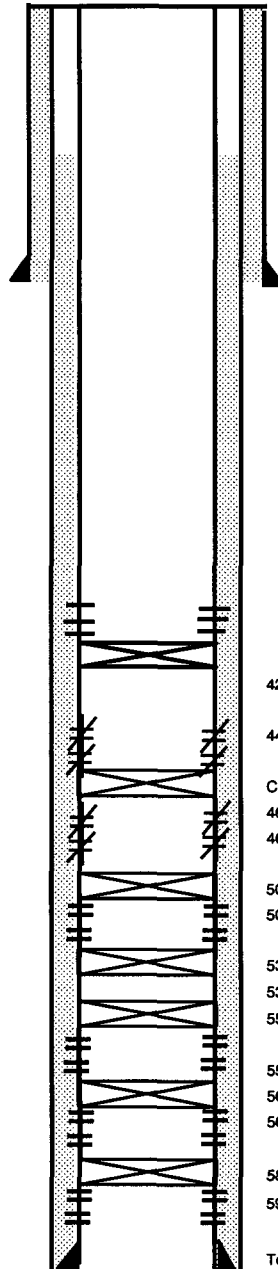
PBTD 4643'.

Set CIBP @ 4420' 4-26-02

treated perforations 4258' to 4398' 6,000 gals acid w/foam deverter

9.625" OD (12-1/4" hole)
 36 # J-55 CSG
 Set @ 1550' W/ 910 sx.
 Cmt circ.? yes 5 sacks
 TOC @ surf by calc.

7" OD (8-3/4" hole)
 26 # J-55 CSG
 Set @ 6004' W/ 1100 SX
 Cmt circ.? no
 TOC @ 800' by TS



set CIBP 4420' 4-26-02

4258-4470 Perfs GSA

4494-4576 Sqzd Perfs GSA

CIBP set @ 4643' (PBTD)

4600-4652 Sqzd Perfs GSA

4680-4705 Sqzd Perfs GSA

5030-5055 CIBP 20' cmt

5066-5106 Abandoned Perfs GSA

5305-5345 CIBP 35' cmt

5375-5432 Abandoned Perfs GSA

5505-5540 CIBP 35' cmt

5572-5612 Abandoned Perfs GSA

5625-5645 CIBP 10' cmt

5640-5654 Abandoned Perfs Glorieta

5880-5910 CIBP 20' cmt

5926-5955 Abandoned Perfs Glorieta

Total Depth: 6004'

TEXACO E&P INC.
VCSAU NO. 142
API# 30 025 30843

0.0 - 1550.0' 13.375" OD 48.00#/ft K-55 SURF CSG
0.0 - 1550.0' CEMENT 1700 sx, cement circ.
0.0 - 1550.0' 17.5" OD HOLE

0.0 - 2800.0' 9.625" OD 36.00#/ft K-55 INT CSG
0.0 - 2800.0' CEMENT 1570 sx, cement circ.
1550.0 - 2800.0' 12.25" OD HOLE
1556.0 - 1557.0' DVTOOL

0.0 - 5000.0' 7" OD 26.00#/ft J-55 PROD CSG
0.0 - 5000.0' CEMENT 950 sx, cement circ.
2800.0 - 5000.0' 8.75" OD HOLE

4192.0 - 4690.0' PERFS

1980 FNL & 2628 FWL
SEC 1, T14N 18 S, RANGE 34 E
ELEVATION: 3993 GR (13' KB)
COMPLETION DATE: 10-13-90
COMPLETION INTERVAL: 4192 - 4690 (GBSA)

VGSAU 143

API # 3002530844

FWL & FNL
SEC 2, TOWN 18-S, Range 34-E, County Lea
ELEVATION: 3983' GL, 3996' KB
Completed: 9/19/1990

Surface Casing:

17.5" hole
13 3/8" csg - 54.5/48# set @ **1560'**
Cemented w/ 1,700 sx class "H" cmt 180
Sx to surface. ()

Intermediate Casing:

12-1/4" hole
9-5/8" csg - 36#, set @ **2800'** Cemented w/
1570 sx class "H" cmt. 510 Sx to surface. DV tool
@ 1602'. ()

Production Casing:

7-7/8" hole
7" csg - 26#, Casing set @ **5000'** cemented w/
900 sx class "H" cmt circulated 30 Sx cmt
()

TOC @ Surface

Perforations:

4429'-4624' (LSA): 4429-34,36-38,46-48,64- 72,92-
96,4501-06, 15-20,30-32,72-76 and 4614-24 (92
holes, 2ISPF), acidized with 5200 gals 15% NEFE.
4208' - 4410' (Upper San Andres): 4208-18,4330-
34,48-50,56-60,74-76,80- 82,84-86,91-93,4396-
4400,04-06, and 08-10 (72 holes, 2ISPF), acidized
with 4200 gals 15% NEFE. (9/14/1990)

Last Workover:

9/19/1990: Initial Completion: Open intervals 4208'-4410' and
4429'-4624'. Acid w/ 4200 gals and 5200 gals 15% HCl
respectively.

1/2/1996: Tubing Failure.

7/2/1996: Stuck Plunger. Problems w/ barrel.

9/27/96: Fracture Upper San Andres: C/O to 4768'. Plug
back w/ 20/40 sand to 4550' (Top LSA). Perfed 4389'-4409'
(20', 160 holes, 8 spf, 0.45"). Fracture treated interval 4208'-
4532' w/ 35,000 gals 40# XL, 76,000 # 16/30 Ottawa & 24,000
16/30 curable resin coated. Pmax=4583 psi, AIR=35 bpm.
C/O to 4790' (PBTD).

12/19/1996: Convert to Sub.

5/12/1997: DHS: Sub was filled w/ sand

6/23/1997: DHS: Pump full of scale & iron. C/O, acid and
squeeze.

6/15/1998: Convert to Rotaflex.

8/10/1998: Clean Out and Ran Stanley Sand Filters.

2/12/2001: Proactive Pull.

2/20/2001: Proactive pull. Low Efficiency.

12/10/2001: Pull plunger on low efficiency.

Zones

Top	Depth	Interval
GB Marker	4,100	
GB Dol Top	4,217	39
GB Dol Bott	4,256	31
San Andres	4,287	163
LSA	4,450	246
O/W	4,696	

TOTAL 479

PBTD @ 4790'

COMMENTS AND RECOMMENDATIONS:

Well: **VGSAU 148****VGSA**

Reservoir:

Location: 1330 FNL

660 FWL

Section: I

TWN 18S

RANGE 34E

County: LEA

Elevations:

GL: 3997'

DF:

KB: 13'

10/7/02

squeeze csg leak from 2329' to 2360' w/
200 sacks 50/50 foam cement & 200
sacks class c neet cement

Tbg Detail:

KB 13

1 JTS 2 7/8" TBG DUO-LINE 20 TBG

31.91

2 7/8" SUB DUO-LINE TBG 10.00

2 7/8" SUB DUO-LINE TBG 8.00

128 JTS 2 7/8" DUO-LINE TBG 4084.51

7" 23-26# NICKLE PLATED LOC SET
PACKER W/DUO-LINE I.D. 4151.87

GRAYBURG TOP 4030'

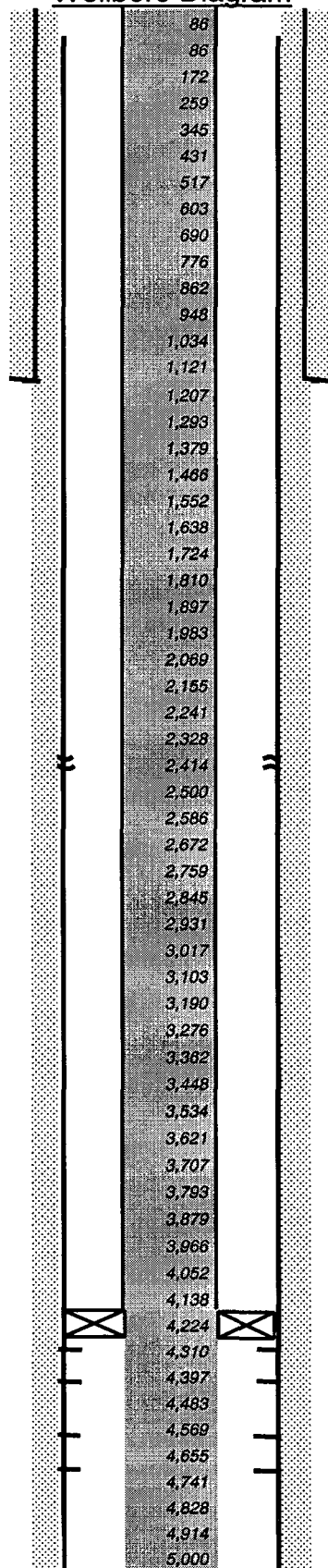
PACKER SET @ 4151.87'

TOP PERFS 4251'

SAN ANDRES TOP 4317'

BOTTOM PERFS 4710'

Current Wellbore Diagram

**Well ID Info:**

Refno:

API No: 30-025-30799

L5/L6:

Spud Date:

Compl. Date: 6/30/1990

Surf. Csg: 9 5/8

36"

J-55K-55

Set: @ 1553'

With: 1000 SX

Hole Size: 12 1/2"

Circ: YES

TOC @ SURFACE

Perfs:**Status**

4251' TO 4710'

0

0

0

0

0

0

Prod. Csg:

7"

23-26#

J-55

Set @ 5000'

With: 1050

Hole Size: 8 3/4"

Circ: YES

TOC @ SURFACE

COTD:

PBTD: 4,770'

TD: 5,000'

Updated: 25-Sep-02

By: GEORGE GARCIA

**CURRENT
WELLBORE DIAGRAM**

Created: 5/19/2004 By: SMG
 Updated: By: _____
 Lease: Vacuum Grayburg San Andres
 Surface Location: 1330' FSL & 1980' FWL
 Bottomhole Location: Same
 County: Lea St: NM
 Current Status: Active Injection Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 149
 Unit Ltr: C
 Unit Ltr: _____
 St Lease: B-1306
 Elevation: 3993' GR

Field: Vacuum Grayburg San Andres
 Sec: 1 TSHP/Range: 18S-34E
 Sec: _____ TSHP/Range: _____
 API: 30-025-30847 Cost Center: ?

Surface Csg.

Size: 13 3/8"
 Wt.: 48# & 54.5#, H-40/K-55
 Set @: 1550'
 Sxs cmt: 1700
 Circ: Yes
 TOC: Surface
 Hole Size: 17 1/2"

Intermediate Csg.

Size: 9 5/8"
 Wt.: 36#, K-55
 Set @: 2800'
 Sxs Cmt: 1570
 Circ: Yes
 TOC: Surface
 Hole Size: 12 1/4"

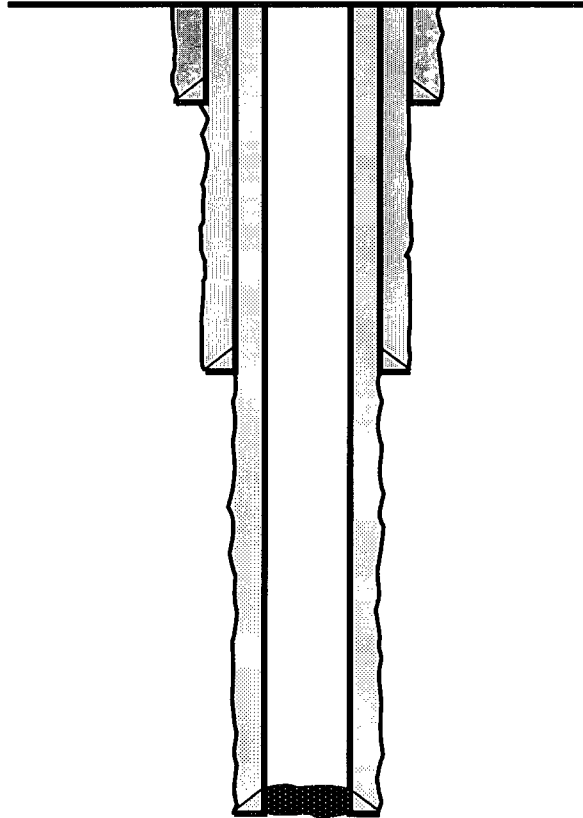
Production Csg.

