



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 19080

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 2870 K.B. Formation Lansing Eff. Pay Ft.

District Garden City Date 6-19-93 Customer Order No.

COMPANY NAME McCoy Pet.
ADDRESS 110 S. Main, Suite 500 Wichita, KS 67202
LEASE AND WELL NO. 2-5 Terman "A" COUNTY Seward STATE KS. Sec. 5 Twp 32S Rge. 34W
Mail Invoice To McCoy Pet. Co. Name Same Address Same No. Copies Requested Reg.
Mail Charts To McCoy Pet. Co. Name Same Address Same No. Copies Requested Reg.

Formation Test No. 1 Interval Tested From 4446 ft. to 4456 ft. Total Depth 4456 ft.
Packer Depth 4441 ft. Size 658 in. Packer Depth ft. Size in.
Packer Depth 4446 ft. Size 658 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 4449 ft. Recorder Number 3849 Cap. 4200
Bottom Recorder Depth (Outside) 4452 ft. Recorder Number 2604 Cap. 4150
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Swartman Drill Collar Length 281 I. D. 2 1/4 in.
Mud Type Chem. Viscosity 44 Weight Pipe Length I. D. in.
Weight 9.0 Water Loss 13.6 cc. Drill Pipe Length 4137 I. D. 3.8 in.
Chlorides 4000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.
Jars: Make W.T.C. Serial Number 404 Anchor Length 10 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 X 1 1/2 in.

Blow Wack 1/2" slowly built to 2" in Bucket 30 min. I.F.
26 Blow for 5 min. Slowly built to 6" in Bucket 90 min. F.F.
Recovered 15 ft. of CIN OIL 39° Gravity at 60°F
Recovered 90 ft. of Mud cut WTR w/ seum of Oil 42% mud 58% WTR
Recovered 100 ft. of Salt WTR 54,000 P.P.M.
Recovered ft. of
Recovered ft. of Total Fluid Rec. 205'
Chlorides 54,000 P.P.M. Sample Jars used Remarks:

Time On Location 3:00 A.M. Time Pick Up Tool 4:00 A.M. Time Off Location A.M.
Time Set Packer(s) 5:45 P.M. Time Started Off Bottom 10:15 P.M. Maximum Temperature 117°F
Initial Hydrostatic Pressure 2116 P.S.I.
Initial Flow Period 30 Minutes (B) 34 P.S.I. to (C) 55 P.S.I.
Initial Closed In Period 60 Minutes (D) 1225 P.S.I.
Final Flow Period 90 Minutes (E) 70 P.S.I. to (F) 117 P.S.I.
Final Closed In Period 90 Minutes (G) 1225 P.S.I.
Final Hydrostatic Pressure 2095 P.S.I. (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 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 John P. Wertz
Signature of Customer or his authorized representative

Western Representative Henry S. Salgan

FIELD INVOICE

Open Hole Test ☒ \$
Misrun \$
Straddle Test \$
Jars ☒ \$
Selective Zone \$
Safety Joint ☒ \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$

WESTERN TESTING CO., INC.

Pressure Data

Date 6-19-93 Test Ticket No. 19080
 Recorder No. 3849 Capacity 4200 Location 4449 Ft.
 Clock No. _____ Elevation _____ Well Temperature 117 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2123</u> P.S.I.	<u>30</u> M	
B First Initial Flow Pressure	<u>51</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>68</u> P.S.I.	<u>60</u> Mins.	<u>37</u> Mins.
D Initial Closed-in Pressure	<u>1236</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>89</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>125</u> P.S.I.		
G Final Closed-in Pressure	<u>1222</u> P.S.I.		
H Final Hydrostatic Mud	<u>2108</u> 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 0	<u>51</u>	0	<u>68</u>	0	<u>89</u>	0	<u>125</u>
P 2 5	<u>53</u>	3	<u>147</u>	5	<u>90</u>	3	<u>153</u>
P 3 10	<u>56</u>	6	<u>527</u>	10	<u>91</u>	6	<u>234</u>
P 4 15	<u>61</u>	9	<u>692</u>	15	<u>92</u>	9	<u>370</u>
P 5 20	<u>63</u>	12	<u>975</u>	20	<u>93</u>	12	<u>563</u>
P 6 25	<u>65</u>	15	<u>1031</u>	25	<u>94</u>	15	<u>803</u>
P 7 30	<u>68</u>	18	<u>1071</u>	30	<u>95</u>	18	<u>902</u>
P 8 35		21	<u>1105</u>	35	<u>98</u>	21	<u>973</u>
P 9 40		24	<u>1130</u>	40	<u>101</u>	24	<u>1019</u>
P10 45		27	<u>1155</u>	45	<u>104</u>	27	<u>1056</u>
P11 50		30	<u>1169</u>	50	<u>107</u>	30	<u>1084</u>
P12 55		33	<u>1181</u>	55	<u>109</u>	33	<u>1105</u>
P13 60		36	<u>1192</u>	60	<u>111</u>	36	<u>1117</u>
P14 65		39	<u>1203</u>	65	<u>113</u>	39	<u>1135</u>
P15 70		42	<u>1210</u>	70	<u>115</u>	42	<u>1148</u>
P16 75		45	<u>1213</u>	75	<u>117</u>	45	<u>1161</u>
P17 80		48	<u>1224</u>	80	<u>120</u>	48	<u>1169</u>
P18 85		51	<u>1230</u>	85	<u>123</u>	51	<u>1177</u>
P19 90		54	<u>1234</u>	90	<u>125</u>	54	<u>1184</u>
P20 95		57	<u>1236</u>	95		57	<u>1190</u>
100		<u>60</u>		<u>100</u>		60	<u>1201</u>

WESTERN TESTING CO., INC.

Pressure Data

Date.....

Test Ticket No.....

Recorder No..... Capacity..... Location..... Ft.

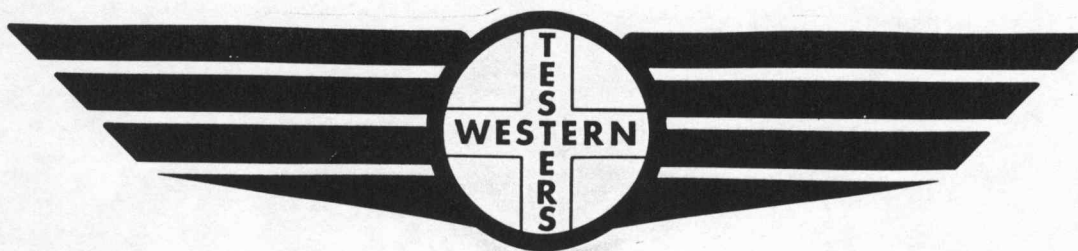
Clock No..... Elevation..... Well Temperature..... °F

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..... mins. and a		of..... mins. and a		of..... mins. and a		of..... mins. and a	
final inc. of..... Min.		final inc. of..... Min.		final inc. of..... Min.		final inc. of..... Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 105		63		105		63	1205
P 2 110		66		110		66	1209
P 3 115		69		115		69	1213
P 4 120		72		120		72	1217
P 5 125		75		125		75	1218 1218
P 6 130		78		130		78	1219 1219
P 7 135		81		135		81	1220
P 8 140		84		140		84	1221
P 9 145		87		145		87	1222
P10 150		90		150		90	1222
P11 155		93		155		93	
P12 160		96		160		96	
P13 165		99		165		99	
P14 170		102		170		102	
P15 175		105		175		105	
P16 180		108		180		108	
P17 185		111		185		111	
P18 190		114		190		114	
P19 195		117		195		117	
P20 200		120		200		120	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY MCCOY PETROLEUM CORP. LEASE & WELL NO. JERMAN "A" #2-5 SEC. 5 TWP. 32S RGE. 34W TEST NO. 1 DATE 6-19-93

DST REPORT

GENERAL INFORMATION

DATE	: 06-19-93	TICKET	: 19080
CUSTOMER	: MCCOY PETROLEUM CORP.	LEASE	: JERMAN A
WELL	: #2-5	TEST: 1	GEOLOGIST: JOHN HASTINGS
ELEVATION	: 2870 K.B.	FORMATION	: LANSING
SECTION	: 5	TOWNSHIP	: 32S
RANGE	: 34W	COUNTY: SEWARD	STATE : KS
GAUGE SN#	: 3849	RANGE : 4200	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4446.00 ft	TO:	4456.00 ft	TVD:	4456.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4449.0 ft		4452.0 ft		
TEMPERATURE:	117.0				
DRILL COLLAR LENGTH:	281.0 ft	I.D.:	2.250 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	4137.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	10.0 ft	ANCHOR SIZE:	5.500 in		
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in		
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH		
PACKER DEPTH:	4441.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	4446.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	SWEETMAN DRLG.	VISCOSITY :	44.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	13.600 cc
WEIGHT :	9.000 ppg	SERIAL NUMBER:	404
CHLORIDES :	4000 ppm	REVERSED OUT?:	NO
JARS-MAKE :	WTC		
DID WELL FLOW?:	NO		

COMMENTS

Comment

WEAK 1/2" BLOW SLOWLY BUILDING TO 2" BLOW IN
BUCKET IN 30 MIN. ON INITIAL FLOW PERIOD. NO BLOW
FOR 5 MIN. - SLOWLY BUILDING TO 6" IN BUCKET IN 90

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

MIN. ON FINAL FLOW PERIOD.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
15.0	100.0	0.0	0.0	0.0	CLEAN OIL
0.0	0.0	0.0	0.0	0.0	39 GRAVITY AT 60 DEG. F.
90.0	0.0	0.0	58.0	42.0	MUD C/WTR W/SCUM OF OIL
100.0	0.0	0.0	100.0	0.0	SALT WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 54000 PPM

