

VI

Tabulation

of

Well Data

VI- TABULATION OF WELL DATA

The majority of the wells in the review area was covered by the C-108 application for the Vacuum Grayburg San Andres Unit CO2 Tertiary Certification hearing which occurred on February 8, 2001. All requested data was submitted in this application, with the exception of the well abandonments, new wells and wells outside this area of CO2 expansion.

VGSAU 233 WIW 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 54	Producer	30-025-02263	Nov-38	675-N	660-E	2	A	18-S	34-E	Lea	4,726	Yes
VGSAU 46	Injector	30-025-24364	Feb-73	1405-N	1230-E	2	H	18-S	34-E	Lea	4,788	Yes
VGSAU 147	Injector	30-025-30798	Aug-93	1360-N	660-E	2	H	18-S	34-E	Lea	4,779	Yes
VGSAU 249	Injector	30-025-35563	Jul-01	1390-N	2530-W	1	F	18-S	34-E	Lea	4,762	Yes
VGSAU 139	Producer	30-025-30755	Mar-90	1980-N	1282-E	2	H	18-S	34-E	Lea	4,732	Yes
VGSAU 39	Producer	30-025-02264	Jul-40	1980-N	660-E	2	H	18-S	34-E	Lea	4,710	Yes
VGSAU 31	Injector	30-025-24314	Dec-72	2630-S	1330-E	2	J	18-S	34-E	Lea	4,800	Yes
VGSAU 233	Injector	30-025-36355	Oct-03	2630-S	660-W	1	L	18-S	34-E	Lea	4,556	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-01	2535-N	4930-E	1		18-S	34-E	Lea	4,723	Yes
VGSAU 24	Producer	30-025-02271	Oct-40	1980-S	660-W	2	I	18-S	34-E	Lea	4,680	Yes
VGSAU 128	Producer	30-025-32028	Sep-93	1980-S	1220-E	1	I	18-S	34-E	Lea	4846'	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	30-025-24316-1	Jan-73	1400-S	10-E	2	I	18-S	34-E	Lea	4,787	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 4	Injector	30-025-24332	Feb-73	220-S	100-W	1	M	18-S	34-E	Lea	4,788	Yes
VGSAU 5	Injector	30-025-24333	Jan-73	210-S	1420-W	1	N	18-S	34-E	Lea	4,788	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 49	Injector	30-025-24329	Feb-73	1390-N	2580-W	30	M	18-S	34-E	Lea	4,800	Yes
VGSAU 33	Injector	30-025-24323	Feb-73	2630-N	1310-W	1	E	18-S	34-E	Lea	4,790	Yes
VGSAU 127	Producer	30-025-32037	Sep-02	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

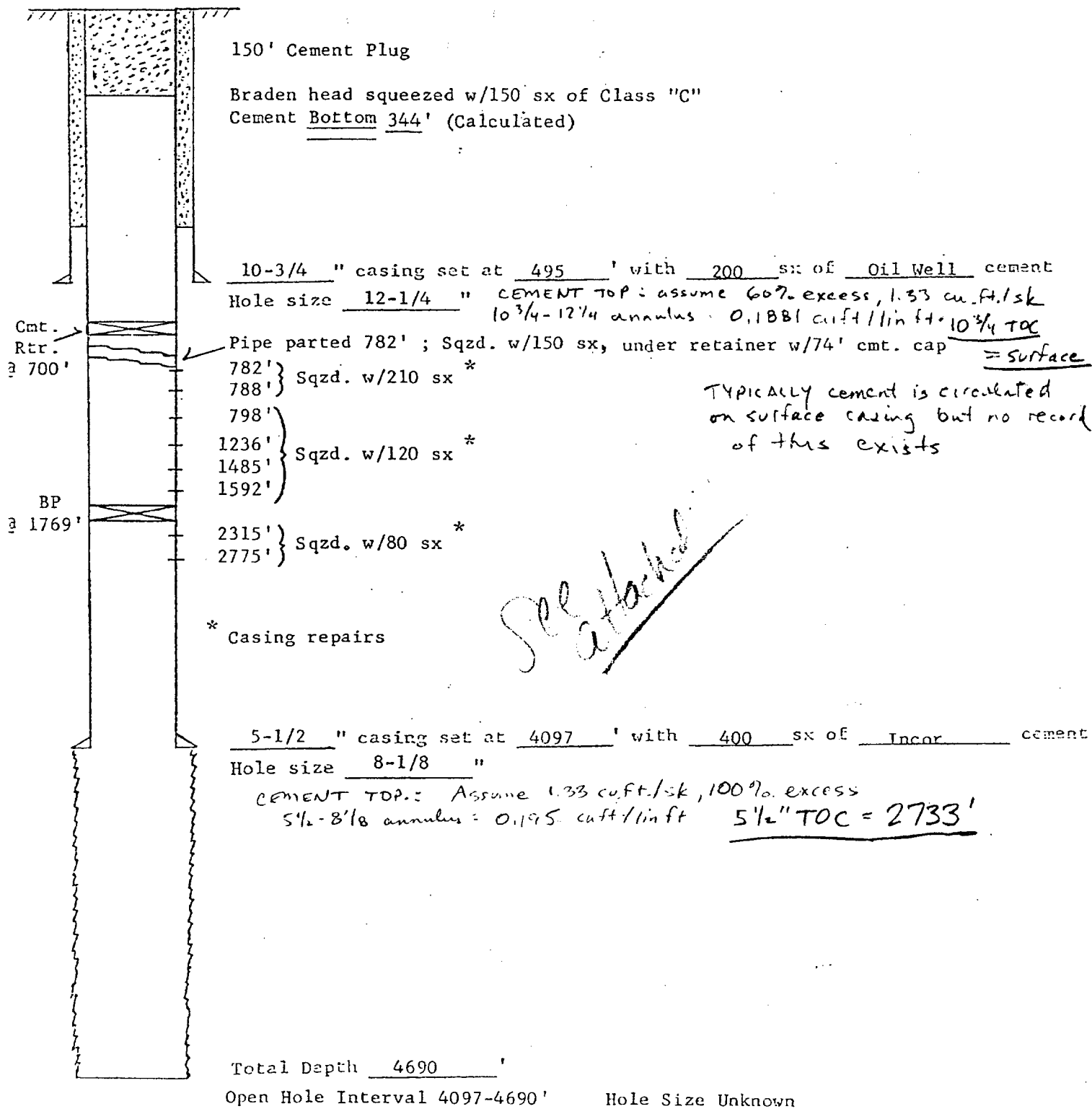
Well Name	Type Of Well	API	Date Drilled	Location							Depth	Record of Completion
				N-S	W-E	Sec	UL	Twn	Range	County		
VGWU 111	Producer	30-025-2111	Oct-64	330-N	34-E	2	A	18-S	34-E	Lea	6,817	Yes