Size: 7"
 Wt.: 26#, K-55
 Set @: 5000'
 Sxs Cmt: 950
 Circ: Yes
 TOC: Surface
 Hole Size: 8 3/4"

PBTD: 4810'
 TD: 5000'

Perforations:

2 JSPF, 62 Holes 4132'-4258'
 2 JSPF, 68 Holes 4292'-4424'
 2 JSPF, 56 Holes 4454'-4590'



KB: 4006'
 DF: _____
 GL: 3997'
 Original Spud Date: 9/21/1990
 Original Compl. Date: 10/18/1990

TD: 5000'

Remarks:

**CURRENT
WELLBORE DIAGRAM**

Created: 5/19/2004 By: SMG
 Updated: By:
 Lease: Vacuum Grayburg San Andres
 Surface Location: 1390' FNL & 1980' FEL
 Bottomhole Location: Same
 County: Lea St: NM
 Current Status: Active Injection Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 150
 Unit Ltr: G
 Unit Ltr:
 St Lease: B-1306
 Elevation: 3991' GR

Field: Vacuum Grayburg San Andres
 Sec: 1 TSHP/Range: 18S-34E
 Sec: TSHP/Range:
 API: 30-025-30917 Cost Center: ?

Surface Csg.

Size: 13 3/8"
 Wt.: 48# & 54.5#, H-40/K-55
 Set @: 1550'
 Sxs cmt: 1700
 Circ: Yes
 TOC: Surface
 Hole Size: 17 1/2"

Intermediate Csg.

Size: 9 5/8"
 Wt.: 36#, K-55
 Set @: 2800'
 Sxs Cmt: 1570
 Circ: Yes
 TOC: Surface
 Hole Size: 12 1/4"
 DV Tool @ 1597'

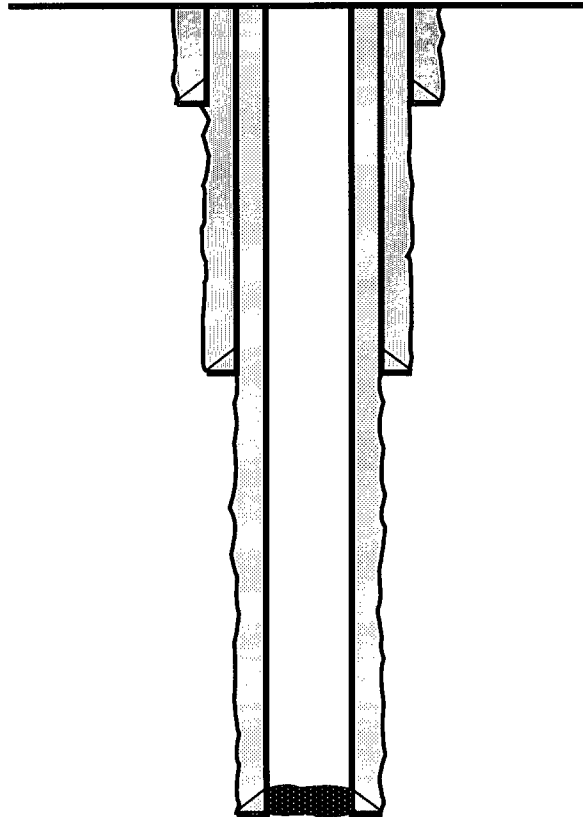
Production Csg.

Size: 7"
 Wt.: 26#, J-55
 Set @: 5000'
 Sxs Cmt: 950
 Circ: Yes
 TOC: Surface
 Hole Size: 8 3/4"

PBTD: 4798'
 TD: 5000'

Perforations:

2 JSPF, 64 Holes 4137'-4254'
 2 JSPF, 98 Holes 4289'-4462'
 2 JSPF, 116 Holes 4479'-4682'



KB: 4004'
 DF: 4003'
 GL: 3991'
 Original Spud Date: 8/3/1990
 Original Compl. Date: 8/30/1990

TD: 5000'

Remarks:

VGSAU 156

API # 30-025-30851

660' FNL & 1330' FWL
SEC 1, TWN 18-S, Range 34-E, County Lea
ELEVATION: 3998' GL, 4818 KB
Completed: 11/3/90

Surface Casing:

17 1/2" hole
13 3/8" csg, 54.5 & 48#, K55, Set @ 1560'
Cemented w/ 1700 sx class "H" cmt. 359 Sx to surface ()

Intermediate Casing:

12 1/4" hole
9 5/8" csg, 36#, J55, STC, set @ 2820'
Cemented w/ 1570 Sx Cl "H" cmt.
DV Tool @ 1620'
Circulated 310 Sx. TOC @ surface. ()

TOC @ Surface

Production Casing:

8 3/4" hole.
7" csg, 26#, J55, LTC, set @ 5,000'
900 Sx cl "H" cmt., Circulated 100 sxs to surface.
Estimated TOC @ Surface. ()

Completion Details:

4226'-4281': 2 jspl, 42 holes: 4226-34, 58-62, 72-81,
4302'-4490': 2 jspl, 118 holes: 4302-10, 16-18, 25-32, 38-43,
60-64, 88-93, 4424-30, 48-54, 63-67, 78-4490.
4502'-4680': 2 jspl, 70 holes: 4502-05, 18-24, 89-94, 4601-35,
72-80. (11/3/90)

12/22/94: Add Perfs: 4297'-4666': 137', 274 holes

Workover History:

11/3/90: Initial Completion
1/8/91: DHS: Downsized Sub Pump
6/11/92: Rod Pump Failure
8/4/93: Rod Part
11/20/93: Pump Parted
1/3/94: Rod Parted
5/18/94: Rod Parted.
11/8/94: Bad Pump.
12/17/94-12/22/94: Add Pav. Acid: C/O w/ 6 1/8" bit to 4808'. Perf 4297'-4666': 137', 274 holes. TIH w/ pkr and set @ 3700'. Acid 4226-4680' w/ 12, 420 gls 15% HCl. Pmax=2200 psi, AIR=3.5 bpm. SIS.
2/5/95: Pump Failure
5/9/95-5/31/95: Rod Part & Upsize pump
6/7/96: Acidize: Run ESP.
5/20/97-5/31/97: Fracture Treatment: C/O to 4779'. Set CIBP @ 4440' (top LSA @ 4500'). Set Pkr @ 4114'. Frac perfs 4226-4430' w/ 20,000 gls 40# XL, 47,000 # 16/30 Ottawa sand and 18,000 # 16/30 curable resin coated. Pmax=4500 psi, AIR=35 bpm. Top sand @ 4251'. C/O to CIBP. Drill mOut CIBP to 4770'. (PBTD @ 4814').
7/5/01: Change Pump.
4/8/03: No Longer Flaring: Well hooked up to new satellite. CO2 will go to plant. Effective change: 4/2/2003.
7/7/03-7/8/03: Upgrade Pump. Pull FC 650. Run FC 650??.
12/18/03: Clean out to 4770' (PBTD) Acidize w/6,000 gals dad acid, 4,000# rock salt. Chemical squeeze.

Production Equipment:

147- JTS 2 7/8" J55 (4658')
1- Drain Valve (0.65')
1- 2 7/8" Tbg Sub (6')
1- Check Valve (0.65')
1- 2 7/8" Tbg Sub (6.1')
1- Pump (5.40'), (6.12')Set @ 4695'
1- Seal (14.42')
1- Motor (12.12'). EOP @ 4722.40'

Zones

Top	Depth	Interval
GB Marker	4,127	
GB Dol Top	4,236	44
GB Dol Bott	4,280	10
San Andres	4,290	210
LSA	4,500	210
O/W	4,710	

TOTAL

474

PBTD @ 4770'

COMMENTS AND RECOMMENDATIONS:

- Review the type of pump ran in last workover

**CURRENT
WELLBORE DIAGRAM**

Created:	9/17/2002	By: MCD				
Updated:		By:				
Lease:	Vacuum Grayburg San Andres Ut	Well No.:	157	Field:	Vacuum Grayburg San Andres	
Surface Location:	710' FNL & 2530' FWL	Unit Ltr:	C	Sec:	1	TSHP/Range: 18S-34E
Bottomhole Location:	Same	Unit Ltr:		Sec:		TSHP/Range:
County:	Lea	St: NM	St Lease: 857948	API:	30-025-30717	Cost Center: BCT492200
Current Status:	Active Oil Well	Elevation:	3993' GR			
Directions to Wellsite:	Buckeye, New Mexico					

Surface Casing

Size: 18 5/8"
 Wt.: 87.5#
 Set @: 415'
 Sxs cmt: CL-H 900 SX
 Circ: Yes, 275 SX
 TOC: Surface
 Hole Size: 22"

KB: 4006'
 DF: 4005'
 GL: 3993'

Original Spud Date: 6/27/1990
 Original Compl. Date: 8/11/1990

Intermediate Casing

Size: 13 3/8"
 Wt.: 54.5# & 48#
 Set @: 1545'
 Sxs Cmt: CL-H 1500 SX
 Circ: Yes, 380 SX
 TOC: Surface
 Hole Size: 17 1/2"

Tubing Detail

# Jts.	Size	Date:	Footage
	2-7/8" J-55 bare cl. "B"		
	7' X 2-7/8" TAC		
	2-7/8" J-55 bare cl. "B"		
	2-7/8" St/St B Joint cl. "B"		
	2-7/8" St/St subs		
	2-7/8" S/N		
0	Pump Intake		
	2-7/8" Perf sub		
	2-7/8" X 3-1/2" Mud anchor		
	EOT		

Intermediate Casing

Size: 9 5/8"
 Wt.: 36#
 Set @: 2800'
 Sxs Cmt: CL-H 1570 SX
 Circ: Yes, 300 SX
 D.V. Tool @: 1563'
 TOC: Surface
 Hole Size: 12 1/4"

Rod Detail

# Rods	Size	Date:	Footage
	1-1/2" PR		
	Grade "D" (1-2')		
	1" Grade "D" Rods		
	7/8" Grade "D" Rods		
	3/4" Grade "D" Rods		
	Flexbar "C" Sinker bars w/ necks		

Production Casing

Size: 7"
 Wt.: 26#
 Set @: 5000'
 Sxs Cmt: CL-H 800 SX
 Circ: Yes
 TOC: 1510'
 Hole Size: 8 3/4"

PBTD (CIBP):

4962'
TD: 5000'

TD: 5000'

Pump Detail

Date:
 Barrel:
 Plunger:
 Pump:
 Seats:

Perforations

Grayburg: 4178'-4680' reperforated on return to production 9/21/01-11/19/01
 4178'-4258', 2 JSPF, 62 hles; sqzd when TA'd in 2/1998
 4282'-4348', 2 JSPF, 60 hles; sqzd when TA'd in 2/1998
 4436'-4680', 2 JSPF, 152 hles; sqzd when TA'd in 2/1998

Remarks: See Well History for reports of well work completed from 1996 - 2001.

