

VGSAU No. 140
API No. 30-025-30756
Vacuum (Grayburg-San Andres) Field
Lea County, NM

Workover Procedure

1. Rig up pulling unit. Kill well. ND wellhead. POH w/ rods and pump.
2. NU BOP. TOH w/ tubing.
3. TIH w/ 6-1/8" mill tooth bit, 6 3-1/2" drill collars on 2-7/8" workstring.
4. Tag TD (Last recorded bit run was in September 1999 when salt was cleaned out to 4890'). Clean out fill to 4900' (original PBTD). Rig up reverse unit if necessary. Circulate hole clean and TOH.
5. Rig up logging truck. Get on depth with Wedge Wireline GR-CCL log dated 3-29-90 (casing has a short joint from 4492+ to 4513-).
6. Perforate the 7" casing w/ 2 JSPF @ 120 degree phasing as follows: 4803' - 4807', 4812' - 4831', and 4837' - 4840'.
7. TIH w/ 7" treating packer on 2-7/8" workstring and set at 4740'. Acidize perms 4754' - 4840' with 3,000 gallons 15% HCl in 3 equal stages w/ 1500# rock salt between stages. Shut in two hours and flow back load. TOH w/ tubing and packer.
8. TIH w/ 7" treating packer on 2-7/8" workstring and set at 4150'. Acidize the entire San Andres interval 4199' to 4840' with 6,000 gallons 15% HCl in four stages with 1500# rock salt between stages. Shut in two hours and flow back load. TOH.
9. TIH w/ notched collar on 2-7/8" workstring and circulate out salt to 4900'. TOH.
10. TIH w/ 7" treating packer on 2-7/8" workstring. Pump scale inhibitor. Leave shut in overnight. TOH.
11. TIH w/ 2-7/8" production tubing to 4800'. ND BOP. NU wellhead.
12. RIH w/ pump and rods.
13. Rig down pulling unit. Return to production.

PTB 3/3/08

VGSAU #140 Wellbore Diagram

Created: 02/27/06 By: C. A. Irle
 Updated: 01/24/08 By: BSPT
 Lease: Vacuum Grayburg San Andres Unit
 Field: Vacuum Grayburg San Andres Unit
 Surf. Loc.: 1,980' FNL & 10' FEL
 Bot. Loc.:
 County: Lea St.: NM
 Status: Active Oil Well

Well #: 140 St. Lse: 857948
 API: 30-025-30756
 Unit Ltr.: H Section: 2
 TSHP/Rng: S-18 E-34
 Unit Ltr.: Section:
 TSHP/Rng:
 Directions: Buckeye, NM
 Chevno: IZ1886

Surface Casing

Size: 9 5/8"
 Wt., Grd.: 36# J-55
 Depth: 1,550'
 Sxs Cmt: 800
 Circulate: 95 sx
 TOC: Surface
 Hole Size: 12 1/4"

Production Casing

Size: 7"
 Wt., Grd.: 26# J-55
 Depth: 5,000'
 Sxs Cmt: 1,150
 Circulate: 231 sx
 TOC: Surface
 Hole Size: 8 3/4"

