

VI

Tabulation

of

Well Data

VGSAU 132 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 4	Injector	30-025-24332	Feb-73	220-S	100-W	1	M	18-S	34-E	Lea	4,788	Yes
VGSAU 8	Producer	30-025-02275	Jan-42	660-S	1980-E	2	O	18-S	34-E	Lea	4,647	Yes
VGSAU 9	Producer	30-025-02274	Dec-41	660-S	660-E	2	P	18-S	34-E	Lea	4,710	Yes
VGSAU 10	Producer	30-025-02258	Aug-41	660-S	660-W	1	M	18-S	34-E	Lea	4,710	Yes
VGSAU 15	Injector	30-025-24328	Dec-72	1400-S	2450-E	2	J	18-S	34-E	Lea	4,761	Yes
VGSAU 16	Injector	30-025-24308	Jan-73	1400-S	1300-E	2	I	18-S	34-E	Lea	4,789	Yes
VGSAU 17	Injector	30-035-24136-1	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 23	Producer	30-025-02272	Oct-40	1980-S	1980-E	2	J	18-S	34-E	Lea	4,710	Yes
VGSAU 24	Producer	30-025-02271	Oct-40	1980-S	660-W	2	I	18-S	34-E	Lea	4,680	Yes
VGSAU 25	Producer	30-025-02256	Sep-40	1980-S	660-W	1	L	18-S	34-E	Lea	4,652	Yes
VGSAU 30	Injector	30-025-24307	Jan-73	2630-S	2630-W	2	K	18-S	34-W	Lea	4,791	Yes
VGSAU 31	Injector	30-025-24314	Dec-72	2630-S	1330-E	2	J	18-S	34-E	Lea	4,800	Yes
VGSAU 32	Injector	30-025-24330	Jan-73	2630-S	30-W	1	L	18-S	34-E	Lea	4,789	Yes
VGSAU 38	Producer	30-025-02265	Aug-40	1980-N	1980-E	2	G	18-S	34-E	Lea	4,710	Yes
VGSAU 39	Producer	30-025-02264	Jul-40	1980-N	660-E	2	H	18-S	34-E	Lea	4,710	Yes
VGSAU 40	Producer	30-025-02252	Jun-40	1980-N	660-W	1	E	18-S	34-E	Lea	4,712	Yes
VGSAU 45	Injector	30-025-24363	Mar-73	1310-N	2530-W	2	C	18-S	34-E	Lea	4,788	Yes
VGSAU 46	Injector	30-025-24364	Feb-73	1405-N	1230-E	2	H	18-S	34-E	Lea	4,788	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 53	Producer	30-025-02262	Nov-39	660-N	1980-E	2	B	18-S	34-E	Lea	4,710	Yes
VGSAU 54	Producer	30-025-02263	Nov-38	675-N	660-E	2	A	18-S	34-E	Lea	4,726	Yes
VGSAU 55	Producer	30-025-02250	Oct-39	660-N	660-W	1	D	18-S	34-E	Lea	4,710	Yes
VGSAU 110H	Producer	30-025-36500	Jan-04	653-S	20-W	1	M	18-S	34-E	Lea	4,652	Yes
VGSAU 126H	Producer	30-025-32026	Aug-93	1980-S	1308-W	1	L	18-S	34-E	Lea	4,750	Yes
VGSAU 133	Injector	30-025-35686	Apr-04	2590-N	1270-W	1	E	18-S	34-E	Lea	4,700	Yes
VGSAU 138	Producer	30-025-30754	Feb-90	1980-N	2583-W	2	F	18-S	34-E	Lea	4,754	Yes
VGSAU 139	Producer	30-025-30755	Mar-90	1980-N	1282-E	2	H	18-S	34-E	Lea	4,732	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	Apr-04	1980-N	1309-W	1	E	18-S	34-E	Lea	6,004	Yes
VGSAU 146	Injector	30-025-30846	Aug-93	1324-N	1980-E	2	B	18-S	34-E	Lea	4,804	Yes
VGSAU 147	Injector	30-025-30798	Aug-93	1360-N	660-E	2	H	18-S	34-E	Lea	4,779	Yes
VGSAU 148	Injector	30-025-30799	Jun-90	1330-N	660-W	1	?	18-S	34-E	Lea	4,770	Yes
VGSAU 154	Producer	30-025-30801	Apr-90	660-N	1331-E	2	B	18-S	34-E	Lea	4,687	Yes
VGSAU 155	Producer	30-025-30800	May-90	660-N	10-E	2	A	18-S	34-E	Lea	4,650	Yes
VGSAU 233	Injector	30-025-36355	Oct-04	2630-S	660-W	1	L	18-S	34-E	Lea	4,556	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	Twtn	Range	County		
NM R STATE NCT-2 5	Producer	30-025-21424	Mar-77	330-N	1650-E	2	B	18-S	35-E	Lea	5,984	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	Twtn	Range	County		
VGSAU 33	Injector	30-025-24323	Feb-73	2630-N	1310-W	1	E	18-S	34-E	Lea	4,790	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	Twtn	Range	County		
VGWU 111	Producer	30-025-2111	Oct-64	330-N	34-E	2	A	18-S	34-E	Lea	6,817	Yes
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	Twtn	Range	County		
NMAC STATE 8	Producer	30-025-20555	Jan-64	330-S	1980-E	2	O	18-S	34-e	Lea	8,994	Yes
NMR STATE NCT-3 14		30-025-xxxx	May-59	990-S	660-W	1	M	18-S	34-E	Lea	3,332	Yes

**CURRENT
WELLBORE DIAGRAM**

Created: 11/4/2003
 Updated: _____
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 220' FSL & 100' FWL
 Bottomhole Location: Same
 County: Lea
 Current Status: Active Water Injection Well
 Directions to Wellsite: Buckeye, New Mexico

By: SMG
 By: _____
 Well No.: 4
 Unit Ltr: M
 Unit Ltr: _____
 St Lease: 857948
 Elevation: 3999' GR
 St: NM

Field: Vacuum Grayburg San Andres
 Sec: 1
 Sec: 1
 API: 30-025-24332
 TSHP/Range: 18S-34E
 TSHP/Range: _____
 Cost Center: BCT492200

Surface Csg.

Size: 8 5/8"
 Wt.: 20#, K-55
 Set @: 353'
 Sxs cmt: 300 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 12 1/4"

Production Csg.

Size: 5 1/2"
 Wt.: 14#, K-55
 Set @: 4800'
 Sxs Cmt: 500
 Circ: Yes
 TOC: 1915'
 Hole Size: 7 7/8"

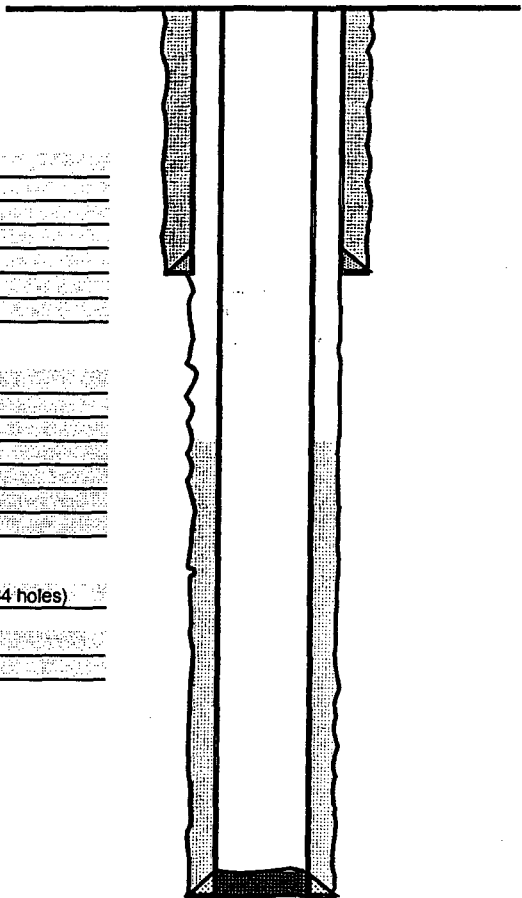
Perforations:

Grayburg San Andres 4524'-4777': 2 JSPF (17 intervals, 34 holes)

PBDT:

TD: 4788'

TD: 4800'



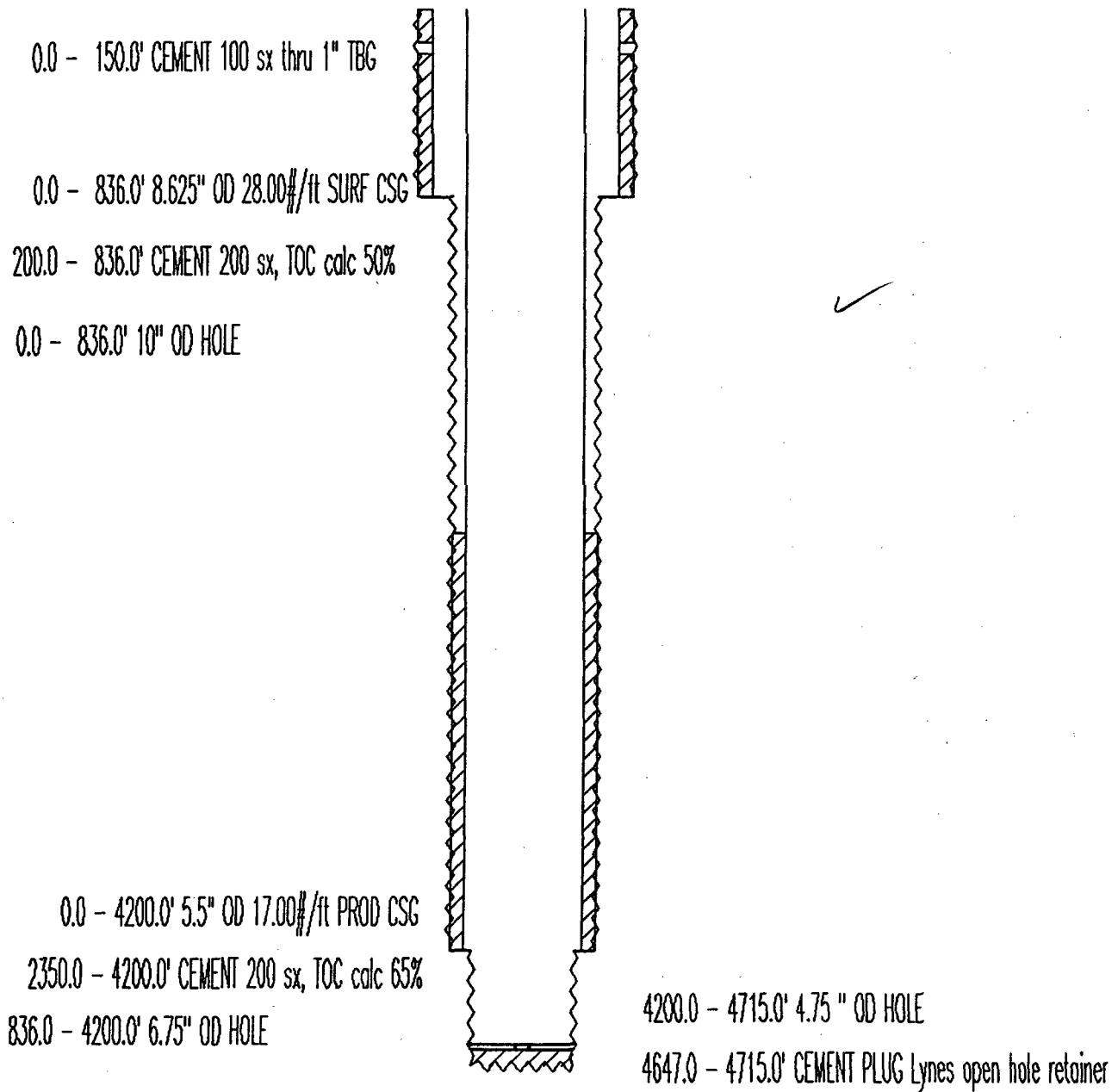
KB: 4009'
 DF: 4008'
 GL: _____

Original Spud Date: 1/17/1973
 Original Compl. Date: 2/8/1973

TD: 4800'

Remarks:

TEXACO E&P INC.
VACUUM GBSA UNIT No. 8
API# 30 025 02275



660 FSL & 1980 FEL
SEC 2, T11N 18 S, RANGE 34 E
ELEVATION: 4007 GR
COMPLETION DATE: 01-31-42

COMPLETION INTERVAL: 4200 - 4715 (GBSA)
Former Texaco New Mexico "AC" State No. 5

**CURRENT
WELLBORE DIAGRAM**

Created:	11/7/2003	By: SMG			
Updated:		By:			
Lease:	Vacuum Grayburg San Andres Unit	Well No.:	9	Field:	Vacuum Grayburg San Andres
Surface Location:	660' FSL & 660' FEL	Unit Ltr:	P	Sec:	2
Bottomhole Location:		Unit Ltr:		Sec:	
County:	Lea	St Lease:	B-1189	API:	30-025-02274
Current Status:	Active Oil Well	St:	NM	Cost Center:	BCT492200
Directions to Wellsite:	Buckeye, New Mexico	Elevation:	4010' DF		

Surface Csg.

Size:	8 5/8"
Wt.:	28#, SMLS
Set @:	845'
Sxs cmt:	300
Circ:	Yes
TOC:	Surface
Hole Size:	10 3/4"

Production Csg.

