

Company Robert E. Campbell Oil & Gas Operations Lease & Well No. Benson-Yeager #2
 Elevation 1557 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 13052
 Date 10/ 5 /81 Sec. 9 Twp. 29S Range 6W County Kingman State Kansas
 Test Approved by Richard A. Robba Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 4071 ft. to 4094 ft. Total Depth 4094 ft.
 Packer Depth 4066 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4071 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4084 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4087 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Merckle Drlg. Rig #1 Drill Collar Length - I. D. - in.
 Mud Type premix Viscosity 49 Weight Pipe Length 566 I. D. 2.7 in.
 Weight 9.4 Water Loss 14.4 cc. Drill Pipe Length 3484 I. D. 3.8 in.
 Chlorides 15,000 P.P.M. Test Tool Length 21 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? Yes 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: Strong blow throughout test. Gas to surface in ten minutes on pre-flow. See attached sheet for gas measurements.

Recovered 120 ft. of muddy water
 Recovered 180 ft. of salt water (Chlorides 77,000 ppm)
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 10:30 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 2:15 ~~P.M.~~ ^{A.M.} Maximum Temperature 119°
 Initial Hydrostatic Pressure (A) 2078 P.S.I.
 Initial Flow Period Minutes 30 (B) 128 P.S.I. to (C) 128 P.S.I.
 Initial Closed In Period Minutes 45 (D) 1420 P.S.I.
 Final Flow Period Minutes 90 (E) 152 P.S.I. to (F) 168 P.S.I.
 Final Closed In Period Minutes 69 (G) 1395 P.S.I.
 Final Hydrostatic Pressure (H) 2050 P.S.I.

GAS FLOW REPORT

Date 10/5//81 Ticket 13052 Company Robert E. Campbell Oil & Gas Operations
 Well Name and No. Benson -Yeater #2 Dst No. 1 Interval Tested 4071'-4094'
 County Kingman State Kansas Sec. 9 Twp. 29S Rg. 6W

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
Gas to surface in ten minutes. PRE FLOW						
	15 min.	13" of water		1½" orifice		251,000 CFPD
	20 min.	16" of water		1½" orifice		278,000 CFPD
	30 min.	24" of water		1½" orifice		341,000 CFPD

SECOND FLOW						
	5 min.	38" of water		1½" orifice		429,000 CFPD
	10 min.	42" of water		1½" orifice		451,000 CFPD
	20 min.	46" of water		1½" orifice		473,000 CFPD
	30 min.	50" of water		1½" orifice		502,000 CFPD
	40 min.	52" of water		1½" orifice		521,000 CFPD
	50 min.	56" of water		1½" orifice		539,000 CFPD
	60 min.	60" of water		1½" orifice		539,000 CFPD
	70 min.	60" of water		1½" orifice		539,000 CFPD
	80 min.	60" of water		1½" orifice		539,000 CFPD
	90 min.	60" of water		1½" orifice		539,000 CFPD

GAS BOTTLE

Serial No. ---- Date Bottle Filled --- Date to be Invoiced 10/5/81

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.

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 Robert E. Campbell Oil & Gas Oper.

Authorized by Richard A. Robba

WESTERN TESTING CO., INC.
Pressure Data

Date 10/5/81 Test Ticket No. 13052
 Recorder No. 2607 Capacity 4150 Location 4084 Ft.
 Clock No. - Elevation 1557 Kelly Bushing Well Temperature 119 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2078</u>	P.S.I.	Open Tool	<u>10:30P</u>	<u>M</u>
B First Initial Flow Pressure	<u>128</u>	P.S.I.	First Flow Pressure	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>128</u>	P.S.I.	Initial Closed-in Pressure	<u>45</u>	Mins. <u>45</u> Mins.
D Initial Closed-in Pressure	<u>1420</u>	P.S.I.	Second Flow Pressure	<u>90</u>	Mins. <u>90</u> Mins.
E Second Initial Flow Pressure	<u>152</u>	P.S.I.	Final Closed-in Pressure	<u>60</u>	Mins. <u>69</u> Mins.
F Second Final Flow Pressure	<u>168</u>	P.S.I.			
G Final Closed-in Pressure	<u>1395</u>	P.S.I.			
H Final Hydrostatic Mud	<u>2050</u>	P.S.I.			

