



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 20569

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

Elevation 2159 GL Formation KINDERHOOK Eff. Pay _____ Ft.

District PRATT Date 4-28-94 Customer Order No. _____

COMPANY NAME MCGINNESS OIL Co.

ADDRESS 150 N. MAIN STE 1026 WICHITA KS 67202

LEASE AND WELL NO. Keller #1 COUNTY KIOWA STATE KS Sec. 5 Twp. 28 Rge. 17

Mail Invoice To _____ Co. Name Same Address _____ No. Copies Requested _____

Mail Charts To _____ Address Same No. Copies Requested _____

Formation Test No. 3 Interval Tested From 4734 ft. to 4768 ft. Total Depth 4768 ft.

Packer Depth 4729 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4734 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4744 ft. Recorder Number 4339 Cap. 4325

Bottom Recorder Depth (Outside) 4747 ft. Recorder Number 13548 Cap. 4075

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

Drilling Contractor Pickrell Drill Collar Length 214 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 49 Weight Pipe Length _____ I. D. _____ in.

Weight 9.2 Water Loss 12.0 cc. Drill Pipe Length 4493 I. D. 3.8 in.

Chlorides 10,000 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 in.

Jars: Make _____ Serial Number _____ Anchor Length 34 ft. Size 5 1/2 in.

Did Well Flow? - Reversed Out - 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 4 in.

Blow: GTS IN 4 MINUTES

Recovered _____ ft. of 1949 mcf/d Thru 1 1/2" orifice

Recovered 235 ft. of Dnlg mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used _____ Remarks: _____

Time On Location 12:00 A.M. Time Pick Up Tool 12:30 A.M. Time Off Location _____ A.M.

Time Set Packer(s) 2:00 A.M. Time Started Off Bottom 4:30 A.M. Maximum Temperature 121°

Initial Hydrostatic Pressure _____ (A) 2375 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 238 P.S.I. to (C) 352 P.S.I.

Initial Closed In Period _____ Minutes 30 (D) 1100 P.S.I.

Final Flow Period _____ Minutes 30 (E) 431 P.S.I. to (F) 420 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 1089 P.S.I.

Final Hydrostatic Pressure _____ (H) 2331 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 Doug McGinness
Signature of Customer or his authorized representative

Western Representative STUART STOVER

FIELD INVOICE

Open Hole Test	\$ <u>600.00</u>
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ _____
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ _____
Circ. Sub.	\$ _____
Mileage	\$ _____
Fluid Sampler	\$ _____



Nº 1156

GAS FLOW REPORT

Date 4-28-94 Ticket 20569 Company McGINNESS O.I.
 Well Name and No. Keller #1 Dst No. 3 Interval Tested 4734-68
 County KIOWA State KANSAS Sec. 5 Twp. 28 Rg. 17

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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GTS IN 4 MINUTES PRE FLOW

5	5.0	1 1/2 inch		863
10	13.0			1490
15	15.0			1626
20	16.0			1694
25	17.0			1760
30	18.0			1824

SECOND FLOW

5	16.0	1 1/2 inch		1694
10	19.0			1887
15	20.0			1949
20	20.0			1949
25	20.0			1949
30				

GAS BOTTLE

Serial No. _____ Date Bottle Filled 4-28-94 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 McGINNESS O.I.

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 4-28-94

Test Ticket No. 20369

Recorder No. _____ Capacity _____ Location _____ Ft.

