



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No

11912

Call OK

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 1380 gr Formation med. Eff. Pay Ft.

District Prett Date 10-24-81 Customer Order No.

COMPANY NAME George Jones 125 N Market

ADDRESS KSBT Bldg. Suite 1310 Wichita Kan 67202

LEASE AND WELL NO. 1 Harbaugh COUNTY Barber STATE Ks. Sec. 1 Twp 33^S Rge 10^W

Mail Invoice To A #1 Harbaugh Co. Name Address No. Copies Requested

Mail Charts To Address No. Copies Requested

Formation Test No. 1 Interval Tested from 4328 ft. to 4380 ft. Total Depth 4380 ft.

Packer Depth 4323 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Packer Depth 4328 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4364 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 4367 ft. Recorder Number 3086 Cap. 4500

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Benecke #2 Drill Collar Length 187' I. D. 2.2 in.

Mud Type chemical Viscosity 57 Weight Pipe Length I. D. in.

Weight 9.1 Water Loss 9.6 cc. Drill Pipe Length 4118' I. D. 3.8 in.

Chlorides 11,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 52 ft. Size 5 1/2 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 in.

Blow: STRONG gas-to-surface 5 min (w/ 2" open)

See flowchart attached sheet for gas measurements.

Recovered 50 ft. of heavy gas cut & slightly oil stained drlg. mud.

Recovered 90 ft. of Watery Drlg. mud

Recovered 90 ft. of Oil & gas cut muddy water w/ 10% mud 7% oil 83% water

Recovered 90 ft. of flux gas & oil cut water w/ 5% oil 95% water

Recovered 180 ft. of gassy salt water w/ slight oil stain w/ 67,000 chlorides.

Remarks:

Time On Location 8:45 A.M. Time Pick Up Tool 12:00 A.M.

Time Set Packer(s) 1:45 P.M. Time Started Off Bottom 5:00 P.M. Maximum Temperature 130°f

Initial Hydrostatic Pressure (A) 2145 P.S.I.

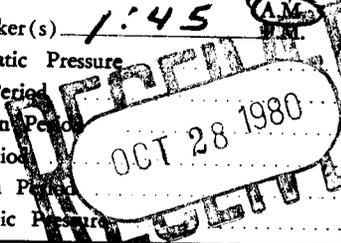
Initial Flow Period (B) 30 Minutes (C) 194 P.S.I. to (D) 216 P.S.I.

Initial Closed In Period (E) 45 Minutes (F) 1398 P.S.I.

Final Flow Period (G) 60 Minutes (H) 226 P.S.I. to (I) 194 P.S.I.

Final Closed In Period (J) 60 Minutes (K) 1345 P.S.I.

Final Hydrostatic Pressure (L) 2047 P.S.I.



COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to 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, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Bob Hamm
Signature of Customer or his authorized representative

Western Representative Mike Rogers Thank You!

FIELD INVOICE

Open Hole Test	\$ <u>700.00</u>
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$ <u>465.00</u>
Standby 1 hr	\$ <u>175.00</u>
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage 5550	\$ <u>3750.00</u>
Fluid Sampler	\$
Extra Charts	\$
Insurance	\$ <u>50.00</u>
TOTAL	\$ <u>5000.00</u>



Nº 2788

GAS FLOW REPORT

Date 10-24-81 Ticket 11912 Company George R. Jones
 Well Name and No. Harbaugh #1 Dst No. 1 Interval Tested 4328-4380
 County Barber State Ko. Sec. 1 Twp. 33 Rg. 10

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW

PSI					
					995 to Surface 5 min with 2 inch open F.P.
05	20	1/2			177,000 C.F.O.
10	28				222,000 "
15	40				285,000 "
20	50				337,000 "
30	55				362,000 "

SECOND FLOW

PSI					
					Fine Water Mist F.P.P.
02	20	3/4			398,000 C.F.O.
10	30				522,000 "
20	25				461,000 "
30	23				436,000 "
40	22				424,000 "
50	22			424,000 "	
60	22			424,000 "	
					OK

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date: 10-24-81 Test Ticket No. 11912
 Recorder No. 1566 Capacity 4300 Location 4364
 Clock No. --- Elevation 1380 GL Well Temperature 130