VGSAU 212

API # 30-025-32004

660' FSL & 1650' FEL
SEC 1, TWN 18-S, Range 34-E, County Lea
ELEVATION: 3988' GL, 4002' KB
Completed: 4/26/1994 (Drinkard Well)

Surface Casing:

11" hole
8 5/8" csg - 24# K55
set @ 1470' Complete w/ 600 Sx.
Cement to surface

Production Casing:

7-7/8" hole
5-1/2" csg - 15.5/17 # K55
set @ 8100' Pumped 2400 Sx. Circulated to
surface

TOC @ Surface

Completion VGSAU 212:

4295'-4320'
4400'-4460'

4 jpf, 0.52" holes, 85', 340 holes
Acid: 5000 gals 15% NEFE HCL
Frac: 28000 G40 XL gel, 80660 # 16/30 RC Sand

Abandonment New Mexico State NCT-3

#27:

CIBP @ 4500' (PBSD for VGSAU 212) It
was drilled later in Aug-1997
CIBP @ 5900' w/ 35' cmt on top
CIBP @ 7600' w/ 35' cmt on top
CIBP @ 8070' w/ 35' cmt on top

Liner:

4-3/4" hole
4-1/2" csg - 9.5 # K55
Set @ 8900'
Top @ 7753'
Pumped 75 Sx. Circulated OK.

Last Workover:

Date: 15-Aug-1997
Reason: Initial Completion
Summary: Perforated, acidized and Frace'd the
intervals 4295'-4320 and 4400'-4460'

Last Pulling Job:

Date: 2-Oct-2002
Reason: Down Sized Pump. Pumping Off
Summary: Tagged @ 4424'. Worked to 4433'.
Could not circulate. Change ESP equipment

PRODUCTION EQUIPMENT:

3- 29.10', 28.90', 29.25' Stanley Filters- 3 1/2"
1- 11.20'x 2 7/8" perfed sub w/ Pkr element
1- MOTOR 55 hp 1249/29: 4.5" OD
1- SEAL: 5.62"x4" OD
2- PUMP 2200 BPD: 4" OD
1- Sub 2 7/8" x 4.20'
1- CHECK VALVE: 0.53'
1- Sub 2 7/8" x 8.39'
1- DRAIN VALVE: 0.55'
130- JOINTS 2-7/8" Tbg. (4114.37')

PUMP INTAKE @: 4175'

Zones

Top	Depth	Interval
GB Marker	4,198	
GB Dol Top	4,314	52
GB Dol Bott	4,366	30
San Andres	4,396	149
LSA	4,545	157
O/W	4,702	

TOTAL 388

COMMENTS AND RECOMMENDATIONS:

- Since the last down sized of equipment the total production of the well has dropped. The equipment pulled was set for an optimum production at 2700 bpd and the well was producing around 2200. Now the well total production is around 1200 bfpd and the oil production dropped around 40 bpd. It is recommended to upsize to a pump of around 2,200 bpd.
- Kepp VG 20 in Operation to the maximum since it looks to have good communication with this well.

VGSAU 233 WIW

API # 30-025-36355

2630' FSL & 660' FWL
SEC 1, UL "L", TWN 18-S, Range 34-E, County Lea
ELEVATION: 3997' GL, 4003' KB
Completed: 10/20/2003

Surface Casing:

12 1/4" hole
34 JTS 8 5/8" csg - 24#, J55
set @ 1535'. Cemented w/ 545 sx 35:65
POZ class "C" cmt 12.8 ppg, followed by
200 Sx cl "C" cmt 14.8 ppg. 80 Sx cement
to surface. (8/14/03)

Production Casing:

7-7/8" hole
106 JTS 5-1/2" csg - 15.5#, J55, LTC
set @ 4600'.
Lead: 560 sx 35/65 POX cl "C", 12.8 ppg cmt
Tail: 470 sx 50:50 POX cl "C" 14.2 ppg cmt
Circulated water cement to surface. Well was
flowing (8/20/03)

TOC @ Surface Based on CBL. Good
bond cement below 4000'

Perforation Intervals:

4366'-4385' (19'):
4389'-4417' (28'):
4425'-4448' (23')

70' - 4 spf. 280 holes, 3 1/8 in. XPS Expendable
(10/14/2003)
Acid from 4366' to 4448' w/ 7,000 gls 15% HCl &
1750# rock salt. First 1000# block had a 2636 psi
increase f/ 2300 to 4936 psi. Second block of 750#
rock salt had an increase of 500 psi f/ 2200 to 2700 psi.
(10/15/2003)

FC @ 4559'

Last Workover:

13-20 Aug-2003: Drilled 10 Aer Injector: Drilled surface hole w/ 12 1/4" bit. Ran 8 5/8" 24#- J55 casing to 1535'. Cement casing to surface w/ 745 sx cl "C" cmt. Drilled production hole w/ 7 7/8" bit. Hit water flow @ 4500' (14 bph). drilled to 4611' and flow increased to 35 bph. Called well TD. Ran 5 1/2" 15.5#- J55 to 4600'. Cemented casing in place w/ 1030 sx C/ "C" cement. watered cement on surface. Released Rig.

13-20 Oct-2003: Initial Completion: perforate 70' - 4 spf, 280 holes, 3 1/8 in. XPS Expendable. Acid from 4366' to 4448' w/ 7,000 gls 15% HCl & 1750# rock salt. First 1000# block had a 2636 psi increase f/ 2300 to 4936 psi. Second block of 750# rock salt had an increase of 500 psi f/ 2200 to 2700 psi. Clean out salt. P/U 5 1/2" Lock set Pkr w/ 136 jts 2 3/8" duolined tbq. Set Pkr @ 4311' R/D.

INJECTION EQUIPMENT:

1- 5-1/2" Lock set Nickel Plated w/ Pump out plug PKR
136- Joints 2-3/8" Duolined Injection Tbg.

PACKER SET @: 4311'

Zones

Top	Depth	Interval
GB Marker	4,198	
GB Dol Top	4,300	40
GB Dol Bott	4,340	30
San Andres	4,370	200
LSA	4,570	140
O/W	4,710	
TOTAL		410

PBTD @ 4556' (13-Oct-2003)

COMMENTS AND RECOMMENDATIONS:

VGSAU 235

API # 30-025-35562

2610' FNL & 660' FEL
SEC 1, TWN 18-S, Range 34-E, County Lea
ELEVATION: 3981' GL, 3995' KB
Completed: 7/21/01

Surface Casing:

12 1/4" hole
8 5/8" csg - 24#
set @ 1535'. Cemented w/ 700 sx
class "C" cmt. Cement to surface.
(6/24/01)

Production Casing:

7-7/8" hole
5-1/2" csg - 15.5#
set @ 4813' Cemented w/ 950 sx 35/65 poz
"H" cmt in 2 stages 800 sx 12.8 ppg ans
150 sx 16 ppg. Circulated 11 bbls to
surface (6/30/01)

TOC @ Surface

Perforations:

4516'-4712' 4712-4672 (40', 80 holes), 4668
40 (28', 56 h), 4630-04 (26', 52 h), 4596'-92
(4', 8 h), 4576-70 (6', 12 h), 4566-58 (8', 16
h), 4554-48 (6', 12 h), 4544-4532 (12', 24 h),
4528-4516 (12', 24 h).
2 JSPF, 120 deg, 142', 284 holes. Acid w/
10500 gals 15% HCl. P=2800 psi @ 4 bpm
after breakdown. ISIP=1700# (7/21/2001)
3/18/04: Perforated from 4212' to 4420', 572
holes, 4JSPF, 4212'-38', 4276'-4364', 4391'-
4420'

Last Workover:

7/21/2001: Initial Completion: Open interval in the Lower San
Andrews 4516'-4712' (142 ft, 284 holes) 120 degrees phasing 2jspl.
Acid perms w/ 10500 gal 15% HCl acid. Pave=2800 psi @ 4 bpm.
ISIP=1700 psi. Run 2 7/8" Duolines tbh and set Pkr @ 4411'.

Last Step Rate:

Date: 17-18 February, 2002.
Maximum Injecting Pressure: 1900 psig

W/O 3/22/04

Perforate 4212' to 4420' Acid w/9000 gals 15% nefe & 1000 gals
gelled 10/3 brine to contain per 1000 ngals, 2000# rock salt. clean
out to 4799'

INJECTION EQUIPMENT:

1- 5 1/2" Hudson Loc Set Nickle Plated PKR
w/duo-line ID
4147'- FEET 2-7/8" DUOLINED Injection Tbg.

PACKER SET @ 4152'

Zones

Top	Depth	Interval
GB Marker	4,094	
GB Dol Top	4,200	41
GB Dol Bott	4,241	38
San Andres	4,279	152
LSA	4,431	263
O/W	4,694	

TOTAL 494

PBTD @ 4799'

COMMENTS AND RECOMMENDATIONS:

Texaco, Inc.
VGWU #113
API #3002521107

Unit C, 330' FNL and 1880' FEL
Section 1 - 18S - 34E
Lea County, New Mexico
Elevation: 3997' GL
Completion Date: 2/25/65

1485'

10 3/4", 28.5#, Casing - Circulated 1200 sx of Cement

3400'

Liner at 3342'

7 5/8", 26.4#, Casing - Cement with 800 sx

Paddock 5892' - 6092'

6248'

PBTD= 6216'

TD 6250'

4 1/2", 9.5#, K-55 Liner
Cemented with 350 sacks

**CURRENT
WELLBORE DIAGRAM**

Created: 5/19/2004 By: SMG
 Updated: _____ By: _____
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 1102' FNL & 1575' FEL
 Bottomhole Location: _____
 County: Lea St: NM
 Current Status: Active Injection Well
 Directions to Wellsite: Buckeye, New Mexico

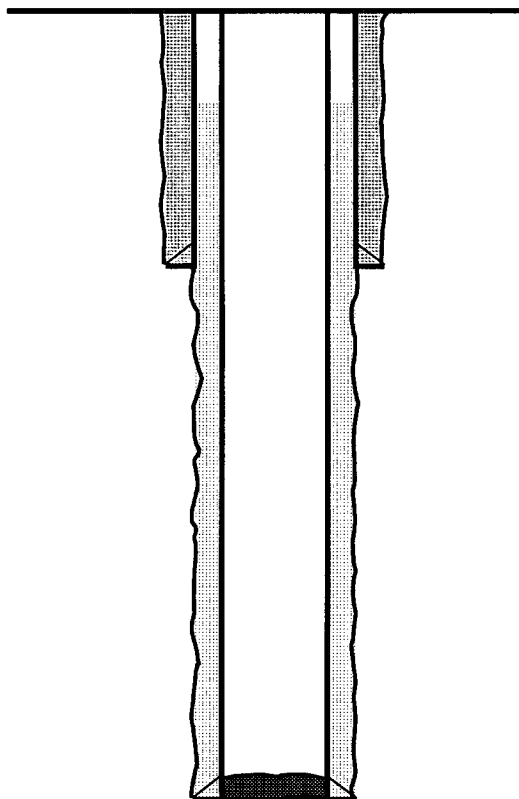
Well No.: 120 Field: Vacuum Grayburg San Andres
 Unit Ltr: B Sec: 1 TSHP/Range: 18S-34E
 Unit Ltr: _____ Sec: _____ TSHP/Range: _____
 St Lease: B-1733-2 API: 30-025-31859 Cost Center: ?
 Elevation: 3988' GR

Surface Csg.
 Size: 8 5/8"
 Wt.: 24#
 Set @: 1470'
 Sxs cmt: 650 sx
 Circ: Yes, 23 sx
 TOC: Surface
 Hole Size: 11"

Production Casing
 Size: 5 1/2"
 Wt.: 15.5# & 17#
 Set @: 6321'
 Sxs Cmt: 1460 sx
 Circ: No
 TOC: 475'
 Hole Size: 7 7/8"

TD: 6321'
PBTD: 6266'

Perforations:
Glorieta, 2 JSPF, 164 Holes
6083'-6113'
6120'-6133'
6137'-6164'
6176'-6188'



KB: 4002'
 DF: _____
 GL: _____
 Original Spud Date: 6/30/1993
 Original Compl. Date: 7/23/1993

TD: 6321'

Remarks:

**CURRENT
WELLBORE DIAGRAM**

Created: 12/22/2003
 Updated: _____
 Lease: New Mexico M State
 Surface Location: 1800' FNL & 1980' FWL
 Bottomhole Location: Same
 County: Lea
 Current Status: Active Oil Well
 Directions to Wellsite: Buckeye, New Mexico

