



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO 6881

P. O. BOX 1599 WICHITA, KANSAS 67201 PHONE (316) 838-0601

Elevation 1533' K.B. welling Formation MISSISSIPPI Eff. Pay Ft.

District PPAH Date 10-26-80 Customer Order No.

COMPANY NAME PICKERIL Doby Co

ADDRESS 217 W. Bldg - Suite 201, 110 N. MARKET, WICHITA, KANS. 67202

LEASE AND WELL NO. Hageman #3 COUNTY KINGMAN STATE KS Sec. 6 Twp. 30 Rge. 8W

Mail Invoice To Same Hageman #3 Co. Name Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 1

Formation Test No. #1 Interval Tested from 4150 ft. to 4170 ft. Total Depth 4170 ft.

Packer Depth 4145 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4150 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4160 ft. Recorder Number 1566 Cap 4300

Bottom Recorder Depth (Outside) 4170 ft. Recorder Number 3086 Cap 4500

Below Straddle Recorder Depth ft. Recorder Number Cap

Drilling Contractor PICKERIL Doby Co. Rig #10 Drill Collar Length 60 I. D. 2.2 in.

Mud Type DRIS-pal Viscosity 63 Weight Pipe Length 560 I. D. 3.2 in.

Weight 9.3 Water Loss 9.2 cc. Drill Pipe Length 5510 I. D. 3.8 in.

Chlorides 14,000 P.P.M. Test Tool Length 20 ft. Tool Size 5/20.0 in.

Jars: Make WTC Serial Number 101 Anchor Length 20 ft. Size 5/20.0 in.

Did Well Flow? yes Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Initial Flow Period Main Hole Size 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Good blow strong 2" 7 1/2" P. Initial flow period 8" 5" Attached below chart for gas measurements

Recovered 20 ft. of GCM Gas Cut Mud

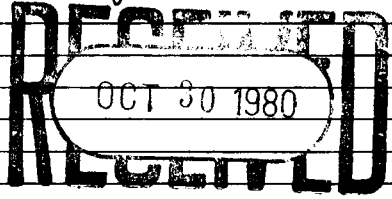
Recovered 120 ft. of GCM dry mud

Recovered ft. of Gas Cut Watery mud

Recovered ft. of

Recovered ft. of

Remarks:



ON Loc @ 3:00 pm Takeup @ 6:00 pm Test In @ 2:30 AM Off Loc @

Time Set Packer(s) 7:28 P.M. Time Started Off Bottom 11:28 P.M. Maximum Temperature 102 F

Initial Hydrostatic Pressure (A) 2015 P.S.I.

Initial Flow Period Minutes 30 (B) 32 P.S.I. to (C) 43 P.S.I.

Initial Closed In Period Minutes 60 (D) 34 P.S.I.

Final Flow Period Minutes 80 (E) 54 P.S.I. to (F) 75 P.S.I.

Final Closed In Period Minutes 90 (G) 33 P.S.I.

Final Hydrostatic Pressure (H) 1982 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 Greg Issinghoff Signature of Customer or his authorized representative

Western Representative [Signature]

FIELD INVOICE

Open Hole Test \$ 600.00
Misrun \$
Straddle Test \$
Jars \$ 300.00
Selective Zone \$
Safety Joint \$ 50.00
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage 55 \$ 41.25
Fluid Sampler \$
Extra Charts \$

TOTAL \$ 991.25



No 2207

GAS FLOW REPORT

Date 10-26-80 Ticket #6881 Company PICKRELL OIL CO.
Well Name and No. Hogman #3 Dst No. #1 Interval Tested 4150-4170
County Kingman State KANS. Sec. 6 Twp. 30S Rg. 8W

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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G.T.S. 18"

PRE FLOW

20"	2#	1/8"	✗		3,920 CFPD
25"	8#	1/8"			8,300 CFPD
30"	12#	1/8"			10,500 CFPD

SECOND FLOW

10"	16#	1/8"	✗		12,500 CFPD
20"	22#	1/8"			12,500 CFPD
30"	23#	1/8"			12,900 CFPD
40"	23#	1/8"			12,900 CFPD
50"	23#	1/8"			12,900 CFPD
60"	23"	1/8"			15,900 CFPD

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 10-26

Test Ticket No. 6881

Recorder No. 1566

Capacity 4300

Location 4160 Ft.