RATE INFORMATION

OIL VOLUME:	0.0738	STB	TOTAL FLOW TIME:	120.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.8851	STB/D
MUD VOLUME:	0.1859	STB	AVERAGE WATER RATE:	11.2119	STB/D
WATER VOLUME:	0.7484	STB			
TOTAL FLUID :	1.0081	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2116.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	34.00	55.00
INITIAL SHUT-IN	60.00		1225.00
FINAL FLOW	90.00	70.00	117.00
FINAL SHUT-IN	90.00		1225.00
FINAL HYDROSTATIC PRESSURE:	2095.00		

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2123.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	51.00	68.00
INITIAL SHUT-IN	57.00		1236.00
FINAL FLOW	90.00	89.00	125.00
FINAL SHUT-IN	90.00		1222.00

FINAL HYDROSTATIC PRESSURE: 2108.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 06-19-93	TICKET : 19080
CUSTOMER : MCCOY PETROLEUM CORP.	LEASE : JERMAN A
WELL : #2-5 TEST: 1	GEOLOGIST: JOHN HASTINGS
ELEVATION: 2870 K.B.	FORMATION: LANSING
SECTION : 5	TOWNSHIP : 32S
RANGE : 34W COUNTY: SEWARD	STATE : KS
GAUGE SN#: 3849 RANGE : 4200	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	51.00	51.00
5.00	53.00	2.00
10.00	56.00	3.00
15.00	61.00	5.00
20.00	63.00	2.00
25.00	65.00	2.00
30.00	68.00	3.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	147.00	147.00	0.00
6.00	527.00	380.00	0.00
9.00	672.00	145.00	0.00
12.00	975.00	303.00	0.00
15.00	1031.00	56.00	0.00
18.00	1071.00	40.00	0.00
21.00	1105.00	34.00	0.00
24.00	1130.00	25.00	0.00
27.00	1155.00	25.00	0.00
30.00	1169.00	14.00	0.00
33.00	1181.00	12.00	0.00
36.00	1192.00	11.00	0.00
39.00	1203.00	11.00	0.00
42.00	1210.00	7.00	0.00
45.00	1213.00	3.00	0.00
48.00	1224.00	11.00	0.00
51.00	1230.00	6.00	0.00
54.00	1234.00	4.00	0.00
57.00	1236.00	2.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	89.00	89.00
5.00	90.00	1.00
10.00	91.00	1.00
15.00	92.00	1.00
20.00	93.00	1.00
25.00	94.00	1.00
30.00	95.00	1.00
35.00	98.00	3.00
40.00	101.00	3.00
45.00	104.00	3.00
50.00	107.00	3.00
55.00	109.00	2.00
60.00	111.00	2.00
65.00	113.00	2.00
70.00	115.00	2.00
75.00	117.00	2.00
80.00	120.00	3.00
85.00	123.00	3.00
90.00	125.00	2.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	153.00	153.00	0.00
6.00	234.00	81.00	0.00
9.00	370.00	136.00	0.00
12.00	563.00	193.00	0.00
15.00	803.00	240.00	0.00
18.00	902.00	99.00	0.00
21.00	973.00	71.00	0.00
24.00	1019.00	46.00	0.00
27.00	1056.00	37.00	0.00
30.00	1084.00	28.00	0.00
33.00	1105.00	21.00	0.00
36.00	1117.00	12.00	0.00
39.00	1135.00	18.00	0.00
42.00	1148.00	13.00	0.00
45.00	1161.00	13.00	0.00
48.00	1169.00	8.00	0.00
51.00	1177.00	8.00	0.00
54.00	1184.00	7.00	0.00
57.00	1190.00	6.00	0.00

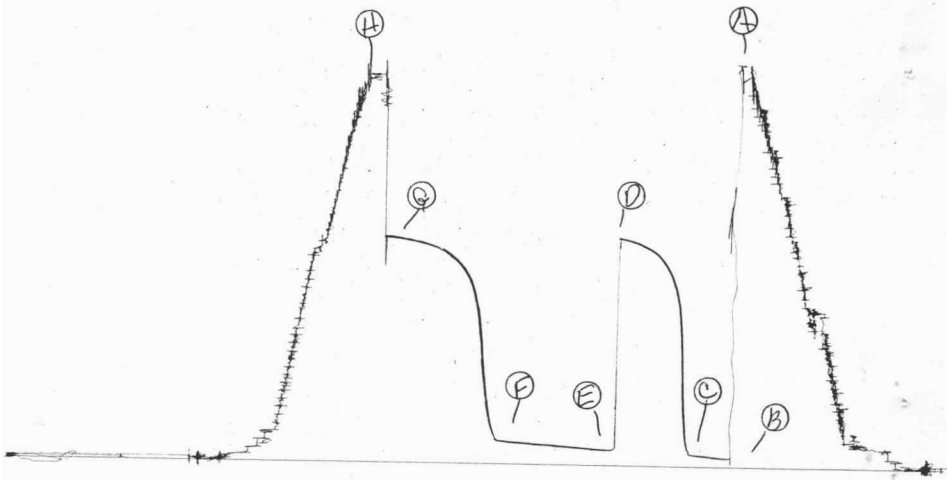
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1201.00	11.00	0.00
63.00	1205.00	4.00	0.00
66.00	1209.00	4.00	0.00
69.00	1213.00	4.00	0.00
72.00	1217.00	4.00	0.00
75.00	1218.00	1.00	0.00
78.00	1219.00	1.00	0.00
81.00	1220.00	1.00	0.00
84.00	1221.00	1.00	0.00
87.00	1222.00	1.00	0.00
90.00	1222.00	0.00	0.00

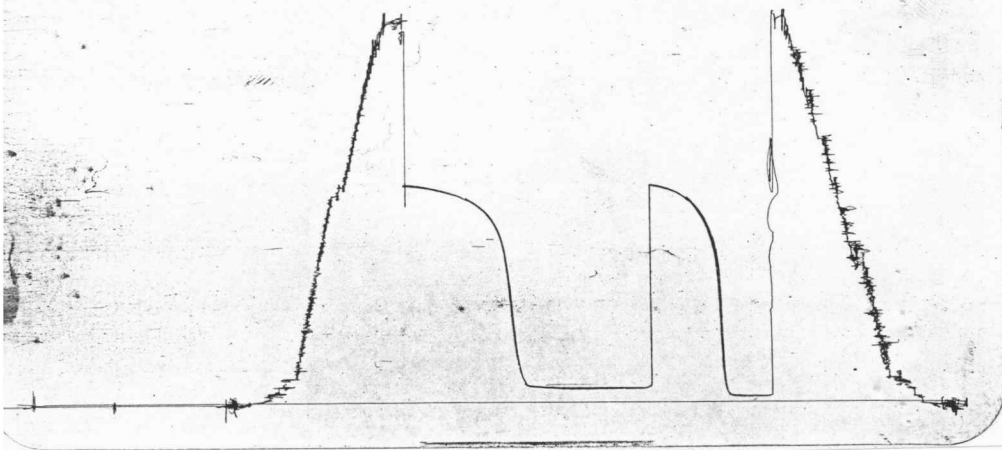
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WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No 19081

P. O. BOX 1599
WICHITA, KANSAS 67201

PHONE (316) 262-5861

Elevation 2870 A.B. Formation Morrow Eff. Pay _____ Ft.District Carden City Date 6-22-83 Customer Order No. _____COMPANY NAME McLay Pet.
ADDRESS 110 S. Main, Suite 500 Wichita, KS 67202
LEASE AND WELL NO. 25 Terman "A" COUNTY Seward STATE KS Sec. 5 Twp. 32S Rge. 34W
Mail Invoice To McLay Pet. Terman "A" Co. Name Same Address #2-5 Terman No. Copies Requested Req.
Mail Charts To McLay Pet. Address Same No. Copies Requested Req.Formation Test No. 2 Interval Tested From 5338 ft. to 5380 ft. Total Depth 5380 ft.
Packer Depth 5333 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 5338 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 5360 ft. Recorder Number 3849 Cap. 4200
Bottom Recorder Depth (Outside) 5363 ft. Recorder Number 2604 Cap. 4150
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____
Drilling Contractor Sewardman Drill Collar Length 281 I. D. 2 1/4 in.
Mud Type Chem. Viscosity 47 Weight Pipe Length _____ I. D. _____ in.
Weight 9.0 Water Loss 9.5 cc. Drill Pipe Length 5029 I. D. 3.8 in.
Chlorides 2,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.
Jars: Make W.T.C. Serial Number 404 Anchor Length 42 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 X H. in.Blow: Very weak 1/4" built to 3 1/2" in Bucket 30 min. I.F.
Surface Blow, died in 45 min. F.F.Recovered 50 ft. of Dtg. Mud
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of Total Fluid Rec. 50'Chlorides _____ P.P.M. Sample Jars used _____ Remarks: S.I. Tool, Jack-screw was broke
when we came out of hole, Probably broke during test. No Shut-In Pressures
Miss-Run.Time On Location 3:00 A.M. Time Pick Up Tool 4:30 A.M. Time Off Location _____ A.M.
Time Set Packer(s) 6:30 A.M. Time Started Off Bottom 10:30 A.M. Maximum Temperature 140°F
Initial Hydrostatic Pressure _____ (A) 2582 P.S.I.
Initial Flow Period _____ Minutes 30 (B) 42 P.S.I. to (C) 42 P.S.I.
Initial Closed In Period _____ Minutes 60 (D) 42 P.S.I.
Final Flow Period _____ Minutes 60 (E) 42 P.S.I. to (F) 42 P.S.I.
Final Closed In Period _____ Minutes 90 (G) 42 P.S.I.
Final Hydrostatic Pressure _____ (H) 2497 P.S.I.