By: SMG/MCD
 Well No: 7
 Unit Ltr: F
 Unit Ltr: _____
 St: NM
 Sec: 1
 St Lease: B-1080-2
 Elevation: 4010' DF
 Field: VacuumDrinkard
 TSHP/Range: 18S-34E
 TSHP/Range: _____
 API: 30-025-20494
 Cost Center: UCT494400

Surface Casing
 Size: 13 3/8"
 Wt.: 54.5#
 Set @: 1513'
 Sxs cmt: 1100
 Circ: Yes
 TOC: Surface
 Hole Size: 17 1/2"

Intermediate Casing
 Size: 9 5/8"
 Wt.: 40#
 Set @: 4805'
 Sxs Cmt: 1700
 Circ: _____
 TOC: 200'
 Hole Size: 12 1/4"

Total Depth: 12220'

X String (Wolfcamp)
 Size: 2 7/8"
 Wt.: 6.4#, J-55
 Set @: 10232'
 TOC: 1730'
 CIBP: 9895' (capped w/35' cmt)
 X String PBTD: 9860'

Y String (Drinkard)
 Size: 2 7/8"
 Wt.: 6.4#, J-55
 Set @: 10198'
 TOC: 1730'
 CIBP: 7930' (capped w/35' cmt)
 Y String PBTD: 7895'

Z String (Glorieta)
 Size: 2 7/8"
 Wt.: 6.4#, J-55
 Set @: 7937'
 TOC: 1730'
 CIBP: 6100'
 CIBP: 5950' (capped w/35' cmt)
 Z String PBTD: 5915'

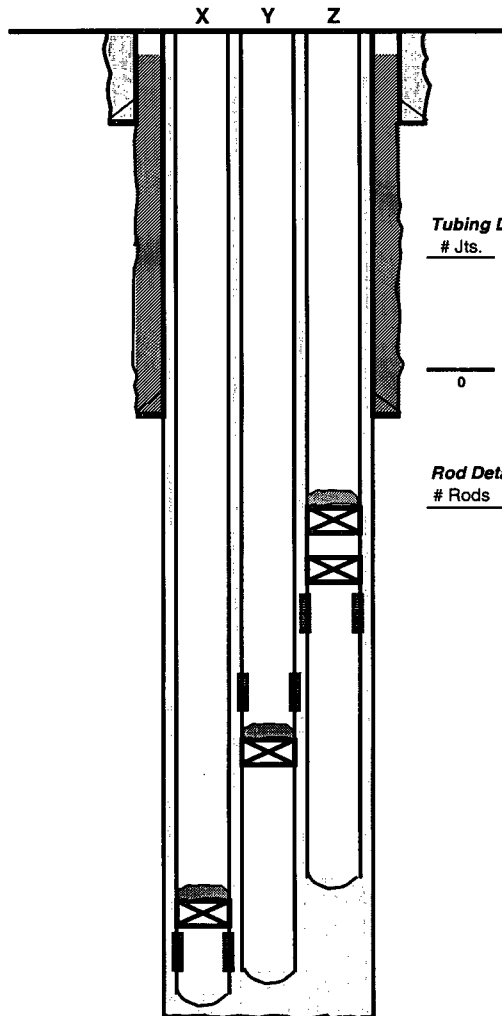
**Combined sacks of cement for
X, Y, Z strings:** 2087

Perforations
X String (Wolfcamp) 7372'-7375 w/ 2 SPF (8 holes) vent string for Drinkard string (7/8/95)
 9967'-9970'; 9977'-9979'; 9992-9994' All Perfs Plugged Back
 10041'-10043' All Perfs Plugged Back

Y String (Drinkard) 7530'-7588', (2 JSPF; 52 perf ft-104 holes)
 7606'-7666', (2 JSPF; 49 perf ft-98 Holes)

Z String (Glorieta) 6283'-6418' (SPI; 31 int, 62 shots) All Perfs Plugged Back

Remarks:



KB: 4011'
 DF: 4010'
 GL: 3994'
 Original Spud Date: 7/26/1963
 Original Compl. Date: 9/15/1963
 Recompletion Compl. Date: 5/1/1993

Tubing Detail Date: 4/08/03

# Jts.	Size	Footage
	2 7/8" J55 10 V bare cl. 'B'	
	2 3/8" J55 bare cl. 'B'	
	4 1/2" x 2 3/8" Baker type TAC	
	2 3/8" J55 bare cl. 'B'	
	2 3/8" S/N	
0	Pump Intake	0.00
	Perf sub	
	EOT	0.00

Rod Detail Date:

# Rods	Size	Footage
	1-1/2" X 26" POR	
	1" Grade D cl 'B' bare pony rods	
	1" Grade D cl 'B' bare rods	
	7/8" Grade D cl 'B' bare rods	
	3/4" Grade D cl 'B' bare rods	
	1-1/2" cl 'B' bare sinker bars	
	2.0" X 1.25" HHBC	
	1-1/4" Gas Anchor	
		0.00

Pump Detail Date:

Barrel:
 Plunger:
 Pump: Total Fit
 Seats:

New Mexico "M" #9

State	New Mexico
County	Lea
Surface Location	660FNL 2310FWL
	Sec 1, R-34E, T-18S
	Ltr C

Surface Csg.	
Size:	8-5/8"
WT:	24# WC-50
Set @:	1470'
Sxs cmt:	650 sx class "C"
TOC:	Surface
Hole Size:	11"
Production Csg.	
Size:	5-1/2"
WT:	17# L-80, WC-50, WC-70
Set @:	8100'
Sxs Cmt:	1825sx class "H"
TOC:	
Hole Size:	7-7/8"

Lease Name	New Mexico State "M" #9
Field	Vacuum Drinkard, Vac Blinebry
Reservoir	Drinkard & Blinebry
Ref #	QU3257
API #	30-025-32016

Compl. Date: 2/15/1994

# Jts.	Size	Footage
EOT		

# Rods	Size	Footage
		0.00

6850-89, 6894-6913, 6917-20

7477-84, 87-89, 93-95, 7502-04, 10-14, 24-27 (52holes)
7530-32, 34-37, 41, 46-50, 73-76, 80-84, 88, 7594-7602, 23-30, 42, 51-59,
80, 84-92, 7698-7701, 03-05, 10-16, 26-38, 42, 49-54, 65-72, 84-90,
7807-12, 22-25, 43, 48-52, 56-58 (218holes)

PBTD: 8053'
TD: 8100'

UPDATED BY: Cassie Viets
DATE: 5/20/2004

**CURRENT
WELLBORE DIAGRAM**

Created: 5/19/2004
Updated:
Lease: New Mexico L State
Surface Location: 770' FNL & 2090' FEL
Bottomhole Location: Same
County: Lea
Current Status: Active Oil Well
Directions to Wellsite: Buckeye, New Mexico

By: SMG
Well No: 6 Field: Vacuum Wolfcamp, Abo Reef
Unit Ltr: B Sec: 1 TSHP/Range: 18S-34E
Unit Ltr: Sec: TSHP/Range:
St: NM St Lease: B-1733 API: 30-025-20514 Cost Center: ?
Elevation: 4005' DF

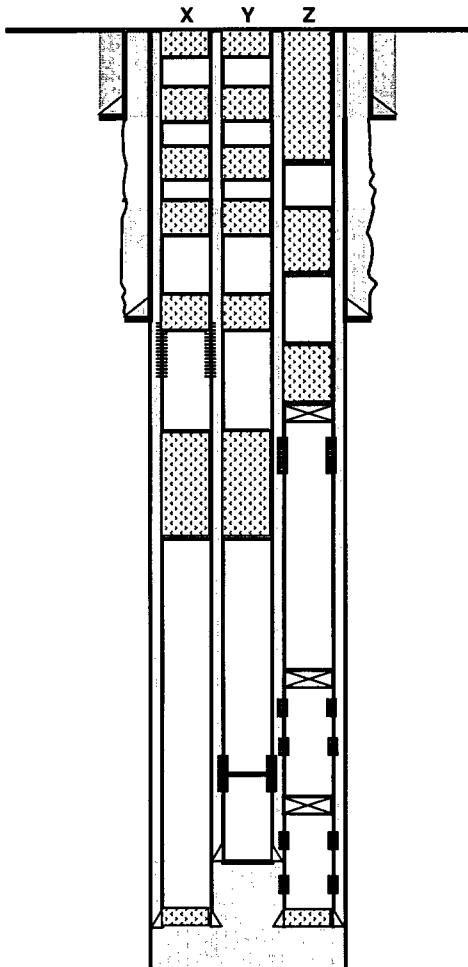
Surface Casing
Size: 13 3/8"
Wt.: 54.5#, H-40
Set @: 1510'
Sxs cmt: 1200
Circ: Yes
TOC: Surface
Hole Size: 17 1/2"

Intermediate Casing
Size: 9 5/8"
Wt.: 40# & 36#, H-40 & J-55
Set @: 4800'
Sxs Cmt: 1700
Circ: ?
TOC: 2730'
Hole Size: 12 1/4"

X(Glorieta) String
Size: 2 7/8"
Wt.: 6.5#, J-55
Set @: 11300'
Sxs Cmt: 1600 sx
Circ: ?
TOC: Surface
Hole Size: 8 3/4"
Plug @ 11267'

Y(Wolfcamp) String
Size: 2 7/8"
Wt.: 6.5#, J-55
Set @: 10567'
Sxs Cmt: 1600 sx
Circ: ?
TOC: Surface
Hole Size: 8 3/4"
Bull plug @ 10567'

Z(Morrow, Atoka, Penn, Abo & Blinbry) String
Size: 2 7/8"
Wt.: 6.5#, J-55
Set @: 11318'
Sxs Cmt: 1600 sx
Circ: ?
TOC: Surface
Hole Size: 8 3/4"
Plug at 11286'



KB: 4005'
DF: 4005'
GL:
Original Spud Date: 4/23/1963
Original Compl. Date: 11/15/1963

TD: 11318'

