



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No

2976

P. O. BOX 1599 PHONE (316) 838-0601

WICHITA, KANSAS 67201

Elevation 1154 KB

Formation Simpson

Eff. Pay Ft.

Coil, Inc. District Augusta

Date 20 Nov 79

Customer Order No.

COMPANY NAME ~~C.O. Coil~~

ADDRESS 501 Petroleum Bldg Wichita, Ks.

LEASE AND WELL NO. #1 Heasty COUNTY Sumner STATE Kan Sec. 11 Twp 33 Rge 3W

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

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 3 Interval Tested from 4380 ft. to 4418 ft. Total Depth 4418 ft.

Packer Depth 4375 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4380 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4405 ft. Recorder Number 1558 Cap. 4200

Bottom Recorder Depth (Outside) 4408 ft. Recorder Number 1559 Cap. 4200

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

Drilling Contractor B+B Drilling Co #2

Drill Collar Length - I. D. - in.

Mud Type Premix Viscosity 54

Weight Pipe Length 120' I. D. 3" in.

Weight 9.4 Water Loss 28 cc.

Drill Pipe Length 4240' I. D. 3.8 in.

Chlorides 15,000 P.P.M.

Test Tool Length 58' in. Tool Size 5 1/2 in.

Jars: Make - Serial Number -

Anchor Length 38 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 FH in.

Blow: weak increasing to fair blow on initial flow period / fair blow on final flow period

Recovered 60 ft. of gassy odor in pipe

Recovered 80 ft. of gas cut mud with a few specks of oil

Recovered 60 ft. of muddy water

Recovered - ft. of

Recovered - ft. of

Remarks:

Time Set Packer(s) 9:30 P.M. Time Started Off Bottom 12:55 A.M. Maximum Temperature 128°

Initial Hydrostatic Pressure (A) 2258 P.S.I.

Initial Flow Period Minutes 45 (B) 105 P.S.I. to (C) 115 P.S.I.

Initial Closed In Period Minutes 570 (D) 1424 P.S.I.

Final Flow Period Minutes 45 (E) 158 P.S.I. to (F) 126 P.S.I.

Final Closed In Period Minutes 45 (G) 1413 P.S.I.

Final Hydrostatic Pressure (H) 2205 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 M. M. Mac Signature of Customer or his authorized representative

Western Representative WK Hager Thank You!

FIELD INVOICE

Open Hole Test \$50.00

Misrun \$

Straddle Test \$

Jars \$

Selective Zone \$

Safety Joint \$ 35.00

Standby \$

Evaluation \$

Extra Packer \$

Circ. Sub. \$

Mileage \$

Extra Charts \$

TOTAL \$585.00

WESTERN TESTING CO., INC.

Pressure Data

Date 11-20-79 Test Ticket No. 2976
 Recorder No. 1558 Capacity 4200 Location 4405 Ft.
 Clock No. _____ Elevation 11547.8 Well Temperature 128 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2250</u> P.S.I.		<u>9:30P</u> M	
B First Initial Flow Pressure	<u>89</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>80</u> P.S.I.	Initial Closed-in Pressure	<u>70</u> Mins.	<u>69</u> Mins.
D Initial Closed-in Pressure	<u>1429</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>152</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>112</u> P.S.I.			
G Final Closed-in Pressure	<u>1409</u> P.S.I.			
H Final Hydrostatic Mud	<u>2195</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 9 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 23 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 9 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 15 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>89</u>	0	<u>80</u>	0	<u>152</u>	0	<u>112</u>
P 2 5	<u>72</u>	3	<u>285</u>	5	<u>127</u>	3	<u>293</u>
P 3 10	<u>65</u>	6	<u>750</u>	10	<u>118</u>	6	<u>698</u>
P 4 15	<u>63</u>	9	<u>1226</u>	15	<u>114</u>	9	<u>1088</u>
P 5 20	<u>63</u>	12	<u>1318</u>	20	<u>112</u>	12	<u>1276</u>
P 6 25	<u>65</u>	15	<u>1362</u>	25	<u>↓</u>	15	<u>1324</u>
P 7 30	<u>66</u>	18	<u>1366</u>	30	<u>↓</u>	18	<u>1357</u>
P 8 35	<u>74</u>	21	<u>1389</u>	35	<u>↓</u>	21	<u>1372</u>
P 9 40	<u>78</u>	24	<u>1395</u>	40	<u>↓</u>	24	<u>1382</u>
P10 45	<u>80</u>	27	<u>1401</u>	45	<u>112</u>	27	<u>1392</u>
P11 50		30	<u>1408</u>	50		30	<u>1397</u>
P12 55		33	<u>1411</u>	55		33	<u>1401</u>
P13 60		36	<u>1414</u>	60		36	<u>1403</u>
P14		39	<u>1418</u>	65		39	<u>1406</u>
P15		42	<u>1420</u>	70		42	<u>1408</u>
P16		45	<u>1421</u>	75		45	<u>1409</u>
P17		48	<u>1422</u>	80		48	
P18		51	<u>1423</u>	85		51	
P19		54	<u>1424</u>	90		54	
P20		57	<u>1425</u>			57	
		60	<u>1426</u>			60	