COMPANY TERMS

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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 John P. Narty
Signature of Customer or his authorized representativeWestern Representative Larry S. Selzer
Vito P. Czako

FIELD INVOICE

Open Hole Test ☒ \$
Misrun ☒ \$
Straddle Test ☒ \$
Jars ☒ \$
Selective Zone ☒ \$
Safety Joint ☒ \$
Standby ☒ \$
Evaluation ☒ \$
Extra Packer ☒ \$
Circ. Sub. ☒ \$
Mileage ☒ \$
Fluid Sampler ☒ \$
Extra Charts ☒ \$
Insurance ☒ \$
Telecopier ☒ \$

TOTAL

WESTERN TESTING CO., INC.

Pressure Data

Date 6-22-93 Test Ticket No. 19081
 Recorder No. 3849 Capacity 4200 Location 3849 Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2568</u> P.S.I.	<u>6:30 A</u> M	
B First Initial Flow Pressure	<u>50</u> P.S.I.	<u>30</u> Mins	<u>30</u> Mins
C First Final Flow Pressure	<u>50</u> P.S.I.	<u>60</u> Mins	<u>60</u> Mins
D Initial Closed-in Pressure	<u>50</u> P.S.I.	<u>60</u> Mins	<u>60</u> Mins
E Second Initial Flow Pressure	<u>50</u> P.S.I.	<u>90</u> Mins	<u>90</u> Mins
F Second Final Flow Pressure	<u>50</u> P.S.I.		
G Final Closed-in Pressure	<u>50</u> P.S.I.		
H Final Hydrostatic Mud	<u>2460</u> 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 0	<u>50</u>	0	<u>50</u>	0	<u>50</u>	0	<u>50</u>
P 2 5	<u>50</u>	3		5		3	
P 3 10		6		10		6	
P 4 15		9		15		9	
P 5 20		12		20		12	
P 6 25		15		25		15	
P 7 30	<u>50</u>	18		30		18	
P 8 35		21		35		21	
P 9 40		24		40		24	
P10 45		27		45		27	
P11 50		30		50		30	
P12 55		33		55		33	
P13 60		36		60	<u>50</u>	36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45		75		45	
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60	<u>50</u>	100		60	<u>50</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____ Test Ticket No. _____

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 _____ mins. and a		of _____ mins. and a		of _____ mins. and a		of _____ mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 105		63		105		63	50
P 2 110		66		110		66	
P 3 115		69		115		69	
P 4 120		72		120		72	
P 5 125		75		125		75	
P 6 130		78		130		78	
P 7 135		81		135		81	
P 8 140		84		140		84	
P 9 145		87		145		87	
P10 150		90		150		90	50
P11 155		93		155		93	
P12 160		96		160		96	
P13 165		99		165		99	
P14 170		102		170		102	
P15 175		105		175		105	
P16 180		108		180		108	
P17 185		111		185		111	
P18 190		114		190		114	
P19 195		117		195		117	
P20 200		120		200		120	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 06-22-93	TICKET	: 19081
CUSTOMER	: MCCOY PETROLEUM CORP.	LEASE	: JERMAN A
WELL	: #2-5	TEST: 2	GEOLOGIST: JOHN HASTINGS
ELEVATION	: 2870 K.B.	FORMATION	: MORROW
SECTION	: 5	TOWNSHIP	: 32S
RANGE	: 34W	STATE	: KS
GAUGE SN#	: 3849	RANGE	: 4200
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	5338.00 ft	TO:	5380.00 ft	TVD:	5380.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	5360.0 ft		5363.0 ft		
TEMPERATURE:	140.0				
DRILL COLLAR LENGTH:	281.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	5029.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	42.0 ft	ANCHOR SIZE:		5.500 in	
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:		0.750 in	
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :		4.5XH	
PACKER DEPTH:	5333.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	5338.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	SWEETMAN DRLG.	VISCOSITY :	47.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.500 cc
WEIGHT :	9.000 ppg		
CHLORIDES :	2000 ppm	SERIAL NUMBER:	404
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

VERY WEAK 1/4" BLOW BUILDING TO 3.5" BLOW IN
BUCKET IN 30 MIN. ON INITIAL FLOW PERIOD. SURFACE
BLOW- DIED IN 45 MINUTES ON FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

MISRUN - NO SHUT IN PRESSURES.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
50.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.2459	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	0.2459	STB		
			TOTAL FLOW TIME:	90.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2582.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	42.00	42.00
INITIAL SHUT-IN	60.00		42.00
FINAL FLOW	60.00	42.00	42.00
FINAL SHUT-IN	90.00		42.00

FINAL HYDROSTATIC PRESSURE: 2497.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2568.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	50.00	50.00
INITIAL SHUT-IN	60.00		50.00
FINAL FLOW	60.00	50.00	50.00
FINAL SHUT-IN	90.00		50.00

FINAL HYDROSTATIC PRESSURE: 2460.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 06-22-93	TICKET : 19081
CUSTOMER : MCCOY PETROLEUM CORP.	LEASE : JERMAN A
WELL : #2-5 TEST: 2	GEOLOGIST: JOHN HASTINGS
ELEVATION: 2870 K.B.	FORMATION: MORROW
SECTION : 5	TOWNSHIP : 32S
RANGE : 34W COUNTY: SEWARD	STATE : KS
GAUGE SN#: 3849 RANGE : 4200	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	50.00	50.00
5.00	50.00	0.00
10.00	50.00	0.00
15.00	50.00	0.00
20.00	50.00	0.00
25.00	50.00	0.00
30.00	50.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	50.00	50.00	0.00
6.00	50.00	0.00	0.00
9.00	50.00	0.00	0.00
12.00	50.00	0.00	0.00
15.00	50.00	0.00	0.00
18.00	50.00	0.00	0.00
21.00	50.00	0.00	0.00
24.00	50.00	0.00	0.00
27.00	50.00	0.00	0.00
30.00	50.00	0.00	0.00
33.00	50.00	0.00	0.00
36.00	50.00	0.00	0.00
39.00	50.00	0.00	0.00
42.00	50.00	0.00	0.00
45.00	50.00	0.00	0.00
48.00	50.00	0.00	0.00
51.00	50.00	0.00	0.00
54.00	50.00	0.00	0.00
57.00	50.00	0.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	50.00	0.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	50.00	50.00
5.00	50.00	0.00
10.00	50.00	0.00
15.00	50.00	0.00
20.00	50.00	0.00
25.00	50.00	0.00
30.00	50.00	0.00
35.00	50.00	0.00
40.00	50.00	0.00
45.00	50.00	0.00
50.00	50.00	0.00
55.00	50.00	0.00
60.00	50.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	50.00	50.00	0.00
6.00	50.00	0.00	0.00
9.00	50.00	0.00	0.00
12.00	50.00	0.00	0.00
15.00	50.00	0.00	0.00
18.00	50.00	0.00	0.00
21.00	50.00	0.00	0.00
24.00	50.00	0.00	0.00
27.00	50.00	0.00	0.00
30.00	50.00	0.00	0.00
33.00	50.00	0.00	0.00
36.00	50.00	0.00	0.00
39.00	50.00	0.00	0.00
42.00	50.00	0.00	0.00
45.00	50.00	0.00	0.00
48.00	50.00	0.00	0.00

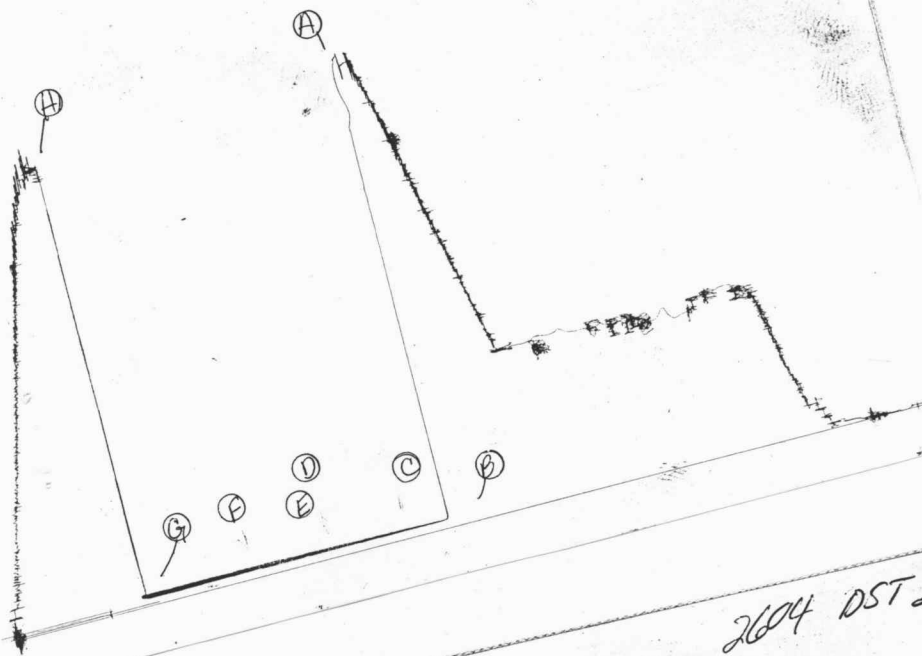
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
51.00	50.00	0.00	0.00
54.00	50.00	0.00	0.00
57.00	50.00	0.00	0.00
60.00	50.00	0.00	0.00
63.00	50.00	0.00	0.00
66.00	50.00	0.00	0.00
69.00	50.00	0.00	0.00
72.00	50.00	0.00	0.00
75.00	50.00	0.00	0.00
78.00	50.00	0.00	0.00
81.00	50.00	0.00	0.00
84.00	50.00	0.00	0.00
87.00	50.00	0.00	0.00
90.00	50.00	0.00	0.00