Size:	5 1/2"
Wt.:	17#, SMLS
Set @:	4200'
Sxs Cmt:	200 sxs
Circ:	
TOC:	2500'
Hole Size:	6 3/4"

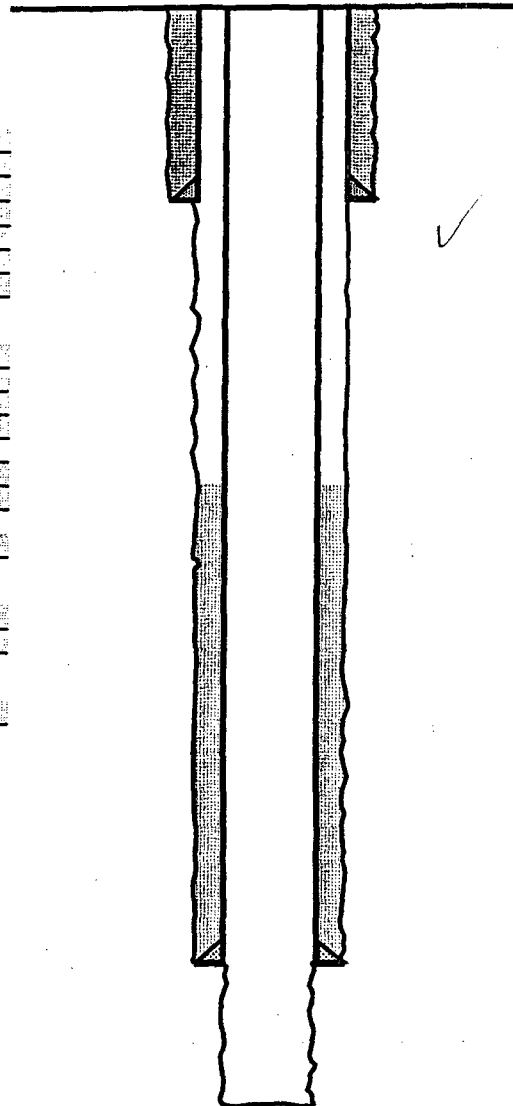
TD: 4710'

Open Hole

Hole Size:	4 3/4"
Depth:	4200'-4710'

Perforations:

Open Hole	4200'-4710'
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TD: 4710'

KB:	
DF:	4010'
GL:	4005'

Original Spud Date:	11/14/1941
Original Compl. Date:	12/18/1941

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
 Unit Ltr: M
 Unit Ltr:
 St Lease: B-1308
 Elevation: 4018' KB
 Field: Vacuum Grayburg San Andres
 Sec: 1 TSHP/Range: 18S-34E
 Sec: TSHP/Range:
 API: 30-025-02258 Cost Center: BCT492200

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:

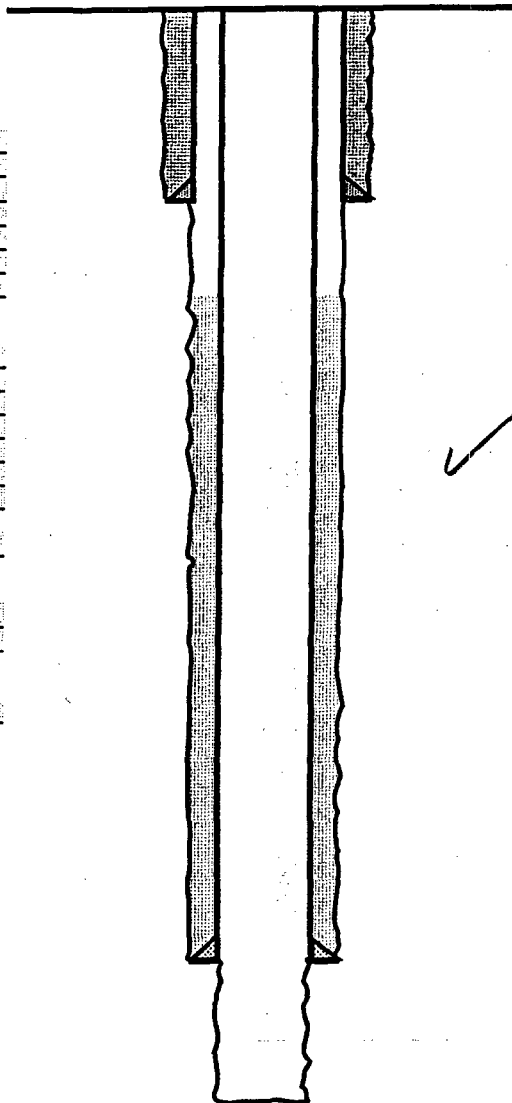
4710'

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:

**CURRENT
WELLBORE DIAGRAM**

Created: 5/14/2004 By: SMG
 Updated: _____ By: _____
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 1400' FSL & 2450' FEL
 Bottomhole Location: _____
 County: Lea St: NM
 Current Status: Active Injection Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 15 Field: Vacuum Grayburg San Andres
 Unit Ltr: J Sec: 2 TSHP/Range: 18S-34E
 Unit Ltr: _____ Sec: _____ TSHP/Range: _____
 St Lease: B-1189-1 API: 30-025-24328 Cost Center: _____
 Elevation: 4009' GR TEPI: BCT493000
 MVP: BCT494500

Surface Csg.

Size: 8 5/8"
 Wt.: 20#, H-40
 Set @: 350'
 Sxs cmt: 350
 Circ: Yes
 TOC: Surface
 Hole Size: 12 1/4"

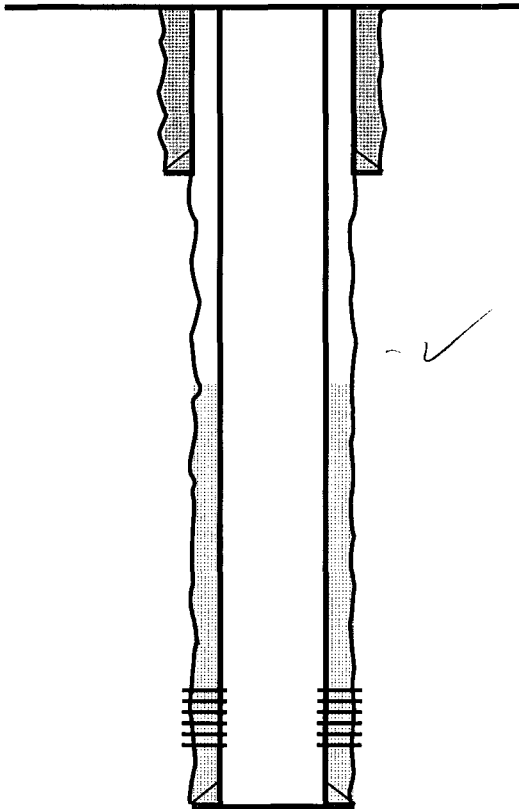
Production Casing

Size: 4 1/2"
 Wt.: 9.5#, K-55
 Set @: 4800'
 Sxs Cmt: 650
 Circ: ?
 TOC: 2390'
 Hole Size: 7 7/8"

TD: 4761'

Perforations:

Vacuum Grayburg San Andres 4531'-4751'



KB: ?
 DF: 4017'
 GL: 4009'
 Original Spud Date: 12/30/1972
 Original Compl. Date: 1/14/1973

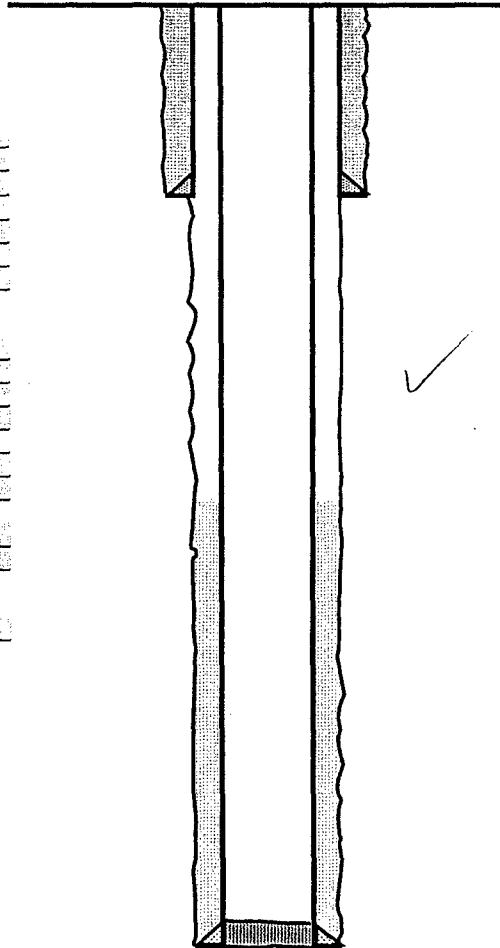
TD: 4761'

Remarks:

**CURRENT
WELLBORE DIAGRAM**

Created:	11/6/2003	By: SMG	Well No.:	16	Field:	Vacuum Grayburg San Andres
Updated:		By:	Unit Ltr:	1	Sec:	2
Lease:	Vacuum Grayburg San Andres Unit		Unit Ltr:		Sec:	
Surface Location:	1400' FSL & 1300' FEL		St Lease:	B-1189-1	API:	30-025-24308
Bottomhole Location:			Elevation:	4013' DF	Cost Center:	BCT492200
County:	Lea	St: NM				
Current Status:	Active Injection Well					
Directions to Wellsite:	Buckeye, New Mexico					

Surface Csg.	
Size:	8 5/8"
Wt.:	20#, H-40
Set @:	353'
Sxs cmt:	300 sxs
Circ:	Yes
TOC:	Surface
Hole Size:	12 1/4"
Production Csg.	
Size:	5 1/2"
Wt.:	14#, K-55
Set @:	4800'
Sxs Cmt:	500 sxs
Circ:	
TOC:	2750'
Hole Size:	7 7/8"
PBTD:	4789'
TD:	4800'
Perforations:	
2 JSPI	4428'-4742'



KB:	4014
DF:	4013
GL:	4004'
Original Spud Date:	1/4/1973
Original Compl. Date:	1/22/1973

TD: 4800'

Remarks:

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 1/2" 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

Prod. Csg:

4 1/2"

9.5

K-55

Set @ 4,800'

With: 650

Hole Size: 7 7/8"

Circ:

TOC @ 2,706'

COTD:

PBSD: 4,787'

TD: 4,800'

Updated: 26-Sep-02

By: GEORGE GARCIA

PACKER SET @ 4339

PERFS 4386' TO 4740'

PBSD 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"

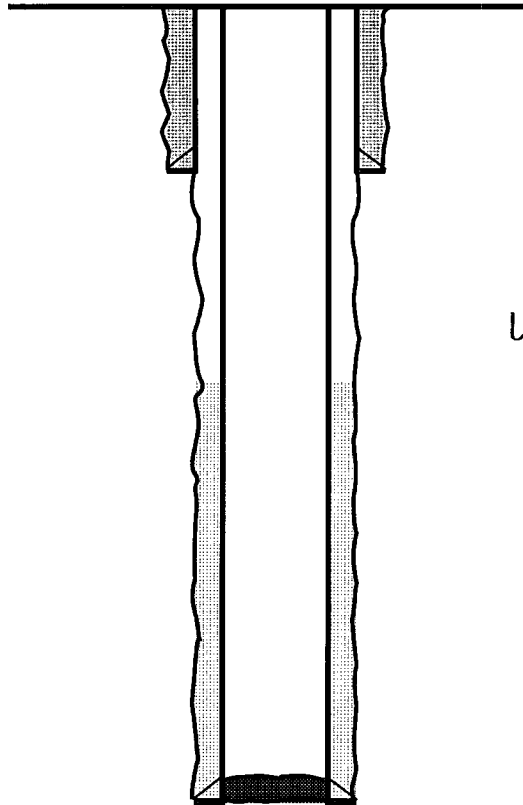
Production Casing

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:

**CURRENT
WELLBORE DIAGRAM**

Created:	<u>2/20/2003</u>	By:	<u>SMG/MCD</u>	Well No.:	<u>23</u>	Field:	<u>Vacuum Grayburg San Andres</u>
Updated:		By:		Unit Ltr:	<u>J</u>	Sec:	<u>2</u> TSHP/Range: <u>18S-34E</u>
Lease:	<u>Vacuum Grayburg San Andres Unit</u>			Unit Ltr:		Sec:	TSHP/Range:
Surface Location:	<u>1980' FSL & 1980' FEL</u>			St Lease:	<u>B-1189</u>	API:	<u>30-025-02272</u> Cost Center: <u>BCT492200</u>
Bottomhole Location:	<u>Same</u>			Elevation:	<u>4017' DF</u>		
County:	<u>Lea</u>	St:	<u>NM</u>				
Current Status:	<u>Active Oil Well</u>						
Directions to Wellsite:	<u>Buckeye, New Mexico</u>						

Surface Casing

Size:	<u>8 5/8"</u>
Wt.:	<u>32#, LW</u>
Set @:	<u>1644'</u>
Sxs cmt:	<u>265</u>
Circ:	<u>Yes</u>
TOC:	<u>Surface</u>
Hole Size:	<u>10"</u>
Bradenhead Squeeze (12/11/80)	<u>750 sxs 1670' to surface</u>

Production Casing

Size:	<u>5 1/2"</u>
Wt.:	<u>15#, Elec. Weld</u>
Set @:	<u>4206'</u>
Sxs Cmt:	<u>200</u>
Circ:	<u>Yes</u>
TOC:	<u>Surface</u>
Hole Size:	<u>6 3/4"</u>

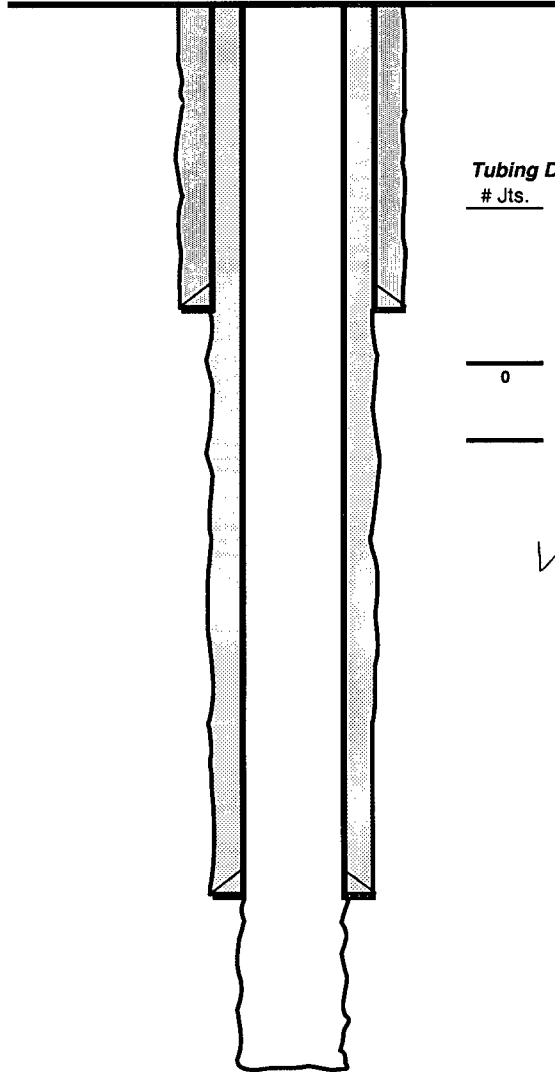
Open Hole

Hole Size:	<u>4 3/4"</u>
Depth:	<u>4206'-4710'</u>

TD:	<u>4710'</u>
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PERFS:

Open Hole	<u>4206'-4710'</u>
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KB:	<u>4017'</u>
DF:	<u>4007'</u>
GL:	<u>4007'</u>
Original Spud Date:	<u>10/28/1940</u>
Original Compl. Date:	<u>11/26/1940</u>

Tubing Detail

# Jts.	Size	Date:	Footage
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<u>0</u>	<u>Pump Intake</u>	<u>0.00</u>
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<u>EOT</u>	<u>0.00</u>
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TD: 4710'

Remarks:

VGSAU 24H

API # 30-025-02271

1980' FSL & 660' FEL
SEC 2, TWN 18-S, Range 34-E, County Lea
ELEVATION: _____ GL, 401' DF
Completed: 5/31/1940

Surface Casing:

10" hole
8 5/8" csg - 32# , Lapweld casing.
set @ 1630'. Cemented w/ 200 Sacks. Complete
Job w/ 100 Sx cmt w/ 1" pipe behind casing
(9/14/1940)

Production Casing:

6-3/4" hole
5-1/2" csg - 17# , Electric Weld.
set @ 4089' Cemented w/ 200 sx. (9/28/1940)

TOC @ 2345 (Calculated 60% fill up).