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		
New Mexico R St NCT 3 14		30-025-xxxxx	May-59	990-S	660-W	1	M	18-S	34-E	Lea	3,332	Yes

VACUUM (G-SA)	MARATHON OIL COMPANY	6/25/76
LEASE WARN STATE a/c 2	WELL NO. 6	LOCATION Sec. 6-T18S-R35E

STATUS : PLUGGED & ABANDONED



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

Reservoir:

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

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:

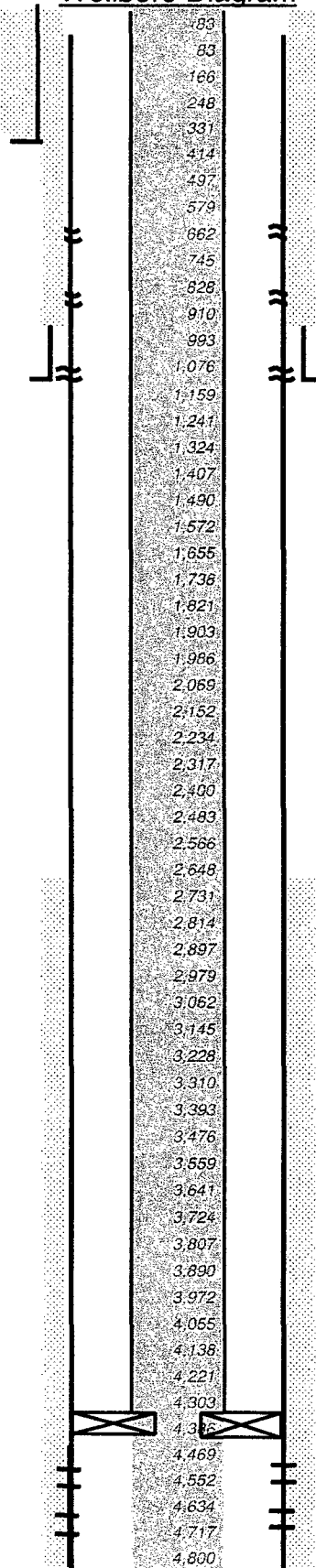
KB	12.5
134 JTS 2 3/8" PLASTIC COATED TBG	
	4324.17
4 1/2" 10.5 PLASTIC COATED PKR	
	2.5
TOTAL	4339.17

PACKER SET @ 4339

PERFS 4386' TO 4740'

PBDT 4787

Current
Wellbore Diagram



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

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:

PBDT: 4,787'

TD: 4,800'

Updated: 26-Sep-02

By: GEORGE GARCIA

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 pkr. 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).

TEXACO INC #33
 VACUUM GRBG-SADR UN NO. W133
 API# 30025243230000

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'

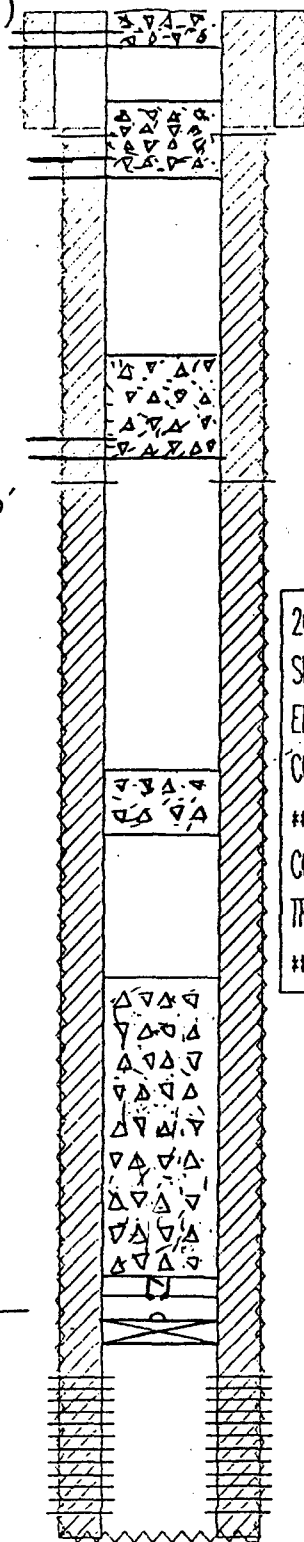
0 - 4800' Cement 650 sx

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, TWIN 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'

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 (cl.c) cement
squeezed into perfs @ 1300'

SQUEEZE PERFS @ 1300'

35 sk (cl.c) cement
plug 2100-2465

SQUEEZE PERFS
@ 2400'
HOLD 2500 PSI
NMOC notified

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

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 cl.c. squeezed through
around to surface up bradenhead.
cement to surface inside casing

1390 FNL & 2580 FNL
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
Perfed casing @ 4200'
4284 - 4360' Perfs 1 SPF, 2/86
4373 - 4731' Perfs
358 - 4300' 7.875" OD Openhole

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

**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:		St: NM	Elevation:	4001' GR	TSHR/Range:	18S-34E
County:	Lea				TSHR/Range:	
Current Status:	Active Oil Well				Cost Center:	BCT492200
Directions to Wellsite:	Buckeye, New Mexico					