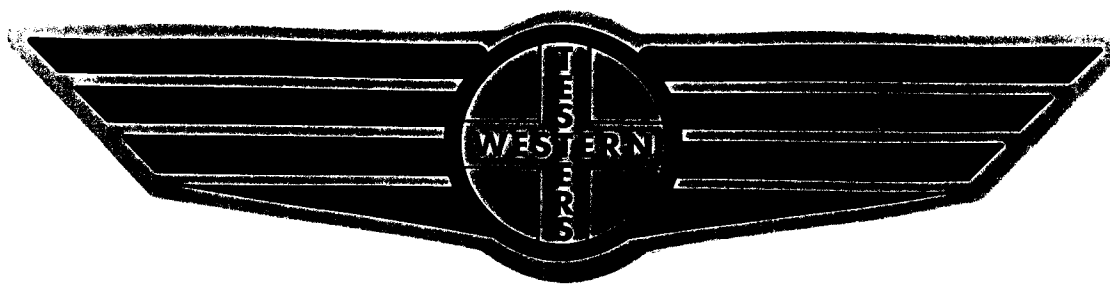
Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2349</u>	P.S.I.	<u>2:00 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>232</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>343</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1046</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>470</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
F Second Final Flow Pressure	<u>422</u>	P.S.I.		
G Final Closed-in Pressure	<u>1089</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2255</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>232</u>	0	<u>343</u>	0	<u>470</u>	0	<u>422</u>
P 2 5	<u>241</u>	3	<u>1017</u>	5	<u>434</u>	3	<u>973</u>
P 3 10	<u>256</u>	6	<u>1046</u>	10	<u>427</u>	6	<u>1000</u>
P 4 15	<u>284</u>	9	<u>1057</u>	15	<u>425</u>	9	<u>1015</u>
P 5 20	<u>311</u>	12	<u>1070</u>	20	<u>424</u>	12	<u>1039</u>
P 6 25	<u>336</u>	15	<u>1077</u>	25	<u>423</u>	15	<u>1048</u>
P 7 30	<u>343</u>	18	<u>1086</u>	30	<u>422</u>	18	<u>1053</u>
P 8 35		21	<u>1090</u>	35		21	<u>1057</u>
P 9 40		24	<u>1094</u>	40		24	<u>1061</u>
P10 45		27	<u>1095</u>	45		27	<u>1063</u>
P11 50		30	<u>1096</u>	50		30	<u>1066</u>
P12 55		33		55		33	<u>1069</u>
P13 60		36		60		36	<u>1072</u>
P14 65		39		65		39	<u>1075</u>
P15 70		42		70		42	<u>1078</u>
P16 75		45		75		45	<u>1080</u>
P17 80		48		80		48	<u>1082</u>
P18 85		51		85		51	<u>1084</u>
P19 90		54		90		54	<u>1086</u>
P20 95		57		95		57	<u>1088</u>
100		60		100		60	<u>1089</u>

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 4/28/94	TICKET	: 20569
CUSTOMER	: MCGINNESS OIL COMPANY	LEASE	: KELLER
WELL	: #1	TEST: 3	GEOLOGIST: MCGINNESS
ELEVATION:	2159 GL	FORMATION:	KINDERHOOK
SECTION	: 5	TOWNSHIP	: 28S
RANGE	: 17W	COUNTY: KIOWA	STATE : KS
GAUGE SN#:	4339	RANGE : 4325	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4734.00 ft	TO:	4768.00 ft	TVD:	4768.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	GAS
DEPTH OF RECORDERS:	4744.0 ft		4747.0 ft		
TEMPERATURE:	121.0				
DRILL COLLAR LENGTH:	214.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	4493.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	27.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	34.0 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:	4729.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4734.0 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. :	PICKRELL	VISCOSITY :	49.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	12.000 cc
WEIGHT :	9.200 ppg	SERIAL NUMBER:	
CHLORIDES :	10000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

GAS TO SURFACE IN 4 MINUTES.
1949 MCFD THROUGH 1 1/2 INCH ORIFICE

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
235.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	1.3469	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	1.3469	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2375.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	238.00	352.00
INITIAL SHUT-IN	30.00		1100.00
FINAL FLOW	30.00	431.00	420.00
FINAL SHUT-IN	60.00		1089.00

FINAL HYDROSTATIC PRESSURE: 2331.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2349.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	232.00	343.00
INITIAL SHUT-IN	30.00		1096.00
FINAL FLOW	30.00	470.00	422.00
FINAL SHUT-IN	60.00		1089.00

FINAL HYDROSTATIC PRESSURE: 2255.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 4/28/94	TICKET : 20569
CUSTOMER : MCGINNESS OIL COMPANY	LEASE : KELLER
WELL : #1	TEST: 3
ELEVATION: 2159 GL	GEOLOGIST: MCGINNESS
SECTION : 5	FORMATION: KINDERHOOK
RANGE : 17W	TOWNSHIP : 28S
GAUGE SN#: 4339	STATE : KS
COUNTY: KIOWA	CLOCK : 12
RANGE : 4325	

