

Company McCoy Petroleum Corporation Lease & Well No. Hartshorn "C" #1
Elevation ----- Formation Mississippi Effective Pay - Ft. Ticket No. 8460
Date 11/29/80 Sec. 36 Twp. 29S Range 9W County Harper State Kansas
Test Approved by Robert E. McCann Western Representative Jim Wondra
Formation Test No. 1 Interval Tested from 4197 ft. to 4216 ft. Total Depth 4216 ft.
Packer Depth 4192 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4197 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4206 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 4209 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Sweetman Drlg. Rig #1 Drill Collar Length 270 I. D. 2 1/4 in.
Mud Type - Viscosity 50 Weight Pipe Length - I. D. - in.
Weight 9.4 Water Loss 8.2 cc. Drill Pipe Length 3906 I. D. 3.8 in.
Chlorides - P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 19 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.

Strong blow throughout flow periods. Gas to surface in forty-five minutes
Blow: on second flow. See attached sheet for gas measurements.

30 gas cut mud
Recovered 30 ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks:

Time Set Packer(s) 12:15 ~~A.M.~~ P.M. Time Started Off Bottom 4:00 ~~A.M.~~ P.M. Maximum Temperature 122°
Initial Hydrostatic Pressure 2270 P.S.I. (A)
Initial Flow Period 30 Minutes (B) 44 P.S.I. to (C) 44 P.S.I.
Initial Closed In Period 45 Minutes (D) 1295 P.S.I.
Final Flow Period 90 Minutes (E) 30 P.S.I. to (F) 30 P.S.I.
Final Closed In Period 60 Minutes (G) 1334 P.S.I.
Final Hydrostatic Pressure 2228 P.S.I. (H)

GAS FLOW REPORT

Date 11/29/80 Ticket 8460 Company McCoy Petroleum Corporation
 Well Name and No. Hartshorn "C" #1 Dst No. 1 Interval Tested 4197-4216'
 County Harper State Kansas Sec. 36 Twp. 29S Rg. 9W

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
PRE FLOW						

SECOND FLOW						
Gas to surface in forty-five minutes.						
50 min.	3"	of water	1/4"	orifice	2,920	CFPD
60 min.	3"	of water	1/4"	orifice	2,920	CFPD
70 min.	3.4"	of water	1/4"	orifice	3,110	CFPD
80 min.	3.4"	of water	1/4"	orifice	3,110	CFPD
90 min.	3.4"	of water	1/4"	orifice	3,110	CFPD

GAS BOTTLE

Serial No. -- Date Bottle Filled --- Date to be Invoiced 11/29/80

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 1½% 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 McCoy Petroleum Corporation

Authorized by Robert E. McCann

WESTERN TESTING CO., INC.