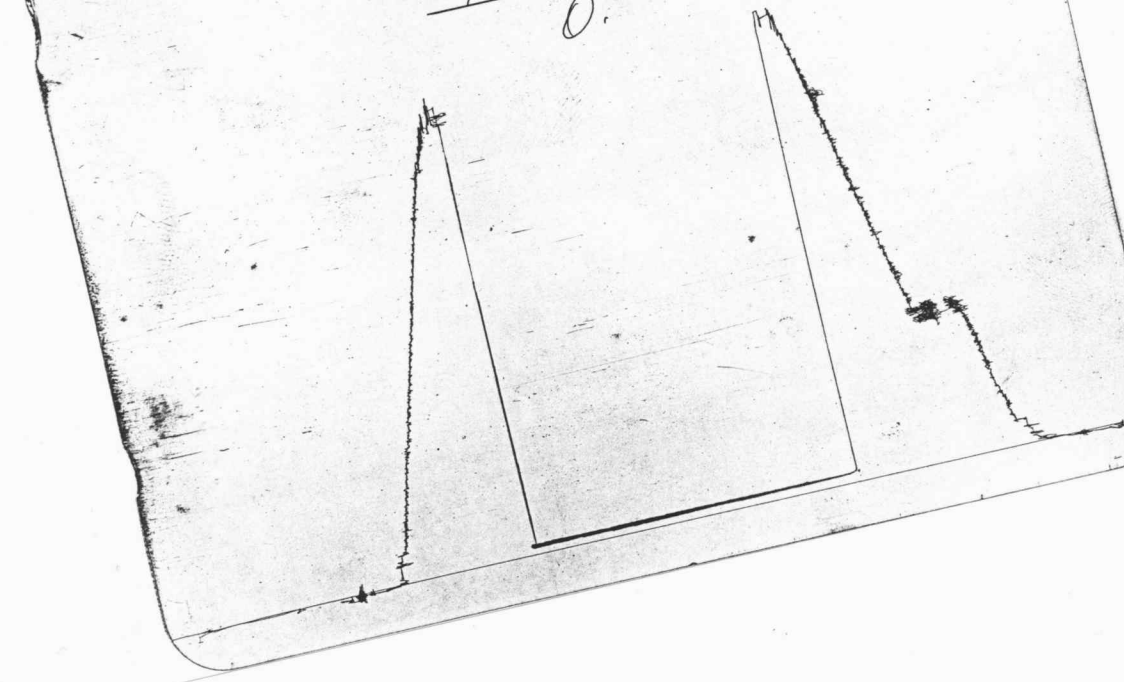
#3847 DST 2

TK-#19081
I.



2604 DST 2

TK-#19081
O.





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 19082

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 2870 KP Formation Morrow Eff. Pay

District Garden City Date 6-22-93 Customer Order No.

COMPANY NAME McCoy Pet

ADDRESS 110 S. Main Suite 500 Wichita KS 67202

LEASE AND WELL NO. 2-5 Serman 'A' COUNTY Seward STATE KS Sec. 5 Twp. 32s Rge. 34w

Mail Invoice To McCoy Pet Co. Name SAME Address No. Copies Requested 109

Mail Charts To McCoy Pet Co. Name SAME Address No. Copies Requested 109

Formation Test No. 3 Interval Tested From 5380 ft. to 5390 ft. Total Depth 5390 ft.

Packer Depth 5375 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 5380 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 5382 ft. Recorder Number 3849 Cap. 4200

Bottom Recorder Depth (Outside) 5385 ft. Recorder Number 2604 Cap. 4150

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

Drilling Contractor Sweetman

Mud Type Chemical Viscosity 61

Weight 9.0 Water Loss 11.2 cc.

Chlorides 2000 P.P.M.

Jars: Make WTC Serial Number 404

Did Well Flow? No Reversed Out No

Drill Collar Length 281 I. D. 2 1/4 in.

Weight Pipe Length — I. D. — in.

Drill Pipe Length 5071 I. D. 3.8 in.

Test Tool Length 28 ft. Tool Size 5 1/2 in.

Anchor Length 10 ft. Size 5 1/2 in.

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 x H in.

Blow:

Recovered 505 ft. of Dr. Mol

Recovered — ft. of

Recovered — ft. of

Recovered — ft. of

Recovered — ft. of

Chlorides — P.P.M. Sample Jars used — Remarks: Miss-Run due to Packer Failure.

Time On Location 7:30 A.M. Time Pick Up Tool 9:20 A.M. Time Off Location — A.M.

Time Set Packer(s) 11:00 A.M. Time Started Off Bottom 11:20 A.M. Maximum Temperature — P.M.

Initial Hydrostatic Pressure (A) 2567 P.S.I. 2584

Initial Flow Period — Minutes (B) — P.S.I. to (C) — P.S.I.

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

Final Flow Period — Minutes (E) — P.S.I. to (F) — P.S.I.

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

Final Hydrostatic Pressure (H) 2514 P.S.I. 2514

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 John P. Hardy
Signature of Customer or his authorized representativeWestern Representative Jimmy S. Salaga
Vicki P. Cozals

FIELD INVOICE

Open Hole Test	\$
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
Insurance	\$
Telecopier	\$
TOTAL	\$

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY MCCOY PETROLEUM CORP. LEASE & WELL NO. JERMAN "A" #2-5 SEC. 5 TWP. 32S RGE. 34W TEST NO. 3 DATE 6-22-93

DST REPORT

GENERAL INFORMATION

DATE	: 06-22-93	TICKET	: 19082
CUSTOMER	: MCCOY PETROLEUM CORP.	LEASE	: JERMAN A
WELL	: #2-5	TEST: 3	GEOLOGIST: JOHN HASTINGS
ELEVATION	: 2870 K.B.	FORMATION	: MORROW
SECTION	: 5	TOWNSHIP	: 32S
RANGE	: 34W	STATE	: KS
GAUGE SN#	: 3849	RANGE	: 4200
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	5380.00 ft	TO:	5390.00 ft	TVD:	5390.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	5382.0 ft		5385.0 ft		
TEMPERATURE:	0.0				
DRILL COLLAR LENGTH:	281.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	5071.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	10.0 ft	ANCHOR SIZE:		5.500 in	
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:		0.750 in	
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :		4.5XH	
PACKER DEPTH:	5375.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	5380.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	SWEETMAN DRLG.	VISCOSITY :	61.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	11.200 cc
WEIGHT :	9.000 ppg	SERIAL NUMBER:	404
CHLORIDES :	2000 ppm	REVERSED OUT?:	NO
JARS-MAKE :	WTC		
DID WELL FLOW?:	NO		

COMMENTS

Comment

MISRUN, PACKER FAILURE.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	NO RECOVERY MISRUN

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.0000	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	0.0000	STB		
			TOTAL FLOW TIME:	No Events Created
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2567.00

Description	Duration	p1	p End
INITIAL FLOW	0.00	0.00	0.00
INITIAL SHUT-IN	0.00		0.00
FINAL FLOW	0.00	0.00	0.00
FINAL SHUT-IN	0.00		0.00

FINAL HYDROSTATIC PRESSURE: 2514.00

OFFICE TIME & PRESSURE INFORMATION

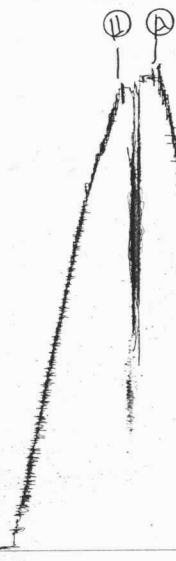
INITIAL HYDROSTATIC PRESSURE: 2584.00

Description	Duration	p1	p End
INITIAL FLOW	0.00	0.00	0.00
INITIAL SHUT-IN	0.00		

FINAL HYDROSTATIC PRESSURE: 2514.00

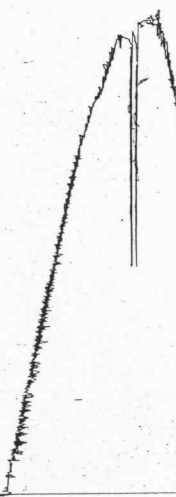
#3849 DST 3

TK# 19082
I.



2604 DST 3

TK# 19082
O.





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No 19083

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 2870 K.B. Formation Meridian Eff. Pay _____ Ft.

District Carden City Date 6-23-83 Customer Order No. _____

COMPANY NAME McLay Pet.

ADDRESS 110 S. Main, Suite 500 Wichita, KS 67202

LEASE AND WELL NO. 25 Jerman "A" COUNTY Seward STATE KS. Sec. 5 Twp. 32S Rge. 34W

Mail Invoice To McLay Pet. #2-5 Jerman "A" No. Copies Requested Reg.
Co. Name Address

Mail Charts To McLay Pet. Same No. Copies Requested Reg.
Address

Formation Test No. 4 Interval Tested From 5335 ft. to 5390 ft. Total Depth 5390 ft.

Packer Depth 5330 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 5335 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5347 ft. Recorder Number 3849 Cap. 4200

Bottom Recorder Depth (Outside) 5350 ft. Recorder Number 2604 Cap. 4150

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

Drilling Contractor Sweetman Drill Collar Length 250 I. D. _____ in.

Mud Type Chem Viscosity 61 Weight Pipe Length _____ I. D. _____ in.

Weight 9.0 Water Loss 11.2 cc. Drill Pipe Length 5057 I. D. 3.8 in.

Chlorides 2,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.

Jars: Make W.T.C. Serial Number 4404 Anchor Length (31+24) 55 ft. Size 6 1/2 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 X.H. in.

Blow: Strung in 30 Sec. G.T.S. in 2 Min. See Flow chart I.F.
See Flow Chart F.F.

Recovered 5 ft. of Carbonate

Recovered 20 ft. of Sh Oil cut Wbby mud 6% Oil 64% mud 30% WTR

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of Total Fluid Rec. 25'

Chlorides 15,000 P.P.M. Sample Jars used _____ Remarks: _____

Time On Location 7:30 6:28 A.M. Time Pick Up Tool 1:45 AM Time Off Location _____ A.M.
P.M. P.M. P.M.

Time Set Packer(s) 3:45 AM Time Started Off Bottom 7:45 AM Maximum Temperature 140°
P.M. P.M. P.M.

Initial Hydrostatic Pressure _____ (A) 2557 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 964 P.S.I. to (C) 991 P.S.I.