Perforations

X String

1 JSPF 6103'-6105'
squeezed perms with 100 sx Class "C" cement

Y String

2 JSPF 9956'-9964'

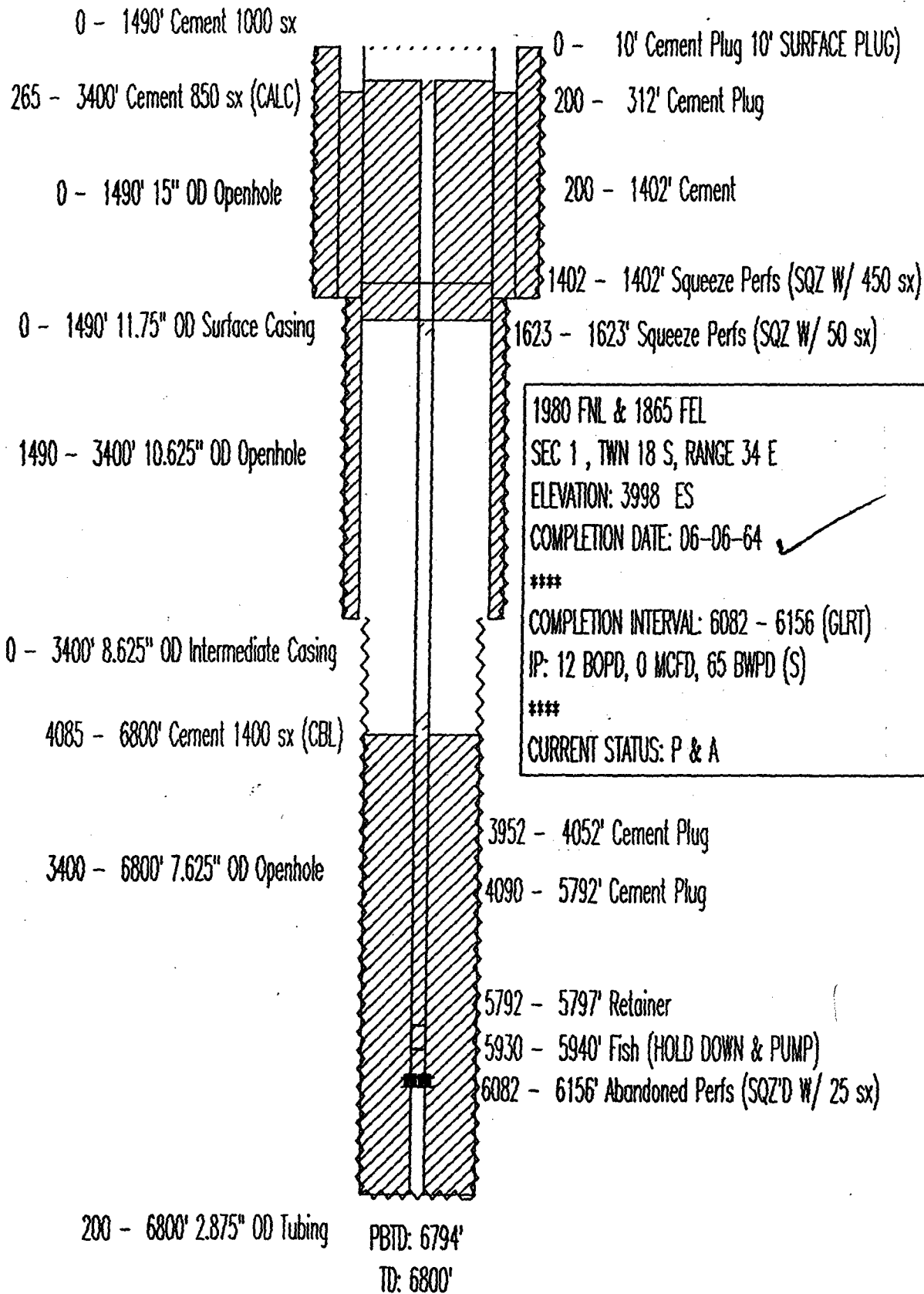
Z String

1 JSPF(Blinbry) 6684'-6697'
2 JSPF(Abo) 9246'-9252'
9268'-9274'
9308'-9317'
2 JSPF(Penn) 10210'-10220'
1 JSPF(Atoka) 10872'-10878'
2 JSPF(Morrow) 11218'-11234'

All Strings Plugged and Abandoned

Remarks:

TEXACO
NEW MEXICO L STATE NO. 8
API# 30025209380000



**CURRENT
WELLBORE DIAGRAM**

Created: 5/20/2004 By: SMG
 Updated: _____ By: _____
 Lease: New Mexico "L" State
 Surface Location: 1780' FNL & 1980' FEL
 Bottomhole Location: _____
 County: Lea St: NM
 Current Status: Active Oil Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 13 Field: Vacuum Drinkard
 Unit Ltr: G Sec: 1 TSHP/Range: 18S-34E
 Unit Ltr: _____ Sec: _____ TSHP/Range: _____
 St Lease: B-1733 API: 30-025-32007 Cost Center: ?
 Elevation: 3989' GR

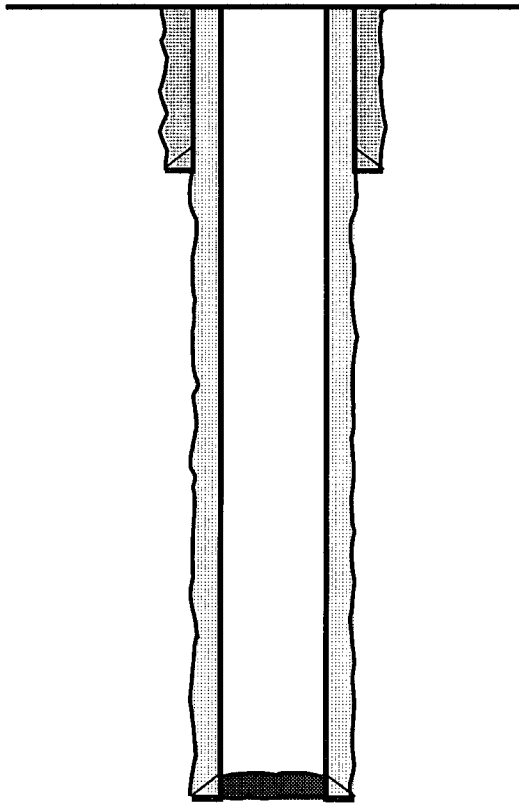
Surface Csg.
 Size: 8 5/8"
 Wt.: 24#
 Set @: 1470'
 Sxs cmt: 650
 Circ: Yes, 200 sx
 TOC: Surface
 Hole Size: 11"

Production Casing
 Size: 5 1/2"
 Wt.: 15.5 & 17#
 Set @: 7990'
 Sxs Cmt: 1785
 Circ: Yes, 185 sx
 TOC: Surface
 Hole Size: 7 7/8"

DV Tool @ 5030'

TD: 7990'
 PBTD: 7970'

Perforations:
 2 JSPI, 192 Holes 7588'-7877'



KB: 4003'
 DF: _____
 GL: _____
 Original Spud Date: 9/16/1993
 Original Compl. Date: 10/21/1993

Remarks:

**CURRENT
WELLBORE DIAGRAM**

New Mexico "L" State #14

LOCATION

State	New Mexico
County	Lea
Surface Location	810 FNL 1980 FEL
	Sec 1; R-34E, T-18S
Unit Ltr	B

CASING DETAIL

Surface Csg.	
Size:	8-5/8"
Wt.:	24# WC-50
Set @:	1457'
Sxs cmt:	650 sx class "C"
TOC:	Surface
Hole Size:	11"

Production Csg.

Size:	5-1/2"
Wt.:	17# L-80 & WC-50
Set @:	7950'
Sxs Cmt:	2105sx class "H"
TOC:	
Hole Size:	7-7/8"

WELL ID INFORMATION

Lease Name	New Mexico State "L" #14
Field	Vacuum Drinkard
Reservoir	Drinkard
Ref #	QU2911
API #	30-025-32008

KB:	4005'
DF:	
GL:	3991'
Spud Date:	10/4/1993
Compl. Date:	11/5/1993

Tubing Detail

2/2/1994

# Jts.	Size	Footage
232	2-7/8" 6.5# N-80 8rd	7220.00
20	2-7/8" 6.5# N-80 8rd	634.00
1	5-1/2" T. Anchor	3.00
1	2-1/2" SN	1.00
1	2-7/8" perf nipple	4.00
1	3" Mud Anchor	16.00
EOT		7878.00

Rod Detail

2/2/1994

# Rods	Size	Footage
1	1-1/2" p rod w/liner	26
3	1" pup jts (2', 6', 8')	16.00
78	1" rods	1950
90	7/8" rods	2250
134	3/4" rods	3350
10	1-3/4" sinker bars	250.00
1	2-1/2" x 1-1/2" RHBC	24.00
1	1-1/4" Gas Anchor	8.00
		7874.00

Drinkard perforations (11/1993)

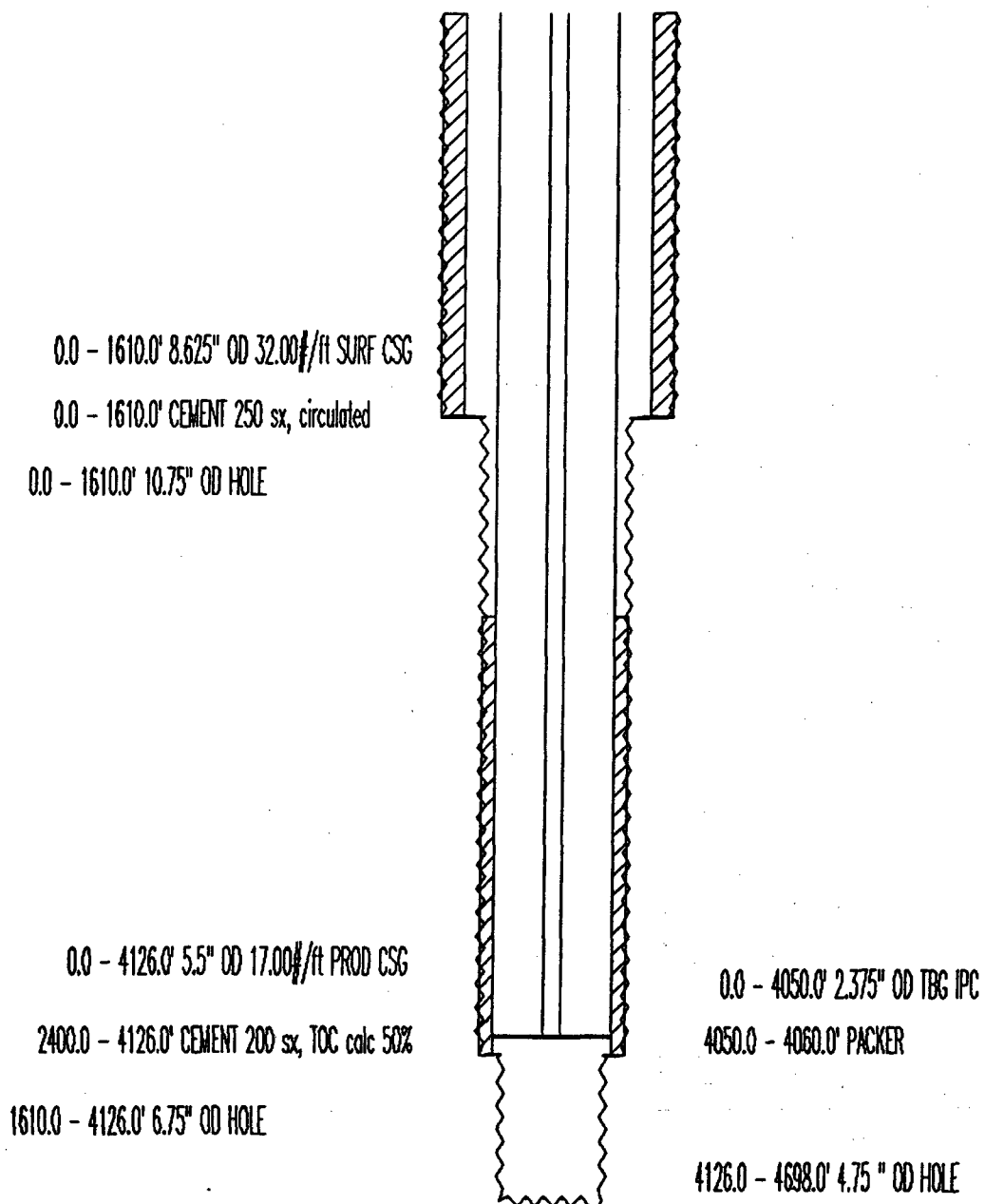
7546-70, 78-7800, 08-30, 34-41, 58-72, 91-7700, 20-29, 38-43, 57-61, 98-7804, 20-27 (258holes, 2spt)
--

PBTD: 7926'
TD: 7950'

UPDATED BY: Cassie Viets
DATE: 5/12/2004

TA: 5-30-85

VACUUM GB SA UNIT No. 11
API# 30 025 02257



660 FSL & 1980 FWL
SEC 1, T1N 18 S, RANGE 34 E
ELEVATION: 4001' DF
COMPLETION DATE: 07-11-41
COMPLETION INTERVAL: 4126 - 4698 (GBSA)
Former Texaco - NM "R" State NCT-3 #10

TEXACO INC
VACUUM GRBG-SADR UN NO. W133
API# 30025243230000

#33

P&A schematic

Squeeze w/50 sks 0-50' (circulated)
6 Squeeze perfs @ 50'
0 - 361' 8.625" OD Surface Casing

6 sqz perfs @ 410'.
Squeeze w/75 sks 212'-410'

