

Attachment for Form 9-330 (Well Completion Or Recompletion Report and Log)
 North Indian Basin Unit Well # 3 (3-21S-23E)
 Marathon Oil Company

Core # 1 -- 7320-7346' (26'), recovered 26'. Core description commencing at 7320': 5' shaley lime NS, 3' shale, 6' lime, dense NS, 9' lime w/ poor porosity, bleeding gas, 3' lime, dense w/ no porosity.

Core # 2 -- 7346-7385' (39'), recovered 39'. 7346-61' lime, dense, no porosity; 7361-72' lime, poor porosity; 7372-85' lime, dense, no porosity.

Core # 3 -- 7386-7390' (4'), recovered 4'. Lime w/ chert imbedded, no porosity.

Core # 4 -- 7440-7462' (22'), recovered 22'. All dolomite, pinpoint to scattered vugs, with vugs up to 4" in size.

Core # 5 -- 7462-7486' (24'), recovered 24'. All dolomite, white to dark gray, very coarse Xln porosity w/ occasional fractures and shale partings. Porosity - pin point to vugs up to 4".

Core # 6 -- 7486-7516' (30'), recovered 30'. All dolomite, white to dark gray, M-C Xln, Argil, occasional porosity (1/4" vugs) scattered larger vugs (Maximum 2").

Core # 7 -- 7516-7526' (10'), recovered 10'. Gray medium vuggy dolomite w/ fair pin point porosity except for light section 7520-22'.

Core # 8 -- 7526-7549' (23'), recovered 23'. 7526-29' gray dolomite w/ PPP porosity; 7529-30' gray shale; 7530-49' tan-brown, M Xln, broken dolomite w/ good vuggy porosity and rare to abundant white dolomite zones.

Core # 9 -- 7549-7573' (24'), recovered 24'. All dolomite, hard, gray-brown, M. Xln, argil, ppp porosity w/ occasional scattered vugs.

DST # 1 -- 7331 - 7431' (100'), Cisco Canyon. Dual packers, jars and safety joint, no blanket, 5/8" x 1" chokes. Opened tool for 3 min. w/ weak blow of air. Took 30 min ISIP. Opened well for 60 minute flow test w/ strong blow of air immediately decreasing to weak in 10 minutes. Gas to surface in 12 minutes w/ weak blow continuing throughout test. Gas rate TSTM. Took 60 min FSIP. Recovered 150' GCDM. HI 3442, 30" ISIP 728, IFP 116, 60" FSIP 1547, FFP 116, HO 3427, Temp 132° F.

DST # 2 -- 7390-7526' (136'), Cisco Canyon. Dual packers, jars and safety joint, 3/4" x 1" chokes, no blanket. Opened tool for 3 minutes w/ strong blow of air immediately, GTS in 2 minutes, FTP 90#. Took 30 minute ISIP. Opened well for 2 1/2 hour flow test as follows: 45 minutes, 3/4" choke, estimated rate of 12.4 MMCFPD w/ FTP 1000#. Switched through test equipment for 1 hour at a stabilized rate of 4.66 MMCFPD. Produced 1.20 bbl condensate and no water in 1 hour for a daily rate of 28.80 condensate thru 21/64" choke with FTP 2020#, GIR 160, 416:1. Gravity of condensate 59.2° API at 60° F. Took 60 minute FSIP. Recovered 5' condensate, gravity 56.0° API at 60° F, HI 3463, 30" ISIP 2931, IFP 1689, FFP 2620, 60" FSIP 2886, HO 3463, temperature 166°.

DST # 3 -- 9076-9159' (83'), Morrow "A" sand, 5/8" x 1" chokes. Opened tool for 5 minute flow test. Very weak blow to surface immediately. Shut tool for 30 minute ISIP. Opened tool for 1 hour flow period. Very weak blow to surface for 11 minutes and well died. Well dead throughout remainder of test. Shut tool for 1 hr FSIP. Recovered 10' slightly gas cut drilling mud.

DST # 4 -- 9189-9248' (59'), Morrow "B" sand, 5/8" x 1" chokes. Opened tool for 4 minutes with fair blow of air. Took 30 minute ISIP. Opened tool for one hour with fair blow immediately decreasing to a bubble in 30 minutes, died in 45 minutes. No GTS. Took 60" FSIP. Recovered 10' drilling fluid. HI and HO 4731, 30" ISIP 216, IFP 8, 60" FSIP 432, FFP 8, temperature 160° F.

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