Perforations:

4089'-4405': 4 3/4" OPEN HOLE
4405'-4683': 6 1/4" OPEN HOLE (Mar-1981)
4683-4710': 4 3/4" OPEN HOLE

Horizontal Completion:

Top of Window: 4,270'
Total Measured Depth of Lateral: 5,570'
Lowest Point of Lateral: 4,637' TVD @ 5,099' MD.
Final Point of Lateral: 4453' TVD @ 5570' MD
Direction: East-West (1111.53')
Size Of Hole: 4 3/4"

Brief Workover History:

10/2/1940 : Initial Completion.
1/10/72 : **Frac Open Hole**: Frace'd Interval 4089'-4675' w/ 30,000 gals gel brine in 3 stages. 500 gal 15% HCl in first stage and 2500 gals 15% HCl in other two stages.
1/3/80 : **Directional Survey Report**: Depth measured 4220'.
3/3/1981 : **Under-Reamed and Log Well**: C/O to 4710'. Underreamed from 4405' to 4683' w/ 6 1/4" diameter. Log well w/ CNL f/ 4698' to 2680'.
07/19/89 : **Acid Open Hole**: Fish stuck tbg. C/O to 4710'. Acid open hole w/ 2,000 gls 15% HCl, 6,000 gls 15% gelled HCl and 3500# in 4 stages. Avg rate 4 bpm, ISIP=1200 psi.
11/18-23/1991 : **Acid Open Hole**: C/O to 4705'. Acid open hole w/ 1500 gls 15% HCl, 6,000 gls 20% gelled HCl and 8400 # rock salt. @ 4 bpm. Well on vacuum.
09/19-23/1994 : **Acid Open Hole** : C/O to 4687'. Acid open hole f/ 4200' to 4687' w/ 7,000 gls 15% HCl @ 4 bpm. Pressure=260 psi.
8/1999 : **Production Log** : Oil, Water and Gas entry.
9/14/1999 : **Caliper Log**.
11/22/1999 : **Drill Lateral**: Fish on top of the whipstock. 9/14/1999 - 10/13/19: Drill lateral from 4270' to 5570' w/ 4 3/4" bit.
1/25/00-2/17/00 : **Pull whipstock and Acid Lateral**: Try to drill through BP @ 4156'. Recover whipstock & open hole plkr. C/O lateral to 5589'. Run TDT log (Thermal Decay Log). C/O vertical hole to 4680'. Set Pkr @ 4322'. TIH into lateral to 4499'. R/U coil tbg unit. RIH w/ DSP tool to 5595'. Start foam acid. Acidize lateral f/ 4250' to 5570' w/ 15,000 gls 20% HCl acid. Well flwoing at 100 psi. Kill well w/ 10# brine. Run Pump.
May-2000 : **Acid vertical section** . Left well producing from both legs.
Aug-2001 : **DHS**
Feb-2002 : **Upgrade Pump** . Run Pump to handle 1200 bpd.
1/21-24/2003 : **DHS** : TIH w/ 4 3/4" bit. Tagged @ 4694'. Run and set pump @ 4438'. Motor @ 4466'.

Zones

Top	Depth	Interval
GB Marker	4,272	
GB Dol Top	4,378	43
GB Dol Bott	4,421	27
San Andres	4,448	262
O/W	4,710	

TOTAL 332

PBTD @ 4694'.

COMMENTS AND RECOMMENDATIONS:

- Production Log: 50% of water was coming from below 4650' (below the Lovington sand).

Well:

VGSAU 25**VGSA**

Reservoir:

Location: 1980'SL

660'WL

Section: 1
 TOWNSHIP 18S
 RANGE 34E
 County: LEA

Elevations:

GL: 4006'
 DF:
 KB: 11'

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

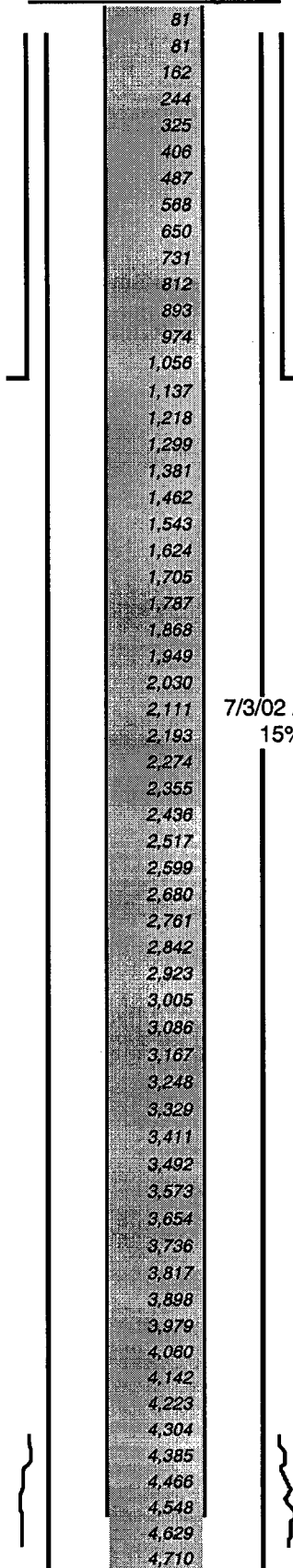
EOT 4558.87

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

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

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' (E
Hole Size:
Circ:
TOC @

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

Updated: 22-Oct-02
By: Bobby Hill

**CURRENT
WELLBORE DIAGRAM**

Created: 5/5/2004 By: SMG
 Updated: By:
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 2630' FSL & 2630' FWL
 Bottomhole Location:
 County: Lea St: NM
 Current Status: Active Injection Well
 Directions to Wellsite: Buckeye, New Mexico

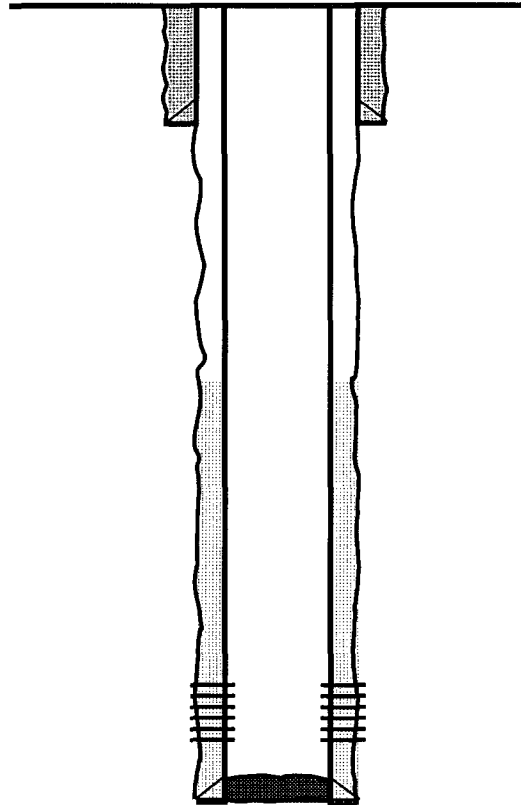
Well No.: 30
 Unit Ltr: K
 Unit Ltr:
 St Lease: B-1189-1
 Elevation: 4011' GR
 Field: Vacuum Grayburg San Andres
 Sec: 2 TSHP/Range: 18S-34E
 Sec: TSHP/Range:
 API: 30-025-24307
 Cost Center:
 TEPI: BCT493000
 MVP: BCT494500

Surface Csg.
 Size: 8 5/8"
 Wt.: 20#, H-40
 Set @: 354'
 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: 1950'
 Hole Size: 7 7/8"

TD: 4800'
PBTD: 4791'

Perforations:
 2 JSPF, 56 Holes 4443'-4740'



KB: 4022'
 DF: 4021'
 GL: 4011'
 Original Spud Date: 1/13/1973
 Original Compl. Date: 1/31/1973

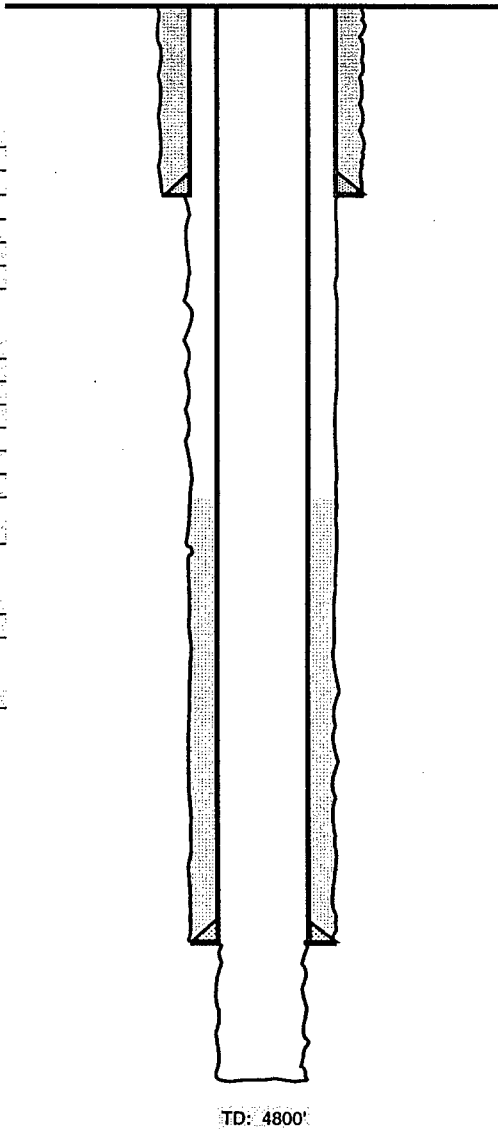
TD: 4791'

Remarks:

CURRENT
WELLBORE DIAGRAM

Created:	11/7/2003	By: SMG	Well No.: 31	Field: Vacuum Grayburg San Andres
Updated:		By:	Unit Ltr: J	Sec: 2
Lease:	Vacuum Grayburg San Andres Unit		Unit Ltr:	TSHR/Range: 18S-34E
Surface Location:	2630' FSL & 1330' FEL		St Lease: 857948	Sec: TSHR/Range:
Bottomhole Location:			Elevation: 4014' DF	API: 30-025-24314
County:	Lea	St: NM		Cost Center: BCT492200
Current Status:	Active Injection Well			
Directions to Wellsite:	Buckeye, New Mexico			

Surface Csg.	
Size:	8 5/8"
Wt.:	20#, X-40
Set @:	360'
Sxs cmt:	210 sxs
Circ:	Yes
TOC:	Surface
Hole Size:	12 1/4"
Production Csg.	
Size:	4 1/2"
Wt.:	9.5#, J-55
Set @:	4710'
Sxs Cmt:	650 sxs
Circ:	
TOC:	2610'
Hole Size:	7 7/8"
TD:	4800'
Open Hole	
Hole Size:	3 7/8"
Depth:	4710'-4732'
Perforations:	
2 JSP1	4385'-4646' (15 int., 30 holes)



KB:
DF: 4014'
GL:
Original Spud Date: 12/6/1972
Original Compl. Date: 1/14/1973

TD: 4800'

Remarks:

**CURRENT
WELLBORE DIAGRAM**

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

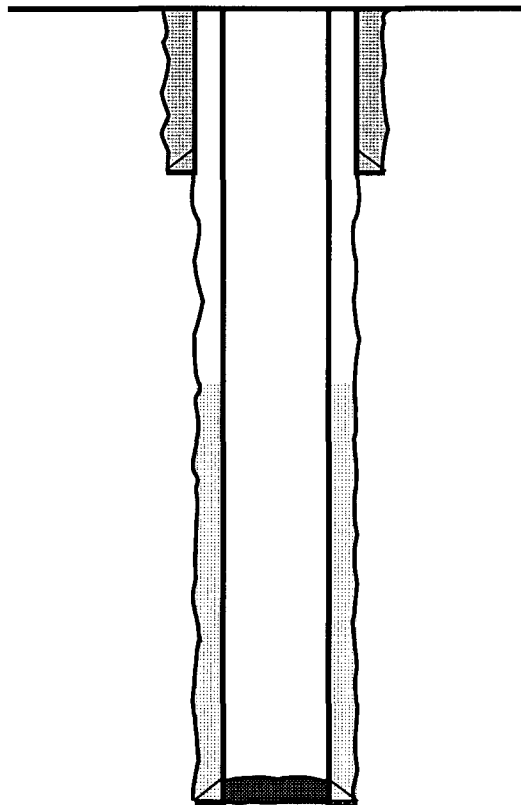
Hole Size: 7 7/8"

TD: 4800'

PBTD: 4789'

Perforations:

2 JSPP 4333'-4781'



KB: 4009'

DF: 4008'

GL: 3996'

Original Spud Date: 1/9/1973

Original Compl. Date: 1/28/1973

TD: 4800'

Remarks:

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

##33

P&A schematic

Squeeze w/50 sks 0 - 361' Cement 360 sx
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'

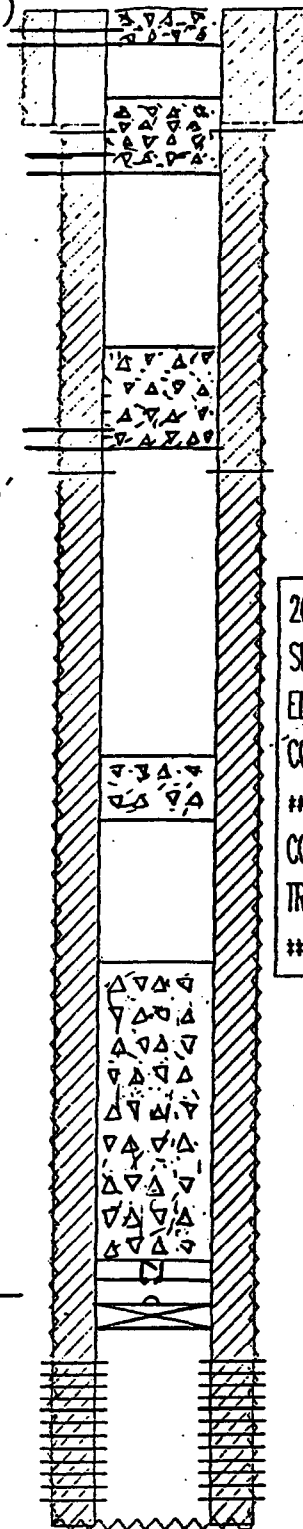
0 - 4800' Cement 650 sx

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 3/92 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'

**CURRENT
WELLBORE DIAGRAM**

Created: 11/4/2002 By: MCD
 Updated: By:
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 1980' FNL & 1980' FEL
 Bottomhole Location: Same
 County: Lea St: NM
 Current Status: Active Oil Well
 Directions to Wellsite: Buckeye, New Mexico

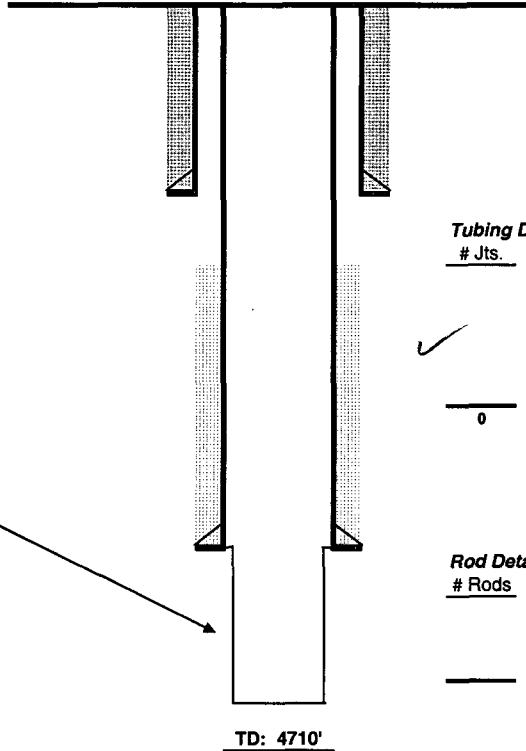
Well No.: 38
 Unit Ltr: G
 Unit Ltr:
 St Lease: B-1445
 Elevation: 4011' GL
 Field: Vacuum Grayburg San Andres
 Sec: 2 TSHP/Range: 18S-34E
 Sec: TSHP/Range:
 API: 30-025-02265 Cost Center: BCT492200