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
5 MIN	MERLA	1.500	5 PSIG	863000 SCF/D
10 MIN	MERLA	1.500	13 PSIG	1490000 SCF/D
15 MIN	MERLA	1.500	15 PSIG	1626000 SCF/D
20 MIN	MERLA	1.500	16 PSIG	1694000 SCF/D
25 MIN	MERLA	1.500	17 PSIG	1760000 SCF/D
30 MIN	MERLA	1.500	18 PSIG	1824000 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
5 MIN	MERLA	1.500	16 PSIG	1694000 SCF/D
10 MIN	MERLA	1.500	19 PSIG	1887000 SCF/D
15 MIN	MERLA	1.500	20 PSIG	1949000 SCF/D
20 MIN	MERLA	1.500	20 PSIG	1949000 SCF/D
25 MIN	MERLA	1.500	20 PSIG	1949000 SCF/D
30 MIN	MERLA	1.500	20 PSIG	1949000 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 4/28/94	TICKET : 20569
CUSTOMER : MCGINNESS OIL COMPANY	LEASE : KELLER
WELL : #1 TEST: 3	GEOLOGIST: MCGINNESS
ELEVATION: 2159 GL	FORMATION: KINDERHOOK
SECTION : 5	TOWNSHIP : 28S
RANGE : 17W COUNTY: KIOWA	STATE : KS
GAUGE SN#: 4339 RANGE : 4325	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	232.00	232.00
5.00	241.00	9.00
10.00	256.00	15.00
15.00	284.00	28.00
20.00	311.00	27.00
25.00	336.00	25.00
30.00	343.00	7.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1017.00	1017.00	11.00
6.00	1046.00	29.00	6.00
9.00	1059.00	13.00	4.33
12.00	1070.00	11.00	3.50
15.00	1077.00	7.00	3.00
18.00	1086.00	9.00	2.67
21.00	1090.00	4.00	2.43
24.00	1094.00	4.00	2.25
27.00	1095.00	1.00	2.11
30.00	1096.00	1.00	2.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	470.00	470.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

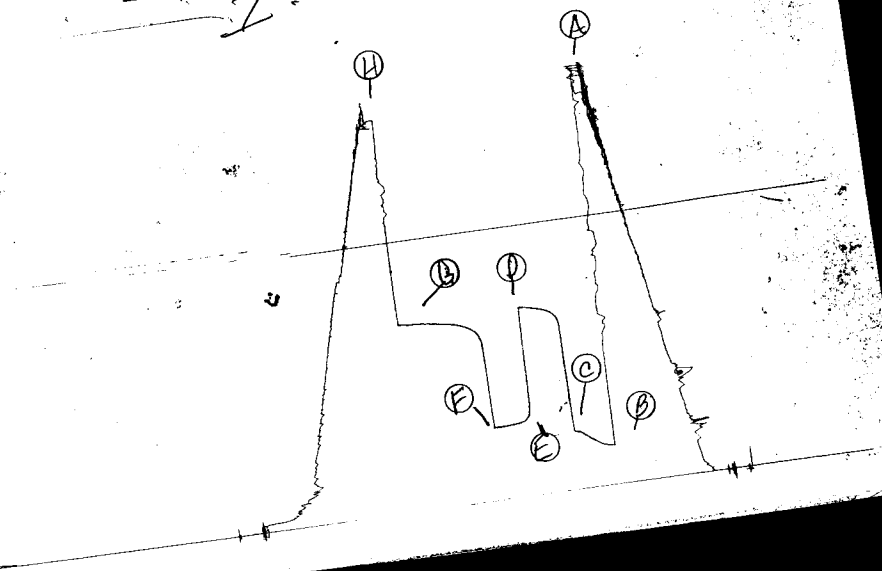
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
5.00	434.00	-36.00
10.00	427.00	-7.00
15.00	425.00	-2.00
20.00	424.00	-1.00
25.00	423.00	-1.00
30.00	422.00	-1.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	973.00	973.00	11.00
6.00	1000.00	27.00	6.00
9.00	1015.00	15.00	4.33
12.00	1039.00	24.00	3.50
15.00	1048.00	9.00	3.00
18.00	1053.00	5.00	2.67
21.00	1057.00	4.00	2.43
24.00	1061.00	4.00	2.25
27.00	1063.00	2.00	2.11
30.00	1066.00	3.00	2.00
33.00	1069.00	3.00	1.91
36.00	1072.00	3.00	1.83
39.00	1075.00	3.00	1.77
42.00	1078.00	3.00	1.71
45.00	1080.00	2.00	1.67
48.00	1082.00	2.00	1.63
51.00	1084.00	2.00	1.59
54.00	1086.00	2.00	1.56
57.00	1088.00	2.00	1.53
60.00	1089.00	1.00	1.50

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