

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11367

Well Name & No. HJV Nunn A #1 Test No. 1 Date 12-13-98
Company Anadarko Petroleum Corporation Zone Tested Morrow
Address P.O. Box 351 Liberal, KS. 67905-0351 Elevation 29300 ~~29300~~ 2990 GL
Co. Rep / Geo. Jim B / Ed. G Cont. Big A #2 Est. Ft. of Pay Por. %
Location: Sec. 16 Twp. 25^S Rge. 35^W Co. Kearny State KS
No. of Copies Nml. Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)

Interval Tested 4755 - 4836 Initial Str Wt./Lbs. 62,000 Unseated Str Wt./Lbs. 62,000
Anchor Length 81' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 10,000
Top Packer Depth 4750 Tool Weight 2500
Bottom Packer Depth 4755 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Total Depth 4836 Wt. Pipe Run Drill Collar Run 274' (3)
Mud Wt. 9.1 LCM 4* Vis. 43 WL B.O Drill Pipe Size 4 1/2" XH Ft. Run 4461' (48)
Blow Description IF: Weak 1/4" blow died at 20 mins.

FF: No return blow.

Recovery — Total Feet 15' GIP Ft. in DC 15' Ft. in DP

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. <u>15'</u>	Feet Of <u>Drilg Mud</u>	%gas	%oil	%water	%mud
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil	%water	%mud
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil	%water	%mud
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil	%water	%mud

BHT 113° °F Gravity °API D@ °F Corrected Gravity °API
RW @ °F Chlorides ppm Recovery Chlorides 900 ppm System

(A) Initial Hydrostatic Mud 2323 2268 PSI Recorder No. 3024 T-Started 2316
(B) First Initial Flow Pressure 10 23 PSI (depth) 4760 T-Open 0220
(C) First Final Flow Pressure 10 27 PSI Recorder No. 13339 T-Pulled 0520
(D) Initial Shut-in Pressure 41 62 PSI (depth) 4831 T-Out 0745
(E) Second Initial Flow Pressure 10 29 PSI Recorder No.
(F) Second Final Flow Pressure 10 30 PSI (depth)
(G) Final Shut-in Pressure 31 47 PSI Initial Opening 30 Test 700
(H) Final Hydrostatic Mud 2303 2238 PSI Initial Shut-in 60 Jars X 200
AK-i Mech Alp Elec. Final Flow 30 Safety Joint X 50
Final Shut-in 60 Straddle

on loc 2115 Circ. Sub X N/C
off loc 1000 Sampler X 200

Extra Packer

Elect. Rec. X 150

Other

TOTAL PRICE \$ 1300

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]

Our Representative Rod Steinbrink

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FLUID SAMPLER DATA

Ticket No. 11367 Date 12-13-98
Company Name Anadarko Pet. Corp. Cont. Big A #2
Lease HJV Nunn A #1 Test No. 1 Morrow.
County Kearny KS. Sec. 16 Twp. 25^S Rng. 35^W

SAMPLER RECOVERY

Gas — ML
Oil — ML
Mud 4,000 ML
Water — ML
Other — ML
Pressure 10 # PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 900 ppm.
Resistivity — ohms @ — F
Viscosity 43
Mud Weight 9.1
Filtrate 8.0
Other LCM 4 #/bbl

SAMPLER ANALYSIS

Resistivity ~~338~~ - 019 ohms @ 40° F
Chlorides 900 ppm.
Gravity — corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity — ohms @ — F
Chlorides — ppm.

MIDDLE
Resistivity — ohms @ — F
Chlorides — ppm.

BOTTOM
Resistivity — ohms @ — F
Chlorides — ppm.