6 sqz perfs @ 1400'
Squeeze w/50 sks 1135'-1400'

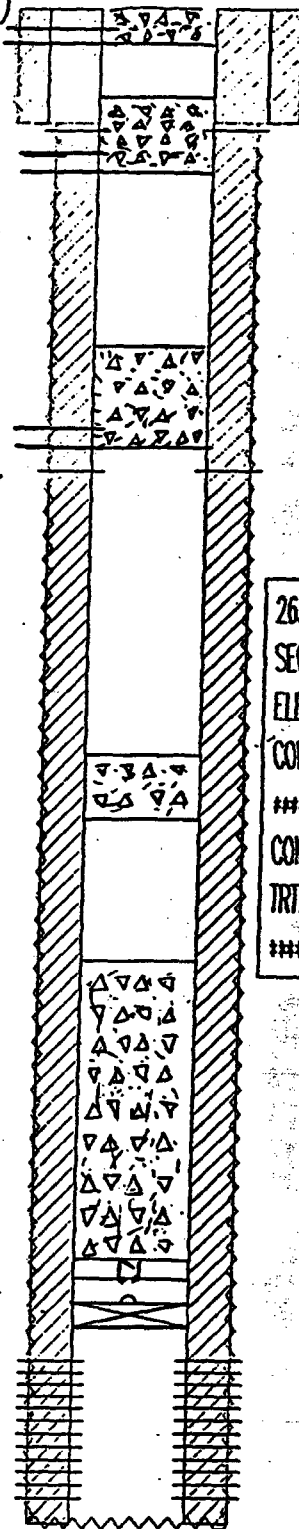
0 - 4800' Cement 650 sx

25 sks CEMENT PLUG
2600-2800

(50 sks)
CEMENT PLUG ...
3600-4198

(could not squeeze)
Cement Retainer @ 4198'
RBP @ 4200'
Could not fish

0 - 4800' 4.5" OD Production Casing



285 - 380' Damage CSNG LEAK, SQZ 775 SX

0 - 361' 11" OD Openhole

385 - 385' Squeeze Perfs 200 SX

1480 - 1480' Squeeze Perfs 550 SX

2630 FNL & 1310 FNL
SEC 1, TWN 18 S, RANGE 34 E
ELEVATION: 3991 GR
COMPLETION DATE: 02-05-73

COMPLETED AS INJECTOR 4435-4722
TRT: 6000 GAL 20%

Updated 5/92 10/01

4274 - 4475' Perfs 9/90, 2SPF 40 HOLES

4435 - 4722' Perfs

361 - 4800' 7.875" OD Openhole

KB ELEV: 4004'

PBTD: 4790'

TD: 4800'

TEXACO INC
VACUUM GRBG-SADR UN NO. W149
API# 30025243290000

P&A

0 - 358' Cement 300 sx circulated
0 - 358' 8.625" OD Surface Casing

0 - 358' 11" OD Openhole

TOP of cement plug 1010'
60 sks (C.I.C) cement
squeezed into perfs @ 1300'

SQUEEZE PERFS @ 1300'

35 sk (C.I.C) cement
plug 2100-2465

SQUEEZE PERFS
@ 2400'
HOLD 2500 PSI
NMOCD notified

1111 - 4800' Cement 500 sx, TOC (CBL)

TOP of cement plug 3835'
(pumped plug of 175 sks
class C below packer
set @ 3686')

0 - 4800' 4.5" OD Production Casing

SQUEEZE PERFS @ 425':
130 sks C.I.C. squeezed through
around to surface up bradenhead.
cement to surface inside casing

1390 FHL & 2580 FHL
SEC 1, TWN 18 S, RANGE 34 E
ELEVATION: 3991 GR
COMPLETION DATE: 02-16-73

COMPLETED AS INJECTOR 4373-4731
TRT: 6000 GAL 20% NEA
INITIAL RATE 500 BHPD @ 0 PSI

Updated 6/01

4065 - 4067' Squeeze Perfs TEST FOR CHANNEL, 150 SX
Ported casing @ 4200'
4284 - 4360' Perfs 1 SPF, 2/86
4373 - 4731' Perfs
358 - 4800' 7.875" OD Openhole

KB ELEV: 4001'
PBTD: 4778'
TD: 4800'

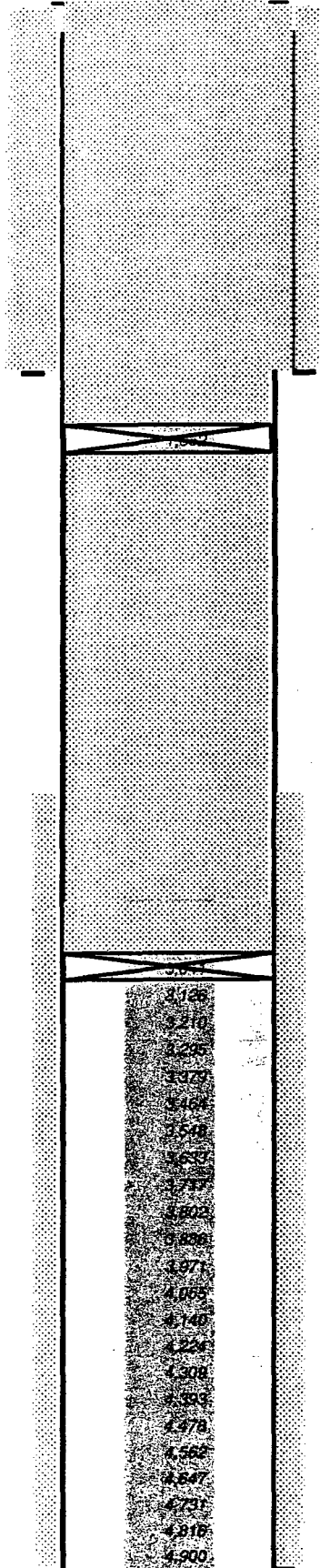
Well: **VGSAU 127****VGSA**

Reservoir:

Location: 1980 FSL	
2625 FWL	
SECTION	1
TWN	18S
RANGE	34E
County:	LEA

Elevations:	
GL:	3992'
DF:	
KB:	14'

Current
Wellbore Diagram



Well ID Info:	
Refno:	
API No:	30-025-32027
L5/L6:	
Spud Date:	
Compl. Date:	9/9/2002

Surf. Csg: 8 5/8"
24#

Set: @ 1450'
With: 128 SX

Hole Size: 11"
Circ: YES
TOC @ SURFACE

5 1/2" CEMENT RETAINER 1360'

TOP OF CEMENT PLUG @ 1550'

Tbg Detail:

Perfs:	Status
4179' TO 4568'	
0	
0	
0	
0	
0	

TOP OF CEMENT PLUG @ 2827'

TOP CIBP 3100'
TOP OF FISH @ 3122'

Prod. Csg: **5 1/2"**

15.5**0****Set @ 4,900'****With: 1385 SX****Hole Size: 7.875****Circ:****TOC @ 2455 CBL****COTD:****PBTD: 4,581'****TD: 4,900'**

Updated: 22-Jul-02
By: GEORGE GARCIA

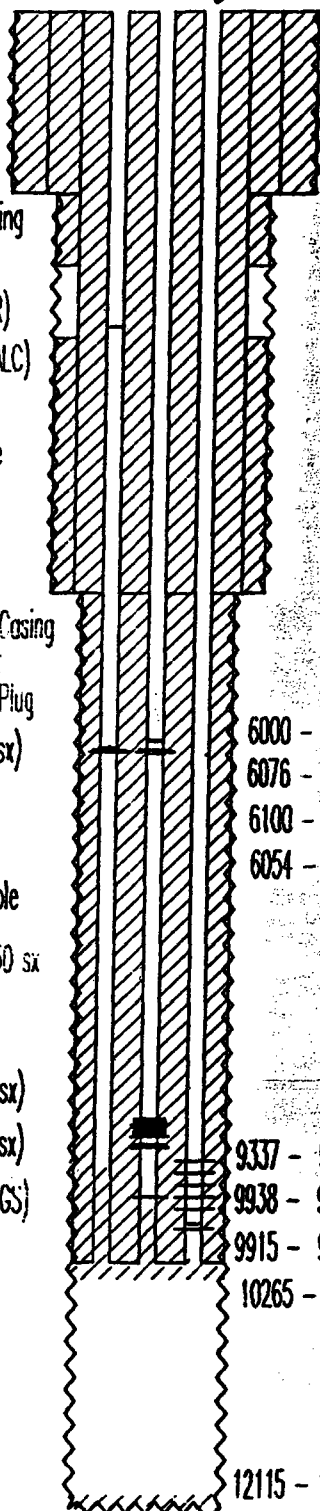
V6-WU #112

TEXACO

NEW MEXICO M STATE NO. 5

API# 30025205150000

0 - 1504' Cement 1150 sx
0 - 1504' 17.5" OD Openhole
0 - 1504' 13.375" OD Surface Casing
2600 - 2610' Fish (STUCK ANCHOR)
2700 - 4788' Cement 1700 sx (CALC)
1504 - 4788' 12.25" OD Openhole
0 - 4788' 9.625" OD Intermediate Casing
6050 - 6094' Cement Plug
6076 - 6094' Abandoned Perfs (SQZ'D W/ 250 sx)
4788 - 12215' 8.75" OD Openhole
0 - 10226' Cement 2250 sx
9068 - 9214' Abandoned Perfs (SQZ'D W/ 225 sx)
9283 - 9310' Abandoned Perfs (SQZ'D W/ 125 sx)
9700 - 9701' Perfs (COMMUNICATE STRINGS)
0 - 9473' 2.875" OD Tubing
0 - 10226' 2.875" OD Tubing
0 - 10202' 2.875" OD Tubing



0 - 2100' Cement (BRDNHD SQZ W/ 650 sx - TEMP)

560 FNL & 760 FNL
SEC 1, TWN 18 S, RANGE 34 E
ELEVATION: 4010 ES
COMPLETION DATE: 11-10-85

COMPLETION INTERVAL: 9938 - 9960 (WFMP)
IP: 284 BOPD, 0 MCFD, 20 BWPD (FLOWING)

SECOND CMPL INTRVL: 6076 - 6094 (GLRT)
IP: 40 BOPD, 0 MCFD, 160 BWPD (S)

CURRENT STATUS: SHUT-IN

6000 - 6010' CIBP
6076 - 6094' Abandoned Perfs
6100 - 6110' CIBP (HYDROMITE CAP)
6054 - 6060' Fish (STUCK PKR)