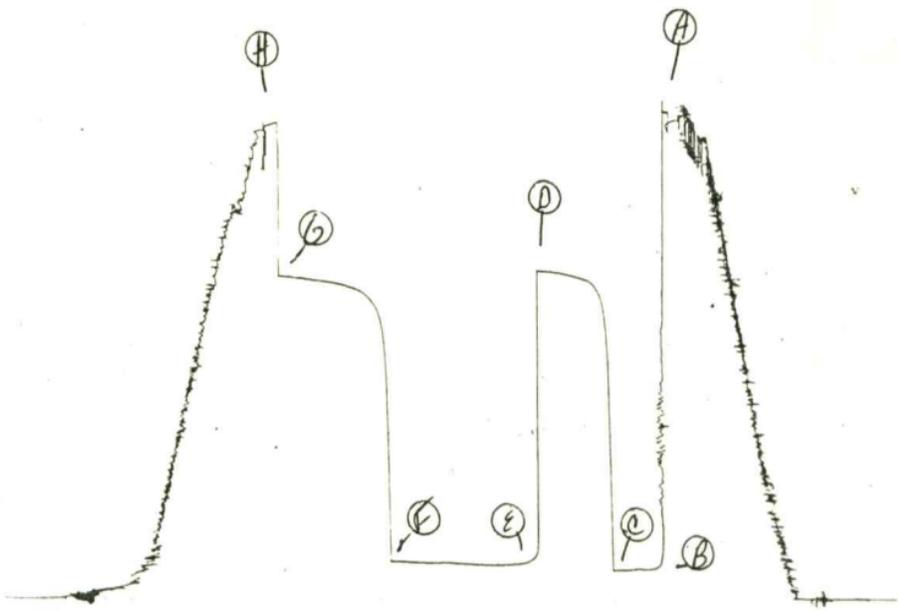
PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>18</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>23</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>128</u>	<u>0</u>	<u>128</u>	<u>0</u>	<u>152</u>	<u>0</u>	<u>168</u>
P 2 <u>5</u>	<u>128</u>	<u>3</u>	<u>998</u>	<u>5</u>	<u>152</u>	<u>3</u>	<u>937</u>
P 3 <u>10</u>	<u>128</u>	<u>6</u>	<u>1257</u>	<u>10</u>	<u>152</u>	<u>6</u>	<u>1167</u>
P 4 <u>15</u>	<u>128</u>	<u>9</u>	<u>1326</u>	<u>15</u>	<u>152</u>	<u>9</u>	<u>1247</u>
P 5 <u>20</u>	<u>128</u>	<u>12</u>	<u>1358</u>	<u>20</u>	<u>152</u>	<u>12</u>	<u>1282</u>
P 6 <u>25</u>	<u>128</u>	<u>15</u>	<u>1377</u>	<u>25</u>	<u>152</u>	<u>15</u>	<u>1308</u>
P 7 <u>30</u>	<u>128</u>	<u>18</u>	<u>1386</u>	<u>30</u>	<u>152</u>	<u>18</u>	<u>1325</u>
P 8 _____	_____	<u>21</u>	<u>1393</u>	<u>35</u>	<u>154</u>	<u>21</u>	<u>1339</u>
P 9 _____	_____	<u>24</u>	<u>1399</u>	<u>40</u>	<u>156</u>	<u>24</u>	<u>1346</u>
P10 _____	_____	<u>27</u>	<u>1405</u>	<u>45</u>	<u>158</u>	<u>27</u>	<u>1352</u>
P11 _____	_____	<u>30</u>	<u>1410</u>	<u>50</u>	<u>160</u>	<u>30</u>	<u>1359</u>
P12 _____	_____	<u>33</u>	<u>1414</u>	<u>55</u>	<u>161</u>	<u>33</u>	<u>1365</u>
P13 _____	_____	<u>36</u>	<u>1418</u>	<u>60</u>	<u>162</u>	<u>36</u>	<u>1368</u>
P14 _____	_____	<u>39</u>	<u>1419</u>	<u>65</u>	<u>163</u>	<u>39</u>	<u>1372</u>
P15 _____	_____	<u>42</u>	<u>1420</u>	<u>70</u>	<u>164</u>	<u>42</u>	<u>1375</u>
P16 _____	_____	<u>45</u>	<u>1420</u>	<u>75</u>	<u>165</u>	<u>45</u>	<u>1378</u>
P17 _____	_____	_____	_____	<u>80</u>	<u>166</u>	<u>48</u>	<u>1380</u>
P18 _____	_____	_____	_____	<u>85</u>	<u>167</u>	<u>51</u>	<u>1383</u>
P19 _____	_____	_____	_____	<u>90</u>	<u>168</u>	<u>54</u>	<u>1386</u>
P20 _____	_____	_____	_____	_____	_____	<u>57</u>	<u>1388</u>
						<u>60</u>	<u>1390</u>
						<u>63</u>	<u>1392</u>
						<u>66</u>	<u>1394</u>
						<u>69</u>	<u>1395</u>