Initial Closed In Period _____ Minutes 60 (D) 1265 P.S.I.

Final Flow Period _____ Minutes 60 (E) 1037 P.S.I. to (F) 1048 P.S.I.

Final Closed In Period _____ Minutes 90 (G) 1225 P.S.I.

Final Hydrostatic Pressure _____ (H) 2476 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 John P. Hatz
Signature of Customer or his authorized representative

Western Representative Henry S. Salazar

FIELD INVOICE

Open Hole Test ☒ \$
Misrun \$
Straddle Test \$
Jars ☒ \$
Selective Zone \$
Safety Joint ☒ \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$



GAS FLOW REPORT

Nº 4765

Date 6-23-93 Ticket 19083 Company McLey Pet.
 Well Name and No. 2-5 Jernan "A" Dst No. 4 Interval Tested 5335-5390
 County Seneca State Ks. Sec. 5 Twp. 32 S. Rg. 34 W.

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
PRE FLOW					
5	26	1 1/2"			G.T.S. in 2 Min. I.F.
10	50	"			2,319,000 M.C.F.P.D.
15	56	"			3,752,000 "
20	"	"			4,110,000 "
25	60	"			"
30	64	"			4,347,000 "
					4,588,000 "
Note: Blowing Heavy, then Fine mist at end from 15 thru 30 min.					

SECOND FLOW

5	46	1 1/2"			3,513,000 M.C.F.P.D.
10	64	"			4,588,000 "
15	68	"			4,827,000 "
20	72	"			5,065,000 "
30	72	"			5,065,000 "
40	11	"			"
50	11	"			"
60	11	"			"

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

10' Pay

Porosity

Test Ticket No. 19083

6-23-93

Order No 3849

Job No 00532

Capacity 4200

Location 5347 Ft.

Elevation 2870 A.B.

Well Temperature 140 °F

Initial Pressure
Initial Hydrostatic Mod 2400 2557 P.S.I.
First Initial Flow Pressure 962 P.S.I.
First Final Flow Pressure 979 P.S.I.
Initial Closed-In Pressure 1263 P.S.I.
Second Initial Flow Pressure 1041 P.S.I.
Second Final Flow Pressure 1048 P.S.I.
Final Closed-In Pressure 1221 P.S.I.
Final Hydrostatic Mod 2316 2436 P.S.I.

Open Tool

Time Given 240 Time Computed 240

First Flow Pressure 30 Min 30 Min
Initial Closed-In Pressure 60 Min 60 Min
Second Flow Pressure 60 Min 60 Min
Final Closed-In Pressure 90 Min 90 Min

PRESSURE BREAKDOWN

First Flow Pressure			Initial Shut-In			Second Flow Pressure			Final Shut-In		
Breakdown: _____ Loc			Breakdown: _____ Loc			Breakdown: _____ Loc			Breakdown: _____ Loc		
of 5 min and a			of 3 min and a			of 5 min and a			of 3 min and a		
final loc of 0 Min			final loc of 0 Min			final loc of 0 Min			final loc of 0 Min		
Point Minutes	Press.		Point Minutes	Press.		Point Minutes	Press.		Point Minutes	Press.	
P 1 0	912	962	0	928	979	0	988	1041	0	994	1048
P 2 5	912	962	3	1180	1242	5	994	1048	3	1120	1179
P 3 10	914	964	6	1186	1248	10	1000	1054	6	1126	1186
P 4 15	922	972	9	1190	1253	15	1004	1058	9	1128	1188
P 5 20	926	976	12	1192	1255	20	1006	1060	12	1130	1190
P 6 25	928	979	15	1194	1257	25	1006	"	15	1132	1192
P 7 30	928	979	18	1196	1259	30	1006	"	18	1134	1194
P 8 35			21	1198	1261	35	1002	1056	21	1136	1196
P 9 40			24	1198	"	40	998	1052	24	1138	1198
P 10 45			27	1198	"	45	998	"	27	1138	"
P 11 50			30	1198	"	50	996	1050	30	1138	"
P 12 55			33	1198	"	55	994	1048	33	1140	1200
P 13 60			36	1198	"	60	994	"	36	1142	1202
P 14 65			39	1198	"	65			39	1142	"
P 15 70			42	1198	"	70			42	1144	1205
P 16 75			45	1198	"	75			45	1144	"
P 17 80			48	1198	"	80			48	1146	1207
P 18 85			51	1198	"	85			51	1146	"
P 19 90			54	1200	1263	90			54	1148	1209
P 20 95			57	1200	"	95			57	1148	"
100			60	1200	"	100			60	1150	1211

WESTERN TESTING CO., INC.

Pressure Data

MMGE L

Date _____ Test Ticket No. _____

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>2430</u>	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 <u>2316</u>	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 _____ mins. and a		of _____ mins. and a		of _____ mins. and a		of _____ mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 105		63		105		63 <u>1150</u>	<u>1211</u>
P 2 110		66		110		66 <u>1150</u>	"
P 3 115		69		115		69 <u>1152</u>	<u>1213</u>
P 4 120		72		120		72 <u>1152</u>	"
P 5 125		75		125		75 <u>1154</u>	<u>1215</u>
P 6 130		78		130		78 <u>1154</u>	"
P 7 135		81		135		81 <u>1156</u>	<u>1217</u>
P 8 140		84		140		84 <u>1158</u>	<u>1219</u>
P 9 145		87		145		87 <u>1158</u>	"
P10 150		90		150		90 <u>1160</u>	<u>1221</u>
P11 155		93		155		93	
P12 160		96		160		96	
P13 165		99		165		99	
P14 170		102		170		102	
P15 175		105		175		105	
P16 180		108		180		108	
P17 185		111		185		111	
P18 190		114		190		114	
P19 195		117		195		117	
P20 200		120		200		120	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 06-23-93
CUSTOMER : MCCOY PETROLEUM CORP.
WELL : #2-5 TEST: 4
ELEVATION: 2870 K.B.
SECTION : 5
RANGE : 34W COUNTY: SEWARD
GAUGE SN#: 3849 RANGE : 4200

TICKET : 19083
LEASE : JERMAN A
GEOLOGIST: JOHN HASTINGS
FORMATION: MORROW
TOWNSHIP : 32S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 5335.00 ft TO: 5390.00 ft TVD: 5390.0 ft
DEPTH OF SELECTIVE ZONE:
DEPTH OF RECORDERS: 3849.0 ft 4200.0 ft TEST TYPE: GAS
TEMPERATURE: 140.0

DRILL COLLAR LENGTH:	250.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	5057.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	55.0 ft	ANCHOR SIZE:	6.500 in
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH:	5330.0 ft	SIZE:	6.630 in
PACKER DEPTH:	5335.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : SWEETMAN DRLG.
MUD TYPE : CHEMICAL
WEIGHT : 9.000 ppg
CHLORIDES : 2000 ppm
JARS-MAKE : WTC
DID WELL FLOW?: NO

VISCOSITY : 61.00 cp
WATER LOSS: 11.200 cc

SERIAL NUMBER: 404
REVERSED OUT?: NO

COMMENTS

Comment

STRONG BLOW IN 30 SECONDS ON INITIAL FLOW PERIOD.
GAS TO SURFACE IN 2 MINUTES ON INITIAL FLOW PERIOD
SEE ATTACHED SHEET FOR GAS MEASUREMENTS.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
20.0	6.0	0.0	30.0	64.0	SLI. OIL C/WATERY MUD
0.0	0.0	0.0	0.0	0.0	REC. 5' OF CONDENSATE
0.0	0.0	0.0	0.0	0.0	CHLORIDES 15000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000 STB		
GAS VOLUME:	0.0000 SCF		
MUD VOLUME:	0.0000 STB		
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.0000 STB		
		TOTAL FLOW TIME:	90.0000 min.
		AVERAGE OIL RATE:	0.0000 STB/D
		AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2557.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	964.00	991.00
INITIAL SHUT-IN	60.00		1265.00
FINAL FLOW	60.00	1037.00	1048.00
FINAL SHUT-IN	90.00		1225.00

FINAL HYDROSTATIC PRESSURE: 2476.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2557.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	962.00	979.00
INITIAL SHUT-IN	60.00		1263.00
FINAL FLOW	60.00	1041.00	1048.00
FINAL SHUT-IN	90.00		1221.00