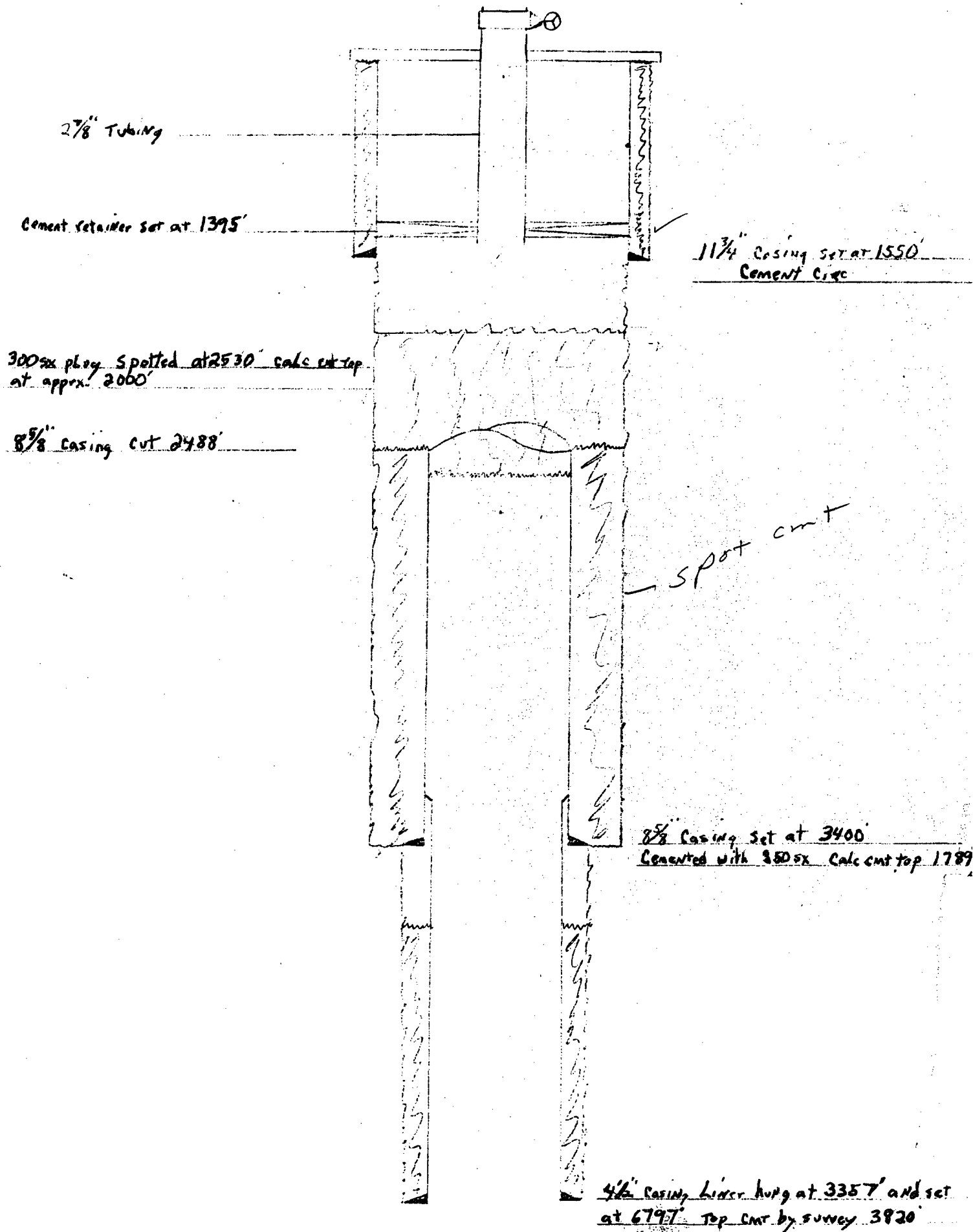
9337 - 9800' Perfs (6/87)
9938 - 9960' Perfs
9915 - 9920' Fish (JUNK RBP)
10265 - 10365' Cement Plug 40 sx

12115 - 12215' Cement Plug 40 sx

TD: 12215'

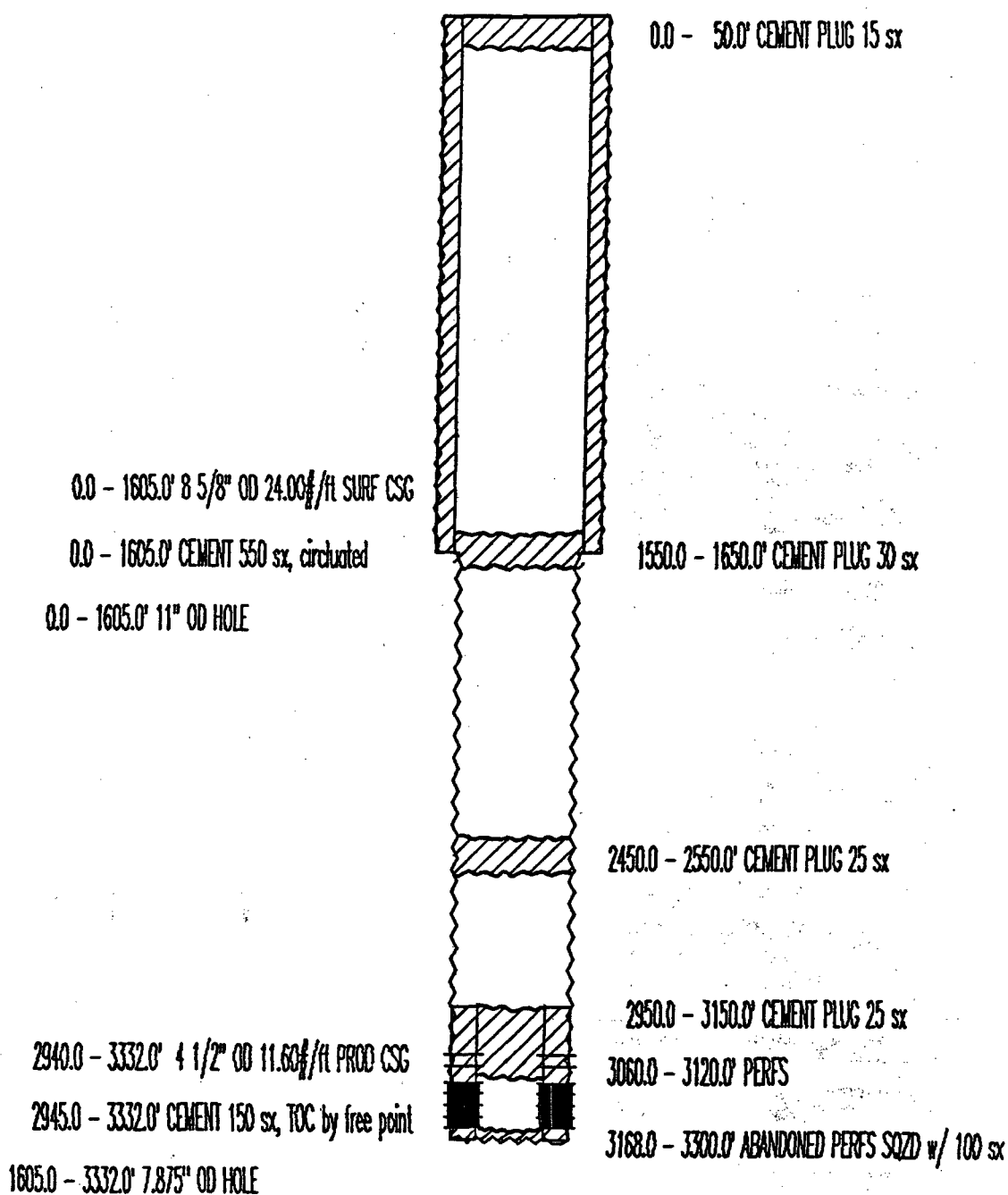
7-28-76

New Mexico M State
Well No 6



Spud 5-27-59
P&A: 10-12-59

TEXACO E&P INC
NM "R" STATE NCT-3 No. 14
API# 30 025 xxxxx



990 FSL & 660 FWL
SEC 1, T1N 18 S, RANGE 34 E
ELEVATION: 4007 GL
COMPLETION DATE: 06-26-59
COMPLETION INTERVAL: 3060 - 3120 (7Rivers)

VGSAU 211

API # 30-025-24331

35687

710' FSL & 1280' FWL
SEC 1, TWN 18-S, Range 34-E, County Lea
ELEVATION: 3995' GL, 4009' KB
Completed:

Surface Casing:

12 1/4" hole
8 5/8" csg - 24#
set @ 1555'. Cemented w/ 450 sx
class "C" 13.5 ppg cmt and 250
sx cl "C" 14.8 ppg cmt.
(11/25/01). Top job w/ 1" PVC
w/ 50 sx cl "C" cmt.

Brief Workover History:

11/20/01 - 12/25/01: Drilling well to 4765'. Left 4 3/4" bit, 1591' of 2 7/8" tubing, 7 7/8" Pkr, O/F tool and 325' of 2 7/8" N80 tubing to surface. EOT @ 1937', packer @ 327'. Well w/ surface casing only to 1555'. Open Hole from 1555' to 4765'. Could not kill the well. Left well flowing to battery.
05/6/01 - 05/8/01: Coil tubing job. Attempt to abandon the well w/ coil tubing. Cut bit. Made hole to 2361'. CT parted. Left hiptripper and 447' of coil tubing in the hole.

7.875" hole size

EOP @ 1937'

Coil Tubing: 447'

LANDING DETAILS:

- 1- 4 3/4" bit (0.75')
- 1- Bit sub (1.92')
- 1- Pup joint 2 7/8" N80 box-pin (10')
- 1- 2.25" x 2 7/8" SN (1.05')
- 51- Joints of 2 7/8" tubing (1591')
- 1- 7 7/8" 49B A3 Lock Set Pkr,
- 1- 2 7/8" x 2.31" F nipple O/F tool
- 10- Joints of 2 7/8" N80 tubing (325')

PACKER SET @: 327'

TD @ 4765

Zones

Top	Depth	Interval
T Anhydrate	1,597	158
T Salt	1,755	991
B Salt	2,746	94
Yates	2,840	357
7 Rivers	3,197	589
Queen	3,786	326
GB Marker	4,112	92
GB Dol Top	4,204	43
GB Dol Bott	4,247	13
San Andres	4,260	248
LSA	4,508	180
O/W	4,688	

COMMENTS AND RECOMMENDATIONS:

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
1301 W. Grand Ave., 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 and Natural Resources

Form C-103
Revised May 08, 2003

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-35687
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Vacuum Grayburg San Andres Unit
8. Well Number 211
9. OGRID Number
10. Pool name or Wildcat Vacuum Grayburg San Andres
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3995' GL

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:
Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
Chevron U.S.A. Inc.

3. Address of Operator
15 Smith Road - Midland, Texas 79705

4. Well Location
Unit Letter M : 710 feet from the South line and 1280 feet from the West line
Section 1 Township 18S Range 34E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3995' GL

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☒
CASING TEST AND CEMENT JOB ☐
OTHER: Completion of P&A Procedure ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

01-30-04 MIRU Key.
02-02-04 MIRU reverse unit. Move in WS, choke manifold & mud. RU pump on tbg; pumped 25 bbls mud to kill tbg. Test BOP to 1000# (good). Rel pkr @ 1536'; RU pump on csg; pump 60 bbls brine wtr & circulated well. Well started flowing up tbg & turned well to frac tanks.
02-03-04 Pumped 95 bbls mud down csg & 20 bbls down tbg; well killed. TOH w/sub, 3-1/2" tbg & pkr.
02-04-04 Started pumpg wtr & followed w/900,000# utility brady sand. Flushed w/wtr. Check csg; flowing; getting sand in returns; SI csg. RU pump on tbg; pumped 30 bbls mud; killed tbg.
02-05-04 TIH & tagged @ 2056'. Tbg started flowing; RU pump on tbg & pumped 20 bbls mud to kill tbg. Attempt to flow csg back to frac tanks; started flowing sand back; SI csg.
02-06-04 Opened csg flowing; pumped 30 bbls down tbg & followed w/110,000# utility brady sand. Started circulating sand; killed tbg w/mud. SD 2 hrs to let sand fall; well dead; lowered tbg to tag @ 2056'.