Perforations - All 2 JSPF

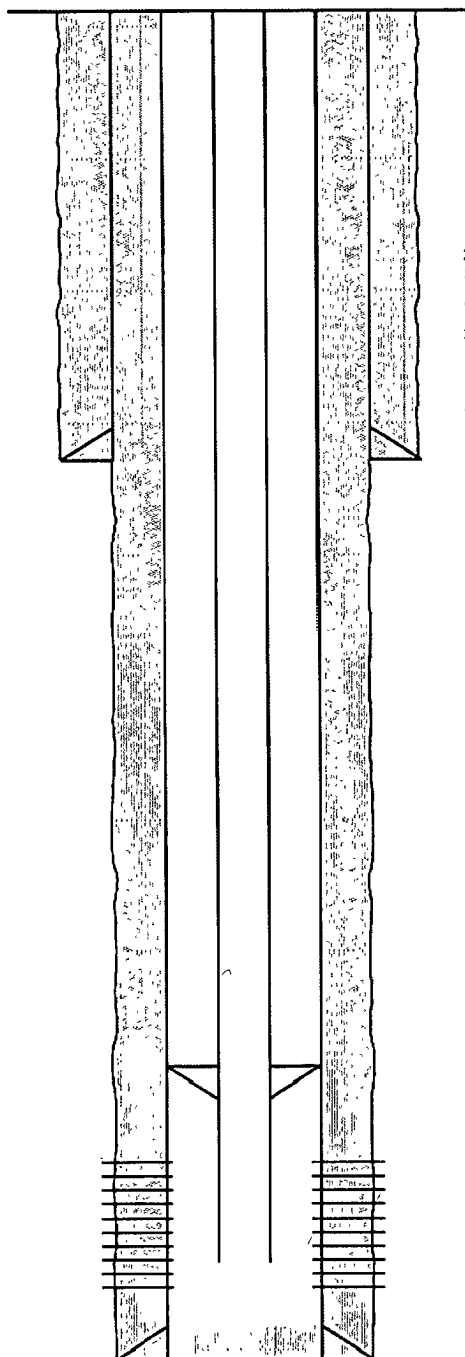
4378-85, 4397-4400, 4403-06,
 17-20, 34-46, 54-57, 78-86,
 4498-4501, 4507-10, 16-18, 22-24,
 34-38, 58-64, 70-75, 81-85, 89-94,
 4616-19, 32-34, 42-48, 56-61
 78-82, 88-91, 4710-15, 20-24
 54-57, 62-72, 86-92
 Also 4199-4377, 4423-4783

Tubing Details

2 7/8" J-55 (132jts) - 4,107'
 TAC - 4,110'
 2 7/8" J-55 (20jts) - 4,734'
 2 3/8" J-55 (4.15') - 4,138'
 20-175-THBC-20-4-4-0 - 4,762'
 2 7/8" J-55 (4') - 4,766'
 3.5" Bull Plug Mud Anchor - 4,798'

Rod Details

1.5" (1jt) - 26'
 7/8" (55jts) - 1,350'
 3/4" (126jts) - 4,500'
 1.5" Sinker Bar (10jts) - 4,750'
 Plunger - 4,754'
 1.5" Gas Anchor - 4766'



KB: 4.013
 DF:
 GL: 4.000
 Ini. Spud: 03/08/90
 Ini. Comp.: 04/12/90

History

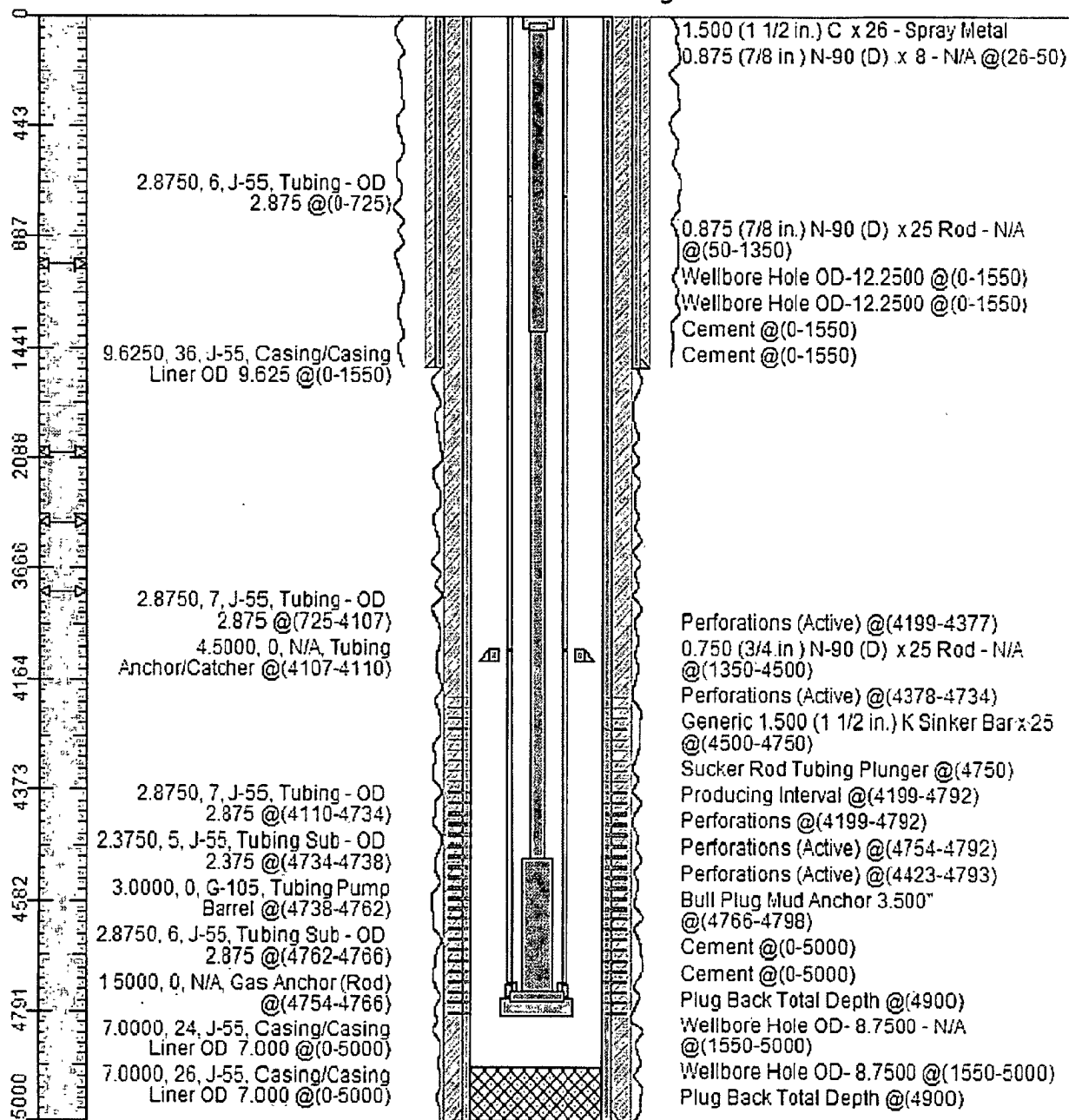
4/4/90 Ini Comp: Perf 2 jspf 4754-57, 62-72,
 86-92, spot 200 gls 28% NEFE, acid 2700
 gls 28% NEFE 400# RS. 21o 187lw
 4/13/90 Comp: RBP 4740, perf 2 jspf 4678-
 82, 88-91, 4710-15, 20-24, acid 2200 gls
 28% NEFE 1500# RS, RBP 4670, perf 2 jspf
 4616-19, 32-34, 42-48, 56-61, acid 2200 gls
 28% NEFE, RBP 4610, perf 2 jspf 4558-64,
 70-75, 81-85, 89-94, acid 2000 gls 28%
 NEFE 1150# RS, RBP 4548, perf 2 jspf 4478-
 86, 4493-4501, 4507-10, 16-18, 22-24, 34-
 38, acid 2000 gls 28% NEFE 800# RS, RBP
 4467, perf 2 jspf 4378-85, 4397-4400, 4403-
 06, 17-20, 34-46, 54-57, acid 3000 gls 28%
 NEFE 2000# RS.
 6/23/95 Perf & Acid: Perf 2 jspf 4423-31, 59-
 63, 4511-15, 25-30, 4626-30, 69-73, 4702-
 05, 77-83 (94 holes), pkr 4280, acid 9900 gls
 15% NEFE HCl, perf 2 jspf 4199-4207, 35-
 46, 69-76, 81-87, 4290-4300, 06-10, 18-25,
 27-34, 35-38, 40-42, 43-51, 54-59, 60-65, 69-
 77 (194 holes), RBP 4391, pkr 4100, acid
 4500 gls 15% NEFE HCl, left RBP,
 produced, rel RBP.
 4/25/97 Frac: CO 4810, CIBP 4605, pkr
 4110, frac 32000 gls 40# XL gel 103000#
 16/30 curable resin coated, tag 4310. drill
 4900 (PBTD).
 9/20/99 Acid: Acid 8000 gls 15% NEFE HCl
 5750# RS, SIS, CO 4890.

94-06: 13 Rod, Pump or Tubing Failures

PBTD: 4,900
 TD: 5,000'

CORE: 4343-4764'

Chevron U.S.A. Inc. Wellbore Diagram : VGSAU 140



LAST PUCC 3-14-06