FINAL HYDROSTATIC PRESSURE: 2436.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 06-23-93	TICKET : 19083
CUSTOMER : MCCOY PETROLEUM CORP.	LEASE : JERMAN A
WELL : #2-5 TEST: 4	GEOLOGIST: JOHN HASTINGS
ELEVATION: 2870 K.B.	FORMATION: MORROW
SECTION : 5	TOWNSHIP : 32S
RANGE : 34W COUNTY: SEWARD	STATE : KS
GAUGE SN#: 3849 RANGE : 4200	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
2 MIN.		0.000	GAS TO SURF.	0 SCF/D
5 MIN.	MERLA	1.500	26 PSIG	2319000 SCF/D
10 MIN.	MERLA	1.500	50 PSIG	3752000 SCF/D
15 MIN.	MERLA	1.500	56 PSIG	4110000 SCF/D
20 MIN.	MERLA	1.500	56 PSIG	4110000 SCF/D
25 MIN.	MERLA	1.500	60 PSIG	4349000 SCF/D
30 MIN.	MERLA	1.500	64 PSIG	4588000 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
5 MIN.	MERLA	1.500	46 PSIG	3513000 SCF/D
10 MIN.	MERLA	1.500	64 PSIG	4588000 SCF/D
15 MIN.	MERLA	1.500	68 PSIG	4827000 SCF/D
20 MIN.	MERLA	1.500	72 PSIG	5065000 SCF/D
30 MIN.	MERLA	1.500	72 PSIG	5065000 SCF/D
40 MIN.	MERLA	1.500	72 PSIG	5065000 SCF/D
50 MIN.	MERLA	1.500	72 PSIG	5065000 SCF/D
60 MIN.	MERLA	1.500	72 PSIG	5065000 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 06-23-93	TICKET	: 19083
CUSTOMER	: MCCOY PETROLEUM CORP.	LEASE	: JERMAN A
WELL	: #2-5	TEST:	4
ELEVATION:	2870 K.B.	GEOLOGIST:	JOHN HASTINGS
SECTION	: 5	FORMATION:	MORROW
RANGE	: 34W	TOWNSHIP	: 32S
COUNTY:	SEWARD	STATE	: KS
Gauge SN#:	3849	RANGE	: 4200
		CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	962.00	962.00
5.00	962.00	0.00
10.00	964.00	2.00
15.00	972.00	8.00
20.00	976.00	4.00
25.00	979.00	3.00
30.00	979.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1242.00	1242.00	11.00
6.00	1248.00	6.00	6.00
9.00	1253.00	5.00	4.33
12.00	1255.00	2.00	3.50
15.00	1257.00	2.00	3.00
18.00	1259.00	2.00	2.67
21.00	1261.00	2.00	2.43
24.00	1261.00	0.00	2.25
27.00	1261.00	0.00	2.11
30.00	1261.00	0.00	2.00
33.00	1261.00	0.00	1.91
36.00	1262.00	1.00	1.83
39.00	1262.00	0.00	1.77
42.00	1262.00	0.00	1.71
45.00	1262.00	0.00	1.67
48.00	1262.00	0.00	1.63
51.00	1263.00	1.00	1.59
54.00	1263.00	0.00	1.56
57.00	1263.00	0.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1263.00	0.00	1.50

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	1041.00	1041.00
5.00	1048.00	7.00
10.00	1054.00	6.00
15.00	1058.00	4.00
20.00	1060.00	2.00
25.00	1060.00	0.00
30.00	1060.00	0.00
35.00	1056.00	-4.00
40.00	1052.00	-4.00
45.00	1052.00	0.00
50.00	1050.00	-2.00
55.00	1048.00	-2.00
60.00	1048.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1179.00	1179.00	21.00
6.00	1186.00	7.00	11.00
9.00	1188.00	2.00	7.67
12.00	1190.00	2.00	6.00
15.00	1192.00	2.00	5.00
18.00	1194.00	2.00	4.33
21.00	1196.00	2.00	3.86
24.00	1198.00	2.00	3.50
27.00	1200.00	2.00	3.22
30.00	1201.00	1.00	3.00
33.00	1202.00	1.00	2.82
36.00	1203.00	1.00	2.67
39.00	1204.00	1.00	2.54
42.00	1205.00	1.00	2.43
45.00	1206.00	1.00	2.33
48.00	1207.00	1.00	2.25

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

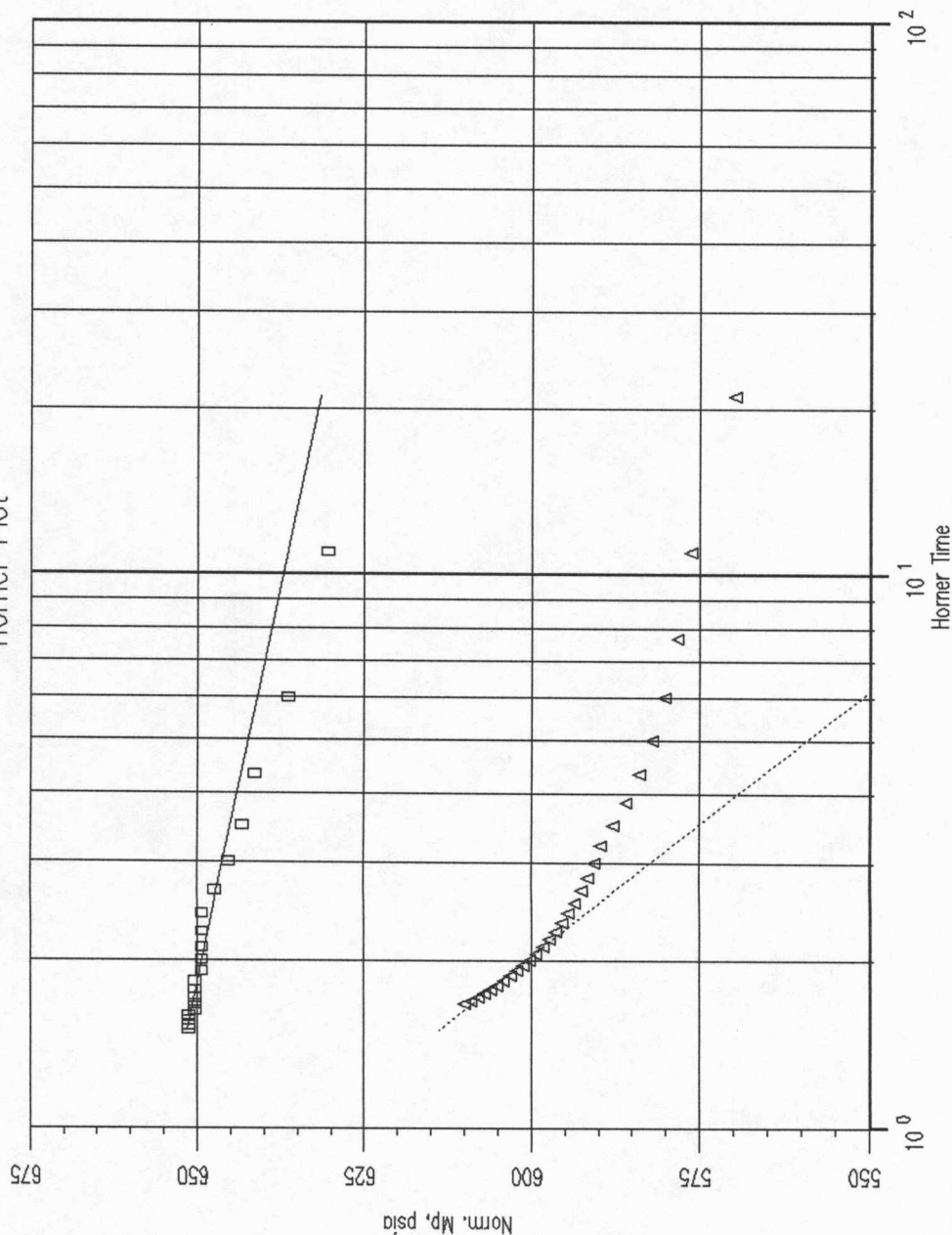
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
51.00	1208.00	1.00	2.18
54.00	1209.00	1.00	2.11
57.00	1210.00	1.00	2.05
60.00	1211.00	1.00	2.00
63.00	1212.00	1.00	1.95
66.00	1213.00	1.00	1.91
69.00	1214.00	1.00	1.87
72.00	1215.00	1.00	1.83
75.00	1216.00	1.00	1.80
78.00	1217.00	1.00	1.77
81.00	1218.00	1.00	1.74
84.00	1219.00	1.00	1.71
87.00	1220.00	1.00	1.69
90.00	1221.00	1.00	1.67

DATE 06-23-93
 CUSTOMER MCCOY PETROLEUM CORP.
 WELL #2-5
 ELEVATION 2870 K.B.
 SECTION 5
 RANGE 34W
 GAUGE SN# 3849

TEST 4
 COUNTY SEWARD
 RANGE 4200

TICKET 19083
 LEASE JERMAN A
 GEOLOGIST JOHN HASTINGS
 FORMATION MORROW
 TOWNSHIP 32S
 STATE KS
 CLOCK 12

Horner Plot



Result

	#1	#2
tp, hrs	0.50	1.00
Slope	-17.37	-103.94
Pstar, psig	1266.14	1243.54
P1hr, psig	651.44	600.74
Skin	11.16	-3.44
k, md	143.21	23.94
kh/u, md-ft/cp	99502.40	16630.65
ri, ft	173.14	100.10
DR, %	2.68	0.30
Drawdown Factor, %		0.033
Drawdown P*		0.018

— BUILD 1
 BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 06-23-93	TICKET : 19083
CUSTOMER : MCCOY PETROLEUM CORP.	LEASE : JERMAN A
WELL : #2-5 TEST: 4	GEOLOGIST: JOHN HASTINGS
ELEVATION: 2870 K.B.	FORMATION: MORROW
SECTION : 5	TOWNSHIP : 32S
RANGE : 34W COUNTY: SEWARD	STATE : KS
GAUGE SN#: 3849 RANGE : 4200	CLOCK : 12

Input Data

Porosity 0.200 Rw: 0.328 ft h: 10.000 ft

qg 5065000.0 STB

Pvt Data

Evalutation Pressure : 1263.0
 Evalutation Temperature: 140.0

Gas Grav 0.65 API	Vis 0.014 cp	Ct 8.7531E-004 1/PSI
Bg 0.002 RBL/STB		

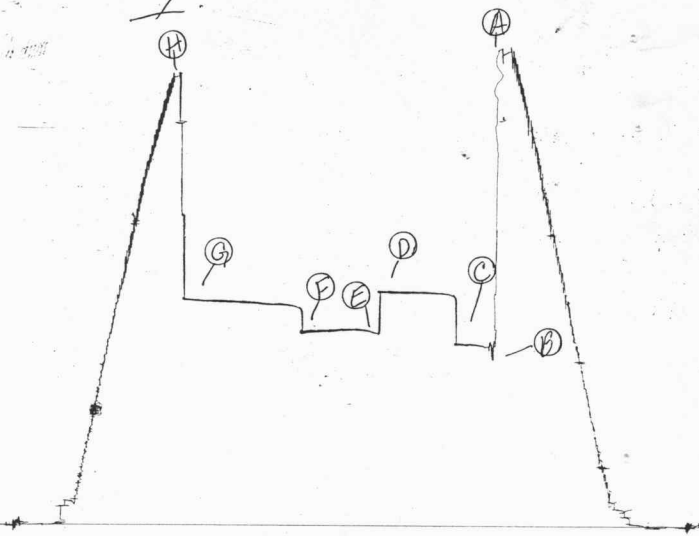
Horner Results

	Inital Shut-In	Final Shut-In
pseudo pressure time	0.50 hrs	1.00 hrs
slope	-17.37	-103.94
pstar	1266.14 psig	1243.54 psig
plhr	651.44 psig	600.74 psig
skin	11.16	-3.44
permeability	143.21 md	23.94 md
transmisability	99502.40 md-ft/cp	16630.65 md-ft/cp
radius of investigation	173.14 ft	100.10 ft
Damage-Ratio	2.7 percent	0.3 percent
Drawdown Factor		0.033 percent
Drawdown P*		0.018 percent