Pressure Data

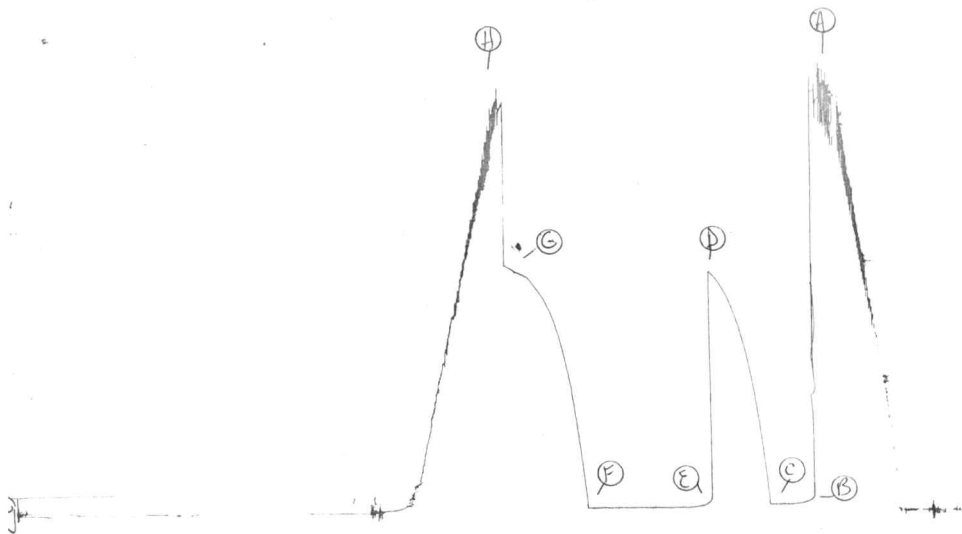
Date 11/29/80 Test Ticket No. 8460
 Recorder No. 2607 Capacity 4150 Location 4206 Ft.
 Clock No. - Elevation = Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2270</u>	P.S.I.	<u>12:15P</u> M	
B First Initial Flow Pressure	<u>44</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>44</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1295</u>	P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>30</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>30</u>	P.S.I.		
G Final Closed-in Pressure	<u>1334</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2228</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>18</u> Inc.		Breakdown: <u>20</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 <u>0</u>	<u>44</u>	<u>0</u>	<u>44</u>	<u>0</u>	<u>30</u>	<u>0</u>	<u>30</u>
P 2 <u>5</u>	<u>44</u>	<u>3</u>	<u>220</u>	<u>5</u>	<u>30</u>	<u>3</u>	<u>199</u>
P 3 <u>10</u>	<u>44</u>	<u>6</u>	<u>369</u>	<u>10</u>	<u>30</u>	<u>6</u>	<u>351</u>
P 4 <u>15</u>	<u>44</u>	<u>9</u>	<u>502</u>	<u>15</u>	<u>30</u>	<u>9</u>	<u>506</u>
P 5 <u>20</u>	<u>44</u>	<u>12</u>	<u>631</u>	<u>20</u>	<u>30</u>	<u>12</u>	<u>654</u>
P 6 <u>25</u>	<u>44</u>	<u>15</u>	<u>745</u>	<u>25</u>	<u>30</u>	<u>15</u>	<u>758</u>
P 7 <u>30</u>	<u>44</u>	<u>18</u>	<u>847</u>	<u>30</u>	<u>30</u>	<u>18</u>	<u>868</u>
P 8		<u>21</u>	<u>931</u>	<u>35</u>	<u>30</u>	<u>21</u>	<u>950</u>
P 9		<u>24</u>	<u>1004</u>	<u>40</u>	<u>30</u>	<u>24</u>	<u>1020</u>
P10		<u>27</u>	<u>1069</u>	<u>45</u>	<u>30</u>	<u>27</u>	<u>1081</u>
P11		<u>30</u>	<u>1123</u>	<u>50</u>	<u>30</u>	<u>30</u>	<u>1125</u>
P12		<u>33</u>	<u>1171</u>	<u>55</u>	<u>30</u>	<u>33</u>	<u>1163</u>
P13		<u>36</u>	<u>1209</u>	<u>60</u>	<u>30</u>	<u>36</u>	<u>1196</u>
P14		<u>39</u>	<u>1244</u>	<u>65</u>	<u>30</u>	<u>39</u>	<u>1226</u>
P15		<u>42</u>	<u>1272</u>	<u>70</u>	<u>30</u>	<u>42</u>	<u>1253</u>
P16		<u>45</u>	<u>1295</u>	<u>75</u>	<u>30</u>	<u>45</u>	<u>1276</u>
P17				<u>80</u>	<u>30</u>	<u>48</u>	<u>1286</u>
P18				<u>85</u>	<u>30</u>	<u>51</u>	<u>1297</u>
P19				<u>90</u>	<u>30</u>	<u>54</u>	<u>1309</u>
P20						<u>57</u>	<u>1322</u>
						<u>60</u>	<u>1334</u>

TKT # 8460
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Company McCoy Petroleum Corporation Lease & Well No. Hartshorn "C" #1
Elevation ----- Formation Mississippi Effective Pay --- Ft. Ticket No. 8461
Date 11/30/80 Sec. 36 Twp. 29S Range 9W County Kingman State Kansas
Test Approved by Robert E. McCann Western Representative Jim Wondra
Formation Test No. 2 Interval Tested from 4216 ft. to 4282 ft. Total Depth 4282 ft.
Packer Depth 4211 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4216 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4241 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 4244 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Sweetman Drlg. Rig #1 Drill Collar Length 248 I. D. 2 1/4 in.
Mud Type - Viscosity 49 Weight Pipe Length - I. D. - in.
Weight 9.4 Water Loss 10.0 cc. Drill Pipe Length 3947 I. D. 3.8 in.
Chlorides - P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD n.
Jars: Make - Serial Number - Anchor Length 66 ft. Size 5 1/2 OD n.
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 n.