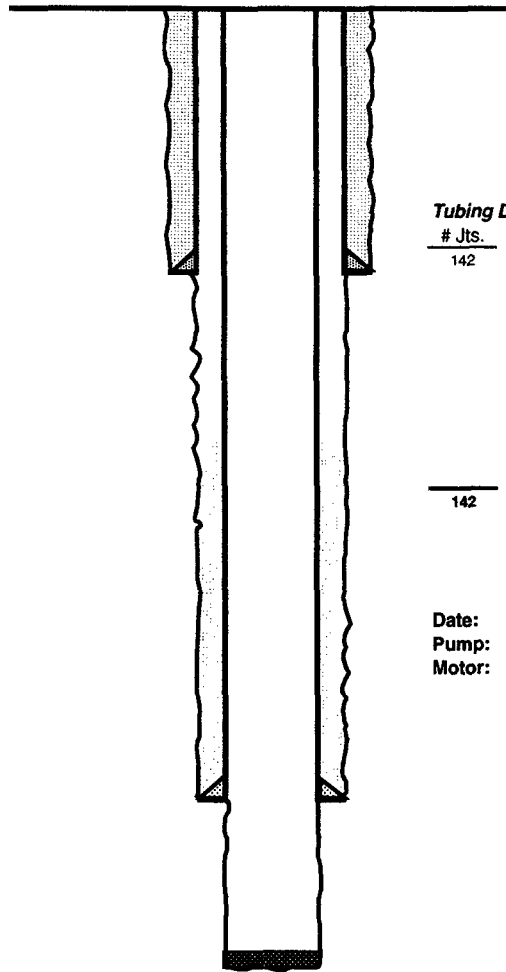
Surface Csg.
 Size: 7 5/8"
 Wt.: 26.4#, LW
 Set @: 1554'
 Sxs cmt: 300 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 8 5/8"

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'



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 bare c. B		4494.94
	Drop Valve		1.50
	2 7/8" L80 Anchor Sub		1.00
	Check Valve		1.50
	2 7/8" L80 Anchor Sub		1.00
	Tool		1.00
	Pump		1.00
	Pump		10.00
	Gas Solvent		2.00
142	Pump Intake		4494.94
	Seals		1.00
	Motor		1.00
	EOT		4517.85

Date: 10/22/02
Pump: 347 stage TD450
Motor: 50 hp 1020/58

TD: 4710'

Remarks:

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

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:

9/29/93: Initial Completion: Perf 4240-4788 (2 jsp, 364 holes). Acid w/ 16,100 gal 15% HCl. Frac perfs 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 & tbg.
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 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 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

PBTD @ 4846' Initial Completion

COMMENTS AND RECOMMENDATIONS:

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	

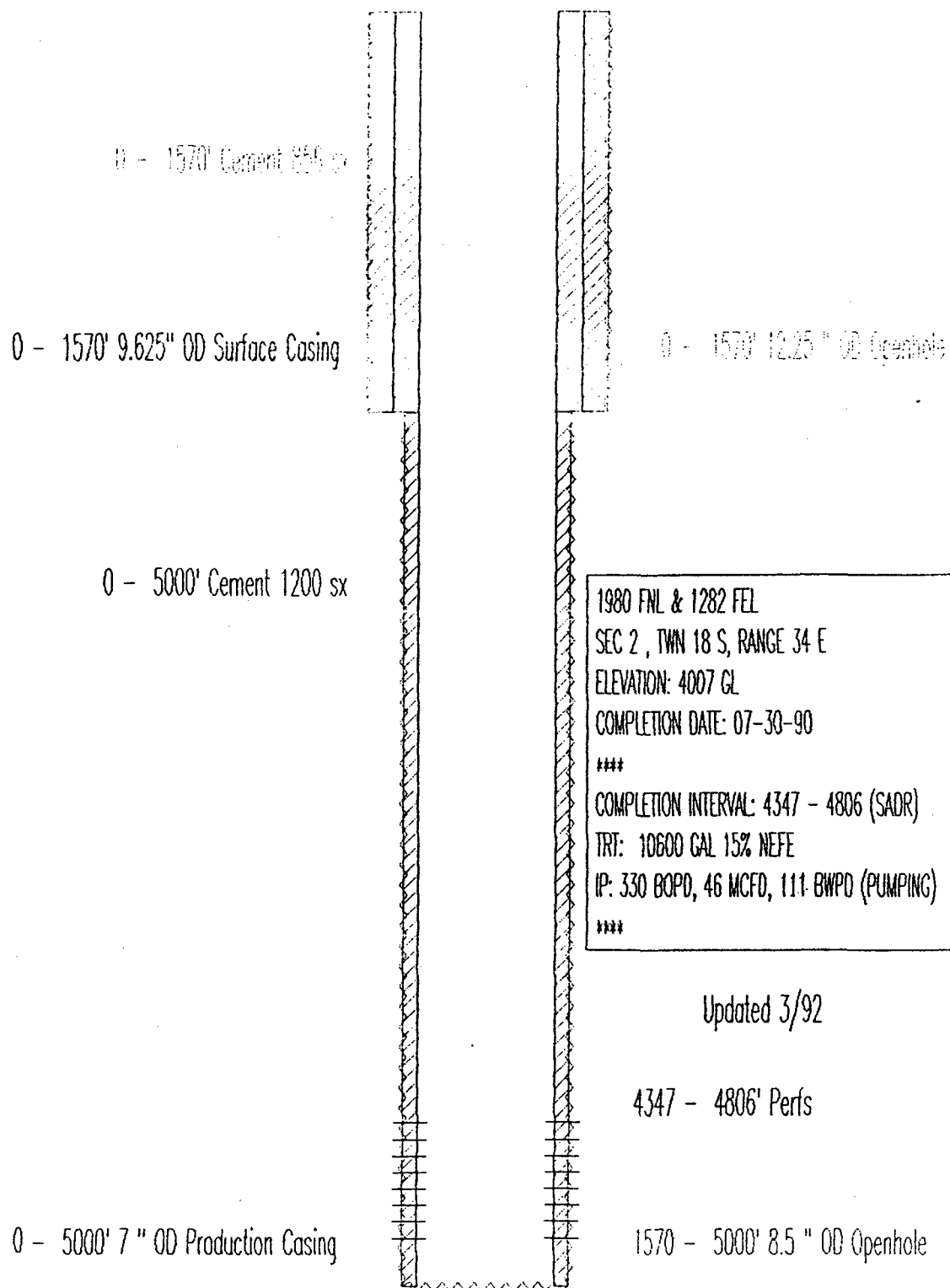
TOTAL

526

PBTD @ 4723'

COMMENTS AND RECOMMENDATIONS:

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



1980 FNL & 1282 FEL
SEC 2, TWN 18 S, RANGE 34 E
ELEVATION: 4007 GL
COMPLETION DATE: 07-30-90

COMPLETION INTERVAL: 4347 - 4806 (SADR)
TRT: 10600 GAL 15% NEFE
IP: 330 BOPD, 46 MCFD, 111 BOPD (PUMPING)

Updated 3/92

KB ELEV: 4020'
PBTD: 4900'
TD: 5000'