#3847 DST 4

TL#19083

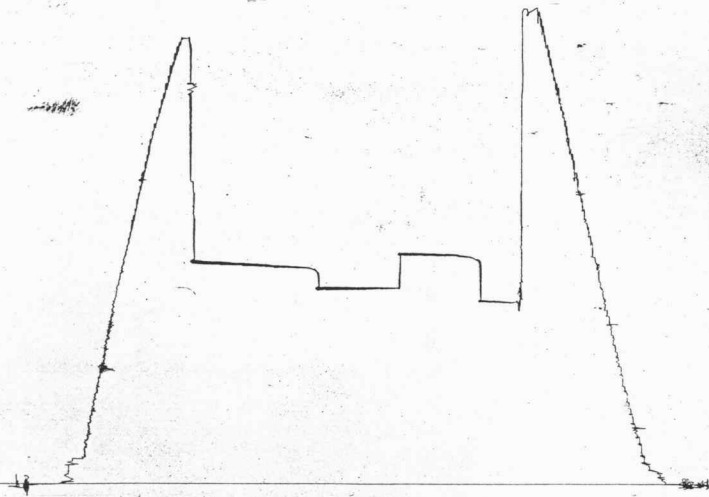
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2804 DST 4

TL#19083

O.





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

Nº 19084

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 2870 KB

Formation Chester

Eff. Pay _____ Ft.

District Garden City Date 6-24-93 Customer Order No. _____

COMPANY NAME McCoy Pet

ADDRESS 110 S. Main Suite 500 Wichita KS. 67202

LEASE AND WELL NO. 2-5 JERMAN "A" COUNTY Seward STATE KS Sec. 5 Twp 32 S Rge 34 W

Mail Invoice To McCoy Pet SAME No. Copies Requested Reg

Mail Charts To McCoy Pet SAME No. Copies Requested Reg

Formation Test No. 5 Interval Tested From 5640 ft. to 5720 ft. Total Depth 5720 ft.

Packer Depth 5635 ft. Size 65/8 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 5640 ft. Size 65/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5647 ft. Recorder Number 3849 Cap. 4200

Bottom Recorder Depth (Outside) 5650 ft. Recorder Number 2604 Cap. 4150

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

Drilling Contractor Sweetman Drill Collar Length 219 I. D. 2 1/4 in.

Mud Type chemical Viscosity 46 Weight Pipe Length _____ I. D. _____ in.

Weight 9.0 Water Loss 10.4 cc. Drill Pipe Length 5393 I. D. 3.8 in.

Chlorides 4500 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.

Jars: Make W.T.C. Serial Number 404 Anchor Length (62+18) 80 ft. Size 6 1/2 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 x H in.

Blow: Strong in 30 sec. 6 TS in 3 min. See flow chart
See flow chart - F.F.

Recovered 20 ft. of condensate w/show of oil

Recovered 5 ft. of salt water

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of total fluid rec. 25'

Chlorides 44,500 P.P.M. Sample Jars used _____ Remarks: _____

Time On Location 9:45 A.M. Time Pick Up Tool 1:20 P.M. Time Off Location _____ A.M. P.M.

Time Set Packer(s) 3:00 A.M. P.M. Time Started Off Bottom 8:00 A.M. P.M. Maximum Temperature 145° F

Initial Hydrostatic Pressure _____ (A) 2682 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 1079 P.S.I. to (C) 1161 P.S.I.

Initial Closed In Period _____ Minutes 60 (D) 1728 P.S.I.

Final Flow Period _____ Minutes 90 (E) 1198 P.S.I. to (F) 1265 P.S.I.

Final Closed In Period _____ Minutes 120 (G) 1728 P.S.I.

Final Hydrostatic Pressure _____ (H) 2650 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 John P. Nasty
Signature of Customer or his authorized representative

Western Representative Larry S. Salge

FIELD INVOICE

Open Hole Test ☒ \$ ☒
Misrun \$ ☐
Straddle Test \$ ☐
Jars ☒ \$ ☒
Selective Zone \$ ☐
Safety Joint ☒ \$ ☒
Standby \$ ☐
Evaluation \$ ☐
Extra Packer \$ ☐
Circ. Sub. \$ ☐
Mileage \$ ☐
Fluid Sampler \$ ☐
Extra Charts \$ ☐
Insurance \$ ☐
Telecopier \$ ☐
TOTAL \$ ☐



GAS FLOW REPORT

No 4766

Date 6-24-93 Ticket _____ Company McCoy Pet Ost
 Well Name and No. Jerman A 2-5 Dst No. 5 Interval Tested 5640-5720
 County SEWARD State KS Sec. 5 Twp. 32s Rg. 34w

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
PRE FLOW					
5	38	1 1/2"			6 T.S. 3 min I F
10	60	"			3036,000 M.C.F.P.D.
15	66	"			4,349,000 "
20	70	"			4,707,000 "
25	74	"			4,946,000 "
30	76	"			5,185,000 "
					5,304,000 "
Blowing fine mist of mud 17 min - 30 min					
Note: the					

SECOND FLOW					
5	64	1 1/2"			4,588,000 M.C.F.P.D.
10	78	"			5,424,000 "
15	84	"			5,732,000 "
20	86	"			5,901,000 "
25	86	"			"
30	"	"			"
40	94	"			6,379,000 "
50	89	"			6,080,000 "
60	82	"			5,662,000 "
70	94	"			6,379,000 "
80	88	"			6,021,000 "
90	90	"			6,140,000 "
Note: Slight show of oil on show					

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 6-24-93

Test Ticket No. 19084

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud <u>2690</u>	P.S.I.	Open Tool	M	
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure	<u>30</u> Mins.	_____ Mins.
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	_____ Mins.
D Initial Closed-in Pressure _____	P.S.I.	Second Flow Pressure	<u>90</u> Mins.	_____ Mins.
E Second Initial Flow Pressure _____	P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	_____ Mins.
F Second Final Flow Pressure _____	P.S.I.			
G Final Closed-in Pressure _____	P.S.I.			
H Final Hydrostatic Mud <u>2673</u>	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 0	<u>876</u>	0	<u>1161</u>	0	<u>1194</u>	0	<u>1271</u>
P 2 5	<u>1081</u>	3	<u>1661</u>	5	<u>1251</u>	3	<u>1651</u>
P 3 10	<u>1117</u>	6	<u>1698</u>	10	<u>1265</u>	6	<u>1665</u>
P 4 15	<u>1154</u>	9	<u>1713</u>	15	<u>1271</u>	9	<u>1675</u>
P 5 20	<u>1154</u>	12	<u>1717</u>	20		12	<u>1682</u>
P 6 25	<u>1161</u>	15	<u>1719</u>	25		15	<u>1688</u>
P 7 30	<u>1161</u>	18	<u>1720</u>	30		18	<u>1690</u>
P 8 35		21	<u>1721</u>	35		21	<u>1692</u>
P 9 40		24	<u>1722</u>	40		24	<u>1693</u>
P10 45		27	<u>1723</u>	45		27	<u>1694</u>
P11 50		30	<u>1724</u>	50		30	<u>1695</u>
P12 55		33	<u>1725</u>	55		33	<u>1696</u>
P13 60		36	<u>1726</u>	60		36	<u>1697</u>
P14 65		39	<u>1728</u>	65		39	<u>1698</u>
P15 70		42	<u>1728</u>	70		42	<u>1699</u>
P16 75		45	<u>1729</u>	75		45	<u>1700</u>
P17 80		48	<u>1730</u>	80		48	<u>1701</u>
P18 85		51	<u>2</u>	85		51	<u>1702</u>
P19 90		54	<u>8</u>	90	<u>1271</u>	54	<u>1703</u>
P20 95		57	<u>8</u>	95		57	<u>1704</u>
100		60	<u>1730</u>	100		60	<u>1705</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 19084

Recorder No. _____ Capacity _____ Location _____ Ft.