TK# 13052

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Company Robert E. Campbell Oil & Gas Operations Lease & Well No. Benson-Yeager #2
 Elevation 1557 Kelly Bushing Formation - Effective Pay - Ft. Ticket No. 13053
 Date 10/ 6 /81 Sec. 9 Twp. 29S Range 6W County Kingman State Kansas
 Test Approved by Richard A. Robba Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 4103 ft. to 4118 ft. Total Depth 4118 ft.
 Packer Depth 4098 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4103 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4108 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4111 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Merckle Drlg. Rig #1 Drill Collar Length - I. D. - in.
 Mud Type premix Viscosity 42 Weight Pipe Length 566 I. D. 2.7 in.
 Weight 9.5 Water Loss 20.4 cc. Drill Pipe Length - I. D. 3.8 in.
 Chlorides 18,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 15 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: Strong blow throughout test.

Recovered 90 ft. of oil cut mud (slightly gas cut) (15% oil)
 Recovered 490 ft. of salt water (Chlorides 100,000 ppm)
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 1:40 AM Time Started Off Bottom 4:55 AM Maximum Temperature 119°
 Initial Hydrostatic Pressure 2101 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 102 P.S.I. to (C) 116 P.S.I.
 Initial Closed In Period 45 Minutes (D) 1290 P.S.I.
 Final Flow Period 60 Minutes (E) 218 P.S.I. to (F) 238 P.S.I.
 Final Closed In Period 60 Minutes (G) 1290 P.S.I.
 Final Hydrostatic Pressure 2101 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