**CURRENT
WELLBORE DIAGRAM**

Created: 4/9/2003 By: MCD
 Updated: _____ By: _____
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 1390' FNL & 2530' FWL
 Bottomhole Location: None
 County: Lea St: NM
 Current Status: Injection Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 249
 Unit Ltr: F
 Unit Ltr: _____
 St Lease: _____
 Elevation: 3991' GL

Field: Vacuum Grayburg San Andres
 Sec: 1 TSHP/Range: 18S-34E
 Sec: _____ TSHP/Range: _____
 API: 30-025-35563 Cost Center: BCT492200

Surface Casing

Size: 8 5/8"
 Wt.: 24#, K-55
 Set @: 1482'
 Sxs cmt: 700 Class H
 Circ: Yes
 TOC: Surface
 Hole Size: 12 1/4"

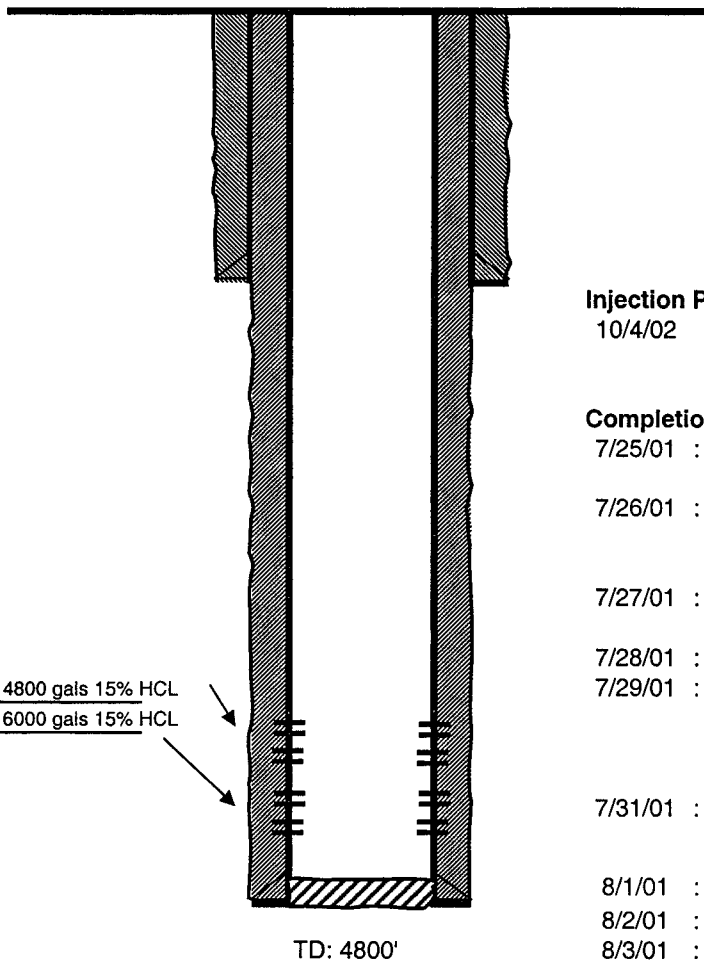
Production Casing

Size: 5 1/2"
 Wt.: 15.5#, K-55
 Set @: 4800'
 Sxs Cmt: 950 Class H
 Circ: Yes, w/ 124 sxs
 TOC: Surface
 Hole Size: 7 7/8"

PBTD: 4762'
 TD: 4800'

Perforations:

Grayburg
4292'-4474', 2 JSPF, 120 Deg, 0.47" holes, 4800 gals 15% HCL
4492'-4714', 2 JSPF, 120 Deg, 0.47" holes, 6000 gals 15% HCL



KB: 4004'
 DF: _____
 GL: 3991'
 Original Spud Date: 7/3/2001
 Original Compl. Date: 7/31/2001

Injection Pressure: 1550 psig

10/4/02 Changed packer and tubing
 Test packer & casing for 30 mins, OK

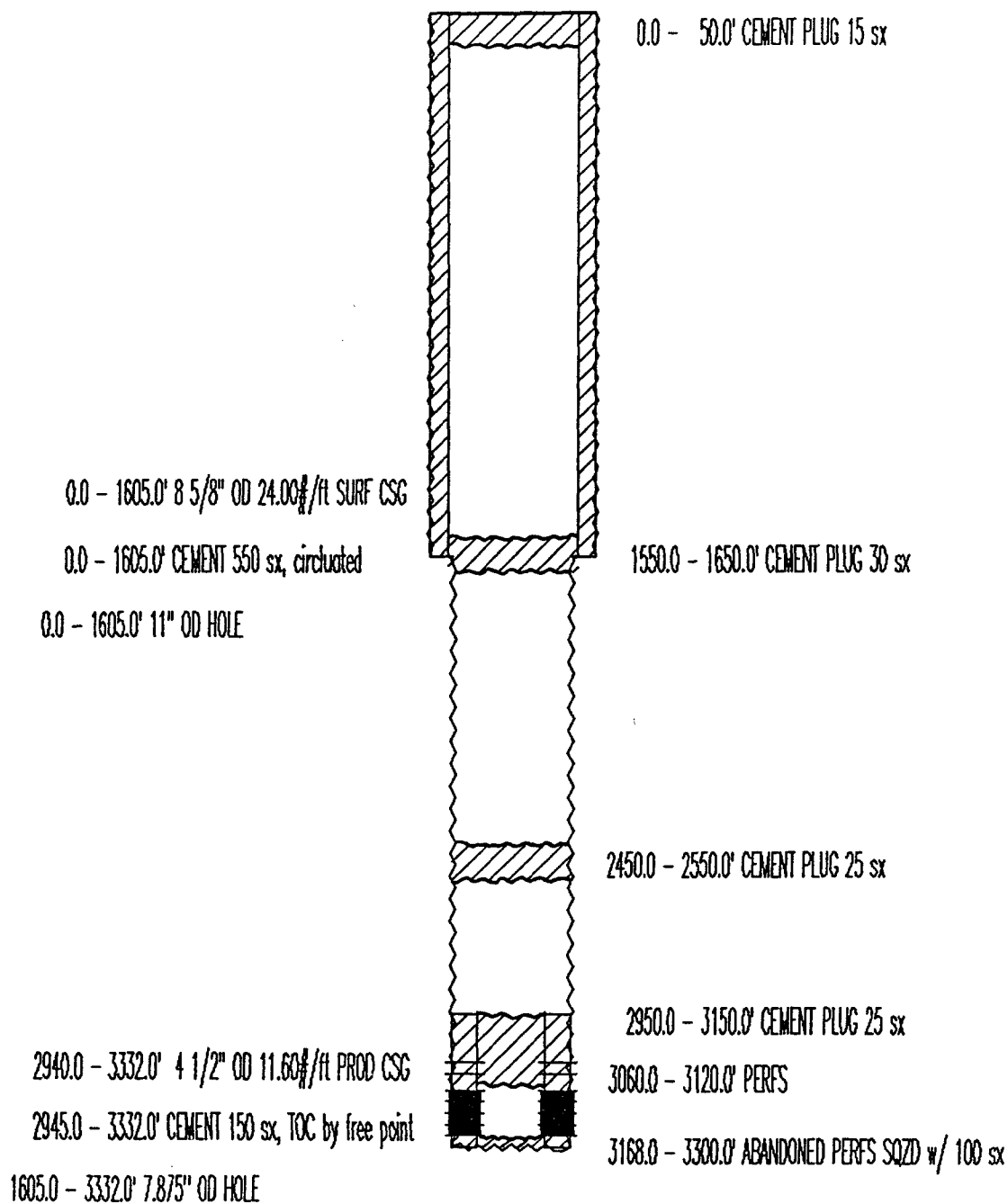
Completion:

7/25/01 : Perfed 4492'-4714' w/ 2 JSPF 120 deg ph, 0.47" holes
 Run pkr and set @ 4408'
 7/26/01 : 6000 gal 15% HCL
 3000 gal gelled 10 ppg brine
 Avg PSI: 3000 psi, well flowing
 7/27/01 : Well was flowing strong
 H2S present, 2400 bpd
 7/28/01 : POOH w/ tbq & pkr, Set RBP @ 4480'
 7/29/01 : Perfed 4472'-4474'; 4458'-4466'; 4438'-4450'
 4394'-4440'; 4376'-4382'; 4330'-4440' (Repeat);
 4322'-4324'; 4292'-4302'; 4308'-4312';
 4316'-4320' 2 JSPF, 120 Deg, 0.47" holes
 7/31/01 : Acidized w/ 4800 gals 15% HCL, 2500 gals
 gelled brine wtr, 2000# rock salt; well flowing
 back w/ H2S
 8/1/01 : Flow Well
 8/2/01 : Flow Well
 8/3/01 : TOH w/ RBP, RIH w/ duo-lined tbq, pkr @ 4258'
 8/4/01 : Tstd csg; lost 40 psi/30 min; RBP still in tbq
 8/5/01 : Clean location

Remarks:

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)

CURRENT
WELLBORE DIAGRAM

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

Well No.: 4
Unit Ltr: M
Unit Ltr:
St Lease: 857948
Elevation: 3999' GR
Field: Vacuum Grayburg San Andres
Sec: 1 TSHP/Range: 18S-34E
Sec: TSHP/Range:
API: 30-025-24332 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:

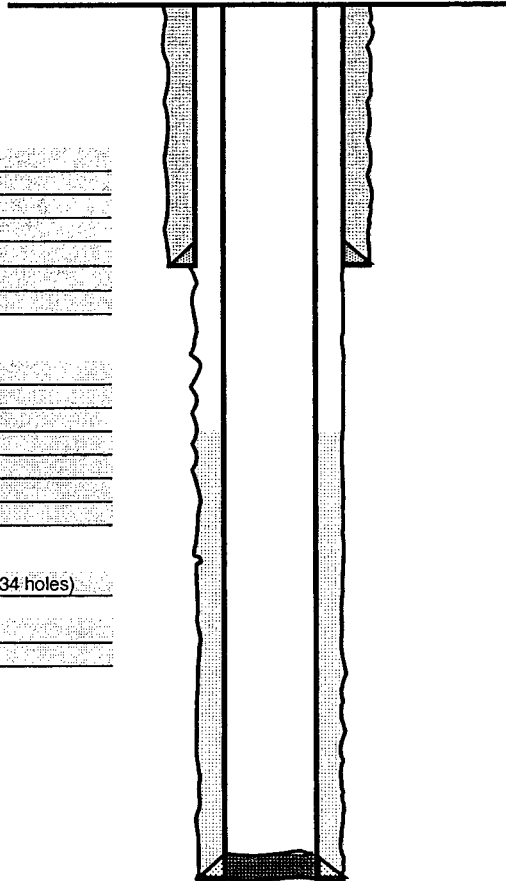
Grayburg San Andres 4524'-4777'; 2 JSPF (17 intervals, 34 holes)

PBTD:

4788'

TD:

4800'



KB: 4009
DF: 4008
GL:

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

Remarks:

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

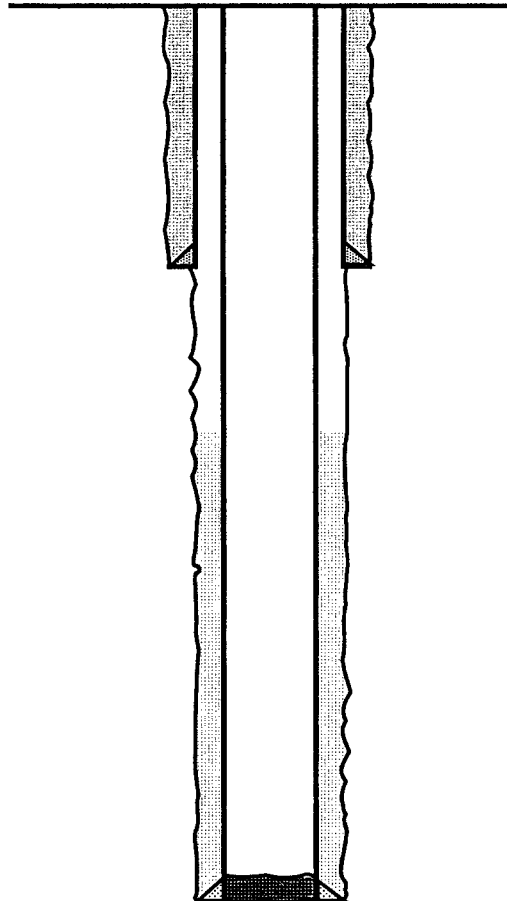
Well No.: 5
 Unit Ltr: N
 Unit Ltr:
 St Lease: 857948
 Elevation: 3994' GR
 Field: Vacuum Grayburg San Andres
 Sec: 1 TSHP/Range: 18S-34E
 Sec: TSHP/Range:
 API: 30-025-24333 Cost Center: BCT492200