Surface Csg.
 Size: 8 5/8"
 Wt.: 32#, LW
 Set @: 1593'
 Sxs cmt: 300
 Circ: Yes
 TOC: Surface
 Hole Size: 10"

Production Casing
 Size: 5 1/2"
 Wt.: 17#, SMLS
 Set @: 4079'
 Sxs Cmt: 200
 Circ: Yes
 TOC: 2300' (calculated 60% fillup)
 Hole Size: 6 3/4"

Open Hole
 Hole Size: 4 3/4"
 Depth: 4079'-4710'
 TD: 4710'

Perforations:
 Grayburg None



KB: 4033'
 DF: 4022'
 GL: 4011'

Original Spud Date: 8/5/1940
 Original Compl. Date: 8/31/1940

Tubing Detail		Date:	
# Jts.	Size		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

Rod Detail		Date:	
# Rods	Size		Footage
			0.00

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

Remarks:

**CURRENT
WELLBORE DIAGRAM**

Created: 11/5/2003 By: SMG
 Updated: By: _____
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 1980' FNL & 660' FEL
 Bottomhole Location: _____
 County: Lea St: NM
 Current Status: Active Oil Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 39
 Unit Ltr: H
 Unit Ltr: _____
 St Lease: B-867
 Elevation: 4014' DF
 Field: Vacuum Grayburg San Andres
 Sec: 2 TSHP/Range: 18S-34E
 Sec: _____ TSHP/Range: _____
 API: 30-025-02264 Cost Center: BCT492200

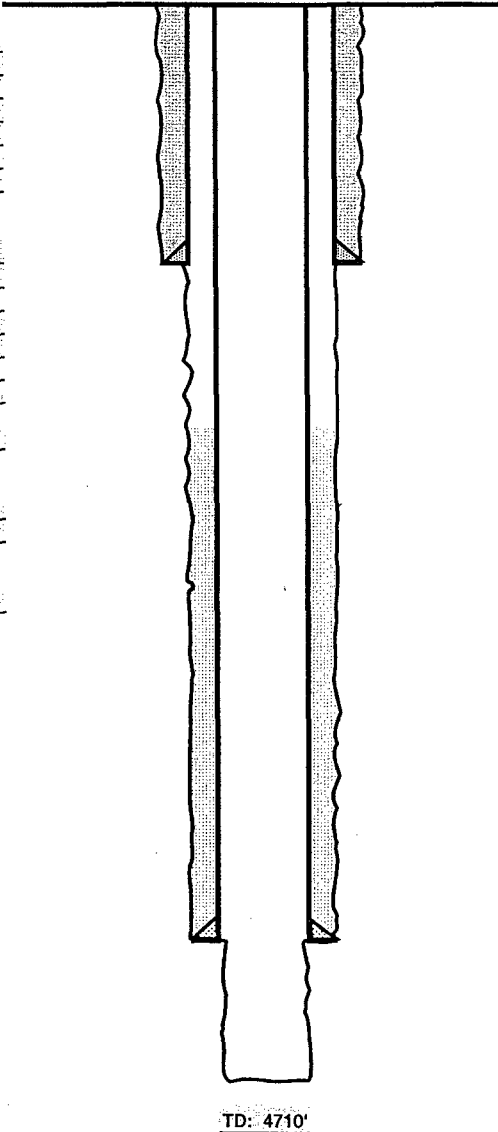
Surface Csg.
 Size: 8 5/8"
 Wt.: 32#, LW
 Set @: 1590'
 Sxs cmt: 300 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 10"

Production Csg.
 Size: 5 1/2"
 Wt.: 17#, SMLS
 Set @: 4090'
 Sxs Cmt: 200 sxs
 Circ: Yes
 TOC: 2400'
 Hole Size: 6 3/4"

TD: 4710'

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

Perforations:
 Open Hole 4090'-4710'



KB: _____
 DF: 4014'
 GL: _____
 Original Spud Date: 7/4/1940
 Original Compl. Date: 8/4/1940

TD: 4710'

Remarks:

**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 **St:** NM
Current Status: Active Oil Well
Directions to Wellsite: Buckeye, New Mexico

Well No.: 40
Unit Ltr: E **Sec:**
Unit Ltr: **Sec:**
St Lease: B-1080 **API:** 30-025-02252
Elevation: 4008' DF **Cost Center:** BCT492200

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

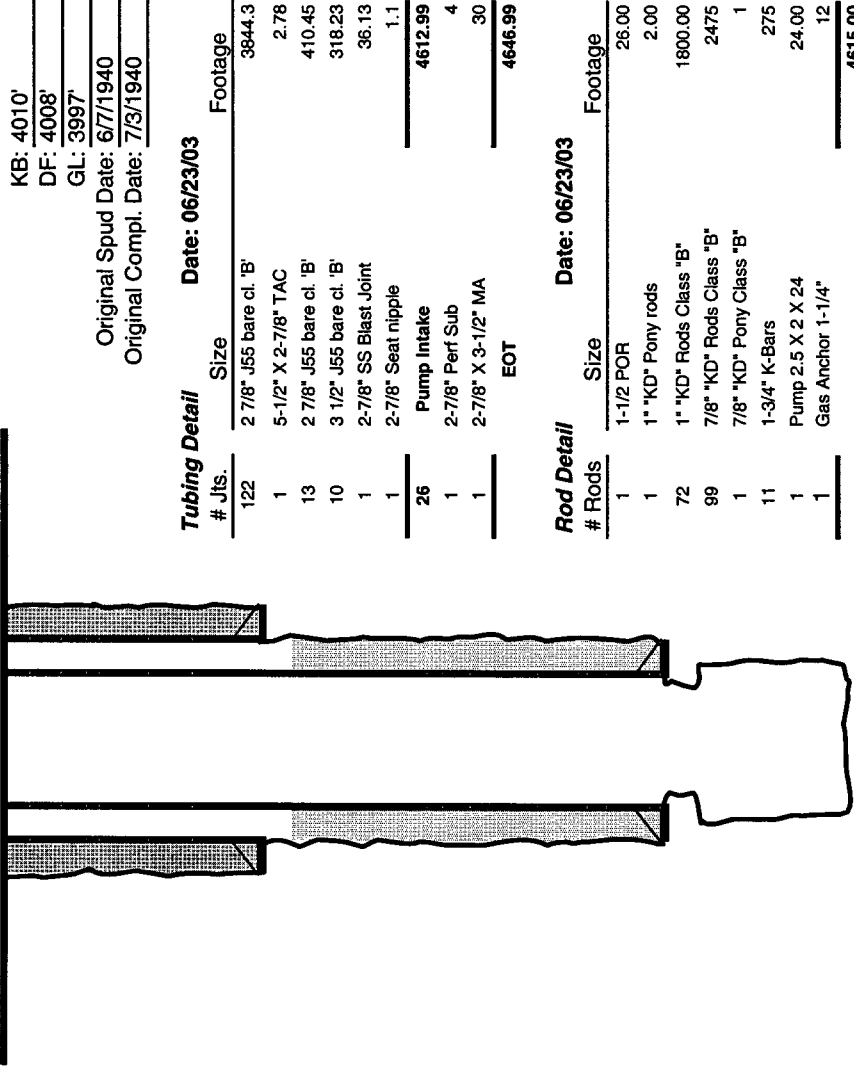
Hole Size / Depth 4 3/4" / 4076' - 4325'
Hole Size / Depth 6 1/4" / 4325' to 4712'

TD:

4710'

PERFS:

Squeeze Perfs 1585'-1585'; 230 sxs.



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	

TD: 4712'

Pump Detail

Date: 06/23/03
Barrel: 24' BRNY w/ .001 fit
Plunger: 4' AXMP w/ .004 fit
Pump: Total Fit 0.005
Seals: T/C

Remarks:

**CURRENT
WELLBORE DIAGRAM**

Created: 5/6/2004 By: SMG
 Updated: _____ By: _____
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 1310' FNL & 2530' FWL
 Bottomhole Location: _____
 County: Lea St: NM
 Current Status: Active Injection Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 45 Field: Vacuum Grayburg San Andres
 Unit Ltr: C Sec: 2 TSHP/Range: 18S-34E
 Unit Ltr: _____ Sec: _____ TSHP/Range: _____
 St Lease: B-3011-1 API: 30-025-24363 Cost Center: _____
 Elevation: 4016' GR TEPI: BCT493000
 MVP: BCT494500

Surface Csg.

Size: 8 5/8"
 Wt.: 20#, K-55
 Set @: 356'
 Sxs cmt: 300
 Circ: Yes
 TOC: Surface
 Hole Size: 12 1/4"

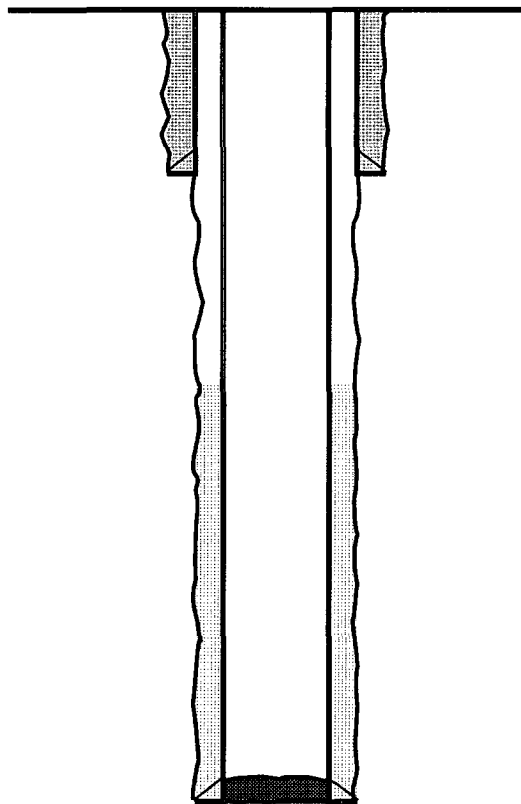
Production Casing

Size: 4 1/2"
 Wt.: 9.5#, J-55
 Set @: 4800'
 Sxs Cmt: 600
 Circ: Yes
 TOC: 2464'
 Hole Size: 7 7/8"

TD: 4800'
 PBTD: 4788'

Perforations:

2 JSPI 4433'-4756'



TD: 4800'

KB: 4026'
 DF: 4025'
 GL: 4016'
 Original Spud Date: 3/24/1973
 Original Compl. Date: 4/5/1973

Remarks:

**CURRENT
WELLBORE DIAGRAM**

Created:	11/6/2003	By: SMG	Well No.:	46	Field:	Vacuum Grayburg San Andres
Updated:		By:	Unit Ltr:	H	Sec:	2
Lease:	Vacuum Grayburg San Andres Unit		Unit Ltr:		Sec:	
Surface Location:	1405' FNL & 1230' FEL		St Lease:	B-1441	API:	30-025-24364
Bottomhole Location:			Elevation:	4018' DF	TSHP/Range:	18S:34E
County:	Lea	St: NM			TSHP/Range:	
Current Status:	Active Injection Well				Cost Center:	BCT492200
Directions to Wellsite:	Buckeye, New Mexico					

Surface Csg.

Size:	8 5/8"
Wt.:	20#, H-40
Set @:	356'
Sxs cmt:	300 sxs
Circ:	Yes
TOC:	Surface
Hole Size:	12 1/4"

Production Csg.

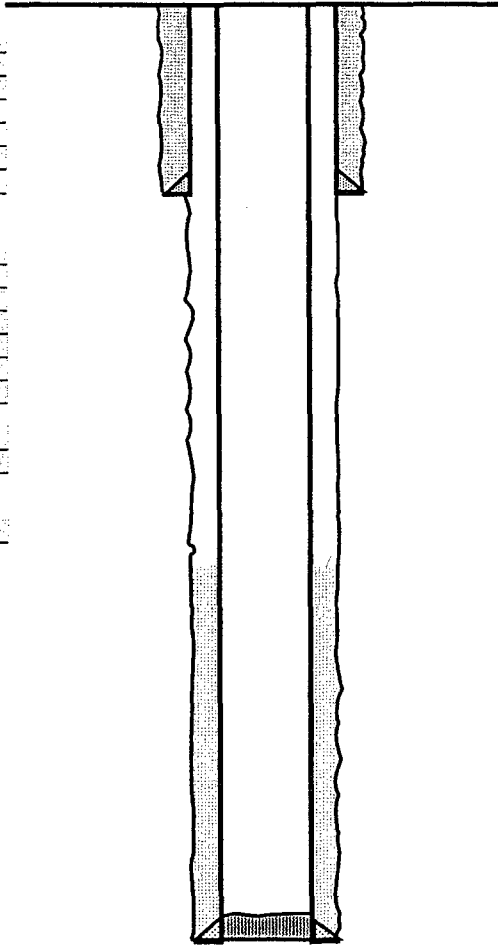
Size:	5 1/2"
Wt.:	14#, K-55
Set @:	4800'
Sxs Cmt:	500 sxs
Circ:	Yes
TOC:	3465'
Hole Size:	8 7/8"

PBTD:	4788'
TD:	4800'

Perforations:

2 JSPI, 24 int., 48 holes	4412'-4785'
---------------------------	-------------

KB:	
DF:	4018'
GL:	4010'
Original Spud Date:	2/15/1973
Original Compl. Date:	3/7/1973



TD: 4800'

Remarks:

**CURRENT
WELLBORE DIAGRAM**

Created: 5/18/2004 By: SMG
Updated: _____ By: _____
Lease: Vacuum Grayburg San Andres Unit
Surface Location: 1330' FNL & 10' FEL
Bottomhole Location: _____
County: Lea St: NM
Current Status: Active Water Injection Well
Directions to Wellsite: Buckeye, New Mexico

Well No.: 47 Field: Vacuum Grayburg San Andres
Unit Ltr: H Sec: 2 TSHP/Range: 18S-34E
Unit Ltr: _____ Sec: _____ TSHP/Range: _____
St Lease: B-867-1 API: 30-025-24365 Cost Center: _____
Elevation: 4003' GR TEPI: BCT493000
MVP: BCT494500

Surface Csg.