Clock No. _____ Elevation 1533 KB

Well Temperature 102 °F

Point	Pressure	Open Tool	Time	Time
			Given	Computed
A Initial Hydrostatic Mud	<u>2009</u> P.S.I.		<u>7:28</u> P _M	
B First Initial Flow Pressure	<u>28</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>37</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>337</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>48</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>75</u> P.S.I.			
G Final Closed-in Pressure	<u>328</u> P.S.I.			
H Final Hydrostatic Mud	<u>1983</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>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>30</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>0</u>	<u>37</u>	<u>0</u>	<u>48</u>	<u>0</u>	<u>75</u>
P 2	<u>5</u>	<u>3</u>	<u>259</u>	<u>5</u>	<u>50</u>	<u>3</u>	<u>231</u>
P 3	<u>10</u>	<u>6</u>	<u>294</u>	<u>10</u>	<u>54</u>	<u>6</u>	<u>268</u>
P 4	<u>15</u>	<u>9</u>	<u>307</u>	<u>15</u>	<u>57</u>	<u>9</u>	<u>283</u>
P 5	<u>20</u>	<u>12</u>	<u>318</u>	<u>20</u>	<u>60</u>	<u>12</u>	<u>292</u>
P 6	<u>25</u>	<u>15</u>	<u>322</u>	<u>25</u>	<u>62</u>	<u>15</u>	<u>298</u>
P 7	<u>30</u>	<u>18</u>	<u>324</u>	<u>30</u>	<u>65</u>	<u>18</u>	<u>302</u>
P 8	<u>35</u>	<u>21</u>	<u>327</u>	<u>35</u>	<u>67</u>	<u>21</u>	<u>305</u>
P 9	<u>40</u>	<u>24</u>	<u>329</u>	<u>40</u>	<u>71</u>	<u>24</u>	<u>307</u>
P10	<u>45</u>	<u>27</u>	<u>331</u>	<u>45</u>	<u>71</u>	<u>27</u>	<u>309</u>
P11	<u>50</u>	<u>30</u>	<u>332</u>	<u>50</u>	<u>72</u>	<u>30</u>	<u>311</u>
P12	<u>55</u>	<u>33</u>	<u>333</u>	<u>55</u>	<u>73</u>	<u>33</u>	<u>312</u>
P13	<u>60</u>	<u>36</u>	<u>334</u>	<u>60</u>	<u>75</u>	<u>36</u>	<u>313</u>
P14		<u>39</u>	<u>335</u>	<u>65</u>		<u>39</u>	<u>314</u>
P15		<u>42</u>	<u>336</u>	<u>70</u>		<u>42</u>	<u>315</u>
P16		<u>45</u>	<u>337</u>	<u>75</u>		<u>45</u>	<u>316</u>
P17		<u>48</u>		<u>80</u>		<u>48</u>	<u>317</u>
P18		<u>51</u>		<u>85</u>		<u>51</u>	<u>318</u>
P19		<u>54</u>		<u>90</u>		<u>54</u>	<u>319</u>
P20		<u>57</u>				<u>57</u>	<u>320</u>
		<u>60</u>	<u>337</u>			<u>60</u>	<u>320</u>

WESTERN TESTING CO., INC.
Pressure Data

Date _____ Test Ticket No. 6881
 Recorder No. _____ Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	Open Tool _____	M _____	
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure _____	Mins. _____	Mins. _____
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure _____	Mins. _____	Mins. _____
D Initial Closed-in Pressure _____	P.S.I.	Second Flow Pressure _____	Mins. _____	Mins. _____
E Second Initial Flow Pressure _____	P.S.I.	Final Closed-in Pressure _____	Mins. _____	Mins. _____
F Second Final Flow Pressure _____	P.S.I.			
G Final Closed-in Pressure _____	P.S.I.			
H Final Hydrostatic Mud _____	P.S.I.			

PRESSURE BREAKDOWN

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		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>63</u>	_____	_____	_____	<u>63</u>	<u>321</u>
P 2 _____	_____	<u>66</u>	_____	_____	_____	<u>66</u>	<u>322</u>
P 3 _____	_____	<u>69</u>	_____	_____	_____	<u>69</u>	<u>323</u>
P 4 _____	_____	<u>72</u>	_____	_____	_____	<u>72</u>	<u>324</u>
P 5 _____	_____	<u>75</u>	_____	_____	_____	<u>75</u>	<u>325</u>
P 6 _____	_____	<u>78</u>	_____	_____	_____	<u>78</u>	<u>326</u>
P 7 _____	_____	<u>81</u>	_____	_____	_____	<u>81</u>	<u>327</u>
P 8 _____	_____	<u>84</u>	_____	_____	_____	<u>84</u>	<u>328</u>
P 9 _____	_____	<u>87</u>	_____	_____	_____	<u>87</u>	<u>328</u>
P10 _____	_____	<u>90</u>	_____	_____	_____	<u>90</u>	<u>328</u>
P11 _____	_____	<u>93</u>	_____	_____	_____	<u>93</u>	_____
P12 _____	_____	<u>96</u>	_____	_____	_____	<u>96</u>	_____
P13 _____	_____	<u>99</u>	_____	_____	_____	<u>99</u>	_____
P14 _____	_____	<u>102</u>	_____	_____	_____	<u>102</u>	_____
P15 _____	_____	<u>105</u>	_____	_____	_____	<u>105</u>	_____
P16 _____	_____	<u>108</u>	_____	_____	_____	<u>108</u>	_____
P17 _____	_____	<u>111</u>	_____	_____	_____	<u>111</u>	_____
P18 _____	_____	<u>114</u>	_____	_____	_____	<u>114</u>	_____
P19 _____	_____	<u>117</u>	_____	_____	_____	<u>117</u>	_____
P20 _____	_____	<u>120</u>	_____	_____	_____	<u>120</u>	_____

Company Pickrell Drilling Company Lease & Well No. Hageman #3
 Elevation 1533 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 6881
 Date 10-26-80 Sec. 6 Twp. 30S Range 8W County Kingman State Kansas
 Test Approved by Greg Issinghoff Western Representative Rodger A. Mounts

Formation Test No. 1 Interval Tested from 4150 ft. to 4170 ft. Total Depth 4170 ft.
 Packer Depth 4145 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4150 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4160 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 4170 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Pickrell Drilling Co Rig #10 Drill Collar Length 60 I. D. 2.2 in.
 Mud Type Drispac Viscosity 63 Weight Pipe Length 560 I. D. 3.2 in.
 Weight 9.3 Water Loss 9.2 cc. Drill Pipe Length 3510 I. D. 3.8 in.
 Chlorides 14,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 107 Anchor Length 20 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: Good blow strong 2 minutes initial flow period. Gas to surface in 8 minutes. Strong blow final flow period. See attached sheet for gas measurements.

Recovered 20 ft. of gas cut mud
 Recovered 120 ft. of gas cut watery mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 7:20 ~~AM~~ P.M. Time Started Off Bottom 11:28 ~~AM~~ P.M. Maximum Temperature 102
 Initial Hydrostatic Pressure (A) 2009 P.S.I.
 Initial Flow Period Minutes 30 (B) 28 P.S.I. to (C) 37 P.S.I.
 Initial Closed In Period Minutes 60 (D) 337 P.S.I.
 Final Flow Period Minutes 60 (E) 48 P.S.I. to (F) 75 P.S.I.
 Final Closed In Period Minutes 90 (G) 328 P.S.I.
 Final Hydrostatic Pressure (H) 1983 P.S.I.

