

Company Pendleton Land & Exploration, Inc. Lease & Well No. #1 Robinson
 Elevation 2594 Kelly Bushing Formation Marmaton Effective Pay --- Ft. Ticket No. _____
 Date 3/15/83 Sec. _____ Twp. _____ Range _____ County Clark State Kansas
 Test Approved by David R. Flinn Western Representative Darrell Claphan

Formation Test No. 1 Interval Tested from 5074 ft. to 5114 ft. Total Depth 5114 ft.
 Packer Depth 5069 ft. Size 6 3/4 in. Packer Depth 5074 ft. Size 6 5/8 in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 5076 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 5080 ft. Recorder Number 6233 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Silverado Drlg. Co. Rig #8 Drill Collar Length 512 I. D. 2.2 in.
 Mud Type Chemical Viscosity 45 Weight Pipe Length -- I. D. - in.
 Weight 8.9 Water Loss 12 cc. Drill Pipe Length 4533 I. D. 3.8 in.
 Chlorides 12,000 P.P.M. Test Tool Length 29 ft. Tool Size 4.5 in.
 Jars: Make WTC Serial Number 414 Anchor Length 40 ft. Size 5.5 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 4.5 in.

Blow: Strong blow throughout initial flow period. Final flow period good to strong blow - six to twelve inches.

Recovered 4500 ft. of gas in pipe
 Recovered 210 ft. of clean gassy oil Gravity 38° Chlorides 98,000 ppm
 Recovered 180 ft. of froggy muddy gassy oil 45% oil; 40% gas; 15% mud
 Recovered 60 ft. of oil spotted muddy water
 Recovered 120 ft. of muddy water

Remarks: Gas to surface on final shut-in. Had to slide tool approximately feet to bottom.

Time Set Packer(s) 1:20 ~~AM~~ P.M. Time Started Off Bottom 6:20 ~~AM~~ P.M. Maximum Temperature 126°
 Initial Hydrostatic Pressure (A) _____ 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) _____ P.S.I.

WESTERN TESTING CO.
SUBSURFACE PRESSURE SURVEY

DATE: 3/15/83
 CUSTOMER: PENDLETON LAND & EXPLORATION LEASE: ROBINSON
 WELL: 1 TEST: 1 FIELD:
 ELEVATION: 2594 FORMATION: MARMATON
 SECTION: 19 TOWNSHIP: 30S
 RANGE: 25W COUNTY: CLARK STATE: KANSAS
 GAUGE SN #6233 RANGE: 4000 CLOCK: 12

INTERVAL TEST FROM: 5074 FT TO: 5114 FT TOTAL DEPTH: 5114 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 5069 FT SIZE: 6 3/4 IN PACKER DEPTH: 5074 FT SIZE: 6 5/8 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: SILVERADO DRLG.
 MUD TYPE: CHEMICAL VISCOSITY: 45
 WEIGHT: 8.9 WATER LOSS (CC): 12
 CHLORIDES (P.P.M.): 12000
 JARS - MAKE: WTC SERIAL NUMBER: 414
 DID WELL FLOW? NO REVERSED OUT? NO
 DRILL COLLAR LENGTH: 512 FT I.D.: 2.2 IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 4533 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 29 FT TOOL SIZE: 4.5 IN
 ANCHOR LENGTH: 40 FT SIZE: 5.5 IN
 SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
 MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4.5 IN

BLOW: INITIAL FLOW PERIOD STRONG BLOW
 THROUGHOUT.
 FINAL FLOW PERIOD GOOD TO STRONG
 BLOW - 6 INCHES TO 12 INCHES.

RECOVERED: 4500 FT OF: GAS IN PIPE
 RECOVERED: 210 FT OF: CLEAN GASSY OIL GRAVITY 38
 RECOVERED: 180 FT OF: FROGGY MUD CUT OIL-45% OIL; 40% GAS; 15% MUD
 RECOVERED: 60 FT OF: OIL SPOTTED MUDDY WATER
 RECOVERED: 120 FT OF: MUDDY WATER CHLORIDES 98000 PPM
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:

REMARKS: Gas to surface on 2nd shut-in. slid tool approx. 35 ft. to bottom.

TIME SET PACKER(S): 1:20 PM TIME STARTED OFF BOTTOM: 6:20 PM
 WELL TEMPERATURE: 126 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 2440 PSI
 INITIAL FLOW PERIOD MIN: 30 (B) 64 PSI TO (C) 119 PSI
 INITIAL CLOSED IN PERIOD MIN: 57 (D) 1162 PSI
 FINAL FLOW PERIOD MIN: 85 (E) 148 PSI TO (F) 246 PSI
 FINAL CLOSED IN PERIOD MIN: 117 (G) 1104 PSI
 FINAL HYDROSTATIC PRESSURE (H) 2395 PSI

LIQUID PRODUCTION

GAUGE SN # 6233
 INITIAL HYDROSTATIC PRESSURE: 2440 PSI
 FINAL HYDROSTATIC PRESSURE: 2395 PSI
 1ST FLOW: INITIAL: 0 MIN 64 PSI
 FINAL: 30 MIN 119 PSI
 INITIAL CLOSE-IN PRESSURE: 57 MIN 1162 PSI
 2ND FLOW: INITIAL: 0 MIN 148 PSI
 FINAL: 85 MIN 246 PSI
 FINAL CLOSE-IN PRESSURE: 117 MIN 1104 PSI
 EXTRAPOLATED STATIC PRESSURE
 INITIAL: 1262.95895 PSI FINAL: 1243.43043 PSI
 SLOPE (PSI / CYCLE)
 INITIAL: 547.784261 FINAL: 588.432384
 ELEVATION: 2594 (KB)
 INDICATED PRODUCTION
 1 ST FLOW: 2.410 BBLs/DAY TOTAL FLOW: 4.233 BBLs/DAY
 DRILL COLLAR LENGTH: 512 FT
 DRILL COLLAR I.D.: 2.2 IN
 DRILL PIPE I.D.: 3.8 IN
 DRILL PIPE FACTOR: .0142 BBLs/FT
 MAIN HOLE SIZE: 77 IN
 FOOTAGE TESTED: 12 FT
 OIL VISCOSITY: 4 CP

SUMMARY

	INITIAL	FINAL
PRODUCTION:	115.690	71.709 BBLs/DAY
TRANSMISSABILITY:	34.341	19.815 md.ft/cp
INDICATED FLOW CAPACITY:	137.362	79.261 md.ft
AVG. EFFECTIVE PERMEABILITY:	11.447	6.605 md
DAMAGE RATIO:	.382	.310
THEORETICAL POTENTIAL W/DR:	44.213	22.244 BBLs/DAY
APPROX. RADIUS OF INVESTIGATION:	18.531	23.695 FT

TKT # 18087

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(A)

(A)

(G)

(D)

(F)

(E)

(C)

(B)

5025