

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company CITIES SERVICE OIL CO.

Lease and Well No. EICHMAN A-19

County RUSSELL State KANSAS

Date JULY 21, 1969

Formation Test No. 1 Total Depth 3336 Elev. 1981 DF
Interval Tested 3320 To 3336 Anchor Length 16
Size Hole 7 7/8 Size Drill Pipe 4 1/2 ACME Size Packer 6 3/4
Mud Weight 9.2 Viscosity 42 Water Loss 9.2 c.c. Bottom Hole Temp. 102 ° F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 10280

RECOVERY

GOOD BLOW THROUGHOUT TEST.

60 FEET OF GAS IN PIPE.
186 FEET OF OIL.
90 FEET OF MUDDY OIL.

910 FEET OF FLEXWEIGHT.
2.76 I.D.

Lease and Well No. EICHMAN A-19 12 15S 14W

Formation Test No. 1

12-15-14W

DATE JULY 21, 1969

LEASE EICHMAN

WELL NO. A-19

TEST NO. 1

TICKET No. 10280

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		1887
INITIAL CLOSED IN PRESSURE	30 mins.	637
INITIAL FLOW	15 mins.	37 to 59
FINAL FLOW	45 mins.	76 to 110
FINAL CLOSED IN PRESSURE	30 mins.	391
FINAL HYDRO MUD PRESSURE		1836

TOTAL DEPTH 3336

PACKER DEPTH 3320

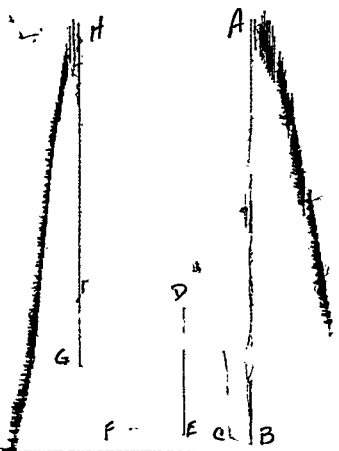
BT. NO. 905 DEPTH 3331

1ST FLOW PRESSURE			INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
		37		59		76		110
		51		510		85		187
		59		544		87		263
		59		578		93		306
				595		98		340
				620		102		365
				637		105		391
						107		
						109		
						110		
	5 MINUTE INTERVAL		5 MINUTE INTERVAL		5 MINUTE INTERVAL		5 MINUTE INTERVAL	

REMARKS.

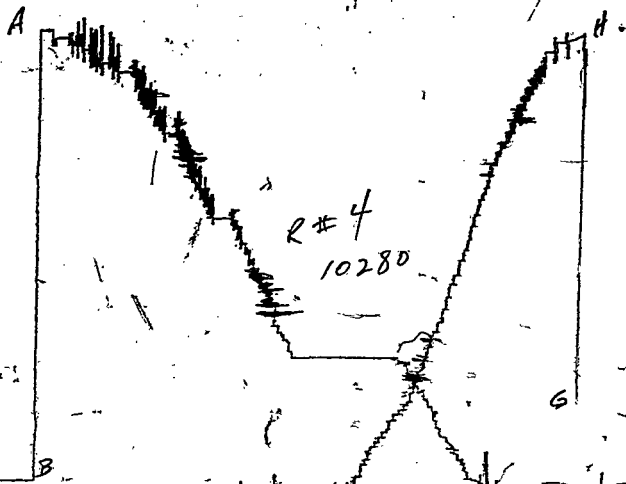
SPECIAL PRESSURE DATA

10



R & 905
10280

OUTSIDE RECORDER



Tool Open: 1st Flow hr. 15 mins: Shut-in Initial hr. 30 min: 2nd Flow hr. 45 min: Shut-in Final hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1861</u>	<u>1887</u>
(B) Initial 1st Flow Pressure	<u>35</u>	<u>37</u>
(C) Final 1st Flow Pressure	<u>68</u>	<u>59</u>
(D) Initial Shut-in Pressure	<u>646</u>	<u>637</u>
(E) Initial 2nd Flow Pressure	<u>76</u>	<u>76</u>
(F) Final 2nd Flow Pressure	<u>103</u>	<u>110</u>
(G) Final Shut-in Pressure	<u>391</u>	<u>391</u>
(H) Final Hydrostatic Pressure	<u>1851</u>	<u>1836</u>

10280

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company CITIES SERVICE OIL CO.