GAS FLOW REPORT

Date 10-26-80 Ticket 6881 Company Pickrell Drilling Company
 Well Name and No. Hageman #3 Dst No. 1 Interval Tested 4150-4170
 County Kingman State Kansas Sec. 6 Twp. 30S 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
Gas to Surface 18 minutes PRE FLOW						
	20 Min	2 PSIG	1/8" Orifice			3,920 C.F.P.D.
	25 Min	8 PSIG	1/8" Orifice			8,300 C.F.P.D.
	30 Min	12 PSIG	1/8" Orifice			10,500 C.F.P.D.

SECOND FLOW						
	10 Min	16 PSIG	1/8" Orifice			12,500 C.F.P.D.
	20 Min	22 PSIG	1/8" Orifice			15,500 C.F.P.D.
	30 Min	23 PSIG	1/8" Orifice			15,900 C.F.P.D.
	40 Min	23 PSIG	1/8" Orifice			15,900 C.F.P.D.
	50 Min	23 PSIG	1/8" Orifice			15,900 C.F.P.D.
	60 Min.	23PSIG	1/8" Orifice			15,900 C.F.P.D.

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced 10-26-80

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 Pickrell Drilling Company
 Authorized by Greg Issinghoff

WESTERN TESTING CO., INC.
Pressure Data

Date 10/26/80 Test Ticket No. 6881
 Recorder No. 1566 Capacity 4300 Location 4160 Ft.
 Clock No. - Elevation 1533 Kelly Bushing Well Temperature 102 °F

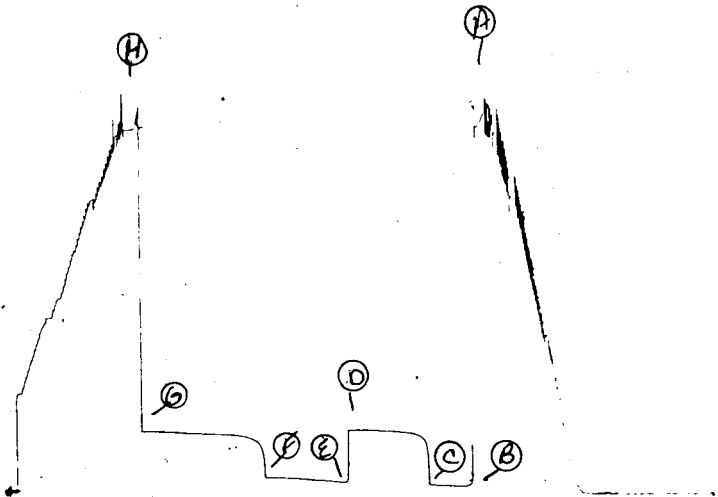
Point	Pressure		Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2009</u>	P.S.I.		<u>7:28P</u>	<u>M</u>
B First Initial Flow Pressure	<u>28</u>	P.S.I.	First Flow Pressure	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>37</u>	P.S.I.	Initial Closed-in Pressure	<u>60</u>	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>337</u>	P.S.I.	Second Flow Pressure	<u>60</u>	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>48</u>	P.S.I.	Final Closed-in Pressure	<u>90</u>	<u>90</u> Mins.
F Second Final Flow Pressure	<u>75</u>	P.S.I.			
G Final Closed-in Pressure	<u>328</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1983</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>20</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>30</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>63</u>	<u>321</u>	
P 2						<u>66</u>	<u>322</u>	
P 3						<u>69</u>	<u>323</u>	
P 4						<u>72</u>	<u>324</u>	
P 5						<u>75</u>	<u>325</u>	
P 6						<u>78</u>	<u>326</u>	
P 7						<u>81</u>	<u>327</u>	
P 8						<u>84</u>	<u>328</u>	
P 9						<u>87</u>	<u>328</u>	
P10						<u>90</u>	<u>328</u>	
P11								
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

JK# 6881

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WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 6882

P. O. BOX 1599 PHONE (316) 838-0601 WICHITA, KANSAS 67201

Elevation 533' L.B. Formation Mississippi Eff. Pay Ft.

District PRATT Date 10-27-80 Customer Order No.