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

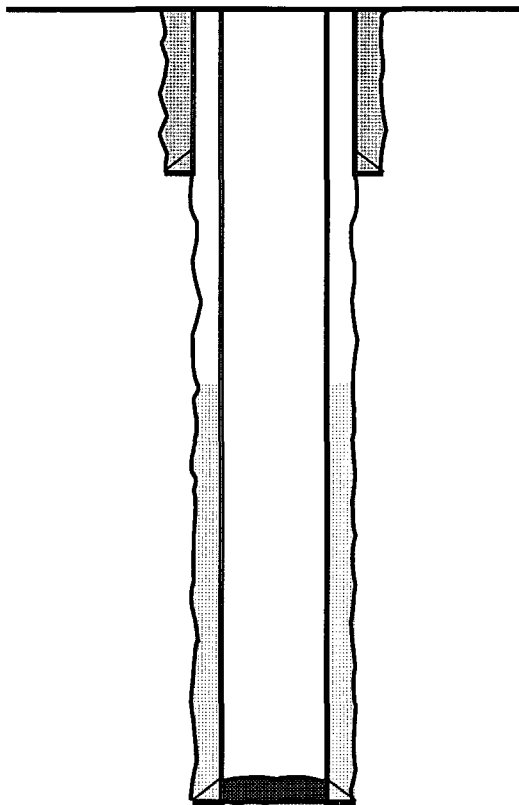
Production Casing

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

TD: 4800'
PBTD: 4788'

Perforations:

2 JSPI, 30 intervals 4361'-4739'



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

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 2JSP1 @

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 Bannisfrac 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 2JSP1 @ 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 (ADI)
& 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 1/ 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 gals 15% HCL RIH and tag @ 4750'. Set pkr @ 4208'. RWTL**INJECTION EQUIPMENT:**

1- 5 1/2" Nickel 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:

**CURRENT
WELLBORE DIAGRAM**

Created: 5/6/2004 By: SMG
 Updated: _____ By: _____
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 660' FNL & 1980' FEL
 Bottomhole Location: _____
 County: Lea St: NM
 Current Status: Active Oil Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 53 Field: Vacuum Grayburg San Andres
 Unit Ltr: B Sec: 2 TSHP/Range: 18S-34E
 Unit Ltr: _____ Sec: _____ TSHP/Range: _____
 St Lease: 857948 API: 30-025-02262 Cost Center: _____
 Elevation: 4011' GR TEPI: BCT493000
 MVP: BCT494500

Surface Csg.

Size: 8 5/8"
 Wt.: 28#, LW
 Set @: 1596'
 Sxs cmt: 300
 Circ: Yes
 TOC: Surface
 Hole Size: NA

Production Casing

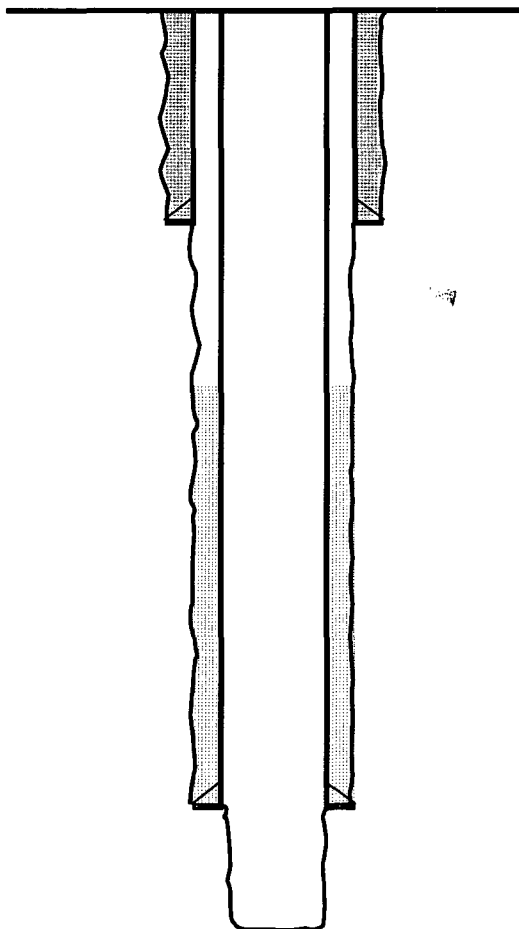
Size: 5 1/2"
 Wt.: 17#, seamless
 Set @: 4171'
 Sxs Cmt: 250
 Circ: Yes
 TOC: 2050'
 Hole Size: 6 3/4"
 TD: 4710'

Open Hole

Hole Size: 4 3/4"
 Depth: 4171'-4710'

Perforations:

Open Hole 4171'-4710'



KB: 4023'
 DF: 4022'
 GL: 4011'
 Original Spud Date: 10/11/1939
 Original Compl. Date: 11/6/1939

TD: 4710'

Remarks:

**CURRENT
WELLBORE DIAGRAM**

Created:	8/29/2003	By: SMG	Well No.:	54	Field:	Vacuum Grayburg San Andres
Updated:		By:	Unit Ltr:	A	Sec:	2
Lease:	Vacuum Grayburg San Andres Unit		Unit Ltr:		Sec:	
Surface Location:	675' FNL & 660' FEL		St Lease:	B-867	API:	30-025-02263
Bottomhole Location:			Elevation:	4001' GR		
County:	Lea	St: NM				
Current Status:	Active Oil Well					
Directions to Wellsite:	Buckeye, New Mexico					

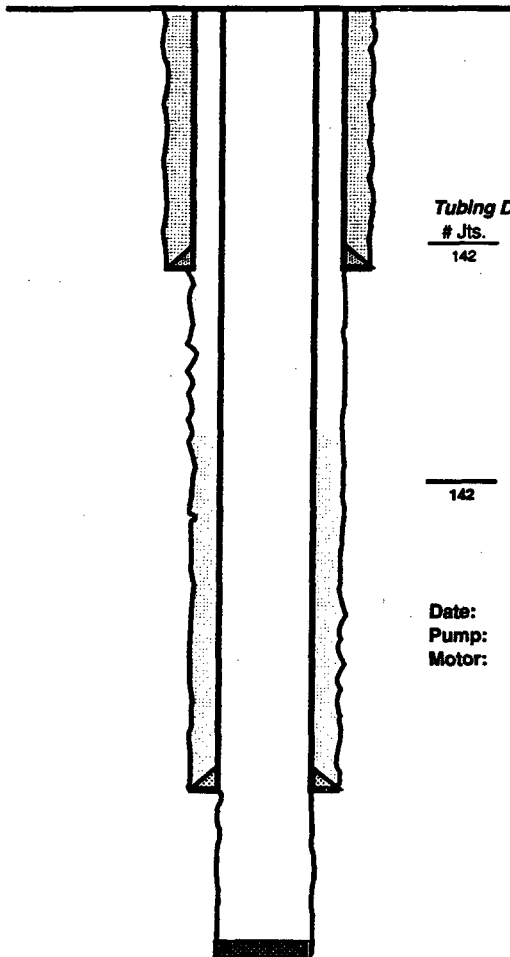
Surface Csg.
 Size: 7 5/8"
 Wt.: 26.4#, LW
 Set @: 1554'
 Sxs cmt: 300 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 8 5/8"

Production Csg.
 Size: 5 1/2"
 Wt.: 17#, SMLS
 Set @: 4091'
 Sxs Cmt: 200
 Circ: Yes
 TOC: 2500', calc. 38% fillup
 Hole Size: 5 7/8"

Perforations:
 Grayburg San Andres Open Hole

PBTD: 4663' (sandfill)
TD: 4710'

Open Hole
 Hole Size: 4 3/4"
 Depth: 4091'-4710'



TD: 4710'

KB:
 DF: 4013'
 GL: 4001'
 Original Spud Date: 10/7/1938
 Original Compl. Date: 11/16/1938

Tubing Detail		Date:	
# Jts.	Size		Footage
142	2 7/8" L80 case drill		446.67
	Drain Valve		1.50
	2 7/8" L80 Marker Sub		1.00
	Check Valve		0.50
	2 7/8" L80 Marker Sub		1.00
	X-over		1.65
	Pump		0.75
	Pump		10.50
	Gas Separator		1.97
142	Pump Intake		4494.94
	Seals		10.50
	Motor		12.00
	EOT		4517.85

Date: 10/22/02
Pump: 247 stage TD450
Motor: 50 hp 1020/39

Remarks:

**CURRENT
WELLBORE DIAGRAM**

Created: 1/9/2003 By: SMG/MCD
 Updated: _____
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 660' FNL & 660' FWL
 Bottomhole Location: None
 County: Lea St: NM
 Current Status: Active Oil Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 55
 Unit Ltr: D
 Unit Ltr: _____
 St Lease: B-1189
 Elevation: 3998' GR
 Sec: 1
 Sec: _____
 Field: Vacuum Grayburg San Andres
 TSHP/Range: 18S-34E
 TSHP/Range: _____
 API: 30-025-02250
 Cost Center: BCT492200

Surface Casing

Size: 8 5/8"
 Wt.: 28#, LW
 Set @: 1547'
 Sxs cmt: 300
 Circ: Yes
 TOC: Surface
 Hole Size: 12"

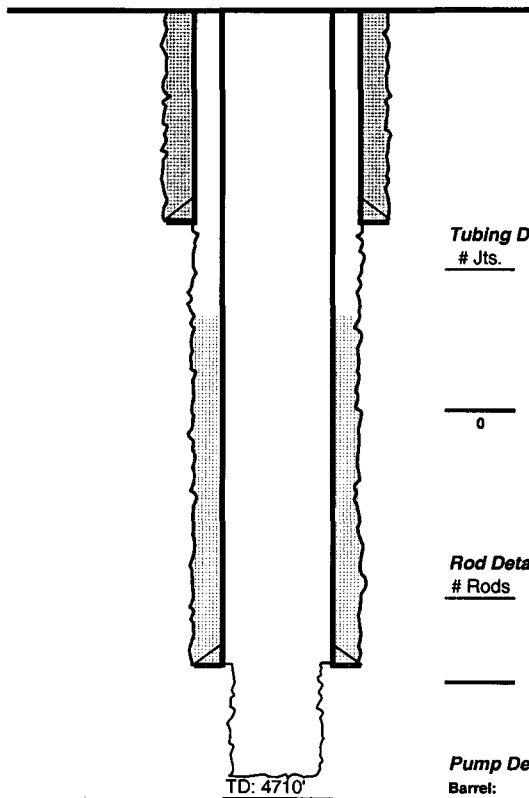
Production Casing

Size: 5 1/2"
 Wt.: 17#, smls
 Set @: 4082'
 Sxs Cmt: 250
 Circ: Yes
 TOC: 2900', calculated 60% full
 Hole Size: 7 7/8"

Open Hole

Hole Size: 6 1/4"
 Depth: 4082'-4710'

PBTD: 4710'
 TD: 4710'



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:

VGSAU 110

API # 30-025-36500

653' FSL & 20' FWL
 SEC 1, UL "M", TWN 18-S, Range 34-E, County Lea
 ELEVATION: 3999' GL, 4005' KB
 Completed: 1/10/2004

Surface Casing:

12 1/4" hole
 35 JTS 8 5/8" csg - 24#, J55, STC
 set @ 1548'. Cemented w/ 545 sx 35:65 POZ class
 "C" cmt, 2% Calcium Chloride 12.8 ppg; followed by
 111 Sx cl "C" cmt 2% Calcium Chloride, 14.8 ppg.
 62 Sx cement to surface. (12/18/03)

Production Casing:

7-7/8" hole
 5-1/2" csg - 15.5#, J55, LTC. Landing collar @ 4603'.
 Csg set @ 4652'.
 Lead: 550 sx 35/65 Cl "C", 12.8 ppg cmt
 Tail: 305 sx 50:50 Cl "C" 14.2 ppg cmt
 Did not Circulate to surface. **TOC @ 874'**. Full returns
 throughout the job. (12/25/03)

Horizontal Completion:

Kick Off point: 4289'
 Top of Window: 4279'
 Bottom of Window: 4286'
 Top of Bridge Plug: 4289'
 Total Depth: 6840' MD, 4661' TVD.
 Lateral Length & Direction: 2427' W, 4.14' N
 End Of Build Up: 4490' MD, 4412' TVD
 Target Interval: Open Hole 4374-4470' TVD

Perforation Intervals:

4610-4519' (59'): 4610'-4601', 4598'-4581', 4577'-4568',
 4561'-4549', 4535'-4526', 4522'-4519'. 118 holes, 2 jspf.
 Acid w/ 4550 gls 15% HCl and 175 7/8" ball sealers.
4499'-4406' (70'): 4499'-4484', 4476'-4456', 4446'-4442', 4437'-
 4406'. 140 holes, 2 jspf. Acid w/ 4853 gls 15% HCl and 2000 #
 rock salt.
 (1/10/2004)

Well History:

12/16-25/2003: Drilled 10 acre infill vertical producer.
 12/29/03-1/10/2004: **Initial Completion:** Tagged Landing Collar @ 4600'. Drilled to 4630' (PBTD). Baker Atlas perforated intervals 4610'-4601', 4598'-4581', 4577'-4568', 4561'-4549', 4535'-4526', 4522'-4519' for a total of 59' (118 holes) w/ 2 jspf at 120° phasing. Acidized perms w/ 4550 gls 15% HCL acid w/ 175 - 7/8" ball sealers. Flush w/ 31 bbls (Poor ball action). Pmax=3000 psi, Pmin=2500 psi, Pave=2600 psi, Qave= 5 bpm. ISIP = 2161 psi. Flow back load. Swab # 1: 280 bpd @ 5% Oil cut & 3200 FL. Chemical squeeze. Swab # 2: 435 bpd @ 5% OC & 3500 FL. Static @ 1500' (1340 psi Pr). Set CIBP @ 4510'. Perforate intervals 4499'-4484', 4476'-4456', 4446'-4442', 4437'-4406', for a total of 70' (140 holes) w/ 2 jspf @ 120° phasing. Acidized perms w/ 4553 gls 15% HCL acid w/ rock salt in 3 stages. Flush w/ 36 bbls. First block w/ 500#, 500psi increase from 2700 to 3200 psi. Second block w/ 750#, 1400psi increase from 2800 to 4200 psi. Third block w/ 750#, 1672 psi increase from 2800 to 4472 psi. Pmax=4472 psi, Pmin=2500 psi, Pave=2915 psi, Qave= 3.2 bpm. ISIP = 2788 psi. Flow back load. Swab # 1: 480 bpd @ 5% Oil cut & 3200 FL. Swab # 2: 480 bpd @ 5% OC & 3400 FL. Static @ 700' (1640 psi Pr). Chemical squeeze. Run sub pump (400-650 bpd). Set pump at 4502' (Shroud).
 1/20-1/22/04: **Open Lower Perfs:** C/O 10' fill. Drill out CIBP @ 4510'. Push to 4630'. Run Sub Pump. Set @ 4574'.
 03/25-04/02/2004: **Lateral Re-Entry:** Drill Lateral from 4279' to 6840' MD
 04/5-14/2004: **Lateral Completion:** C/O w/ 4 3/4" bit to 6840'. RIH w/ 12 spaced porter subs, PH6 tbg, 5 1/2" pkr and 2 7/8" tbg. Set pkr at 4054'. Acid open hole w/ 80,000 gls 15% HCl, 38000 gls gelled water in 5 stages. Pmax=5985#, Pmin=2378#, Pave=5000#, AIR=34 bpm, ISIP=1270#, S=11#, 15=Vac. Swabbed load back and recovered 90 bbls in 8 hrs w/ 3800' fid level. Pull Treating equipment. Run Sub Pump.

PRODUCTION EQUIPMENT:

12.12	1- Motor: 4.5" OD
5.64	1- Seal: 4" OD
2.52	Gas Separator: 4" OD
11.52	Pump #1: 4" OD
6.07	Pump #2: 4" OD
6.00	1- Sub 2 7/8"
0.52	1- Check Valve: 2 7/8"
6.00	1- Sub 2 7/8"
0.55	1- Drain Valve: 2 7/8"
4,193.55	133- Joints 2-7/8" Tbg - new
-	1- Sub: 2 7/8" x 10'
6.00	Kelly Bushing

4,230.21 Pump Intake

4,250.49 BOT

Zones

Top	Depth	Interval
GB Marker	4,301	
GB Dol Top	4,400	45
GB Dol Bott	4,445	17
San Andres	4,462	196
Lovington	4,658	47
O/W	4,705	

TOTAL 305

PBTD @ 4630', TD @ 4652'.