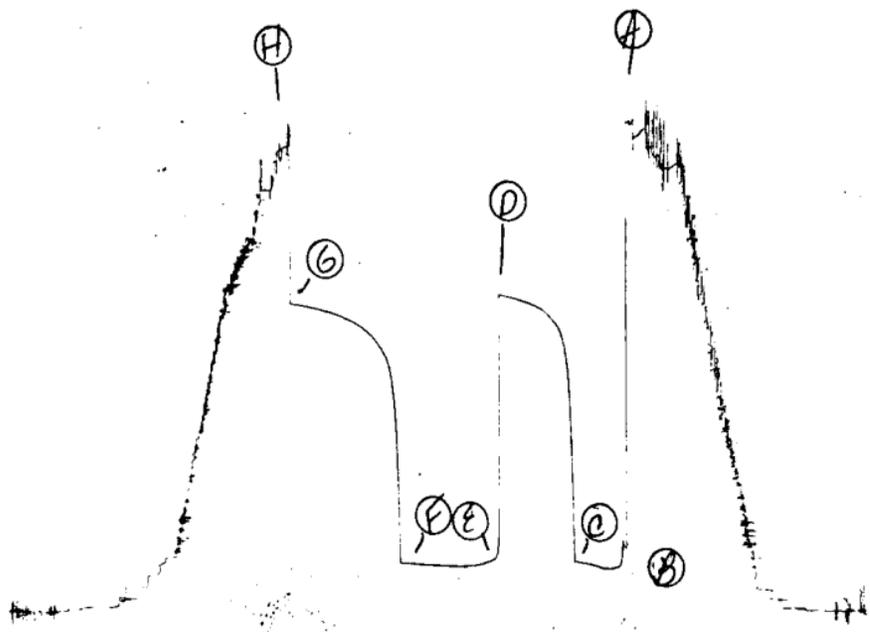
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2152</u>	P.S.I.	<u>1:45 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>190</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>222</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1405</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>231</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
F Second Final Flow Pressure	<u>217</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
G Final Closed-in Pressure	<u>1366</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2047</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>22</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>190</u>	0	<u>222</u>	0	<u>231</u>	0	<u>217</u>
P 2 5	<u>190</u>	3	<u>1019</u>	5	<u>227</u>	3	<u>884</u>
P 3 10	<u>190</u>	6	<u>1180</u>	10	<u>212</u>	6	<u>1067</u>
P 4 15	<u>194</u>	9	<u>1250</u>	15	<u>205</u>	9	<u>1133</u>
P 5 20	<u>204</u>	12	<u>1284</u>	20	<u>205</u>	12	<u>1173</u>
P 6 25	<u>215</u>	15	<u>1311</u>	25	<u>204</u>	15	<u>1203</u>
P 7 30	<u>222</u>	18	<u>1332</u>	30	<u>204</u>	18	<u>1227</u>
P 8 35		21	<u>1347</u>	35	<u>206</u>	21	<u>1248</u>
P 9 40		24	<u>1360</u>	40	<u>208</u>	24	<u>1266</u>
P10 45		27	<u>1371</u>	45	<u>209</u>	27	<u>1281</u>
P11 50		30	<u>1377</u>	50	<u>214</u>	30	<u>1294</u>
P12 55		33	<u>1384</u>	55	<u>216</u>	33	<u>1303</u>
P13 60		36	<u>1392</u>	60	<u>217</u>	36	<u>1313</u>
P14		39	<u>1397</u>	65		39	<u>1323</u>
P15		42	<u>1401</u>	70		42	<u>1330</u>
P16		45	<u>1405</u>	75		45	<u>1334</u>
P17		48		80		48	<u>1341</u>
P18		51		85		51	<u>1347</u>
P19		54		90		54	<u>1354</u>
P20		57				57	<u>1358</u>
		60				60	<u>1362</u>
						63	<u>1364</u>

TKT # 11912

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Company George R. Jones Lease & Well No. Harbaugh "A" #1
 Elevation 1350 Ground Level Formation Mississippi Effective Pay - Ft. Ticket No. 11912
 Date 10/24/81 Sec. 1 Twp. 33S Range 10W County Barber State Kansas
 Test Approved by Bob Hammond Western Representative Mike Rogers

Formation Test No. 1 Interval Tested from 4328 ft. to 4380 ft. Total Depth 4380 ft.
 Packer Depth 4323 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 4328 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4364 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 4367 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Beredco Drlg. Rig #2 Drill Collar Length 187 I. D. 2.2 in.
 Mud Type chemical Viscosity 57 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 9.6 cc. Drill Pipe Length 4118 I. D. 3.8 in.
 Chlorides 11,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 52 ft. Size 5 1/2 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 in.