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WESTERN TESTING CO., INC.
Pressure Data

Test Ticket No. 2976

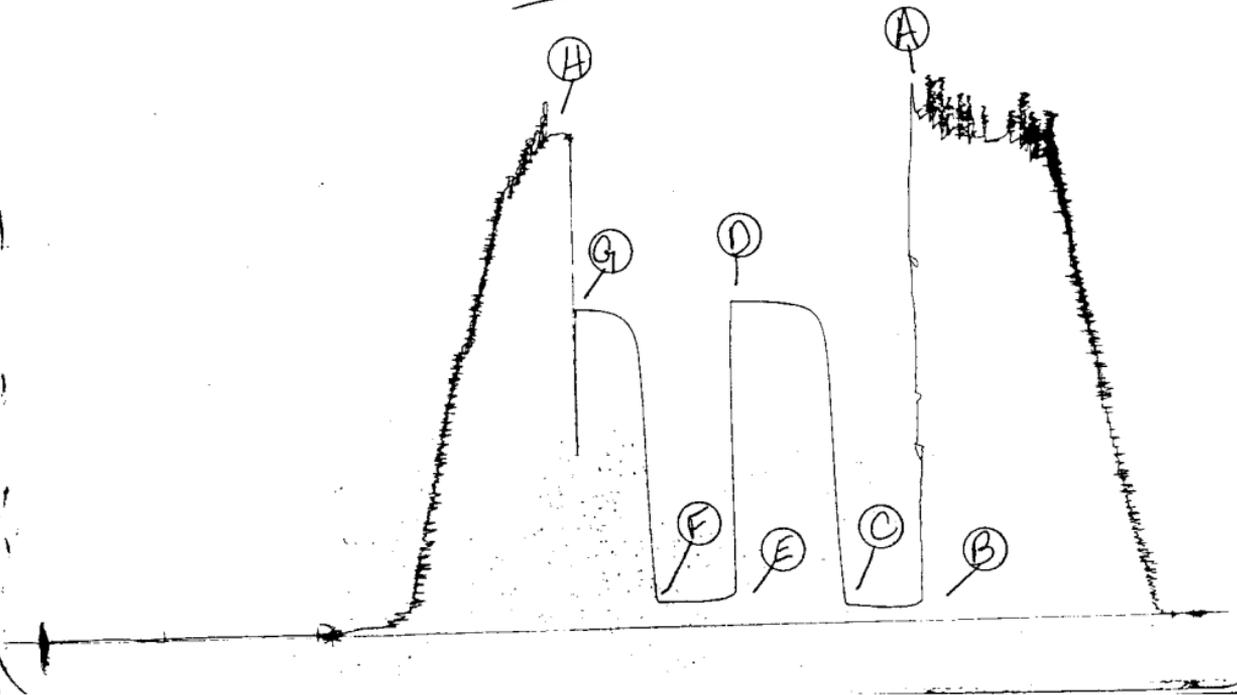
Order No. _____ Capacity _____ Location _____
 No. _____ Elevation _____ Well Temperature _____

Pressure	PSI.	Open Tool	Time Given	Time Computed
Initial Hydrostatic Mud	_____	_____	_____ M	_____
First Initial Flow Pressure	_____	First Flow Pressure	_____ Mins	_____ Min
First Final Flow Pressure	_____	Initial Closed-in Pressure	_____ Mins	_____ Min
Initial Closed-in Pressure	_____	Second Flow Pressure	_____ Mins	_____ Min
Second Initial Flow Pressure	_____	Final Closed-in Pressure	_____ Mins	_____ Min
Second Final Flow Pressure	_____			
Final Closed-in Pressure	_____			
Final Hydrostatic Mud	_____			

PRESSURE BREAKDOWN

Point Minutes	Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In
		Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.
63		_____	_____	63
66		_____	_____	66
69		_____	_____	69
72		_____	_____	72
75		_____	_____	75
78		_____	_____	78
81		_____	_____	81
84		_____	_____	84
87		_____	_____	87
90		_____	_____	90
93		_____	_____	93
96		_____	_____	96
99		_____	_____	99
102		_____	_____	102
105		_____	_____	105
108		_____	_____	108
111		_____	_____	111
114		_____	_____	114
117		_____	_____	117
120		_____	_____	120

TK#2976
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Company C. Oil, Inc. Lease & Well No. Heasty #1
 Location 1154 Kelly Bushing Information Simpson Effective Pay ---- Ft. Ticket No. 2976
 Date 11/20/79 Sec. 11 Twp. 33S Range 3W County Sumner State Kansas
 Test Approved by M. M. Mace Western Representative W. K. Hager