COMPANY NAME Pickrell Oils Co.

ADDRESS 2120 W. Blvd, Suite 205, 110 N. MARKET, WICHITA, KS. 67202

LEASE AND WELL NO. Hageman #3 COUNTY Kingman STATE KS. Sec. 6 Twp. 30 S Rge. 8 W

Mail Invoice To Same Hageman #3 Co. Name Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

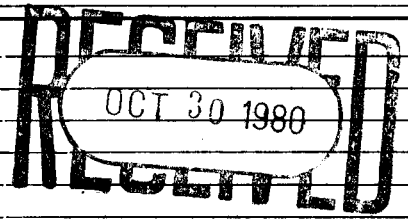
Formation Test No. #2 Interval Tested from 4172 ft. to 4230 ft. Total Depth 4230 ft. Packer Depth 4167 ft. Size 6 3/4 in. Packer Depth 4172 ft. Size 6 3/4 in. Packer Depth ft. Size in. Depth of Selective Zone Set

Top Recorder Depth (Inside) 4182 ft. Recorder Number 1566 Cap 4300 Bottom Recorder Depth (Outside) 4185 ft. Recorder Number 3086 Cap 4500 Below Straddle Recorder Depth ft. Recorder Number Cap

Drilling Contractor Pickrell Oils Co. Rig #10 Drill Collar Length 0 I. D. in. Mud Type DRISpac Viscosity 64 Weight Pipe Length 530 I. D. 3.2 in. Weight 9.4 Water Loss 11.2 cc. Drill Pipe Length 3616 I. D. 3.8 in. Chlorides 13,000 P.P.M. Test Tool Length 26 ft. Tool Size 5 1/2 O.D. in. Jars: Make W.T.C. Serial Number 407 Anchor Length 58 ft. Size 5 1/2 O.D. in. Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in. Main Hole Size 2 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: wear blow w/ slow build + 1st F.P. no blow 2nd F.P. Flushed tool twice good flush size 12 1/2"

Recovered 180 ft. of Drilling Fluid Recovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of Remarks:



Tools up @ 12:30 pm Tools on @ 6:30 pm OFF LOC @ 7:30 pm

Table with 4 columns: Time Set Packer(s), Time Started Off Bottom, Maximum Temperature, and P.S.I. values for (A) through (H).

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...

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] of Customer or his authorized representative

Western Representative [Signature]

FIELD INVOICE

Table listing items and costs: Open Hole Test \$400.00, Misrun \$, Straddle Test \$, Jars \$300.00, Selective Zone \$, Safety Joint \$50.00, Standby \$, Evaluation \$, Extra Packer \$, Circ. Sub. \$, Mileage \$N.C., Fluid Sampler \$, Extra Charts \$, TOTAL \$950.00

WESTERN TESTING CO., INC.
Pressure Data

Date 10-27 Test Ticket No. 6882
 Recorder No. 1566 Capacity 4300 Location 4182 Ft.
 Clock No. _____ Elevation 1533 KB Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2052</u> P.S.I.		<u>1:35</u> P	
B First Initial Flow Pressure	110 <u>99</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>114</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>220</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	151 <u>151</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>159</u> P.S.I.			
G Final Closed-in Pressure	<u>229</u> P.S.I.			
H Final Hydrostatic Mud	<u>2013</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: 19 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