Blow: Strong; gas to surface in five minutes (with 2" open). See attached sheet for gas measurements.

Recovered 50 ft. of heavy gas cut and slightly oil stained drilling mud
 Recovered 90 ft. of watery drilling mud
 Recovered 90 ft. of oil and gas cut muddy water with 10% mud; 7% oil; 83% water
 Recovered 90 ft. of heavy gas and oil cut water with 5% oil; 95% water
 Recovered 180 ft. of gassy salt water with slightly oil stain with 67,000 ppm chlorides

Remarks: _____

Time Set Packer(s) 1:45 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 5:00 ~~P.M.~~ ^{A.M.} Maximum Temperature 130°
 Initial Hydrostatic Pressure (A) 2152 P.S.I.
 Initial Flow Period Minutes 30 (B) 190 P.S.I. to (C) 222 P.S.I.
 Initial Closed In Period Minutes 45 (D) 1405 P.S.I.
 Final Flow Period Minutes 60 (E) 231 P.S.I. to (F) 217 P.S.I.
 Final Closed In Period Minutes 66 (G) 1366 P.S.I.
 Final Hydrostatic Pressure (H) 2047 P.S.I.

GAS FLOW REPORT

Date 10/24/81 Ticket 11912 Company George R. Jones
 Well Name and No. Harbaugh "A" #1 Dst No. 1 Interval Tested 4328' - 4380'
 County Barber State Kansas Sec. 1 Twp. 33S Rg. 10W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
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PRE FLOW

Gas	to surface	five minutes with two inch	open I.F.	P.	
	5 min.	20.0 PSIG	1/2" orifice		177,000 CFPD
	10 min.	28.0 PSIG	1/2" orifice		222,000 CFPD
	15 min.	40.0 PSIG	1/2" orifice		285,000 CFPD
	20 min.	50.0 PSIG	1/2" orifice		337,000 CFPD
	30 min.	55.0 PSIG	1/2" orifice		362,000 CFPD

SECOND FLOW

					Description of Flow
					Fine water mist on final flow period
	2 min.	20.0	3/4" orifice		398,000 CFPD
	10 min.	30.0	3/4" orifice		522,000 CFPD
	20 min.	25.0	3/4" orifice		461,000 CFPD
	30 min.	23.0	3/4" orifice		436,000 CFPD
	40 min.	22.0	3/4" orifice		424,000 CFPD
	50 min.	22.0	3/4" orifice		424,000 CFPD
	60 min.	22.0	3/4" orifice		424,000 CFPD

GAS BOTTLE

Serial No. ---- Date Bottle Filled ---- Date to be Invoiced 10/24/81

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

George R. Jones

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME George R. Jones

Authorized by Bob Hammond

WESTERN TESTING CO., INC.

Pressure Data

Date 10/24/81 Test Ticket No. 11912
 Recorder No. 1566 Capacity 4300 Location 4364 Ft.
 Clock No. --- Elevation 1380 Ground Level Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2152	P.S.I.	1:45A	M
B First Initial Flow Pressure	190	P.S.I.	30	30
C First Final Flow Pressure	222	P.S.I.	45	45
D Initial Closed-in Pressure	1405	P.S.I.	60	60
E Second Initial Flow Pressure	231	P.S.I.	60	66
F Second Final Flow Pressure	217	P.S.I.		
G Final Closed-in Pressure	1366	P.S.I.		
H Final Hydrostatic Mud	2047	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>22</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	0	222	0	231	0	217
P 2	5	3	1019	5	227	3	884
P 3	10	6	1180	10	212	6	1067
P 4	15	9	1250	15	204	9	1133
P 5	20	12	1284	20	204	12	1173
P 6	25	15	1311	25	204	15	1203
P 7	30	18	1332	30	204	18	1227
P 8		21	1347	35	206	21	1248
P 9		24	1360	40	208	24	1266
P10		27	1371	45	209	27	1281
P11		30	1377	50	214	30	1294
P12		33	1384	55	216	33	1303
P13		36	1392	60	217	36	1313
P14		39	1397			39	1323
P15		42	1401			42	1330
P16		45	1405			45	1334
P17						48	1341
P18						51	1347
P19						54	1354
P20						57	1358
						60	1362
						63	1364
						66	1366



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No

13072

Call of OK

P. O. BOX 1599 PHONE (316) 262-5861 WICHITA, KANSAS 67201

Elevation _____ Formation Simpson Eff. Pay _____ Ft.