COMMENTS AND RECOMMENDATIONS:

VGSAU 126

API # 30-025-32026

1980' FSL & 1308' FWL
SEC 1, TWN 18-S, Range 34-E, County Lea
ELEVATION: 3995' 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

**CURRENT
WELLBORE DIAGRAM**

Created: 11/24/2003 By: SMG
 Updated: By:
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 2590' FNL & 1270' FWL
 Bottomhole Location: Same
 County: Lea St: NM
 Current Status: Active Water Injection Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 133
 Unit Ltr: E
 Unit Ltr:
 St Lease:
 Elevation: 3992' GL
 Field: Vacuum Grayburg San Andres
 Sec: 1 TSHP/Range: 18S-34E
 Sec: TSHP/Range:
 API: 30-025-35686 Cost Center: BCT492200

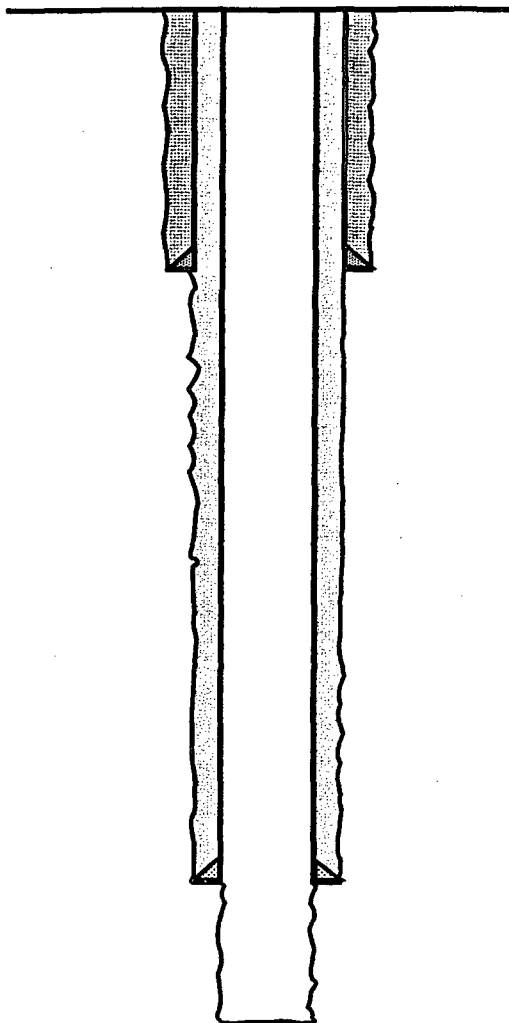
Surface Csg.
 Size: 8 5/8"
 Wt.: 24#
 Set @: 1561'
 Sxs cmt: 700 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 12 1/4"

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'

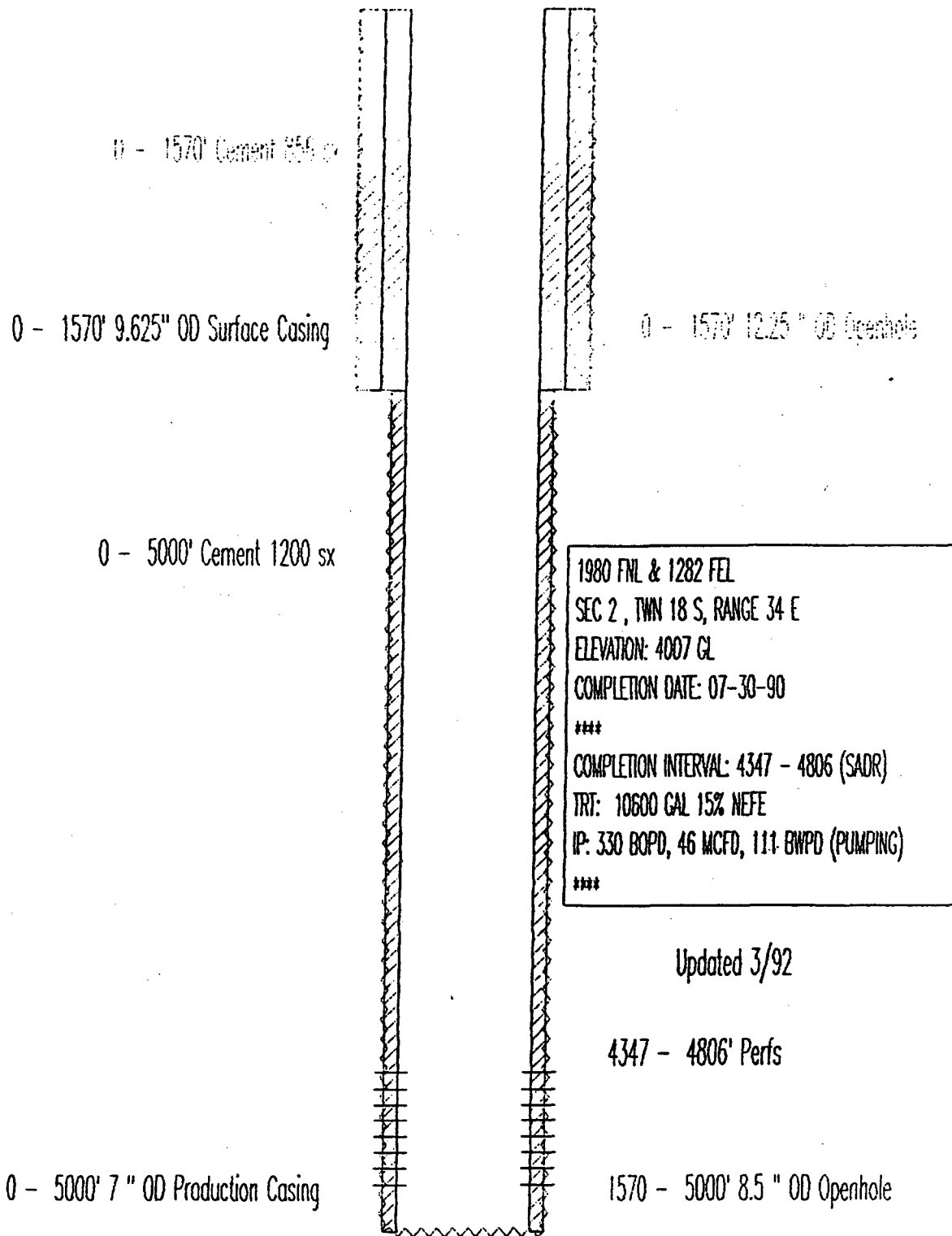


KB: N/A
 DF: N/A
 GL: 3992'
 Spud Date: 12/27/2001
 Compl. Date: 1/25/2002

TD: 4700'

Remarks:

TEXACO PROD
VACUUM (GRAYBURG-SA) NO. 139
API# 30025307550000



KB ELEV: 4020'

PBTD: 4900'

TD: 5000'

**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

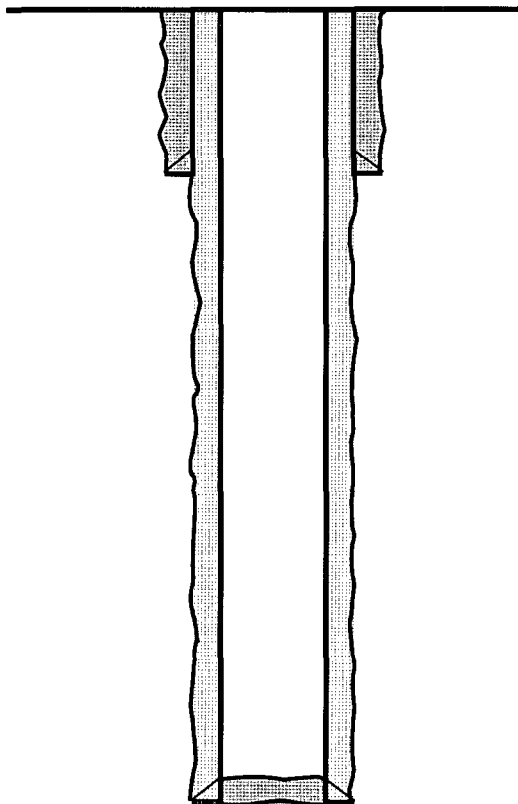
Well No.: 140 Field: Vacuum Grayburg San Andres
 Unit Ltr: H Sec: 2 TSHP/Range: 18S-34E
 Unit Ltr: _____ Sec: _____ TSHP/Range: _____
 St Lease: 857948 API: 30-025-30756 Cost Center: _____
 Elevation: 4000' GR. 4013' KB TEPI: BCT493000
 MVP: BCT494500

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

TD: 4900'

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 perms 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 perms 4258'-4398'.

Fracture treated perms 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 JTS 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.

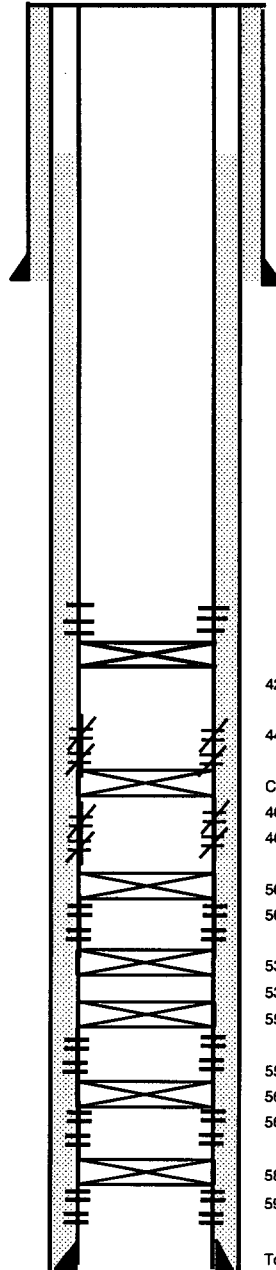
7" OD (8-3/4" hole)

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'

**CURRENT
WELLBORE DIAGRAM**

Created: _____
 Updated: _____
 Lease: _____
 Surface Location: _____
 Bottomhole Location: _____
 County: _____
 Current Status: _____
 Directions to Wellsite: _____

5/7/2003 By: SMG
 By: _____
 Vacuum Grayburg San Andres Unit
 1324' FNL & 1980' FEL
 Same
 Lea St: NM
 Active Water Injection Well
 Buckeye, New Mexico

Well No.: 146
 Unit Ltr: B
 Unit Ltr: B-1306-1
 Elevation: 4013' GR
 Field: Vacuum Grayburg San Andres
 Sec: 2 TSHP/Range: 18S-34E
 Sec: TSHP/Range: _____
 API: 30-025-30846
 Cost Center: _____
 TEPI: BCT493000
 MVP: BCT494500

Surface Csg.

Size: 8 5/8"
 Wt.: 24#
 Set @: 1570'
 Sxs cmt: 650
 Circ: Yes; 58 sxs
 TOC: Surface
 Hole Size: 11"

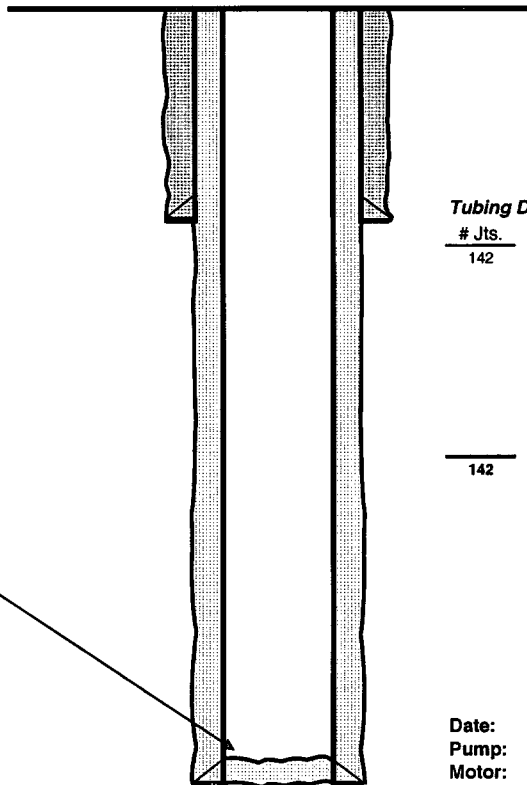
Production Csg.

Size: 5 1/2"
 Wt.: 15.5#
 Set @: 4900'
 Sxs Cmt: 1240
 Circ: Yes; 332 sxs
 TOC: _____
 Hole Size: 7 7/8"

PBTD: 4804'
 TD: 4900'

Perforations:

San Andres 4363'-4772'; 2 JSPF, 384 holes



KB: 4026'
 DF: _____
 GL: 4013'
 Original Spud Date: 8/12/1993
 Original Compl. Date: 9/1/1993

Tubing Detail

Date: _____

# Jts.	Size	Footage
142	2 7/8" L80 bare cl. 'B'	4461.65
	Drqin Valve	0.52
	2 7/8" L80 Marker Sub	4
	Check Valve	0.58
	2 7/8" L80 Marker Sub	4
	X-over	0.85
	Pump	9.78
	Pump	10.59
	Gas Separator	2.97
142	Pump Intake	4494.94
	Seals	10.86
	Motor	12.05
	EOT	4517.85

Date: 10/22/02
 Pump: 247 stage TD450
 Motor: 60 hp 1020/39

TD: 4900'

Remarks:

**CURRENT
WELLBORE DIAGRAM**

Created: 11/5/2003
 Updated: _____
 Lease: _____
 Surface Location: _____
 Bottomhole Location: _____
 County: _____
 Current Status: _____
 Directions to Wellsite: _____

By: SMG
 By: _____
 Vacuum Grayburg San Andres Unit
 1360' FNL & 660' FEL
 Lea St: NM
 Active Water Injection Well
 Buckeye, New Mexico

Well No.: 147
 Unit Ltr: H
 Unit Ltr: _____
 St Lease: B-867-1
 Elevation: 4004' GR

Field: Vacuum Grayburg San Andres
 Sec: 2 TSHP/Range: 18S-34E
 Sec: _____ TSHP/Range: _____
 API: 30-025-30798 Cost Center: BCT492200

Surface Csg.

Size: 8 5/8"
 Wt.: 24#
 Set @: 1530'
 Sxs cmt: 650 sxs
 Circ: Yes, 180 sxs
 TOC: Surface
 Hole Size: 11'

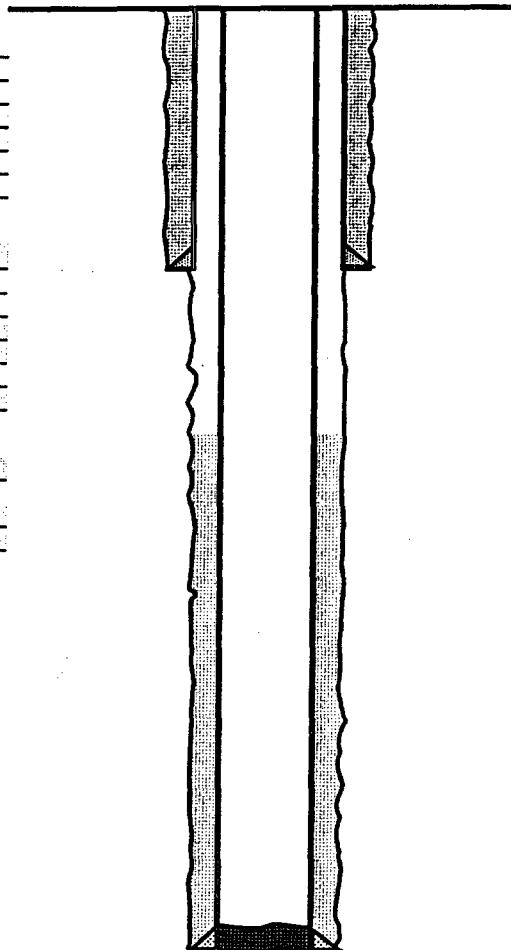
Production Csg.