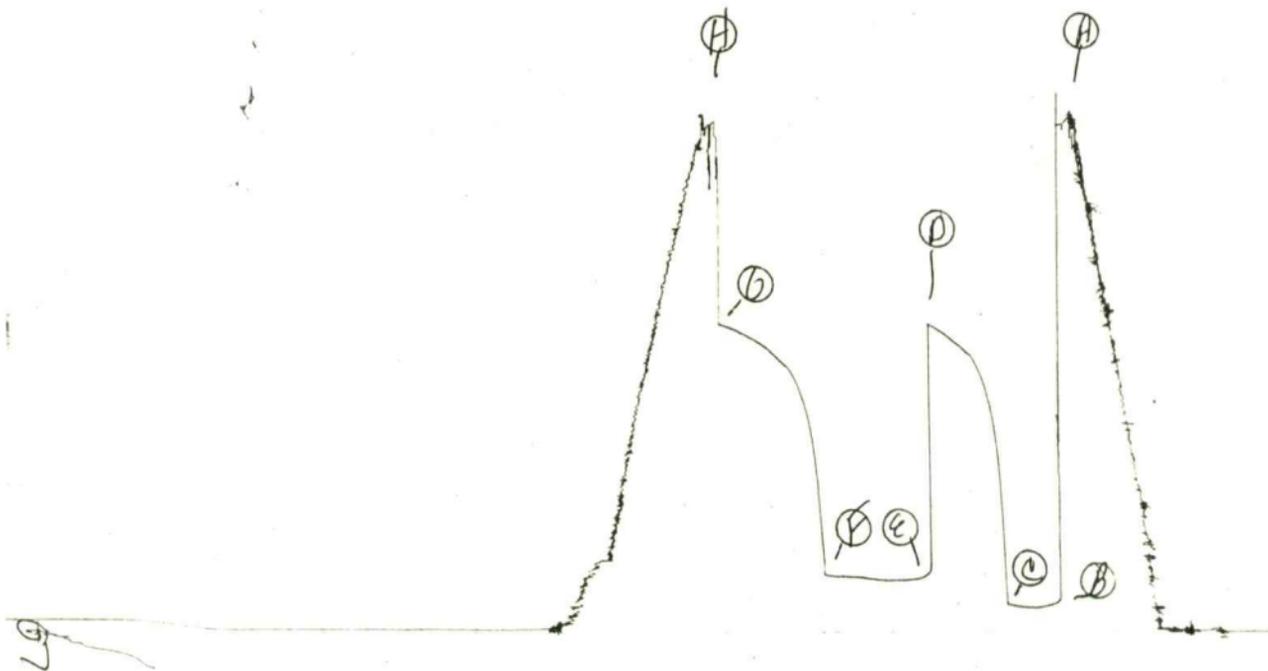
Date 10/6/81 Test Ticket No. 13053
 Recorder No. 2607 Capacity 4150 Location 4108 Ft.
 Clock No. - Elevation 1557 Kelly Bushing Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2101</u> P.S.I.	Open Tool	<u>1:40P</u>	<u>M</u>
B. First Initial Flow Pressure	<u>102</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>116</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D. Initial Closed-in Pressure	<u>1290</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E. Second Initial Flow Pressure	<u>218</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F. Second Final Flow Pressure	<u>238</u> P.S.I.			
G. Final Closed-in Pressure	<u>1290</u> P.S.I.			
H. Final Hydrostatic Mud	<u>2101</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>6</u> mins. and a final inc. of <u>0</u> Min.		of <u>15</u> mins. and a final inc. of <u>0</u> Min.		of <u>12</u> mins. and a final inc. of <u>0</u> Min.		of <u>20</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>102</u>	<u>0</u>	<u>116</u>	<u>0</u>	<u>218</u>	<u>0</u>	<u>238</u>	
P 2 <u>5</u>	<u>102</u>	<u>3</u>	<u>608</u>	<u>5</u>	<u>218</u>	<u>3</u>	<u>619</u>	
P 3 <u>10</u>	<u>102</u>	<u>6</u>	<u>837</u>	<u>10</u>	<u>218</u>	<u>6</u>	<u>792</u>	
P 4 <u>15</u>	<u>102</u>	<u>9</u>	<u>960</u>	<u>15</u>	<u>218</u>	<u>9</u>	<u>911</u>	
P 5 <u>20</u>	<u>104</u>	<u>12</u>	<u>1033</u>	<u>20</u>	<u>218</u>	<u>12</u>	<u>984</u>	
P 6 <u>25</u>	<u>108</u>	<u>15</u>	<u>1090</u>	<u>25</u>	<u>218</u>	<u>15</u>	<u>1041</u>	
P 7 <u>30</u>	<u>116</u>	<u>18</u>	<u>1131</u>	<u>30</u>	<u>218</u>	<u>18</u>	<u>1082</u>	
P 8		<u>21</u>	<u>1161</u>	<u>35</u>	<u>223</u>	<u>21</u>	<u>1112</u>	
P 9		<u>24</u>	<u>1182</u>	<u>40</u>	<u>230</u>	<u>24</u>	<u>1131</u>	
P10		<u>27</u>	<u>1201</u>	<u>45</u>	<u>232</u>	<u>27</u>	<u>1153</u>	
P11		<u>30</u>	<u>1221</u>	<u>50</u>	<u>234</u>	<u>30</u>	<u>1173</u>	
P12		<u>33</u>	<u>1237</u>	<u>55</u>	<u>236</u>	<u>33</u>	<u>1192</u>	
P13		<u>36</u>	<u>1254</u>	<u>60</u>	<u>238</u>	<u>36</u>	<u>1209</u>	
P14		<u>39</u>	<u>1269</u>			<u>39</u>	<u>1223</u>	
P15		<u>42</u>	<u>1281</u>			<u>42</u>	<u>1233</u>	
P16		<u>45</u>	<u>1290</u>			<u>45</u>	<u>1247</u>	
P17						<u>48</u>	<u>1257</u>	
P18						<u>51</u>	<u>1267</u>	
P19						<u>54</u>	<u>1277</u>	
P20						<u>57</u>	<u>1284</u>	
						<u>60</u>	<u>1290</u>	

TKT # 13053
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Company Robert E. Campbell Oil & Gas Operations Lease & Well No. Benson-Yeager #2
 Elevation 1557 Kelly Bushing Formation Misener Effective Pay - Ft. Ticket No. 13054
 Date 10/8/81 Sec. 9 Twp. 29S Range 6W County Kingman State Kansas
 Test Approved by Richard A. Robba Western Representative Jim Wondra

Formation Test No. 3 Interval Tested from 4418 ft. to 4455 ft. Total Depth 4455 ft.
 Packer Depth 4413 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4418 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4445 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4448 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Merckle Drlg. Rig #1 Drill Collar Length - I. D. - in.
 Mud Type premix Viscosity 48 Weight Pipe Length 566 I. D. 2.7 in.
 Weight 9.5 Water Loss 12.0 cc. Drill Pipe Length 3831 I. D. 3.8 in.
 Chlorides 19,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 37 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: Weak blow throughout initial flow period. No blow on final flow period.

Recovered 40 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 2:10 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 4:40 ~~P.M.~~ ^{A.M.} Maximum Temperature 123°
 Initial Hydrostatic Pressure (A) 2236 P.S.I.
 Initial Flow Period Minutes 30 (B) 77 P.S.I. to (C) 77 P.S.I.
 Initial Closed In Period Minutes 45 (D) 76 P.S.I.
 Final Flow Period Minutes 30 (E) 76 P.S.I. to (F) 76 P.S.I.
 Final Closed In Period Minutes 48 (G) 76 P.S.I.
 Final Hydrostatic Pressure (H) 2224 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 10/8/81 Test Ticket No. 13054
 Recorder No. 2607 Capacity 4150 Location 4445 Ft.
 Clock No. - Elevation 1557 Kelly Bushing Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2236</u> P.S.I.	Open Tool	<u>2:10A</u> M	
B. First Initial Flow Pressure	<u>77</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>77</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D. Initial Closed-in Pressure	<u>76</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E. Second Initial Flow Pressure	<u>76</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
F. Second Final Flow Pressure	<u>76</u> P.S.I.			
G. Final Closed-in Pressure	<u>76</u> P.S.I.			
H. Final Hydrostatic Mud	<u>2224</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>0</u> Min.		of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>77</u>	<u>0</u>	<u>77</u>	<u>0</u>	<u>76</u>	<u>0</u>	<u>76</u>	
P 2 <u>5</u>	<u>77</u>	<u>3</u>	<u>76</u>	<u>5</u>	<u>76</u>	<u>3</u>	<u>76</u>	
P 3 <u>10</u>	<u>77</u>	<u>6</u>	<u>76</u>	<u>10</u>	<u>76</u>	<u>6</u>	<u>76</u>	
P 4 <u>15</u>	<u>77</u>	<u>9</u>	<u>76</u>	<u>15</u>	<u>76</u>	<u>9</u>	<u>76</u>	
P 5 <u>20</u>	<u>77</u>	<u>12</u>	<u>76</u>	<u>20</u>	<u>76</u>	<u>12</u>	<u>76</u>	
P 6 <u>25</u>	<u>77</u>	<u>15</u>	<u>76</u>	<u>25</u>	<u>76</u>	<u>15</u>	<u>76</u>	
P 7 <u>30</u>	<u>77</u>	<u>18</u>	<u>76</u>	<u>30</u>	<u>76</u>	<u>18</u>	<u>76</u>	
P 8		<u>21</u>	<u>76</u>			<u>21</u>	<u>76</u>	
P 9		<u>24</u>	<u>76</u>			<u>24</u>	<u>76</u>	
P10		<u>27</u>	<u>76</u>			<u>27</u>	<u>76</u>	
P11		<u>30</u>	<u>76</u>			<u>30</u>	<u>76</u>	
P12		<u>33</u>	<u>76</u>			<u>33</u>	<u>76</u>	
P13		<u>36</u>	<u>76</u>			<u>36</u>	<u>76</u>	
P14		<u>39</u>	<u>76</u>			<u>39</u>	<u>76</u>	
P15		<u>42</u>	<u>76</u>			<u>42</u>	<u>76</u>	
P16		<u>45</u>	<u>76</u>			<u>45</u>	<u>76</u>	
P17						<u>48</u>	<u>76</u>	
P18								
P19								
P20								

TKT # 13054

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