District Pratt Date 10/26/81 Customer Order No. _____

COMPANY NAME George Jones

ADDRESS 125 N Market KSB-T Bldg Suite 130 Wichita Ks 67212

LEASE AND WELL NO. Harbaugh "A" #1 COUNTY Barber STATE KS Sec. 1 Twp 3B Rge 10 W

Mail Invoice To Same No. Copies Requested 5

Mail Charts To Same No. Copies Requested 5

Address _____

Formation Test No. 2 Interval Tested from 4738 ft. to 4761 ft. Total Depth 4761 ft.

Packer Depth 4733 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4738 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4751 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 4754 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor Beredco Rig #2 Drill Collar Length 310 I. D. 2 1/4 in.

Mud Type Premix-Drispac Viscosity 43 Weight Pipe Length _____ I. D. _____ in.

Weight 9.2 Water Loss 16.0 cc. Drill Pipe Length 4404 I. D. 3 1/8 in.

Chlorides 16,000 P.P.M. Test Tool Length 24 ft. Tool Size 5 1/2 in.

Jars: Make _____ Serial Number _____ Anchor Length 23 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out Yes Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.

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

Blow: Strong blow throughout flow period

Recovered 3340 ft. of Salt Water (96,000 ppm)

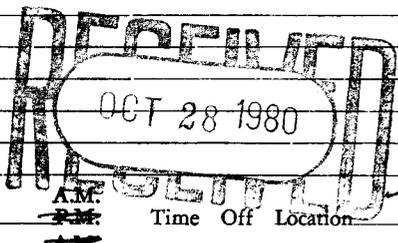
Recovered _____ ft. of

Recovered _____ ft. of

Recovered _____ ft. of

Recovered _____ ft. of

Remarks: _____



Time On Location 9:30 A.M. Time Pick Up Tool 10:00 P.M. Time Off Location 7:30 P.M.

Time Set Packer(s) 11:35 P.M. Time Started Off Bottom 2:50 P.M. Maximum Temperature 128°

Initial Hydrostatic Pressure (A) 2310 P.S.I.

Initial Flow Period Minutes 30 (B) 254 P.S.I. to (C) 956 P.S.I.

Initial Closed In Period Minutes 45 (D) 1762 P.S.I.

Final Flow Period Minutes 60 (E) 1206 P.S.I. to (F) 1573 P.S.I.

Final Closed In Period Minutes 60 (G) 1762 P.S.I.

Final Hydrostatic Pressure (H) 2289 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to 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, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By: [Signature] Signature of Customer or his authorized representative

Western Representative: Jim Winder Thank You

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$700), Safety Joint (\$65), Mileage 50 mi (\$37.50), and TOTAL (\$837.50).

WESTERN TESTING CO., INC.

Pressure Data

Date: 10-26-81 Test Ticket No. 13072
 Recorder No. 2607 Capacity 4150 Location 4751 Ft
 Clock No. _____ Elevation _____ Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2367</u>	P.S.I.	<u>11:35</u> A _M	
B First Initial Flow Pressure	<u>269</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>966</u>	P.S.I.	<u>45</u> Mins.	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>1788</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>1125</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>1607</u>	P.S.I.		
G Final Closed-in Pressure	<u>1812</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2356</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In

