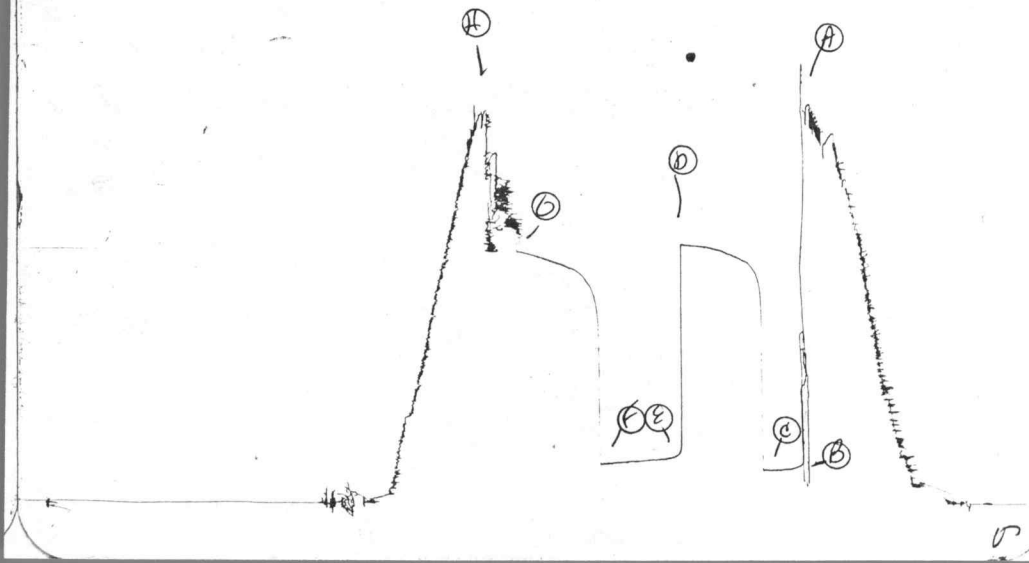


TK # 13744

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Company Keener Oil Company Lease & Well No. Covington #2
 Elevation 1649 Kelly Bushing Mississippi Formation Effective Pay - Ft. Ticket No. 13744
 Date 12/9/81 Sec. 27 Twp. 28S Range 8W County Kingman State Kansas
 Test Approved by Bernard L. Henze Western Representative Jim Wondra
 Formation Test No. 1 Interval Tested from 4105 ft. to 4112 ft. Total Depth 4112 ft.
 Packer Depth 4100 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4105 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4088 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4108 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Kaw Drilling Rig #1 Drill Collar Length - I. D. - in.
 Mud Type chemical-driscopac Viscosity 115 Weight Pipe Length 306 I. D. 2.7 in.
 Weight 9.3 Water Loss 12.8 cc. Drill Pipe Length 3764 I. D. 3.8 in.
 Chlorides 16,000 P.P.M. Test Tool Length 35 ft. Tool Size 5 1/2 OD in.
 Jars: Make WIC Serial Number 410 Anchor Length 7 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 flow period. Gas to surface in three minutes on pre-flow.
See attached sheet for gas measurements.

Recovered 40 ft. of muddy water
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 9:45 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 1:15 ~~P.M.~~ ^{A.M.} Maximum Temperature 120°
 Initial Hydrostatic Pressure _____ (A) 2146 P.S.I.
 Initial Flow Period _____ Minutes 30 (B) 194 P.S.I. to (C) 194 P.S.I.
 Initial Closed In Period _____ Minutes 60 (D) 1414 P.S.I.
 Final Flow Period _____ Minutes 60 (E) 271 P.S.I. to (F) 229 P.S.I.
 Final Closed In Period _____ Minutes 60 (G) 1375 P.S.I.
 Final Hydrostatic Pressure _____ (H) 2122 P.S.I.

GAS FLOW REPORT

Date 12/9/81 Ticket 13744 Company Keener Oil Company
 Well Name and No. Covington #2 Dst No. 1 Interval Tested 4105'-4112'
 County Kingman State Kansas Sec. 27 Twp. 28S Rg. 8W

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						
Gas to surface in three minutes.						
	5 min.	4.0 PSIG	1½" orifice			764,000 CFPD
	10 min.	5.0 PSIG	1½" orifice			863,000 CFPD
	20 min.	6.0 PSIG	1½" orifice			953,000 CFPD
	30 min.	7.0 PSIG	1½" orifice			1,036,000 CFPD

SECOND FLOW						
	10 min.	8.0 PSIG	1½" orifice			1,123,000 CFPD
	20 min.	8.0 PSIG	1½" orifice			1,123,000 CFPD
	30 min.	8.0 PSIG	1½" orifice			1,123,000 CFPD
	40 min.	8.0 PSIG	1½" orifice			1,123,000 CFPD
	50 min.	7.5 PSIG	1½" orifice			1,080,000 CFPD
	60 min.	7.5 PSIG	1½" orifice			1,080,000 CFPD