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: 11/7/2003 By: SMG
Updated: By:
Lease: Vacuum Grayburg San Andres Unit
Surface Location: 660' FSL & 660' FEL
Bottomhole Location:
County: Lea St: NM
Current Status: Active Oil Well
Directions to Wellsite: Buckeye, New Mexico

Well No.: 9
Unit Ltr: P
Unit Ltr:
St Lease: B-1189
Elevation: 4010' DF
Field: Vacuum Grayburg San Andres
Sec: 2 TSHP/Range: 18S-34E
Sec: TSHP/Range:
API: 30-025-02274 Cost Center: BCT492200

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"

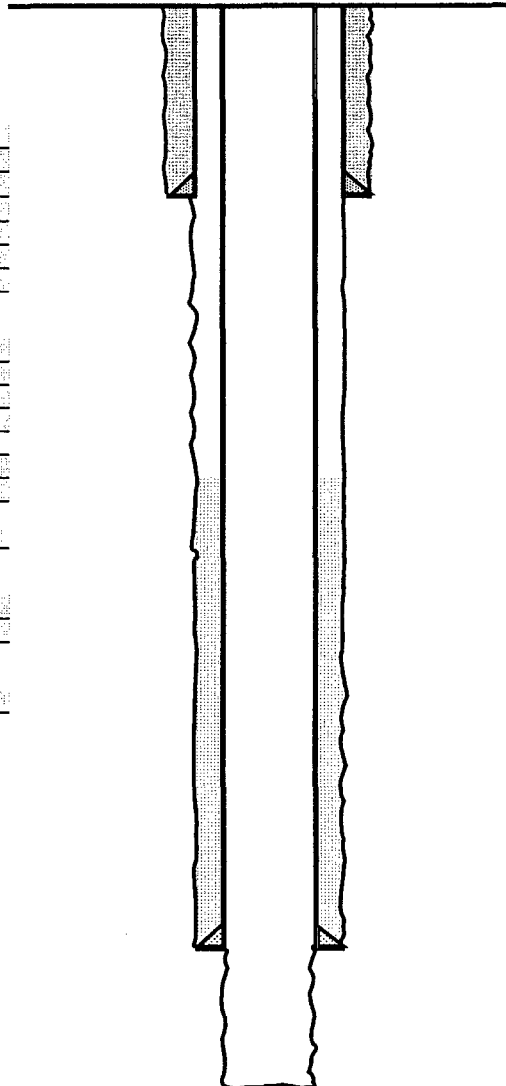
TD: 4710'

Open Hole

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

Perforations:

Open Hole 4200'-4710'



KB:
DF: 4010'
GL: 4005'
Original Spud Date: 11/14/1941
Original Compl. Date: 12/18/1941

TD: 4710'

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"

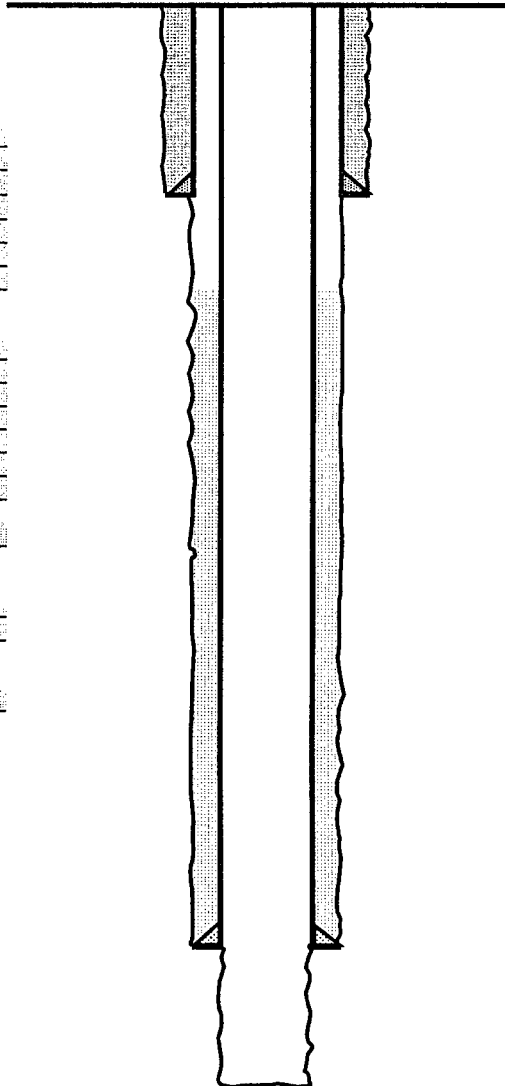
TD: 4710'

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:	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:

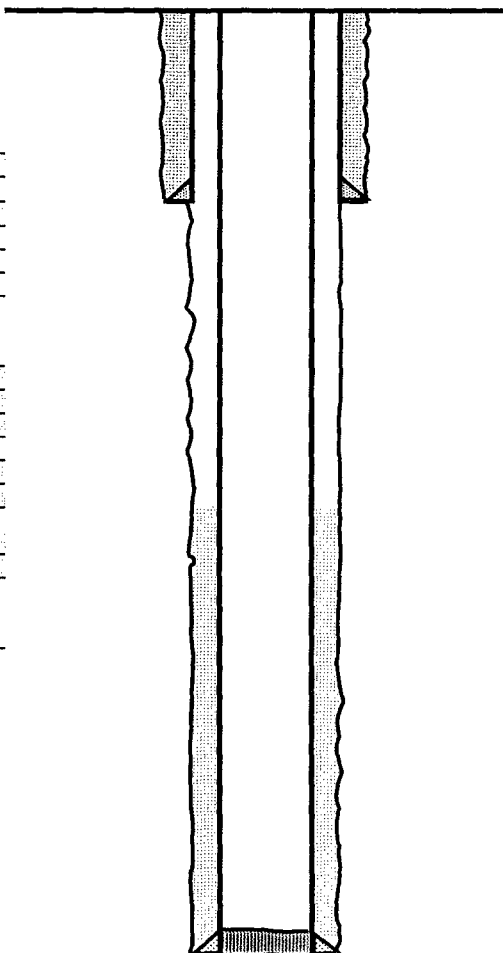
4789'