Breakdown: 16 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure

Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

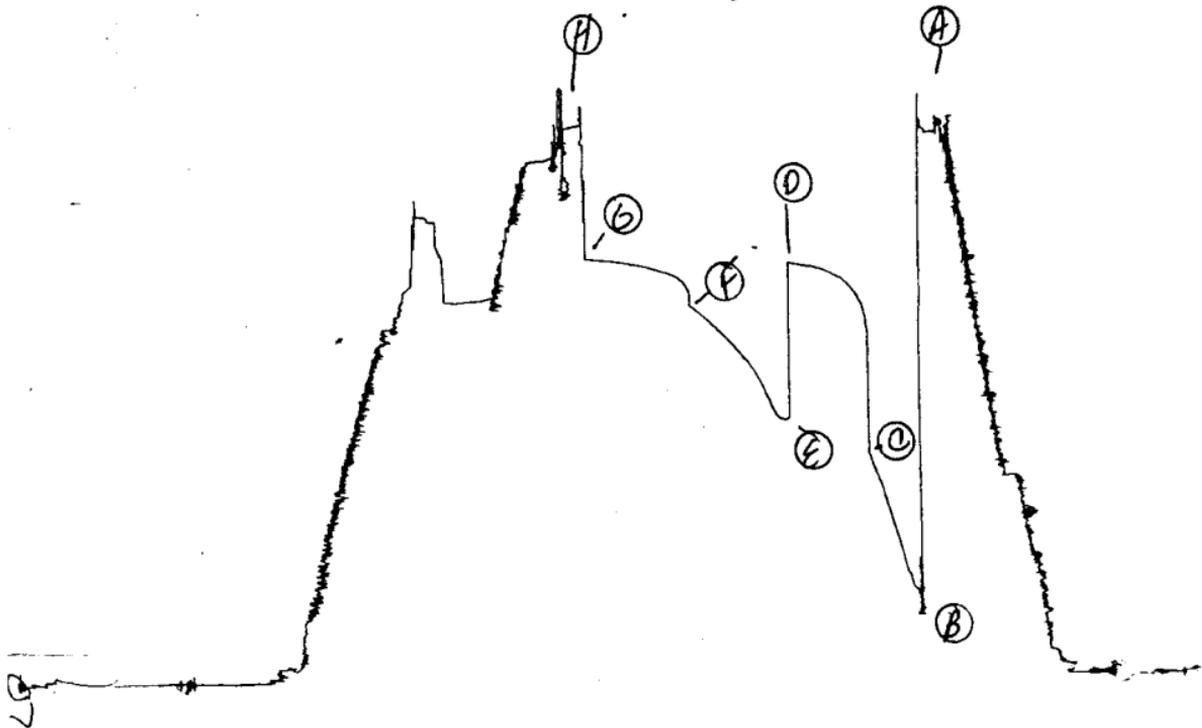
Final Shut-In

Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>269</u>	0	<u>966</u>	0	<u>1125</u>	0	<u>1607</u>
P 2 5	<u>434</u>	3	<u>1571</u>	5	<u>1127</u>	3	<u>1699</u>
P 3 10	<u>552</u>	6	<u>1626</u>	10	<u>1173</u>	6	<u>1721</u>
P 4 15	<u>671</u>	9	<u>1662</u>	15	<u>1252</u>	9	<u>1737</u>
P 5 20	<u>791</u>	12	<u>1687</u>	20	<u>1322</u>	12	<u>1747</u>
P 6 25	<u>896</u>	15	<u>1710</u>	25	<u>1376</u>	15	<u>1754</u>
P 7 30	<u>966</u>	18	<u>1727</u>	30	<u>1418</u>	18	<u>1762</u>
P 8 35		21	<u>1737</u>	35	<u>1460</u>	21	<u>1767</u>
P 9 40		24	<u>1748</u>	40	<u>1494</u>	24	<u>1775</u>
P10 45		27	<u>1758</u>	45	<u>1529</u>	27	<u>1779</u>
P11 50		30	<u>1765</u>	50	<u>1563</u>	30	<u>1784</u>
P12 55		33	<u>1771</u>	55	<u>1592</u>	33	<u>1788</u>
P13 60		36	<u>1776</u>	60	<u>1607</u>	36	<u>1792</u>
P14		39	<u>1778</u>	68		39	<u>1796</u>
P15		42	<u>1781</u>	70		42	<u>1799</u>
P16		45	<u>1785</u>	75		45	<u>1802</u>
P17		48	<u>1788</u>	80		48	<u>1804</u>
P18		51		85		51	<u>1806</u>
P19		54		90		54	<u>1808</u>
P20		57				57	<u>1810</u>
		60				60	<u>1812</u>

TK# 13072

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Company George R. Jones Lease & Well No. Harbaugh "A" #1
 Elevation ----- Formation Simpson Effective Pay - Ft. Ticker No. 13072
 Date 10/26/81 Sec. 1 Twp. 33S Range 10W County Barber State Kansas
 Test Approved by Gilbert L. Ballinger Western Representative Jim Wondra
 Formation Test No. 2 Interval Tested from 4738 ft. to 4761 ft. Total Depth 4761 ft.
 Packer Depth 4733 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4738 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4751 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4754 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Beredco Drlg. Rig #2 Drill Collar Length 310 I. D. 2 1/4 in.
 Mud Type premix-drispac Viscosity 43 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 16.0 cc. Drill Pipe Length 4404 I. D. 3.8 in.
 Chlorides 16,000 P.P.M. Test Tool Length 24 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 23 ft. Size 5 1/2 OD in.
 Did Well Flow? No Reversed Out Yes 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: Strong blow throughout flow period.