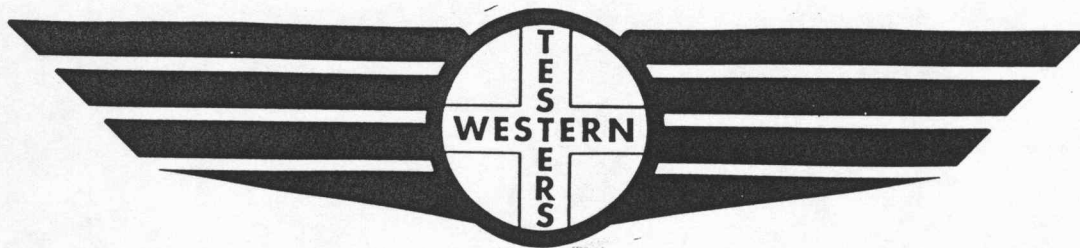
Clock No. _____ Elevation _____ Well Temperature _____ °F

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>105</u>		<u>63</u>		<u>105</u>		<u>63</u>	<u>1706</u>
P 2 <u>110</u>		<u>66</u>		<u>110</u>		<u>66</u>	<u>1707</u>
P 3 <u>115</u>		<u>69</u>		<u>115</u>		<u>69</u>	<u>1708</u>
P 4 <u>120</u>		<u>72</u>		<u>120</u>		<u>72</u>	<u>1709</u>
P 5 <u>125</u>		<u>75</u>		<u>125</u>		<u>75</u>	<u>1710</u>
P 6 <u>130</u>		<u>78</u>		<u>130</u>		<u>78</u>	<u>1711</u>
P 7 <u>135</u>		<u>81</u>		<u>135</u>		<u>81</u>	<u>1712</u>
P 8 <u>140</u>		<u>84</u>		<u>140</u>		<u>84</u>	<u>1713</u>
P 9 <u>145</u>		<u>87</u>		<u>145</u>		<u>87</u>	
P10 <u>150</u>		<u>90</u>		<u>150</u>		<u>90</u>	
P11 <u>155</u>		<u>93</u>		<u>155</u>		<u>93</u>	
P12 <u>160</u>		<u>96</u>		<u>160</u>		<u>96</u>	
P13 <u>165</u>		<u>99</u>		<u>165</u>		<u>99</u>	
P14 <u>170</u>		<u>102</u>		<u>170</u>		<u>102</u>	
P15 <u>175</u>		<u>105</u>		<u>175</u>		<u>105</u>	
P16 <u>180</u>		<u>108</u>		<u>180</u>		<u>108</u>	
P17 <u>185</u>		<u>111</u>		<u>185</u>		<u>111</u>	
P18 <u>190</u>		<u>114</u>		<u>190</u>		<u>114</u>	
P19 <u>195</u>		<u>117</u>		<u>195</u>		<u>117</u>	
P20 <u>200</u>		<u>120</u>		<u>200</u>		<u>120</u>	<u>1713</u>

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 6-24-93
CUSTOMER : MCCOY PETROLEUM CORP.
WELL : 2-5 A TEST: 5
ELEVATION: 2870 K.B.
SECTION : 5
RANGE : 34W COUNTY: SEWARD
GAUGE SN#: 3849 RANGE : 4200

TICKET : 19084
LEASE : JERMAN
GEOLOGIST: HASTINGS
FORMATION: CHESTER
TOWNSHIP : 32S
STATE : KS
CLOCK : 12HR

WELL INFORMATION

PERFORATION INTERVAL FROM: 5640.00 ft TO: 5720.00 ft TVD: 5720.0 ft
DEPTH OF SELECTIVE ZONE: NONE TEST TYPE: GAS
DEPTH OF RECORDERS: 5657.0 ft 5650.0 ft
TEMPERATURE: 145.0

DRILL COLLAR LENGTH:	219.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	5393.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	80.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH:	5635.0 ft	SIZE:	6.625 in
PACKER DEPTH:	5640.0 ft	SIZE:	6.625 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : SWEETMAN
MUD TYPE : CHEMICAL
WEIGHT : 9.000 ppg
CHLORIDES : 4500 ppm
JARS-MAKE : W.T.C.
DID WELL FLOW?: YES

VISCOSITY : 46.00 cp
WATER LOSS: 10.400 cc

SERIAL NUMBER: 404
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW IN 30 SECONDS
GAS TO SURFACE IN 3 MIN. SEE GAS FLOW CHART
FINAL FLOW PERIOD SEE GAS FLOW CHART

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
20.0	100.0	0.0	0.0	0.0	CONDENSATE WITH SHOW OF
0.0	0.0	0.0	0.0	0.0	OIL
5.0	0.0	0.0	100.0	0.0	SALT WATER

RATE INFORMATION

OIL VOLUME:	0.0983	STB	
GAS VOLUME:	0.0000	SCF	
MUD VOLUME:	0.0000	STB	
WATER VOLUME:	0.0246	STB	
TOTAL FLUID :	0.1229	STB	
			TOTAL FLOW TIME: 120.0000 min.
			AVERAGE OIL RATE: 1.1802 STB/D
			AVERAGE WATER RATE: 0.2950 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2682.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	1079.00	1161.00
INITIAL SHUT-IN	60.00		1728.00
FINAL FLOW	90.00	1198.00	1265.00
FINAL SHUT-IN	120.00		1728.00

FINAL HYDROSTATIC PRESSURE: 2650.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2690.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	876.00	1161.00
INITIAL SHUT-IN	60.00		1730.00
FINAL FLOW	90.00	1194.00	1271.00
FINAL SHUT-IN	120.00		1713.00

FINAL HYDROSTATIC PRESSURE: 2673.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 6-24-93
 CUSTOMER : MCCOY PETROLEUM CORP.
 WELL : 2-5 A TEST: 5
 ELEVATION: 2870 K.B.
 SECTION : 5
 RANGE : 34W COUNTY: SEWARD
 GAUGE SN#: 3849 RANGE : 4200

TICKET : 19084
 LEASE : JERMAN
 GEOLOGIST: HASTINGS
 FORMATION: CHESTER
 TOWNSHIP : 32S
 STATE : KS
 CLOCK : 12HR

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
5	MERLA	1.500	38 PSI	3036000 SCF/D
10	MERLA	1.500	60 PSI	4349000 SCF/D
15	MERLA	1.500	66 PSI	4707000 SCF/D
20	MERLA	1.500	70 PSI	4946000 SCF/D
25	MERLA	1.500	74 PSI	5185000 SCF/D
30	MERLA	1.500	76 PSI	5304000 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
5	MERLA	1.500	64 PSI	4588000 SCF/D
10	MERLA	1.500	78 PSI	5424000 SCF/D
15	MERLA	1.500	84 PSI	5782000 SCF/D
20	MERLA	1.500	86 PSI	5901000 SCF/D
25	MERLA	1.500	86 PSI	5901000 SCF/D
30	MERLA	1.500	86 PSI	5901000 SCF/D
40	MERLA	1.500	94 PSI	6379000 SCF/D
50	MERLA	1.500	89 PSI	6080000 SCF/D
60	MERLA	1.500	82 PSI	5662000 SCF/D
70	MERLA	1.500	94 PSI	6379000 SCF/D
80	MERLA	1.500	88 PSI	6021000 SCF/D
90	MERLA	1.500	90 PSI	6140000 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 6-24-93	TICKET : 19084
CUSTOMER : MCCOY PETROLEUM CORP.	LEASE : JERMAN
WELL : 2-5 A TEST: 5	GEOLOGIST: HASTINGS
ELEVATION: 2870 K.B.	FORMATION: CHESTER
SECTION : 5	TOWNSHIP : 32S
RANGE : 34W	STATE : KS
GAUGE SN#: 3849	CLOCK : 12HR
COUNTY: SEWARD	
RANGE : 4200	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	876.00	876.00
5.00	1081.00	205.00
10.00	1117.00	36.00
15.00	1154.00	37.00
20.00	1154.00	0.00
25.00	1161.00	7.00
30.00	1161.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1661.00	1661.00	0.00
6.00	1698.00	37.00	0.00
9.00	1713.00	15.00	0.00
12.00	1717.00	4.00	0.00
15.00	1719.00	2.00	0.00
18.00	1720.00	1.00	0.00
21.00	1721.00	1.00	0.00
24.00	1722.00	1.00	0.00
27.00	1723.00	1.00	0.00
30.00	1724.00	1.00	0.00
33.00	1724.00	0.00	0.00
36.00	1725.00	1.00	0.00
39.00	1726.00	1.00	0.00
42.00	1728.00	2.00	0.00
45.00	1729.00	1.00	0.00
48.00	1730.00	1.00	0.00
51.00	1730.00	0.00	0.00
54.00	1730.00	0.00	0.00
57.00	1730.00	0.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1730.00	0.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	1194.00	1194.00
5.00	1251.00	57.00
10.00	1265.00	14.00
15.00	1271.00	6.00
20.00	1271.00	0.00
25.00	1271.00	0.00
30.00	1271.00	0.00
35.00	1271.00	0.00
40.00	1271.00	0.00
45.00	1271.00	0.00
50.00	1271.00	0.00
55.00	1271.00	0.00
60.00	1271.00	0.00
65.00	1271.00	0.00
70.00	1271.00	0.00
75.00	1271.00	0.00
80.00	1271.00	0.00
85.00	1271.00	0.00
90.00	1271.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1651.00	1651.00	0.00
6.00	1665.00	14.00	0.00
9.00	1675.00	10.00	0.00
12.00	1682.00	7.00	0.00
15.00	1688.00	6.00	0.00
18.00	1690.00	2.00	0.00
21.00	1692.00	2.00	0.00
24.00	1693.00	1.00	0.00
27.00	1694.00	1.00	0.00
30.00	1695.00	1.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
33.00	1696.00	1.00	0.00
36.00	1697.00	1.00	0.00
39.00	1698.00	1.00	0.00
42.00	1699.00	1.00	0.00
45.00	1700.00	1.00	0.00
48.00	1701.00	1.00	0.00
51.00	1702.00	1.00	0.00
54.00	1703.00	1.00	0.00
57.00	1704.00	1.00	0.00
60.00	1705.00	1.00	0.00
63.00	1706.00	1.00	0.00
66.00	1707.00	1.00	0.00
69.00	1708.00	1.00	0.00
72.00	1709.00	1.00	0.00
75.00	1710.00	1.00	0.00
78.00	1711.00	1.00	0.00
81.00	1712.00	1.00	0.00
84.00	1713.00	1.00	0.00
87.00	1713.00	0.00	0.00
90.00	1713.00	0.00	0.00
93.00	1713.00	0.00	0.00
96.00	1713.00	0.00	0.00
99.00	1713.00	0.00	0.00
102.00	1713.00	0.00	0.00
105.00	1713.00	0.00	0.00
108.00	1713.00	0.00	0.00
111.00	1713.00	0.00	0.00
114.00	1713.00	0.00	0.00
117.00	1713.00	0.00	0.00
120.00	1713.00	0.00	0.00

I
19084

#3849 D575



O
19084

2604 D575