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:

**CURRENT
WELLBORE DIAGRAM**

Created: 11/7/2003 By: SMG
 Updated: By: _____
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 2630' FSL & 1330' FEL
 Bottomhole Location: _____
 County: Lea St: NM
 Current Status: Active Injection Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 31 Field: Vacuum Grayburg San Andres
 Unit Ltr: J Sec: 2 TSHP/Range: 18S-34E
 Unit Ltr: _____ Sec: _____ TSHP/Range: _____
 St Lease: 857948 API: 30-025-24314 Cost Center: BCT492200
 Elevation: 4014' DF

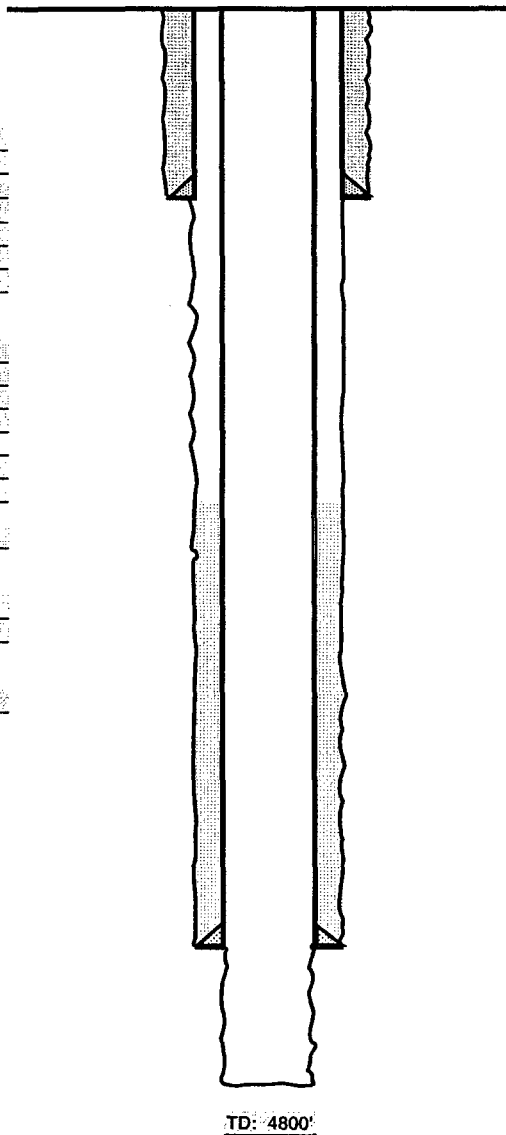
Surface Csg.
 Size: 8 5/8"
 Wt.: 20#, X-40
 Set @: 360'
 Sxs cmt: 210 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 12 1/4"

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 JSPI 4385'-4646' (15 int., 30 holes)



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

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"

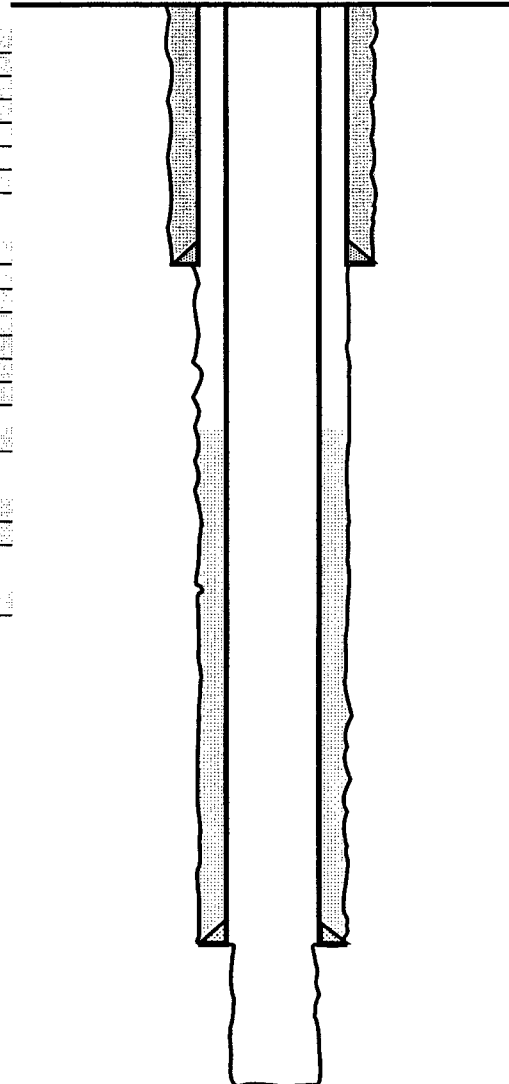
TD: 4710'

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: 11/6/2003 By: SMG
 Updated: By:
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 1405' FNL & 1230' FEL
 Bottomhole Location:
 County: Lea St: NM
 Current Status: Active Injection Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 46
 Unit Ltr: H
 Unit Ltr:
 St Lease: B-1441
 Elevation: 4018' DF
 Field: Vacuum Grayburg San Andres
 Sec: 2 TSHP/Range: 18S-34E
 Sec:
 API: 30-025-24364 TSHP/Range:
 Cost Center: BCT492200

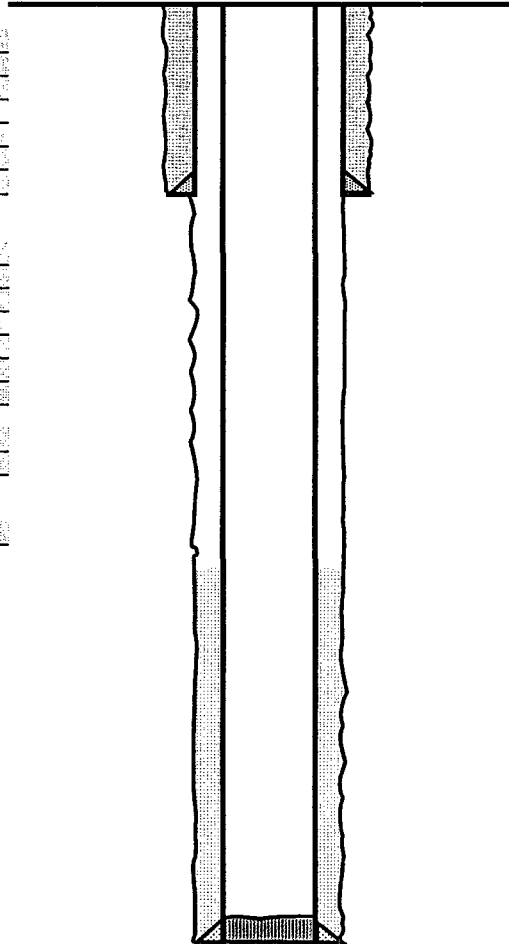
Surface Csg.
 Size: 8 5/8"
 Wt.: 20#, H-40
 Set @: 356'
 Sxs cmt: 300 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 12 1/4"

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: 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.

