

Complete Field Service and Chart Evaluation

FORMATION TESTING SERVICES INC.

FORMATION TEST REPORT
 JAY BOY OIL INCORPORATED

Nattier # 1

Call T.F. N.W.K.

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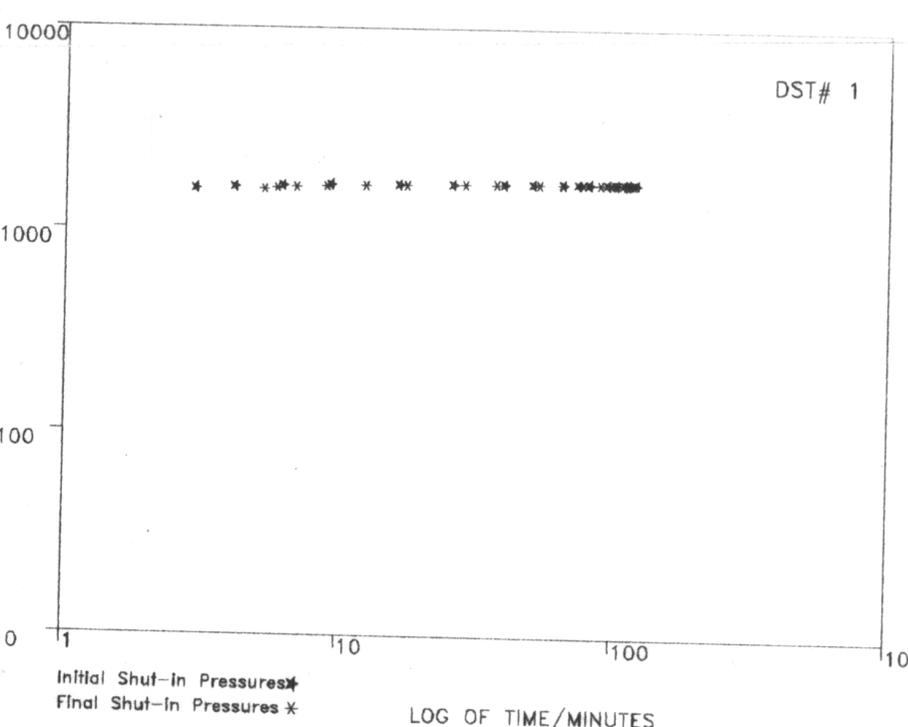
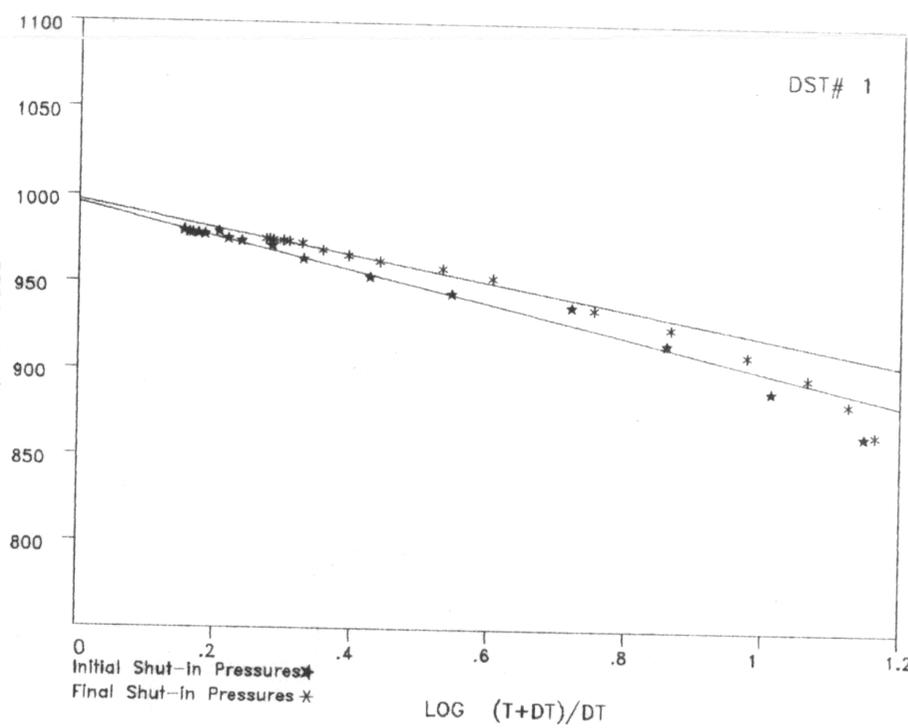
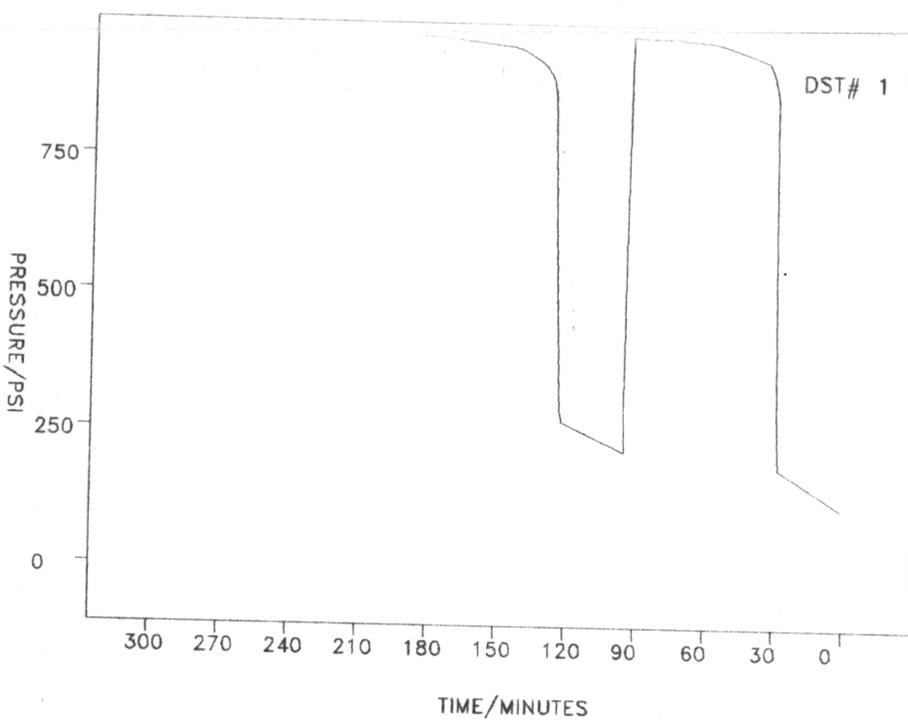
FORMATION TESTING SERVICES, INC.
 DRILL-STEM TEST REPORT