Blow: Strong blow throughout initial flow period. Weak blow throughout final flow period.

Recovered 320 ft. of slightly gas cut mud
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -

Remarks: -

Time Set Packer(s) 7:00 A.M. =P.M.= Time Started Off Bottom 10:15 A.M. =P.M.= Maximum Temperature 123°
Initial Hydrostatic Pressure 2286 P.S.I. (A)
Initial Flow Period 30 Minutes (B) 144 P.S.I. to (C) 195 P.S.I.
Initial Closed In Period 42 Minutes (D) 354 P.S.I.
Final Flow Period 60 Minutes (E) 218 P.S.I. to (F) 218 P.S.I.
Final Closed In Period 60 Minutes (G) 293 P.S.I.
Final Hydrostatic Pressure 2202 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 11/30/80 Recorder No. 2607 Capacity 4150 Test Ticket No. 8461 Location 4241 Ft.
 Clock No. - Elevation ---- Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2286	P.S.I.	7:00A	M
B First Initial Flow Pressure	144	P.S.I.	30	Mins.
C First Final Flow Pressure	195	P.S.I.	45	Mins.
D Initial Closed-in Pressure	354	P.S.I.	60	Mins.
E Second Initial Flow Pressure	218	P.S.I.	60	Mins.
F Second Final Flow Pressure	218	P.S.I.		
G Final Closed-in Pressure	293	P.S.I.		
H Final Hydrostatic Mud	2202	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</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 <u>0</u>	<u>144</u>	<u>0</u>	<u>195</u>	<u>0</u>	<u>218</u>	<u>0</u>	<u>218</u>
P 2 <u>5</u>	<u>144</u>	<u>3</u>	<u>195</u>	<u>5</u>	<u>218</u>	<u>3</u>	<u>218</u>
P 3 <u>10</u>	<u>144</u>	<u>6</u>	<u>203</u>	<u>10</u>	<u>221</u>	<u>6</u>	<u>218</u>
P 4 <u>15</u>	<u>144</u>	<u>9</u>	<u>211</u>	<u>15</u>	<u>218</u>	<u>9</u>	<u>222</u>
P 5 <u>20</u>	<u>201</u>	<u>12</u>	<u>224</u>	<u>20</u>	<u>218</u>	<u>12</u>	<u>226</u>
P 6 <u>25</u>	<u>199</u>	<u>15</u>	<u>239</u>	<u>25</u>	<u>218</u>	<u>15</u>	<u>231</u>
P 7 <u>30</u>	<u>195</u>	<u>18</u>	<u>252</u>	<u>30</u>	<u>218</u>	<u>18</u>	<u>237</u>
P 8		<u>21</u>	<u>265</u>	<u>35</u>	<u>218</u>	<u>21</u>	<u>241</u>
P 9		<u>24</u>	<u>275</u>	<u>40</u>	<u>218</u>	<u>24</u>	<u>245</u>
P10		<u>27</u>	<u>290</u>	<u>45</u>	<u>218</u>	<u>27</u>	<u>249</u>
P11		<u>30</u>	<u>303</u>	<u>50</u>	<u>218</u>	<u>30</u>	<u>252</u>
P12		<u>33</u>	<u>316</u>	<u>55</u>	<u>218</u>	<u>33</u>	<u>258</u>
P13		<u>36</u>	<u>328</u>	<u>60</u>	<u>218</u>	<u>36</u>	<u>260</u>
P14		<u>39</u>	<u>341</u>			<u>39</u>	<u>264</u>
P15		<u>42</u>	<u>354</u>			<u>42</u>	<u>267</u>
P16						<u>45</u>	<u>271</u>
P17						<u>48</u>	<u>276</u>
P18						<u>51</u>	<u>280</u>
P19						<u>54</u>	<u>284</u>
P20						<u>57</u>	<u>289</u>
						<u>60</u>	<u>293</u>

TKT # 8461
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