Size: 5 1/2"
 Wt.: 15.5#
 Set @: 4900'
 Sxs Cmt: 1400 sxs
 Circ: Yes, 124 sxs
 TOC: _____
 Hole Size: 7 7/8"

Perforations:

Grayburg/San Andres 4308'-4720'; 2 JSPF, 388 Holes

PBTD: 4779'
 TD: 4900'



KB: 4018'
 DF: 4017'
 GL: 4004'

Original Spud Date: 8/21/1993
 Original Compl. Date: 9/19/1993

TD: 4900'

Remarks:

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 neat cement

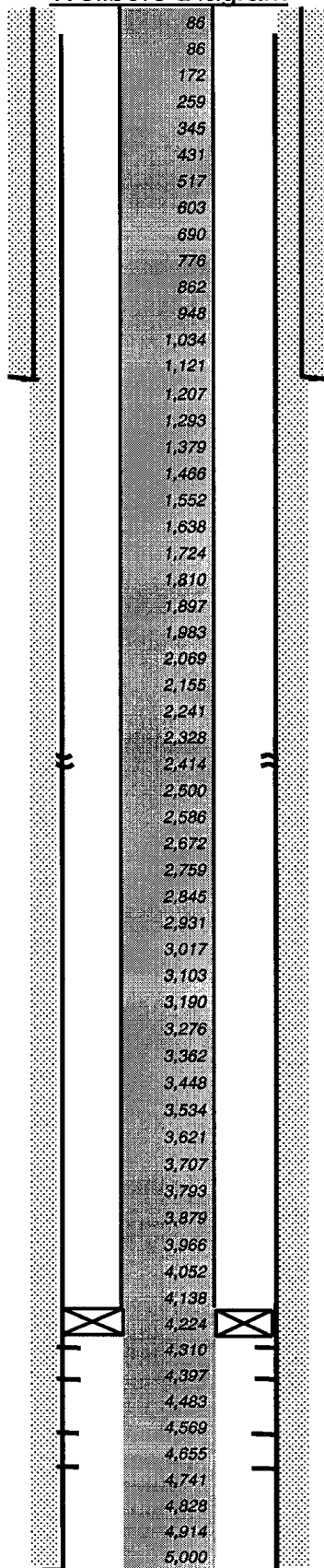
Tbg Detail:

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:

PBD: 4,770'

TD: 5,000'

Updated: 25-Sep-02

By: GEORGE GARCIA

**CURRENT
WELLBORE DIAGRAM**

Created: 1/28/2003 **By:** SMG/MCD
Updated: 2/20/2003 **By:** BJH
Lease: Vacuum Grayburg San Andres Unit
Surface Location: 660' FNL & 1331' FEL
Bottomhole Location: None
County: Lea **St:** NM
Current Status: Active Oil Well
Directions to Wellsite: Buckeye, New Mexico

Well No.: 154
Unit Ltr: B
Unit Ltr: 857948
St Lease: 4000' GR
Field: Vacuum Grayburg San Andres
2 TSHP/Range: 18S-34E
Sec:
Sec:
API: 30-025-30801 **Cost Center:** BCT492200

Surface Casing

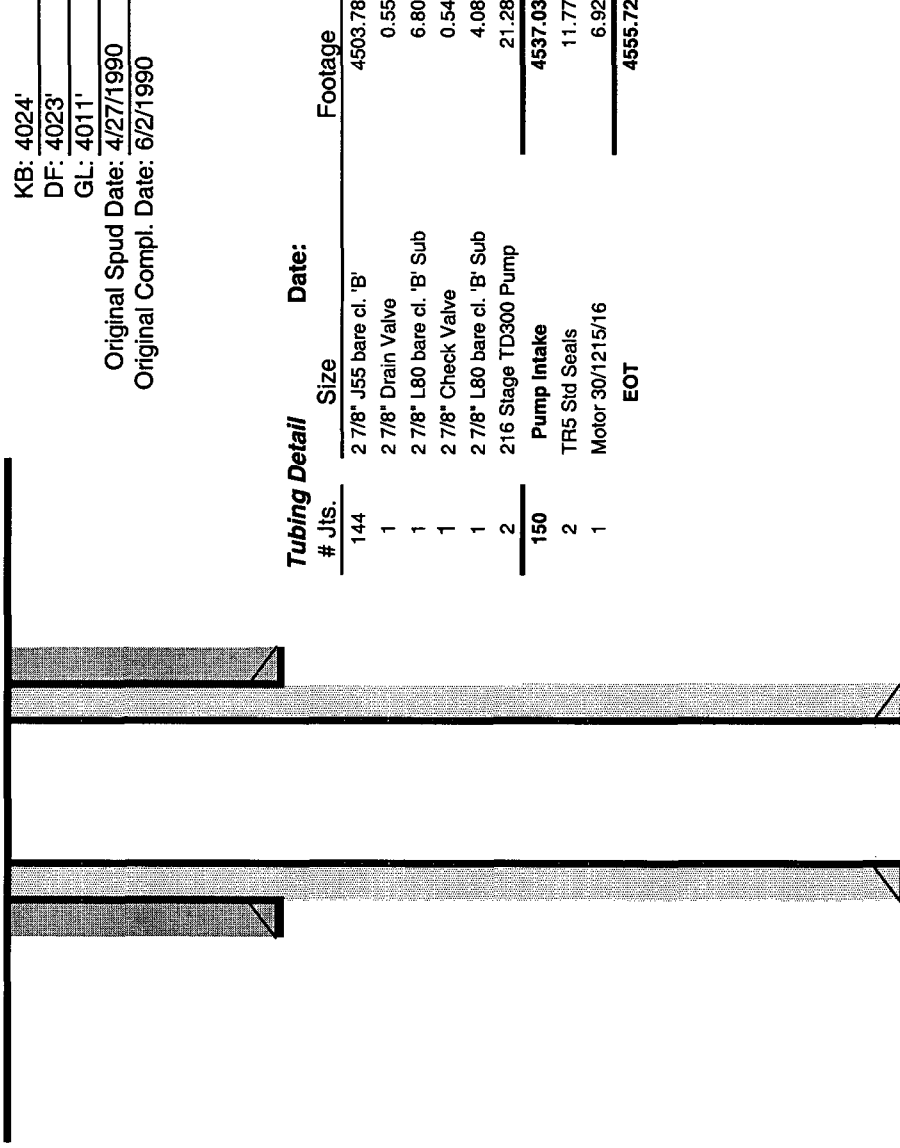
Size: 9 5/8"
 Wt.: 36#, J-55
 Set @: 1550'
 Sxs cmt: 1050 Class H
 Circ: Yes, w/ 175 sxs
 TOC: Surface
 Hole Size: 12 1/4"

Production Casing

Size: 7"
 Wt.: 26#, J-55
 Set @: 5000'
 Sxs Cmt: 1050 Class H
 Circ: Yes, w/ 200 sxs
 TOC: Surface
 Hole Size: 8 3/4"

Perforations:

Grayburg
 4326-4506', 2 JSPF, 50 holes
 4536'-4568', 2 JSPF, 24 holes
 4618'-4807', 2 JSPF, 42 holes



TD: 5000'

Tubing Detail			Date:	Footage
# Jts.	Size			
144	2 7/8" J55 bare cl. 'B'			4503.78
1	2 7/8" Drain Valve			0.55
1	2 7/8" L80 bare cl. 'B' Sub			6.80
1	2 7/8" Check Valve			0.54
1	2 7/8" L80 bare cl. 'B' Sub			4.08
2	216 Stage TD300 Pump			21.28
150	Pump Intake			4537.03
2	TR5 Std Seals			11.77
1	Motor 30/1215/16			6.92
	EOT			4555.72

KB: 4024'
 DF: 4023'
 GL: 4011'
 Original Spud Date: 4/27/1990
 Original Compl. Date: 6/2/1990

Remarks:
 See Dated WFRS for past failures

**CURRENT
WELLBORE DIAGRAM**

Created: 5/7/2004 By: SMG
Updated: _____ By: _____
Lease: Vacuum Grayburg San Andres Unit
Surface Location: 660' FNL & 10' FEL
Bottomhole Location: _____
County: Lea St: NM
Current Status: Active Oil Well
Directions to Wellsite: Buckeye, New Mexico

Well No.: 155 Field: Vacuum Grayburg San Andres
Unit Ltr: A Sec: 2 TSHP/Range: 18S-34E
Unit Ltr: _____ Sec: _____ TSHP/Range: _____
St Lease: 857948 API: 30-025-30800 Cost Center: _____
Elevation: 4019' GR TEPI: BCT493000
MVP: BCT494500

Surface Csg.

Size: 9 5/8"
Wt.: 36#, J-55
Set @: 1550'
Sxs cmt: 1000
Circ: Yes, 201 sx
TOC: Surface?
Hole Size: 12 1/4"

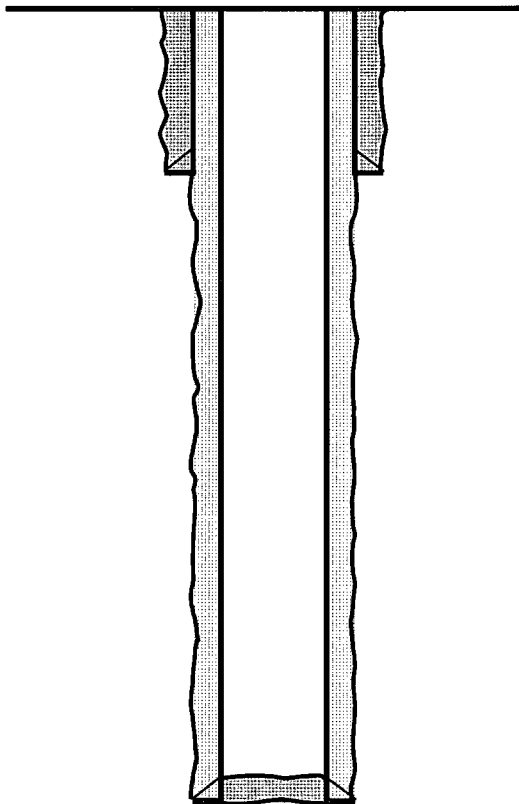
Production Casing

Size: 7"
Wt.: 26#, J-55
Set @: 5000'
Sxs Cmt: 1125
Circ: Yes, 175 sx
TOC: Surface?
Hole Size: 8 3/4"

TD: 5000'
PBDT: 4650'

Perforations:

2 JSPF, 32 Holes 4268'-4318'
2 JSPF, 56 Holes 4364'-4403'
2 JSPF, 40 Holes 4470'-4495'
2 JSPF, 110 Holes 4518'-4630'



KB: 4032'
DF: _____
GL: 4019'
Original Spud Date: 5/6/1990
Original Compl. Date: 6/24/1990

TD: 5000'

Remarks:

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 ∇ 2300 to 4936 psi. Second block of 750# rock salt had an increase of 500 psi ∇ 2200 to 2700 psi. (10/15/2003)

FC @ 4559'

Last Workover:

13-20 Aug-2003: Drilled 10 Acr 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 ∇ 2300 to 4936 psi. Second block of 750# rock salt had an increase of 500 psi ∇ 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:

**CURRENT
WELLBORE DIAGRAM**

Created: 11/17/2003
 Updated: _____
 Lease: Vacuum Glorieta West Unit
 Surface Location: 330' FNL & 330' FEL
 Bottomhole Location: _____
 County: Lea
 Current Status: Plugged and Abandoned
 Directions to Wellsite: Buckeye, New Mexico

By: SMG
 By: _____

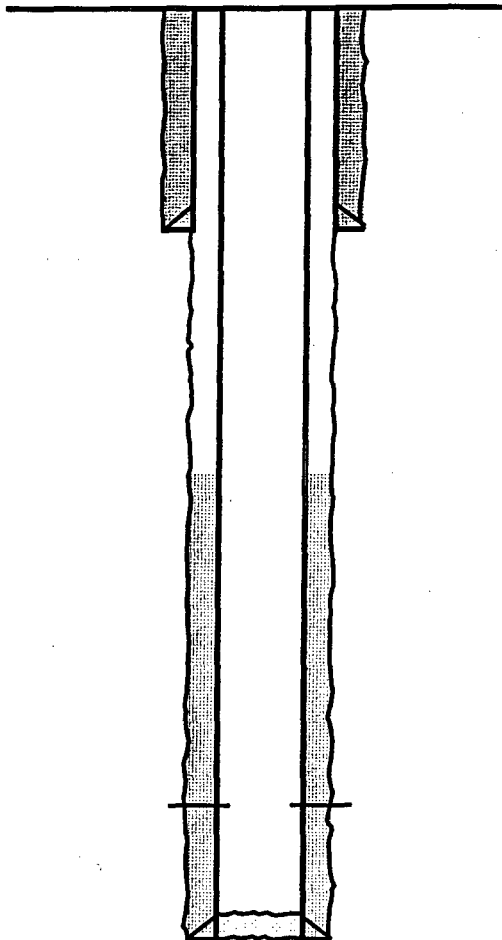
Well No.: 111
 Unit Ltr: A
 Unit Ltr: _____
 St Lease: B-867-1
 Elevation: 4016' DF
 Field: Vacuum Grayburg San Andres
 Sec: 2
 TSHP/Range: 18S-34E
 Sec: _____
 TSHP/Range: _____
 API: 30-025-2111
 Cost Center: UCT492400

Surface Csg.
 Size: 11 3/4"
 Wt.: 42#, H-40
 Set @: 1550'
 Sxs cmt: 1000
 Circ: Yes
 TOC: Surface
 Hole Size: 15"

Production Csg.
 Size: 2 7/8"
 Wt.: 6.5#, J-55
 Set @: 6850'
 Sxs Cmt: 1400
 Circ: _____
 TOC: 2640'
 Hole Size: 7.7/8"

PBTD: 6817'
TD: 6850'

Perforations:
 Paddock: 6011'-6033'



KB: 4017'
 DF: 4016'
 GL: _____
 Original Spud Date: 9/11/1964
 Original Compl. Date: 10/9/1964

TD: 6850'

Remarks:

VG-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: 11-16-53~~

 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'

**CURRENT
WELLBORE DIAGRAM**

Created: 5/13/2004
 Updated: _____
 Lease: New Mexico AC State NCT-1
 Surface Location: 330' FSL & 1980' FEL
 Bottomhole Location: Same
 County: Lea
 Current Status: Plugged Oil Well
 Directions to Wellsite: Buckeye, New Mexico

By: SMG
 By: _____
 St: NM

Well No.: 8
 Unit Ltr: O
 Unit Ltr: _____
 St Lease: B-1189-1
 Elevation: 4013' DF

Sec: 2
 Sec: _____
 API: 30-025-20555

Field: Vacuum Abo Reef
 TSHP/Range: 18S-34E
 TSHP/Range: _____
 Cost Center: ?