(Continued on Page 2)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Laura Skinner TITLE Regulatory Specialist DATE 03-17-04

Type or print name Laura Skinner

Telephone No. 432-687-7355

(This space for State use)

APPROVED BY Larry W. Wink TITLE OC FIELD REPRESENTATIVE II/STAFF MANAGER DATE MAR 19 2004
Conditions of approval, if any:

VACUUM GRAYBURG SAN ANDRES UNIT NO. 211
PAGE 2

- 08-29-03 TOH w/bit & TIH w/shoe.
- 09-02-03 Bridge @ 1933' & @ 2026'; drilled to 2708'.
- 09-03-03 Continue drlg on coil tbg.
- 09-04-03 Milled from 2711' to 2720'; pushed down to 2757'.
- 09-05-03 Milled from 2757' to 2762'.
- 09-08-03 Lost flat bottom mill & two 4-3/4" drill collars.
- 09-09-03 TIH w/overshot. Couldn't latch on to fish.
- 09-10-03 TIH w/shoe. Cleaned out 9' bridge @ 1960'; milled 4' of fill over fish @ 2697'.
- 09-11-03 TOH w/drill pipe. Lay down DC & shoe. Waiting on shoe w/cutlip guide.
- 09-12-03 TIH w/shoe. Fish turned loose & pushed down to 2740'. TOH to 1470' dragging on way out.
- 09-13-03 TOH w/drill pipe & shoe. 4 jts pipe bent; shoe showed wear on bottom & inside. TIH w/overshot. Tight spot @ 1963' & 2020'.
- 09-16-03 Picked up swivel @ 2708', worked tbg down to 2809'. TOH w/overshot; no fish; lay down 6 bent jts of 3-1/2" drill pipe.
- 09-17-03 Killed well w/460 bbls down csg & 18 bbls down tbg. Could not circulate mud; well dead.
- 09-19-03 Rigged pump on tbg & pumped 1500 sacks Class H cement. RU to reverse circulate; couldn't. At this time still flowing back mud, then turn to cement.
- 09-22-03 Casing pressure 350#. Pick up bit & 3-1/2" drill pipe. Tagged @ 1615' & 1811'.
- 09-23-03 Continue TIH & clean out cement out of bottom of drill pipe. Tag @ 1963' & 2020', fell thru to 2700'. RU swab on tbg to tag fluid @ 300' from surface (no pressure on csg).
- 09-24-03 TOH w/bit & drill pipe; TIH w/drill pipe to 2695'.
- 09-25-03 Check tbg pressure & casing pressure 0#.
- 09-26-03 Run tracer survey.
- 09-27-03 TIH w/sonar tool, tagged @ 1520'. TOH w/wire line & sonar tools.
- 09-30-03 TIH w/4-1/2" casing to 1543'.
- 10-01-03 Continue TIH w/csg & tagged @ 1720', 1945'm, 2020', 2262', 2484', 2528' & 2560'; ran csg to 2685'. TIH w/sonar tool; took reading from 2358' to 2344'. TIH w/csg, tagged @ 2346'.
- 10-02-03 TIH w/csg to 2682'; tagged @ 2284', 2420'. TIH w/sonar tool; readings from 2601' to 2670'.
- 10-03-03 Tool quit working; change out tool. TIH w/sonar tool to record from 2557' to 2674'. TIH w/sonar tool, record from 2516' to 2531'; tagged w/tool @ 2531'. TIH w/sonar tool & recorded from 22785' to 2341' & tagged @ 2341'.
- 10-06-03 TIH w/4-1/2" csg & tagged @ 2293'-2420', rotated thru. Tagged @ 2682'.
- 10-08-03 RU on 4-1/2" csg & pumped 2500 sacks Class C cement.
- 10-09-03 TOH w/csg to 2613'; tbg free. TIH & tagged @ 2671'. Rig pump on csg & displaced hole w/brine water. Well started flowing.
- 10-10-03 RU & pumped mud down csg. RU & pumped 2500 sacks Class C cement.
- 10-13-03 TIH w/tbg & tagged @ 2674'; well still flowing.
- 10-14-03 Lay down 3-1/2" drill pipe & move out 4-1/2" csg.
- 10-15-03 Continue TIH w/tbg to 2618'. RU on tbg & pumped 2500 sacks Class C cement.
- 10-16-03 TIH w/tbg; tag @ 2650'. TOH to 2648' & displaced hole w/brine water. Well started to flow.
- 10-21-03 Set 3-1/2" WS @ 2618'.
- 10-22-03 Pump 20/40 brandy sand & 100 mesh.
- 10-23-03 TOH w/tbg to 2408'; unplug tbg. TIH w/tbg & tagged @ 2543'. Well started flowing on tbg.
- 10-24-03 TIH w/3-1/2" tbg to 1548'. ND BOP & NU tree. Rig down.

VGSAU 211

ATTACH
C-103

PLEASE SCAN INTO WELL FILE
30-025-35687

710' FSL & 1280' FWL
SEC 1, TWN 18-S, Range 34-E, County Lea
ELEVATION: 3995' GL, 4009' KB
Completed:

9/19 - 1500 SK CL.H
9/23 Tag@2700'
10/8 2500 SK CL.C
10/9 Tag@2671'
10/10 2500 SK CL.C
10/13 Tag@2674
10/15 2500 SK CL.C
10/16 Tag@2650
10/22 333882
10/23 Tag@2453'

Surface Casing:
12 1/4" hole
8 5/8" csg - 24#
set @ 1555'. Cemented w/ 450 sx
class "C" 13.5 ppg cmt and 250 sx
cl "C" 14.8 ppg cmt. (11/25/01).
Top job w/ 1" PVC w/ 50 sx cl
"C" cmt

7.875" hole size

Brine

1,240,000 lbs sand 20/40

2- Jts 4 3/4" Drill
Collars

Coll Tubing: 447'

Water
Flood
Water

TD @ 4765

Wellbore Geometry

1555'-1762': Gage hole (Anhydrite)
1762'-2255': Not Logged.
2255'-2340': 8.3' hole (Sonar Tool)
2340'-2576': 7.4' hole (Sonar Tool)
2576' - 2700': 21' hole

Ledges (Driller)

1945', 2020', 2262', 2320', 2341', 2484',
2528', 2560'.

Zones

Top	Depth	Interval
T Anhydrite	1,598	164
T Salt	1,762	913
B Salt	2,675	198
Yates	2,873	324
7 Rivers	3,197	588
Queen	3,785	458
GB Marker	4,243	93
GB Dol Top	4,336	45
GB Dol Bott	4,381	19
San Andres	4,400	247
LSA	4,647	53
O/W	4,700	

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
811 South First, Artesia, NM 87210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-103
Revised March 25, 1999

WELL API NO. 30-025-35687
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Vacuum Grayburg San Andres Unit
8. Well No. 211
9. Pool name or Wildcat Vacuum Grayburg San Andres

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other	2. Name of Operator Chevron U.S.A. Inc.
3. Address of Operator 15 Smith Road - Midland, Texas 79705	4. Well Location Unit Letter M 710 feet from the South line and 1280 feet from the West line Section 1 Township 18S Range 34E NMPM County Lea
10. Elevation (Show whether DR, RKB, RT, GR, etc.) 3995' GL	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐	SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐ CASING TEST AND CEMENT JOB ☐ OTHER: ☐ OTHER: Follow-Up of P&A ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

08-13-03 MIRU.
08-15-03 TIH w/F.W.E. plug (set @ 317' & test to 1000#; good). MI 5000' of 2-7/8" work string.
08-18-03 TIH w/C.L. & perforating tbg gun. TIH tag @ 1671'; TOH; perf'd tbg.
08-19-03 TOH laying down 2-7/8" prod tbg; TOH w/pkr & tbg. PU work string & tagged @ 1922'.
08-20-03 TIH w/tbg to 1943'. Unable to go deeper. TOH w/WS; TIH to 1875'.
08-21-03 TIH w/shoe; PU drill collars & drill pipe & tagged @ 1715'.
08-22-03 Circ well. TIH w/drill pipe to 1715'. Clean out to 1910'. TOH w/drill pipe to 1461'.
08-25-03 TIH w/drill pipe to tag @ 1966'. Circ'd hole clean. TOH w/drill pipe & shoe. TIH w/bit, dc & drill pipe to 1524'.
08-26-03 TIH w/drill pipe & tagged @ 2015'. Fall thru @ 2031'; hit water flow.
08-27-03 Drilling & cleaned out to 2408'.
08-28-03 TIH w/drill pipe & tagged @ 2376'. Tag solid @ 2695'; drl'd to 2704'.

(Continued on page 2)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Laura Skinner TITLE Regulatory Specialist DATE 11-05-03

Type or print name Laura Skinner Telephone No. 432-687-7355

(This space for State use)

APPROVED BY Larry W. Wink OC FIELD REPRESENTATIVE II/STAFF MANAGER DATE JAN 26 2004
Conditions of approval, if any:

VACUUM GRAYBURG SAN ANDRES UNIT NO. 211

PAGE 2

- 02-09-04 Pumped 30 bbls FW following w/94,000# utility brady sand. Started circulating sand; SI csg. Killed tbg lower tbg to tag @ 2056'.
- 02-10-04 Stand-by. Open csg; well dead.
- 02-11-04 Pumped 20 bbls brine wtr & 2 bbls FW, followed w/400 sacks Class C cmt. SI well.
- 02-12-04 Bled well down to 0 pressure on csg; down due to bad weather.
- 02-13-04 Not able to pump sand; plugging off pump. SD.
- 02-16-04 Bled pressure off & lowered tbg to tag @ 2018'; rotated pipe; couldn't make any hole.
- 02-17-04 Not able to pump sand; pump plugging off. SD.
- 02-18-04 Rig pump on tbg & pumped 12 bbls mud to kill tbg. RD.
- 02-20-04 MIRU Key.
- 02-23-04 Pumped 56,000# utility sand; started getting sand up back side; SD 2 hrs to let sand settle; pulled tbg in 8-5/8" csg. TIH w/3-1/2" tbg, tag @ 2037'. Pumped 48,000# utility sand. SD.
- 02-24-04 Spot 400 sacks cmt in open hole. Reverse circulated 20 bbls w/3 bbls cmt. SD.
- 02-25-04 TIH tag @ 2178'. Pulled tbg to 1805'. Pumped 20 bbls followed w/utility brady sand. SD 2 hrs. Pumped 52,043# utility sand. SD.
- 02-26-04 TIH w/3-1/2" tbg & tag @ 2148'. Pulled tbg to 2143'. Pumped 127,350# utility sand. Started getting gel w/sand up back side; SD; killed tbg; TOH to 1459'; csg dead.
- 02-27-04 Bled tbg down (air); csg flowing gel wtr. TIH to 1770'. SD.
- 02-28-04 Pumped 10 bbls mud to kill tbg. Spot cmt as follows: tbg @ 1777', 5 bbls mud, 6 bbls FW, 75 sx cmt, flush w/6 bbls FW, 10 bbls mud; SI csg. Pull tbg to 1519', pump on tbg, pumped 4 bbls mud, clear tbg, SI well.
- 03-01-04 Lower tbg to tag @ 1727'. RU on tbg, established pump in rate, pumped 30 bbls. Bled down & killed tbg w/mud.
- 03-02-04 Spot cmt w/75 sacks Class C cmt. TOH w/tbg to 1393'. Reverse circulated w/12 bbls mud; shut tbg in & pumped down csg w/4 bbls mud to 250 psi; SI well.
- 03-03-04 TIH w/tbg & tagged @ 1727'. Open well to pit; flowing 4 bpm. SI well.
- 03-04-04 Bled well down; kill tbg w/10 bbls mud. TOH w/tbg. SD due to wind.
- 03-05-04 SD due to wind.
- 03-08-04 TIH to 1707'. Circulated hole w/151 bbls mud; well dead; pumped 3-1/2 bbls FW, 16 bbls cmt; close csg; TOH to 1393'; reverse circulated w/24 bbls mud, 5 bbls cmt in returns; SI well for 2 hrs. Open well (dead). TIH w/3-1/2" tbg to tag @ 1629'. Pulled tbg up to 1613'. Pump 7 bbls FW 18.5 bbls cmt; shut csg in; pull tbg up to 1174'; reverse circulated w/25 bbls mud, 3 bbls cmt in returns. SI well for 2 hrs. RD.
- 03-09-04 TOH w/tbg; last jts plugged w/cmt. TIH w/tbg to 1393'. Pumped 12 bbls FW & 200 sacks Class C Neat cmt; OH w/tbg. Pumped 200 sacks Class C Neat cmt to surface; circulated 4 bbls cmt. TOH w/3-1/2" tbg. ND BOP. TOP off 8-5/8" csg w/8 sacks cmt. RD. FINAL REPORT.