GAS BOTTLE

Serial No. --- Date Bottle Filled --- Date to be Invoiced 12/9/81

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 Keener Oil Company

Authorized by Bernard L. Henze

WESTERN TESTING CO., INC.
Pressure Data

Date 12/9/81 Test Ticket No. 13744
 Recorder No. 2607 Capacity 4150 Location 4088 Ft.
 Clock No. - Elevation 1649 Kelly Bushing Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2146	P.S.I.	9:45A	M
B First Initial Flow Pressure	194	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	194	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1414	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	271	P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	228	P.S.I.		
G Final Closed-in Pressure	1375	P.S.I.		
H Final Hydrostatic Mud	2122	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: 20 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	194	0	194	0	271	0	229
P 2 5	194	3	1196	5	271	3	109
P 3 10	194	6	1261	10	260	6	1167
P 4 15	194	9	1294	15	255	9	1205
P 5 20	194	12	1318	20	250	12	1236
P 6 25	194	15	1327	25	247	15	1260
P 7 30	194	18	1339	30	243	18	1277
P 8		21	1349	35	241	21	1287
P 9		24	1359	40	239	24	1296
P10		27	1368	45	237	27	1306
P11		30	1378	50	234	30	1314
P12		33	1385	55	231	33	1320
P13		36	1390	60	229	36	1327
P14		39	1396			39	1335
P15		42	1401			42	1343
P16		45	1403			45	1351
P17		48	1406			48	1356
P18		51	1408			51	1362
P19		54	1410			54	1369
P20		57	1412			57	1374
		60	1414			60	1375

WESTERN TESTING CO., INC.

Pressure Data

Date 12-9-81 Test Ticket No. 13744
 Recorder No. 2607 Capacity 4150 Location 4088 Ft.
 Clock No. --- Elevation 1649 KB Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2146</u>	P.S.I.	<u>9:45 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>194</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>194</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1414</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>271</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>229</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
G Final Closed-in Pressure	<u>1375</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2122</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: 20 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>194</u>	<u>0</u>	<u>194</u>	<u>0</u>	<u>271</u>	<u>0</u>	<u>229</u>
P 2 <u>5</u>		<u>3</u>	<u>1196</u>	<u>5</u>	<u>271</u>	<u>3</u>	<u>1090</u>
P 3 <u>10</u>		<u>6</u>	<u>1261</u>	<u>10</u>	<u>260</u>	<u>6</u>	<u>1167</u>
P 4 <u>15</u>		<u>9</u>	<u>1294</u>	<u>15</u>	<u>255</u>	<u>9</u>	<u>1205</u>
P 5 <u>20</u>		<u>12</u>	<u>1318</u>	<u>20</u>	<u>250</u>	<u>12</u>	<u>1236</u>
P 6 <u>25</u>		<u>15</u>	<u>1338</u>	<u>25</u>	<u>247</u>	<u>15</u>	<u>1260</u>
P 7 <u>30</u>	<u>194</u>	<u>18</u>	<u>1339</u>	<u>30</u>	<u>243</u>	<u>18</u>	<u>1277</u>
P 8 <u>35</u>		<u>21</u>	<u>1349</u>	<u>35</u>	<u>241</u>	<u>21</u>	<u>1287</u>
P 9 <u>40</u>		<u>24</u>	<u>1359</u>	<u>40</u>	<u>239</u>	<u>24</u>	<u>1296</u>
P10 <u>45</u>		<u>27</u>	<u>1368</u>	<u>45</u>	<u>237</u>	<u>27</u>	<u>1306</u>
P11 <u>50</u>		<u>30</u>	<u>1378</u>	<u>50</u>	<u>234</u>	<u>30</u>	<u>1314</u>
P12 <u>55</u>		<u>33</u>	<u>1385</u>	<u>55</u>	<u>231</u>	<u>33</u>	<u>1320</u>
P13 <u>60</u>		<u>36</u>	<u>1390</u>	<u>60</u>	<u>229</u>	<u>36</u>	<u>1327</u>
P14		<u>39</u>	<u>1396</u>	<u>65</u>		<u>39</u>	<u>1335</u>
P15		<u>42</u>	<u>1401</u>	<u>70</u>		<u>42</u>	<u>1343</u>
P16		<u>45</u>	<u>1403</u>	<u>75</u>		<u>45</u>	<u>1351</u>
P17		<u>48</u>	<u>1406</u>	<u>80</u>		<u>48</u>	<u>1356</u>
P18		<u>51</u>	<u>1408</u>	<u>85</u>		<u>51</u>	<u>1362</u>
P19		<u>54</u>	<u>1410</u>	<u>90</u>		<u>54</u>	<u>1369</u>
P20		<u>57</u>	<u>1412</u>			<u>57</u>	<u>1374</u>
		<u>60</u>	<u>1414</u>			<u>60</u>	<u>1375</u>



No 2242

GAS FLOW REPORT

Date 12/9/81 Ticket 13744 Company Keener Oil Co
 Well Name and No. Covington #2 Dst No. 1 Interval Tested 4105-4112
 County Kingman State Ks Sec. 27 Twp. 28 Rg. 8

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

Gas to surface in 3 min

5	4 lbs	1 1/2"			764,000 C.F.P.D.
10	5 "	"			863,000 "
20	6 "	"			953,000 "
30	7 "	"			1,036,000 "

SECOND FLOW

10	8 lbs	1 1/2"			1,123,000 C.F.P.D.
20	"	"			" "
30	"	"			" "
40	"	"			" "
50	7.5 "	"			1,080,000 "
60	"	"			" "

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 _____