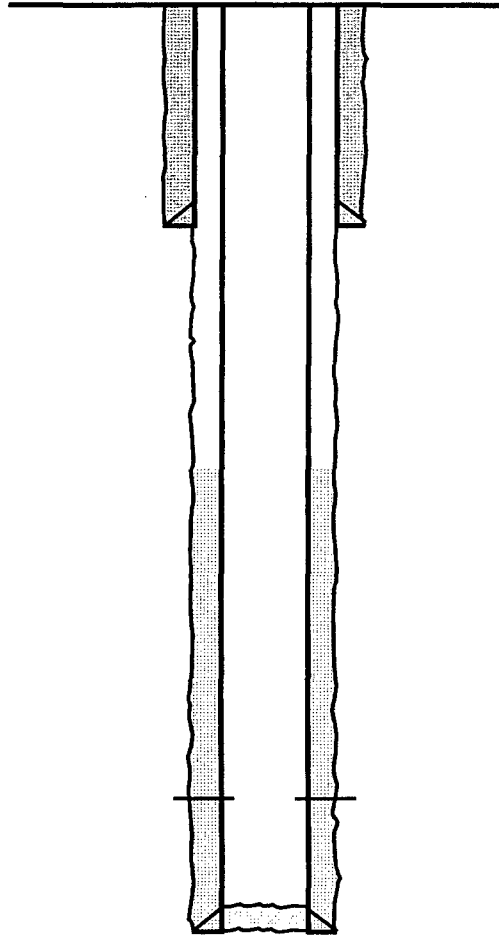
Size: 11 3/4"
 Wt.: 42#, H-40
 Set @: 1550'
 Sxs cmt: 1000
 Circ: Yes
 TOC: Surface
 Hole Size: 15"

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:

CURRENT
WELLBORE DIAGRAM

Created: 11/5/2003 By: SMG
 Updated: By:
 Lease: Vacuum Grayburg San Andres Unit
 Surface Location: 1360' FNL & 660' FEL
 Bottomhole Location:
 County: Lea St: NM
 Current Status: Active Water Injection Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 147 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: 30-025-30798 Cost Center: BCT492200
 Elevation: 4004' GR

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:

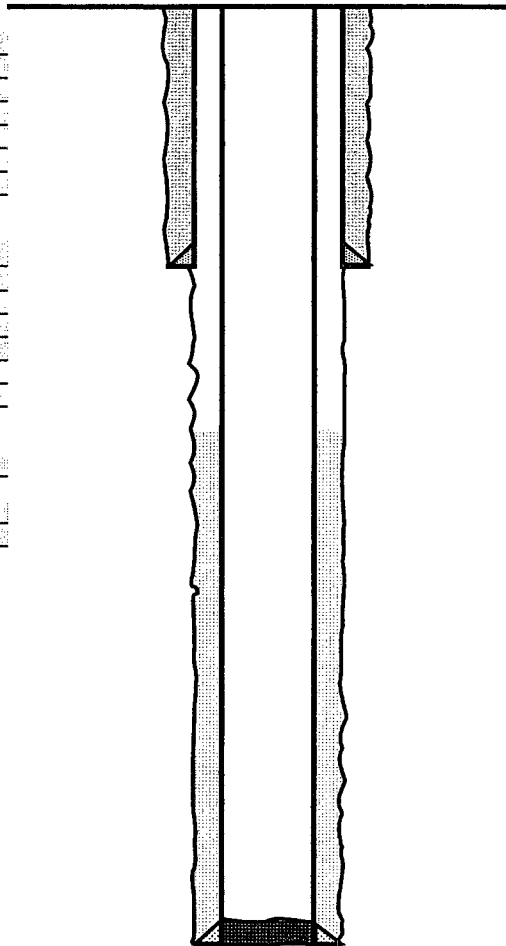
Grayburg/San Andres 4308'-4720'; 2 JSPF, 388 Holes

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:

**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		Elevation:	3992' GL	Cost Center:	BCT492200
County:	Lea	St: NM				
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"

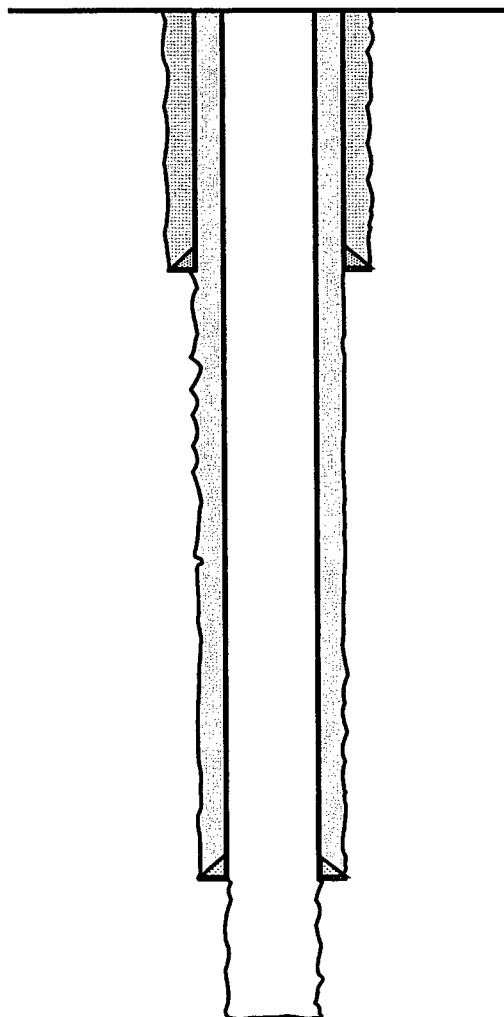
Perforations:

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

Remarks: