

Gruy Petroleum Management Company

Vaca Ridge 21 Fed. Com #1

A.P.I. #: 30-025-28641

Lease Serial #:

Field: Pitchfork Ranch (Morrow)

Location: 660' FSL & 1980' FEL, Unit Letter O, Sec. 21, Twp. 24S, Rge. 34E

Lea County, New Mexico

Completion Date: 1984

Total Depth: 15,200' P.B.T.D.: CIBP @ 14,400'

Casing Data: 13-3/8" 48# & 54.5# @ 600' w/ 490 sxs. – Cement circulated to surface.
9-5/8" 36# & 40# @ 5172' w/ 2600 sxs. – Cement circulated to surface.
7" 26# P-110 & S-95 @ 13012' w/ 1425 sxs. – TOC = 5950' (TS)
4-1/2" 15.1# P-110 Liner @ 12441'-15200' w/ 425 sxs. – TOC = 12441'

Tubing Data: None

Rod Data: None

Open Perfs: None

Remarks: Perfs @ 14793'-14816' – Otis WL set perm. Pkr. @ 14620'
Perfs @ 14488'-14550' – Sqz. w/ 125 sxs. cmt. (01/04/94)
CIBP @ 14400' (04/24/96)

PXA PROCEDURE

- 1) MIRU workover rig, PXA equipment and 14,400' workstring.
- 2) ND wellhead and NU BOP's; PU & RIH w/ tubing to top of CIBP @ 14400'; Mix & pump a 25 sx. class "H" cmt. plug on top of CIBP @ 14400'; Circulate well w/ P&A mud; POOH laying down tbg. to 12540'; Mix & pump a 40 sx. class "H" cmt. plug @ 12540'-12340' (Liner Top); POOH laying down tbg. to 10000'; Mix & pump a 25 sx. class "H" cmt. plug @ 10000'-9900'; POOH laying down tbg. to 7700'; Mix & pump a 25 sx. class "H" cmt. plug @ 7700'-7600'; POOH w/ tbg. standing back 5230' & laying down the balance.
- 3) ND BOP's & NU casing equip.; Work stretch on 7" csg.; RUWL & csg. cutter & RIH & cut 7" casing (est. csg. recovery @ 5170'); POOH & RDWL; POOH laying down 7" casing; ND csg. equip. & NU BOP's.
- 4) RIH w/ tbg. OE to 50' below csg. cut; Mix & pump a 200', 100 sx. class "H" cmt. plug 50' below csg. cut and 150' above 9-5/8" csg. shoe; POOH w/ tbg. & WOC; RIH w/ tbg. & tag top of cmt. plug.
- 5) POOH laying down tbg. to 2150'; Mix & pump a 50 sx. class "H" cmt. plug @ 2150'-2050'(Salt); POOH w/ laying down tbg. to 650'; Mix & pump a 50 sx. class "H" cmt. plug @ 650'-550'(Fresh water).
- 6) POOH w/ laying down tubing to 63' & mix & pump a 30 sx. cmt. surf. plug @ 3'-63'.
FOOH w/ tubing.
- 7) Dig out and cut off well head 3' B.G.L.; Weld steel plate on top of casings & set dry hole marker.
- 8) RDMO rig and PXA equipment. Clean location.

GRUY PETROLEUM MANAGEMENT CO.

Pitchfork Ranch (MORROW)

Vaca Ridge 21 Fed Com #1

SPUDDED 3/25/84

API 30-025-28641

CURRENT COMPLETION

Sherry Reid Carroll 9/25/02

KB:-
DP:-
GL: 3500.5'

660' FSL & 1980' FEL
Sec 21, T-24-S, R-34-E
Unit Letter O
Lea County, New Mexico

Casing Strings:
2" Conductor

13-3/8" (17-1/2" hole), 48 & 54.5#, K-55
@ 600' w/ 490 sx cmt
TOC @ surface - circ

9-5/8" (12-1/4" hole), 36 & 40#,
K-55 & N-80 @ 5172' w/ 2600 sx cmt
TOC @ surface - circ

7" (8-3/4" hole), 26#, P-110 & S-95,
@ 13012' w/ 1425 sx cmt
TOC @ 5950' (temp survey)

4-1/2" (? Hole), 15.1#, P-110 liner
from 12441-15200' w/ 425 sx cmt
TOC @ top of liner

No record of any tbg left in hole

Sqz'd Perfs:

14488, 90, 94, 96, 98' (9/85)
14457-74', 4 spf (orig comp)
14544, 46, 48, 50' (9/85)

Open Perfs:

14793-98, 14801-08, 14810-22,
14826-33 (1/94)
14802, 04, 06, 12, 14, 16' (9/85)

CIBP @ 14400'

Otis WL set perm pkr @ 14620'

PBTD 15135'

TD = 15200'