V.T.C. Van Tol Co.

VANNSYSTEM TUBING CONVEYED INSTALLATION

FILING NO.

COMPANY BLACK RIVER CORPORATION

WELL BRC MADERA #1

FIELD SOUTH CARLSBAD(MORROW)

COUNTY EDDY STATE NEW MEXICO

LOCATION 860' FNL & 1990' FEL

SEC. 29 TWP. 22-S Rge. 27-E

OTHER SERVICES

PRODUCING FORMATION

LOG MEASURED FROM G.L.

DRILLING MEASURED FROM K.B.

23 ft ABOVE FROM G.L.

ELEV. K.B. 3162' D.F. G.L. 3139'

DATE 3/4,5,6,7/78

PURPOSE STAGE #1

DEPTH - DRILLER VANNSYSTEM PERFORATING ASSEMBL

DEPTH - LOGGER

BOTTOM LOGGED INTERVAL

TOP LOGGED INTERVAL

TYPE FLUID IN HOLE

DENSITY VISC. CL.

LEVEL

MAX. REC. TEMP. °F

EQUIPMENT NO. TAKEN

LOCATION NO. TAKEN

RECORDED BY R.B. WEBB & ALAN CARRE

WITNESSED BY MR. TEX FLANNAGAN

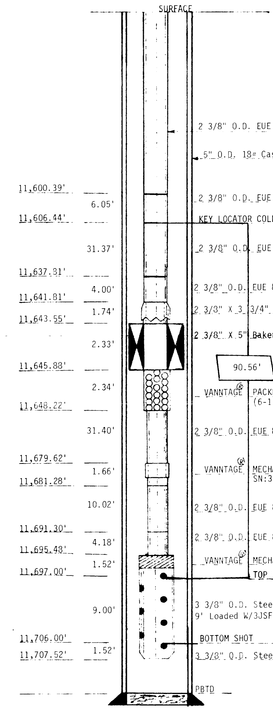
RECEIVED APR 13 1978 O.C.D. ARTESIA, OFFICE

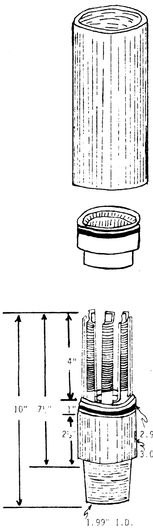
CASING RECORD

SIZE	WGT.	FROM	TO
5 5/8"	18#	SURF.	11,706'
4 1/2"	11.6#	11,706'	12,810'

BORE HOLE RECORD

RUN NO.	BIT	FROM	TO





*"VANNTAGE® MECHANICAL TUBING RELEASE SUB"

TO FISH DETONATING BAR--Run the proper over-shot or pulling tool to catch the 7/8" O.D. fishing neck that is looking up on the detonating bar. (OTIS number 40SM3 or 40SM4 or other equivalent tool.)

TO RELEASE THE GUNS--Run the proper Garrett or Otis shifting tool for the size profile in the release sub latching device.

The Otis tool is the Otis Type B Positioning or Shifting Tool with Selective Keys (Requires shearing pin to come out of the hole. It does not have a releasing profile on the upper part of the key.)

TUBING SIZE	RELEASE SUB LATCH PROFILE	OTIS SHIFTING TOOL NO.	OTIS SHIFTING KEYS NO.	SHIFTING KEY O.D. Expanded: Retracted:
1.9"	1.50"	42B0120	42B108	Exp: 1.69" Retr: 1.41"
2 1/16"	1.625"	42B0121	42B80	Exp: 1.88" Retr: 1.59"
2 3/8"	1.875"	42BC116	42B153	Exp: 2.16"
2 3/8"	1.812"		42B106	Retr: 1.75"
2 7/8"	2.25"	42BC118	42B46	Exp: Retr:
3 1/2	2.75"	42B0147	42B348	Exp: Retr:

RELEASING PROCEDURE--Run proper shifting tool down through release sub latch. Pick up to engage latch and jar up to shift. Shear pin in shifting tool, then go down and verify that guns have dropped off. If guns have not dropped jar down to release guns.

TO FISH GUNS: The guns may be fished from the Rat Hole with a Center Spear or a Short Catch Over-Shot.

The total length of Released Sub left in the hole is 10". The top 4" is Flexible Fingers. Next 1" is 2.99" O.D. Next 2 1/2" is 3.063" O.D. X 1.990" I.D. w/2 3/8" EUE 8-Rd Pin screwed into a 2 3/8" EUE 8-Rd coupling. Total Length above the coupling is 7 1/2".