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

Final Shut-In
 Breakdown: 19 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	114 <u>99</u>	0	<u>114</u>	0	151 <u>151</u>	0	<u>159</u>
P 2 5	108 <u>99</u>	3	<u>117</u>	5	160 <u>151</u>	3	<u>162</u>
P 3 10	<u>99</u>	6	<u>121</u>	10	<u>151</u>	6	<u>164</u>
P 4 15	<u>99</u>	9	<u>125</u>	15	<u>151</u>	9	<u>167</u>
P 5 20	<u>104</u>	12	<u>134</u>	20	<u>155</u>	12	<u>170</u>
P 6 25	<u>108</u>	15	<u>140</u>	25	<u>157</u>	15	<u>173</u>
P 7 30	<u>114</u>	18	<u>147</u>	30	<u>159</u>	18	<u>176</u>
P 8 35		21	<u>153</u>	35		21	<u>179</u>
P 9 40		24	<u>158</u>	40		24	<u>183</u>
P 10 45		27	<u>166</u>	45		27	<u>187</u>
P 11 50		30	<u>173</u>	50		30	<u>192</u>
P 12 55		33	<u>177</u>	55		33	<u>199</u>
P 13 60		36	<u>183</u>	60		36	<u>203</u>
P 14		39	<u>188</u>	65		39	<u>207</u>
P 15		42	<u>194</u>	70		42	<u>212</u>
P 16		45	<u>201</u>	75		45	<u>216</u>
P 17		48	<u>205</u>	80		48	<u>220</u>
P 18		51	<u>212</u>	85		51	<u>224</u>
P 19		54	<u>216</u>	90		54	<u>229</u>
P 20		57	<u>220</u>			57	<u>229</u>

Company Pickrell Drilling Company Lease & Well No. Hageman #3
 Elevation 1533 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 6882
 Date 10-27-80 Sec. 6 Twp. 30S Range 8W County Kingman State Kansas
 Test Approved by Greg Issinghoff Western Representative Rodger A. Mounts

Formation Test No. 2 Interval Tested from 4172 ft. to 4230 ft. Total Depth 4230 ft.
 Packer Depth 4167 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4172 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4182 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 4185 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Pickrell Drilling Co. Rig #10 Drill Collar Length - I. D. - in.
 Mud Type Driscac Viscosity 64 Weight Pipe Length 530 I. D. 3.2 in.
 Weight 9.4 Water Loss 11.2 cc. Drill Pipe Length 3616 I. D. 3.8 in.
 Chlorides 13,000 P.P.M. Test Tool Length 26 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 407 Anchor Length 58 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 with very slow build initial flow period. No blow final flow period. Flushed tool twice - good flush - died in 1/2 inch.

Recovered 180 ft. of drilling fluid.
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 1:35 ~~A.M.~~ P.M. Time Started Off Bottom 4:35 ~~A.M.~~ P.M. Maximum Temperature -
 Initial Hydrostatic Pressure (A) 2052 P.S.I.
 Initial Flow Period Minutes 30 (B) 99 P.S.I. to (C) 114 P.S.I.
 Initial Closed In Period Minutes 57 (D) 220 P.S.I.
 Final Flow Period Minutes 30 (E) 151 P.S.I. to (F) 159 P.S.I.
 Final Closed In Period Minutes 57 (G) 229 P.S.I.
 Final Hydrostatic Pressure (H) 2013 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 10/27/80 Recorder No. 1566 Capacity 4300 Test Ticket No. 6882
 Clock No. -- Elevation 1533 Kelly Bushing Location 4182 Ft
 Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2052	P.S.I.	1:35P	M
B First Initial Flow Pressure	99	P.S.I.	30	Mins. 30
C First Final Flow Pressure	114	P.S.I.	60	Mins. 57
D Initial Closed-in Pressure	220	P.S.I.	30	Mins. 30
E Second Initial Flow Pressure	151	P.S.I.	60	Mins. 57
F Second Final Flow Pressure	159	P.S.I.		
G Final Closed-in Pressure	229	P.S.I.		
H Final Hydrostatic Mud	2013	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>19</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>19</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	99	0	114	0	151	159
P 2	5	99	3	117	5	151	162
P 3	10	99	6	121	10	151	164
P 4	15	99	9	125	15	151	167
P 5	20	104	12	134	20	155	170
P 6	25	108	15	140	25	157	173
P 7	30	114	18	147	30	159	176
P 8			21	153			179
P 9			24	158			183
P 10			27	166			187
P 11			30	173			192
P 12			33	177			199
P 13			36	183			203
P 14			39	188			207
P 15			42	194			212
P 16			45	201			216
P 17			48	205			220
P 18			51	212			224
P 19			54	216			229
P 20			57	220			229

Alt # 6882

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