Lease and Well No. EICHMAN A-19

County RUSSELL State KANSAS Date JULY 22, 1969

Formation Test No. 2 Total Depth 3342 Elev. 1981 DF
Interval Tested 3336 To 3342 Anchor Length 6
Size Hole 7 7/8 Size Drill Pipe 4 1/2 ACME Size Packer 6 3/4
Mud Weight 10.3 Viscosity 49 Water Loss 10.4 c.c. Bottom Hole Temp. 102 ° F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 10281

RECOVERY

GOOD BLOW. DIED IN 10 MINUTES ON SECOND OPENING. FLUSHED
TOOL IN 20 MINUTES. GOOD BLOW FOR THE REMAINDER OF THE TEST.

120 FEET OF GAS.
220 FEET OF OIL.
60 FEET OF MUDDY OIL.

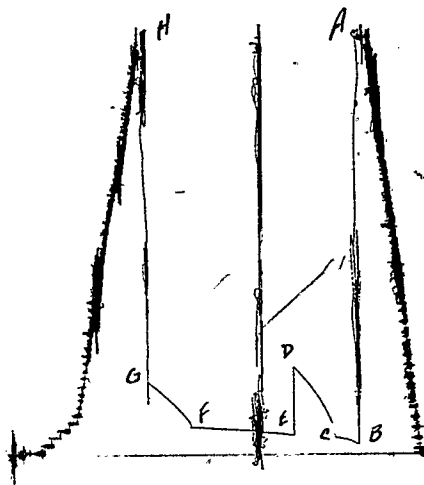
910 FEET OF FLEXWEIGHT.
2.76 I.D.

Lease and Well No. EICHMAN A-19 12 15S 14W

Formation Test No. 2



10



R. # 905
10281

Tool Open: 1st Flow____hr. 15 mins: Shut-in Initial____hr. 30 min: 2nd Flow 1 hr. 15 min: Shut-in Final____hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1870</u>	<u>1887</u>
(B) Initial 1st Flow Pressure	<u>51</u>	<u>46</u>
(C) Final 1st Flow Pressure	<u>76</u>	<u>76</u>
(D) Initial Shut-in Pressure	<u>392</u>	<u>386</u>
(E) Initial 2nd Flow Pressure	<u>76</u>	<u>85</u>
(F) Final 2nd Flow Pressure	<u>120</u>	<u>126</u>
(G) Final Shut-in Pressure	<u>341</u>	<u>326</u>
(H) Final Hydrostatic Pressure	<u>1863</u>	<u>1827</u>

10281

LEASE EICHMAN WELL NO. A-19 TEST NO. 2 TICKET NO. 10281

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		1887
INITIAL CLOSED IN PRESSURE	30 mins.	386
INITIAL FLOW	15 mins.	46 to 76
FINAL FLOW	75 mins.	85 to 126
FINAL CLOSED IN PRESSURE	30 mins.	326
FINAL HYDRO MUD PRESSURE		1827

TOTAL DEPTH 3342

PACKER DEPTH 3336

BT. NO. 905 DEPTH 3331

1ST FLOW PRESSURE			INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
		46		76		85		126
		63		170		97		200
		73		238		110		229
		76		272		112		263
				323		121		289
				360		126		306
				386				326
	5	MINUTE INTERVAL	5	MINUTE INTERVAL	15	MINUTE INTERVAL	5	MINUTE INTERVAL

REMARKS _____

SPECIAL PRESSURE DATA

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company CITIES SERVICE OIL CO.

Lease and Well No. EICHMAN A-19

County RUSSELL State KANSAS Date JULY 23, 1969

Formation Test No. 3 Total Depth 3348 Elev. 1981 DF
Interval Tested 3342 To 3348 Anchor Length 6
Size Hole 7 7/8 Size Drill Pipe 4 1/2 ACME Size Packer 6 3/4
Mud Weight 10.3 Viscosity 42 Water Loss 10.4 c.c. Bottom Hole Temp. 102 ° F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 10281

RECOVERY

GOOD BLOW THROUGHOUT TEST.

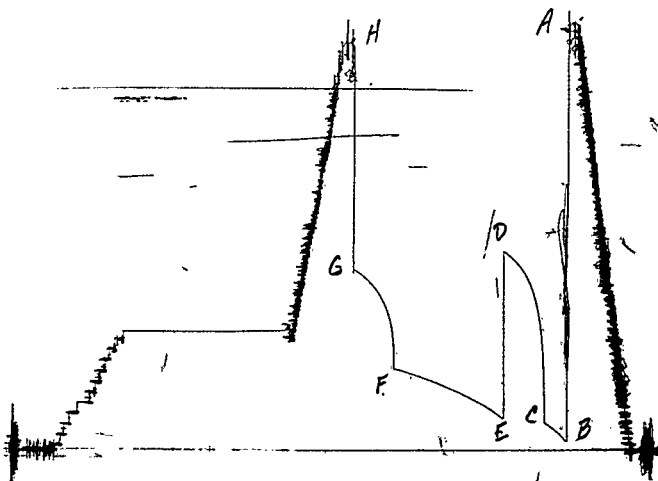
60 FEET OF GAS.
988 FEET OF OIL.

