

Company Associated Petroleum Consultants, Inc. & N.R.G. Investments Lease & Well No. #1-11 Z Bar Ranch

Elevation 1613 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 18381

Date 12/16 /82 Sec. 11 Twp. 35S Range 15W County Barber State Kansas

Test Approved By Greg Tucker Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 4971 ft. to 5065 ft. Total Depth 5065 ft.

Packer Depth 4968 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4971 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4975 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 4978 ft. Recorder Number 4332 Cap. 4200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Heartland Drlg. Rig #1 Drill Collar Length 400 I. D. 2 1/4 in.

Mud Type chemical Viscosity 52 Weight Pipe Length - I. D. - in.

Weight 9.2 Water Loss 12.8 cc. Drill Pipe Length 4549 I. D. 3.8 in.

Chlorides 8,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.

Jars: Make No Serial Number - Anchor Length 94' (62'-6 1/2 DC / 32'-5 1/2 OD) Size 5 1/2 OD in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Packer seat failed

Recovered - ft. of -

Recovered - ft. of PACKER SEAT FAILURE

Remarks: MISRUN

Time Set Packer(s) 9:05 AM Time Started Off Bottom 9:30 AM Maximum Temperature -

Initial Hydrostatic Pressure (A) 2441 P.S.I.

Initial Flow Period (B) - P.S.I. to (C) - P.S.I.

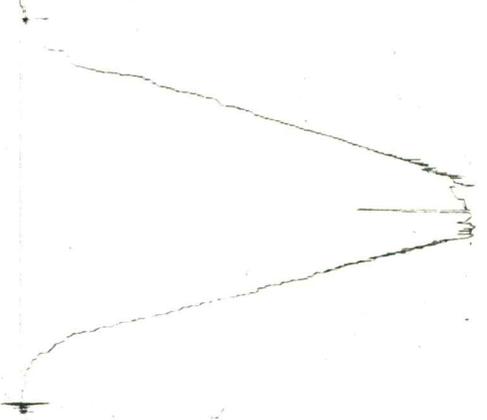
Initial Closed In Period (D) - P.S.I.

Final Flow Period (E) - P.S.I. to (F) - P.S.I.

Final Closed In Period (G) - P.S.I.

Final Hydrostatic Pressure (H) 2412 P.S.I.

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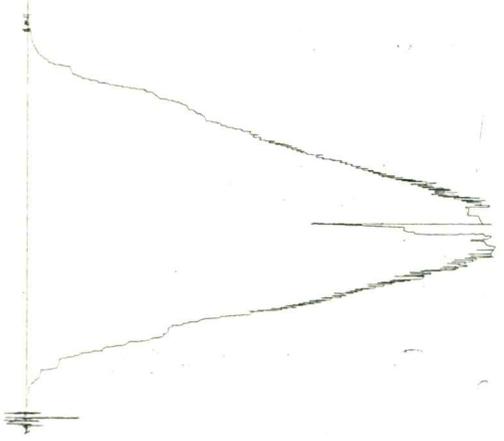


2606 DST # 1

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Company Associated Petroleum Consultants, Inc. & N.R.G. Investments Case & Well No. #1-11 Z Bar Ranch
 Elevation 1613 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 18382
 Date 12/17/82 Sec. 11 Twp. 35S Range 15W County Barber State Kansas
 Test Approved by Greg Tucker Western Representative Rod Tritt

Formation Test No. 2 Interval Tested from 4995 ft. to 5065 ft. Total Depth 5065 ft.

Packer Depth 4990 ft. Size 6 3/4 in. Packer Depth -- ft. Size - in.

Packer Depth 4995 ft. Size 6 3/4 in. Packer Depth -- ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4999 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 5002 ft. Recorder Number 4332 Cap. 4200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Heartland Drlg. Drill Collar Length 431 I. D. 2 1/4 in.

Mud Type chemical Viscosity 52 Weight Pipe Length - I. D. - in.

Weight 9.2 Water Loss 12.8 cc. Drill Pipe Length - I. D. 3.8 in.

Chlorides 8,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.

Jars: Make No Serial Number - Anchor Length 31 x 6 1/4 DC ft. Size 5 1/2 OD in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: MISRUN

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of PACKER SEAT FAILURE

Recovered ft. of

Remarks:

Time Set Packer(s) ----- A.M. P.M. Time Started Off Bottom ----- A.M. P.M. Maximum Temperature -----

Initial Hydrostatic Pressure (A) 2471 P.S.I.

Initial Flow Period Minutes (B) - P.S.I. to (C) - P.S.I.

Initial Closed In Period Minutes (D) - P.S.I.

Final Flow Period Minutes (E) - P.S.I. to (F) - P.S.I.

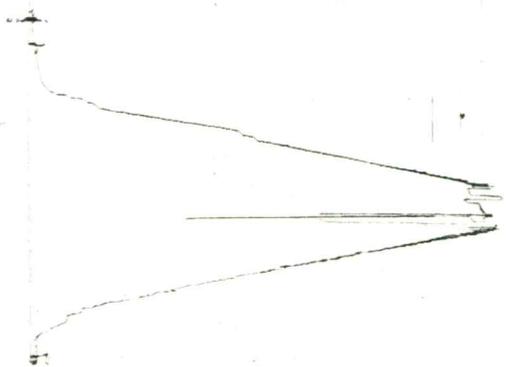
Final Closed In Period Minutes (G) - P.S.I.

Final Hydrostatic Pressure (H) 2424 P.S.I.

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~~2600 DST#2~~

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