Surface Csg.
 Size: 11 3/4"
 Wt.: 23.72#, H-40
 Set @: 370'
 Sxs cmt: 300
 Circ: Yes
 TOC: ?
 Hole Size: 15"

Intermediate Csg.
 Size: 8 5/8"
 Wt.: 24#, J-55
 Set @: 3250'
 Sxs Cmt: 1750
 Circ: Yes
 TOC: ?
 Hole Size: 10 5/8"

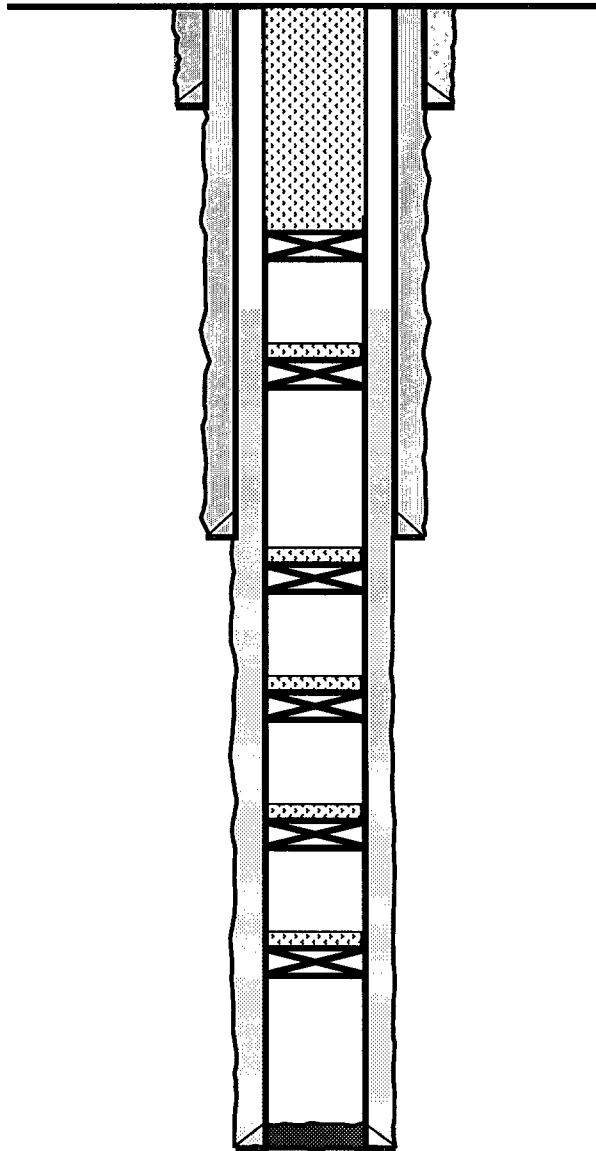
Production Csg.
 Size: 2 7/8"
 Wt.: 6.5#, J-55
 Set @: 9025'
 Sxs Cmt: 2000
 Circ: ?
 TOC: 2500'
 Hole Size: 7 5/8"

PBTD: 8994'
 TD: 9025'

CIBP: 1680'
 CIBP: 2915'
 CIBP: 3300'
 CIBP: 5850'

Each CIBP capped w/35' of class "H" cmt

PERFS: 8625'-8909'



KB: _____
 DF: 4013'
 GL: _____
 Original Spud Date: 1/7/1964
 Original Compl. Date: 2/19/1964

TD: 9025'

Plugged and Abandoned

Remarks: _____

API # 30-025-30754

Completed: 2/20/1996

"hole

35 JTS 9 5/8" csg - 36#, 155
set @ 1550'. Cemented w/ _____ sx 35-65 POZ class
"C" cmt. 2% Calcium Chloride 12.8 ppg, followed by
_____ Sx cl "C" cmt 2% Calcium Chloride, 14.8 ppg.
_____ Sx cement to surface. (_____)

Inc 78 SX

8-3/4" hole

7" csg - 26#, J55.

Csg set @ 5000'

Lead: 780 sx 35/65 Cl "C", 12.8 ppg cmt

Tail: ASC sx 50:50 Cl "C" 14.2 ppg cmt

Did not Circulate to surface, TOC @ ____' (____)

Circ 40 SX

[illegible]

- Pump Intake
- EOT

4289-4480' (191' interval): 4289-295, 4301-13, 4346-55, 4394-98, 4401-09, 4411-18, 4426-40, 4450-63, 4465-74, 4477-80. Perfs 2 JSPF. 190 holes, 380 ft. Acid w/ 6200 gls 15% HCl. (8/16/1995)

4491'-4738' (247'): Perfs: 4491-4502, 06-30, 34-58, 70-81, 86-4622, 25-40, 55-83, 4700-11, 22-38, 176 ft, 352 holes, 2 jsp. Acid w/ 8000 gls 15% HCl

(Initial Completion)

Sqz 4758'-4914': 4758-69, 74-78, 82-88, 4809-21, 33-37, 4908-14 (1250 W, 2 Oil). (Initial Completion)

2/29/90; Initial Completion: New well. Cased TD 5000', PBTD 4754'. Perfs 2ISPF @ 4491-4738 (352 holes). Acidized perfs with 13020 gals 28% and 8000 gals 20% NEFB. 71 Oil 2 Water 53 MCF 746 GOR. Sqz 4758-69, 74-78, 82-88, 4809-21, 33-37, 4908-14 (1250 W. 2 Oil)

6/10/93: Isolate Lower San Andres: Perfed 8 spf 4547'-4557'. Acid perforations w/ 4000 gls 15% HCl Pave=0, AIR=4.5 bpm. Minifrac & Frac: 4491'-4640' w/ 160,000 # Ottawa, 40,000 # RCS. C/O to 4758'. Re-open Lower San Andres.

6/24/94; Acid Job: C/O to 4848. Pump 10,000 gls 15% NEFE HCL. SIS.

$P_{max}=600$ psi. $AIR=4.8$ bpm.

7/27/94: Pump Failure: Pump was sand cut.

8/16/95: C/O. Perforate, Acid: C/O to 4754'. Perforate w/ 2 spf @ 4289' to 4480' (190 holes). Acid new perms only w/ 6200 gls 15% HCl. Pmax=4500 psi, AIR=4 bpm. SIS.

8/29/97: Clean Out / Acid Job: Tag @ 4717'. C/O to 4730'. Acid w/ 10,000 gals 20% HCL 6000 # RS. Pmax=Vac., AIR= 6.3 bpm.

12/23/09: Clean Out / Acid: Tag @ 4725'. C/O to 4730'. Acid perfs w/ 5000 gals 15% HCl Pump @ 3.5 bpm.

Top	Depth	Interval
GB Marker	4,300	
GB Dol Top	4,410	40
GB Dol Bott	4,450	42
San Andres	4,492	158
LSA	4,650	55
O/W	4,705	

TOTAL	295
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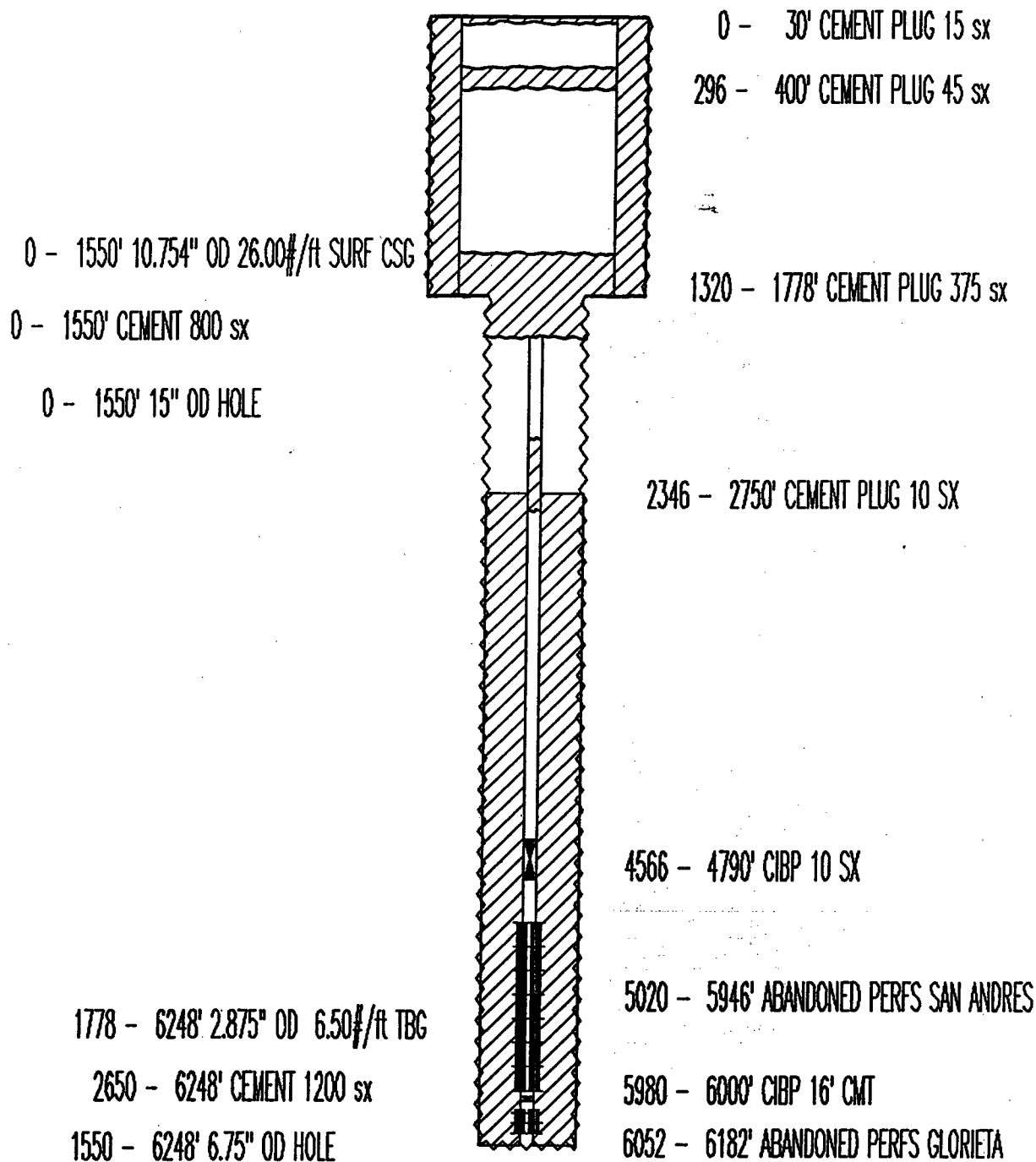
PBTD @ 4754' initial completion,
TD @ 5000'.

COMMENTS AND RECOMMENDATIONS:

- After the new perforations were opened, the breakdown pressure was 4500 psi. Two years later the well was already on a vacuum.

P&A: 3-17-95

TEXACO E&P INC.
NM "R" State NCT-2 No. 5
API# 30 025 21424

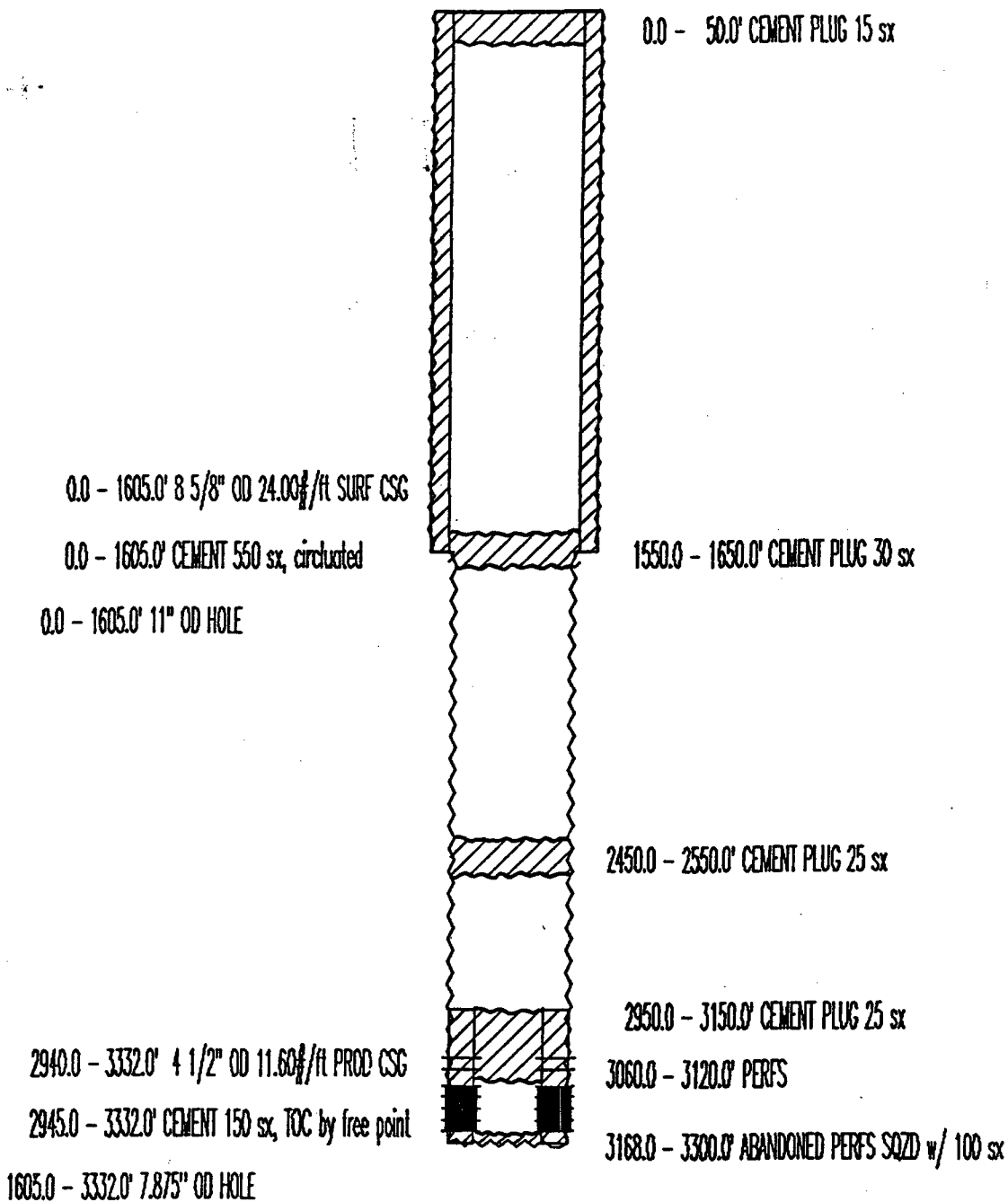


330 FNL & 1650 FEL
SEC 30, TWN 18 S, RANGE 35 E
ELEVATION: 3985 ES
COMPLETION DATE: 03-01-77

COMPLETION INTERVAL: 5020 - 5946 (SA)

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, T4N 18 S, RANGE 34 E
ELEVATION: 4007 GL
COMPLETION DATE: 06-26-59
COMPLETION INTERVAL: 3060 - 3120 (7Rivers)