910 FEET OF FLEXWEIGHT.
2.76 I.D.

Lease and Well No. EICHMAN A-19 12 15S 14W

Formation Test No. 3

10.



R # 905
10282

Tool Open: 1st Flow hr. 15 mins: Shut-in Initial hr. 30 min: 2nd Flow 1 hr. 25 min: Shut-in Final hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1873</u>	<u>1878</u>
(B) Initial 1st Flow Pressure	<u>51</u>	<u>42</u>
(C) Final 1st Flow Pressure	<u>102</u>	<u>119</u>
(D) Initial Shut-in Pressure	<u>867</u>	<u>877</u>
(E) Initial 2nd Flow Pressure	<u>136</u>	<u>144</u>
(F) Final 2nd Flow Pressure	<u>357</u>	<u>365</u>
(G) Final Shut-in Pressure	<u>790</u>	<u>807</u>
(H) Final Hydrostatic Pressure	<u>1868</u>	<u>1810</u>

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company CITIES SERVICE OIL CO.

Lease and Well No. EICHMAN A-19

County RUSSELL State KANSAS Date JULY 23, 1969

Formation Test No. 4 Total Depth 3354 Elev. 1981 DF

Interval Tested 3348 To 3354 Anchor Length 6

Size Hole 7 7/8 Size Drill Pipe 4 1/2 ACME Size Packer 6 3/4

Mud Weight 9.9 Viscosity 48 Water Loss 7.6 c.c. Bottom Hole Temp. 105 ° F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 10283

RECOVERY

GOOD BLOW THROUGHOUT TEST.

120 FEET OF GAS.

180 FEET OF SLIGHTLY MUDDY OIL.

856 MUDDY OILY WATER.

910 FEET OF FLEXWEIGHT.

2.76 I.D.

Lease and Well No. EICHMAN A-19 12 15S 14W

Formation Test No. 4

DATE JULY 23, 1969

LEASE EICHMAN

WELL NO. A-19

TEST NO. 4

TICKET NO. 10283

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		1887
INITIAL CLOSED IN PRESSURE	30 mins.	909
INITIAL FLOW	15 mins.	59 to 221
FINAL FLOW	75 mins.	246 to 535
FINAL CLOSED IN PRESSURE	30 mins.	875
FINAL HYDRO MUD PRESSURE		1819

TOTAL DEPTH 3354

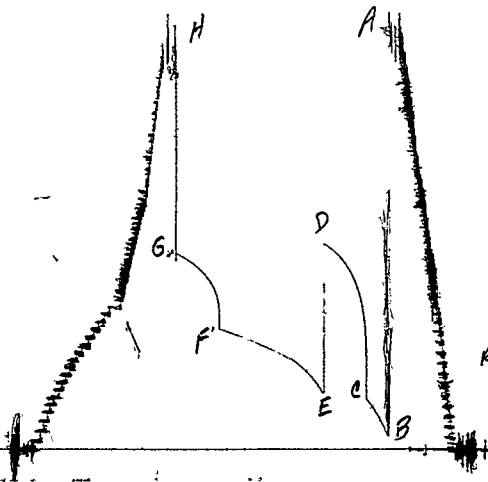
PACKER DEPTH 3348

BT. NO. 905 DEPTH 3343

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REMARKS

SPECIAL PRESSURE DATA



R #905
10283

Tool Open: 1st Flow____hr. 15mins: Shut-in Initial____hr. 30min: 2nd Flow 1 hr. 15 min: Shut-in Final____hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1875</u>	<u>1887</u>
(B) Initial 1st Flow Pressure	<u>59</u>	<u>59</u>
(C) Final 1st Flow Pressure	<u>221</u>	<u>221</u>
(D) Initial Shut-in Pressure	<u>901</u>	<u>909</u>
(E) Initial 2nd Flow Pressure	<u>246</u>	<u>246</u>
(F) Final 2nd Flow Pressure	<u>527</u>	<u>535</u>
(G) Final Shut-in Pressure	<u>867</u>	<u>875</u>
(H) Final Hydrostatic Pressure	<u>1868</u>	<u>1819</u>

10283