Formation Test No. 3 Interval Tested from 4380 ft. to 4418 ft. Total Depth 4418 ft.
 Casing Depth 4375 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Casing Depth 4380 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4405 ft. Recorder Number 1558 Cap. 4200
 Bottom Recorder Depth (Outside) 4408 ft. Recorder Number 1559 Cap. 4200
 Flow Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor B. & B. Drilling Co. #2 Drill Collar Length - I. D. - in.
 Mud Type premix Viscosity 54 Weight Pipe Length 120 I. D. 3 in.
 Weight 9.4 Water Loss 28 cc. Drill Pipe Length 4240 I. D. 3.8 in.
 Chlorides 15,000 P.P.M. Test Tool Length 58 ft. Tool Size 5 1/2 in.
 Tools: Make -- Serial Number -- Anchor Length 38 ft. Size 5 1/2 in.
 Mud 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.

Flow: Weak increasing to fair blow on initial flow period. Fair blow on final flow period.

Exposed 60 ft. of gassy odor in pipe
 Exposed 80 ft. of gas cut mud with a few specks of oil
 Exposed 60 ft. of muddy water
 Exposed ft. of
 Exposed ft. of

Remarks:

Time Set Packer(s) 9:30 ~~A.M.~~ P.M. Time Started Off Bottom 12:55 ~~A.M.~~ P.M. Maximum Temperature 128⁰
 Initial Hydrostatic Pressure (A) 2250 P.S.I.
 Initial Flow Period Minutes 45 (B) 89 P.S.I. to (C) 80 P.S.I.
 Initial Closed In Period Minutes 69 (D) 1429 P.S.I.
 Final Flow Period Minutes 45 (E) 152 P.S.I. to (F) 112 P.S.I.
 Final Closed In Period Minutes 45 (G) 1409 P.S.I.
 Final Hydrostatic Pressure (H) 2195 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 11/20/79 Test Ticket No. 2976
 Recorder No. 1558 Capacity 4200 Location 4405 Ft.
 Clock No. --- Elevation 1154 Kelly Bushing Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2250	P.S.I.	9:30P	M
B First Initial Flow Pressure	89	P.S.I.	45	Mins. 45 Mins.
C First Final Flow Pressure	80	P.S.I.	70	Mins. 69 Mins.
D Initial Closed-in Pressure	1429	P.S.I.	45	Mins. 45 Mins.
E Second Initial Flow Pressure	152	P.S.I.	45	Mins. 45 Mins.
F Second Final Flow Pressure	112	P.S.I.		
G Final Closed-in Pressure	1409	P.S.I.		
H Final Hydrostatic Mud	2195	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>23</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>15</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	0	89	0	80	0	112		
P 2	5	72	3	285	5	127	3	293
P 3	10	65	6	756	10	118	6	698
P 4	15	63	9	1226	15	114	9	1088
P 5	20	63	12	1318	20	112	12	1276
P 6	25	65	15	1362	25	112	15	1324
P 7	30	66	18	1366	30	112	18	1357
P 8	35	74	21	1389	35	112	21	1372
P 9	40	78	24	1395	40	112	24	1382
P10	45	80	27	1401	45	112	27	1392
P11			30	1408			30	1397
P12			33	1411			33	1401
P13			36	1414			36	1403
P14			39	1418			39	1406
P15			42	1420			42	1408
P16			45	1421			45	1409
P17			48	1422				
P18			51	1423				
P19			54	1424				
P20			57	1425				
			60	1426				

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Pressure Data

Date 11/20/79 Test Ticket No. 2976
 Recorder No. 1558 Capacity 4200 Location 4405 Ft.
 Clock No. --- Elevation 1154 Kelly Bushing Well Temperature 128 °F

Point	Pressure			Time	
				Given	Computed
A Initial Hydrostatic Mud	2250	P.S.I.	Open Tool	9:30P	M
B First Initial Flow Pressure	89	P.S.I.	First Flow Pressure	45	Mins. 45 Mins.
C First Final Flow Pressure	80	P.S.I.	Initial Closed-in Pressure	70	Mins. 69 Mins.
D Initial Closed-in Pressure	1429	P.S.I.	Second Flow Pressure	45	Mins. 45 Mins.
E Second Initial Flow Pressure	152	P.S.I.	Final Closed-in Pressure	45	Mins. 45 Mins.
F Second Final Flow Pressure	112	P.S.I.			
G Final Closed-in Pressure	1409	P.S.I.			
H Final Hydrostatic Mud	2195	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>23</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Initial Shut-In		Second Flow Pressure		Final Shut-In	
		Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1		63	1427				
P 2		66	1428				
P 3		69	1429				
P 4							
P 5							
P 6							
P 7							
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							