COMPANY- JAY BOY OIL
 WELL- NATTIER NO1
 COUNTY- HARVEY
 STATE- KANSAS

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 WELL- NATTIER NO1
 COUNTY- HARVEY
 STATE- KANSAS
 LOCATION- C-S2-N2-SE
 SEC:21 TYP:22S RGE:3W

PERMANENT DATUM:GL
 ELEVATIONS
 ELEV OF PERM DATUM: KB:1432
 INTERVALS TESTED DF:
 MEASURED FROM:KB GL:

DATE	D.S.T.#1	D.S.T.#	D.S.T.#	D.S.T.#
2/12/87				
ZONE TESTED	SIMPSON			
INTERVAL	3680-3715			
ANCHOR LENGTH	21 FT			
INITIAL HYDRO.	1808 PSI			
INIT. FLOW PRESS.	83-128 PSI			
INIT. SHUT-IN	980 PSI			
FINAL FLOW PRESS.	220-250 PSI			
FINAL SHUT-IN	986 PSI			
FINAL HYDRO.	1729 PSI			
TOTAL FLUID REC.	490 FT			
GAS	0 BBL			
OIL	.298 BBL			
WATER	5.632 BBL			
MUD	0 BBL			
TOTAL FLUID REC.	5.93 BBL			



DRILL STEM TEST INFORMATION

RECORDED INFORMATION	DST #1	DST #	DST #	DST #
DATE TESTED	2/12/87			
ZONE TESTED	SIMPSON			
INTERVAL (FT)	3680-3715			
ANCHOR LENGTH (FT)	21			
INITIAL HYDRO. (PSI)	1808			
INIT. FLOW PRES. (PSI)	83-128			
INIT. SHUT-IN (PSI)	980			
FINAL FLOW PRES. (PSI)	220-250			
FINAL SHUT-IN (PSI)	986			
FINAL HYDRO. (PSI)	1729			
TOTAL FLUID FT. (PSI)	490			
GAS (BBL)	0			
OIL (BBL)	.298			
WATER (BBL)	5.632			
MUD (BBL)	0			
TOTAL FLUID (BBL)	5.93			
PIPE CAPACITY (BBL/FT)	.0155			
WEIGHT PIPE CAPACITY (BBL/FT)	0			
COLAR CAPACITY (BBL/FT)	.0049			
EXTRA EQUIPMENT				
TESTER	WESTERN			
COMPANY REP.				
HOLE SIZE (IN.)	7.875			
ZONE POROSITY (%)	12(Default)			
EFFECTIVE FEET PAY	15			
GRAVITY (API)	54			
CHLORIDES-MUD (PPM)	1.0			
CHLORIDES-REC. FLUID (PPM)				
FORMATION TEMP. (F)	107			
TIME PERIODS (MINUTES)	30-66-30-63			
TYPE OF DRIVE	WATER			
AVERAGE WATER SATURATION (%)				
WATER VISCOSITY (CP)	.65			
ABANDONMENT PRESSURE (PSI)				
ECONOMIC LIMIT (BOPM)	90			

PRODUCTION CALCULATIONS	Value
GAS/OIL RATIO	135
FORMATION VOL FACTOR	1.0858
VIS OF FLUID-RESERVOIR (CP)	.8438
BUBBLE POINT (PSI)	346.7727
EXTRAP. PRES. 1ST SI (PSI)	995.5996
EXTRAP. PRES. 2ND SI (PSI)	997.3691
SLOPE OF 2ND SI (PSI/LC)	77.4637
TRANSMISS. LIQUID (md-ft/cp)	12.0654
FLOW CAP. (md-ft)	10.1311
PRODUCT. INDEX (BOPD/PSI)	.0059
POTENTIO. SURFACE (ft ASL)	59.8989
PERMEABILITY (md)	.6754
RADIUS OF INVEST. (FT)	19.2218
FLOW RATE GAS (MCF)	0
FLOW RATE TOTAL FLUID (BPD)	104.7326
FLOW RATE OIL (BPD)	5.2671
ESTIMATED DAMAGE RATIO	1.7207
POTENTIAL/DAMAGE REM. (BPD)	9.0635

$$T_{FR} = \frac{(162.6)(104.7)(1)}{77.46}$$

$$= \underline{\underline{220 \text{ md ft}}}$$

RESERVOIR CALCULATIONS	Value
RECOVERY FACTOR (%)	0
ANNUAL DECLINE (%)	0
WELL LIFE (YEARS)	0
NO. ACRES AFFECTED	.0027
NO. ACRES NOT AFFECTED	-.0028
ECONOMIC RESERVES (BBL)	0

Formation Testing Services, Inc. shall not be liable for damages of any kind, or for losses suffered or sustained directly or indirectly through the use of its statements or opinion concerning the results of any test.