Recovered 3340 ft. of salt water Chlorides 96,000 ppm
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 11:35 ~~PM~~ A.M. Time Started Off Bottom 2:50 ~~PM~~ A.M. Maximum Temperature 128°
 Initial Hydrostatic Pressure 2367 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 269 P.S.I. to (C) 966 P.S.I.
 Initial Closed In Period 48 Minutes (D) 1788 P.S.I.
 Final Flow Period 60 Minutes (E) 1125 P.S.I. to (F) 1607 P.S.I.
 Final Closed In Period 60 Minutes (G) 1812 P.S.I.
 Final Hydrostatic Pressure 2356 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 10/26/81 Test Ticket No. 13072
 Recorder No. 2607 Capacity 4150 Location 4751 Ft.
 Clock No. -- Elevation --- Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2367</u> P.S.I.	Open Tool	<u>11:35A</u> M	
B First Initial Flow Pressure	<u>269</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>966</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>1788</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>1125</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>1607</u> P.S.I.			
G Final Closed-in Pressure	<u>1812</u> P.S.I.			
H Final Hydrostatic Mud	<u>2356</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 16 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>269</u>	<u>0</u>	<u>966</u>	<u>0</u>	<u>1125</u>	<u>0</u>	<u>1607</u>
P 2 <u>5</u>	<u>434</u>	<u>3</u>	<u>1571</u>	<u>5</u>	<u>1127</u>	<u>3</u>	<u>1699</u>
P 3 <u>10</u>	<u>552</u>	<u>6</u>	<u>1626</u>	<u>10</u>	<u>1173</u>	<u>6</u>	<u>1721</u>
P 4 <u>15</u>	<u>671</u>	<u>9</u>	<u>1662</u>	<u>15</u>	<u>1252</u>	<u>9</u>	<u>1737</u>
P 5 <u>20</u>	<u>791</u>	<u>12</u>	<u>1687</u>	<u>20</u>	<u>1322</u>	<u>12</u>	<u>1747</u>
P 6 <u>25</u>	<u>896</u>	<u>15</u>	<u>1710</u>	<u>25</u>	<u>1376</u>	<u>15</u>	<u>1754</u>
P 7 <u>30</u>	<u>966</u>	<u>18</u>	<u>1727</u>	<u>30</u>	<u>1418</u>	<u>18</u>	<u>1762</u>
P 8 _____		<u>21</u>	<u>1737</u>	<u>35</u>	<u>1460</u>	<u>21</u>	<u>1767</u>
P 9 _____		<u>24</u>	<u>1748</u>	<u>40</u>	<u>1494</u>	<u>24</u>	<u>1775</u>
P10 _____		<u>27</u>	<u>1758</u>	<u>45</u>	<u>1529</u>	<u>27</u>	<u>1779</u>
P11 _____		<u>30</u>	<u>1765</u>	<u>50</u>	<u>1563</u>	<u>30</u>	<u>1784</u>
P12 _____		<u>33</u>	<u>1771</u>	<u>55</u>	<u>1592</u>	<u>33</u>	<u>1788</u>
P13 _____		<u>36</u>	<u>1776</u>	<u>60</u>	<u>1607</u>	<u>36</u>	<u>1792</u>
P14 _____		<u>39</u>	<u>1778</u>			<u>39</u>	<u>1796</u>
P15 _____		<u>42</u>	<u>1781</u>			<u>42</u>	<u>1799</u>
P16 _____		<u>45</u>	<u>1785</u>			<u>45</u>	<u>1802</u>
P17 _____		<u>48</u>	<u>1788</u>			<u>48</u>	<u>1804</u>
P18 _____						<u>51</u>	<u>1806</u>
P19 _____						<u>54</u>	<u>1808</u>
P20 _____						<u>57</u>	<u>1810</u>
						<u>60</u>	<u>1812</u>