WESTERN TESTERS

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

WICHITA, KANSAS 67201

Company Kansas Oil Corporation — Lease & Well No. Schiff #1

Elevation 1563 Kelly Bush. Formation Mississippi — Effective Pay - Ft. — Ticket No. 145

Date 3-13-78 — Sec. 1 — Twp. 33S — Range 11W — County Barber — State Kansas

Test Approved by Lee Paulsen — Western Representative Sam McClune

Formation Test No. 1 — Interval Tested from 4522 ft. to 4542 ft. — Total Depth 4542 ft.

Packer Depth 4527 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4538 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4535 ft. — Recorder Number 3085 — Cap. 4500

Bottom Recorder Depth (Outside) 4538 ft. — Recorder Number 1558 — Cap. 4200

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

Drilling Contractor Abercrombie #11 — Drill Collar Length 60 — I. D. 2.25 in.

Mud Type Starch — Viscosity 48 — Weight Pipe Length 450 — I. D. 2.25 in.

Weight 9.5 — Water Loss 10.5 cc. — Drill Pipe Length 4032 — I. D. 3.8 in.

Chlorides 22,500 P.P.M. — Test Tool Size 5½OD in. — Tool Joint Size 4½FH in.

Jars: Make W.T.C. — Serial Number 406 — Anchor Length 20 ft. — Size - 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.

Blow: Strong blow on initial flow period. Strong blow increasing on final flow period.

Recovered 45 ft. of drilling mud.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 2:44 A.M. ~~P.M.~~ — Time Started Off Bottom 5:45 A.M. ~~P.M.~~ — Maximum Temperature 113

Initial Hydrostatic Pressure ..... (A) 2260 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 50 P.S.I. to (C) 25 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 141 P.S.I.

Final Flow Period ..... Minutes 60 (E) 55 P.S.I. to (F) 24 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 301 P.S.I.

Final Hydrostatic Pressure ..... (H) 2285 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 3-13-78 Test Ticket No. 145

Recorder No. 3085 Capacity 4500 Location 4535 Ft

Clock No. - Elevation 1563 Kelly Bushing Well Temperature 113 °F

Point		Pressure			Time Given		Time Computed	
A	Initial Hydrostatic Mud	2260	P.S.I.	Open Tool	2:44A	M		
B	First Initial Flow Pressure	50	P.S.I.	First Flow Pressure	30	Mins.	30	Mins
C	First Final Flow Pressure	25	P.S.I.	Initial Closed-in Pressure	30	Mins.	30	Mins
D	Initial Closed-in Pressure	141	P.S.I.	Second Flow Pressure	60	Mins.	60	Mins
E	Second Initial Flow Pressure	55	P.S.I.	Final Closed-in Pressure	60	Mins.	63	Mins
F	Second Final Flow Pressure	24	P.S.I.					
G	Final Closed-in Pressure	301	P.S.I.					
H	Final Hydrostatic Mud	2205	P.S.I.					

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	50
P 2	5	25
P 3	10	23
P 4	15	23
P 5	20	23
P 6	25	24
P 7	30	25
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	25
	3	31
	6	41
	9	53
	12	65
	15	76
	18	88
	21	100
	24	115
	27	129
	30	141

Second Flow Pressure
Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	55
	5	31
	10	26
	15	24
	20	24
	25	24
	30	24
	35	24
	40	24
	45	24
	50	24
	55	24
	60	24

Final Shut-In
Breakdown: 21 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	24
	3	31
	6	45
	9	60
	12	76
	15	93
	18	110
	21	124
	24	139
	27	155
	30	167
	33	179
	36	191
	39	206
	42	221
	45	232
	48	246
	51	258
	54	270
	57	280
	60	292
	63	301

TKt # 145

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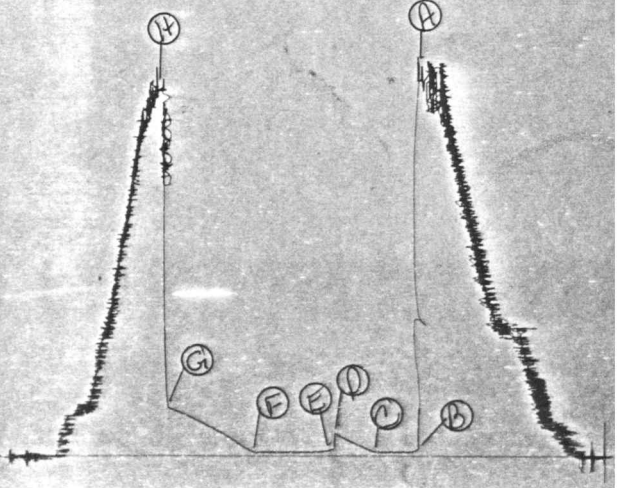

WESTERN TESTERS

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

WICHITA, KANSAS 67201

Company Kansas Oil Corporation Lease & Well No. Schiff #1

Elevation 1563 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticket No. 146

Date 3-13-78 Sec. 1 Twp. 33S Range 11W County Barber State Kansas

Test Approved by Lee Paulsen Western Representative Sam McClune

Formation Test No. 2 Interval Tested from 4542 ft. to 4562 ft. Total Depth 4562 ft.

Packer Depth 4537 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4542 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4557 ft. Recorder Number 3085 Cap. 4500

Bottom Recorder Depth (Outside) 4560 ft. Recorder Number 1558 Cap. 4200

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

Drilling Contractor Abercrombie Drilling Co. Drill Collar Length 60 I. D. 2.25 in.

Mud Type Starch Viscosity 46 Weight Pipe Length 450 I. D. 2.25 in.

Weight 9.5 Water Loss 10.5 cc. Drill Pipe Length 4008 I. D. 3.8 in.

Chlorides 22,500 P.P.M. Test Tool Size 5½OD in. Tool Joint Size 4½FH in.

Jars: Make - Serial Number - Anchor Length 20 ft. Size 5½OD in.

Did Well Flow? Yes Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in.

Blow: Very strong decreasing to strong on initial flow period. Good blow on final flow period.

Recovered 4383 ft. of Gas in pipe

Recovered 15 ft. of very slight oil and gas cut mud.

Recovered 110 ft. of heavy mud cut water

Recovered 10 ft. of light mud cut water (dirty water)

Recovered ft. of

Remarks: Gas to surface at 25 minutes into initial flow period. Amount guaged 16,700 C.F.P.D.
See attached sheet for gas measurements.

Time Set Packer(s) 4:43 ~~A.M.~~ P.M. Time Started Off Bottom 8:15 ~~A.M.~~ P.M. Maximum Temperature 117

Initial Hydrostatic Pressure ..... (A) 2274 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 69 P.S.I. to (C) 36 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 774 P.S.I.

Final Flow Period ..... Minutes 90 (E) 76 P.S.I. to (F) 48 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 790 P.S.I.

Final Hydrostatic Pressure ..... (H) 2246 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 3-13-78 Test Ticket No. 146

Recorder No. 3085 Capacity 4500 Location 4557 Ft.

Clock No. - Elevation 1563 Kelly Bushing Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2274 P.S.I.	Open Tool	4:43P M	
B First Initial Flow Pressure	69 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	36 P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D Initial Closed-in Pressure	774 P.S.I.	Second Flow Pressure	90 Mins.	85 Mins.
E Second Initial Flow Pressure	76 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	48 P.S.I.			
G Final Closed-in Pressure	790 P.S.I.			
H Final Hydrostatic Mud	2246 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	69
P 2 5	45
P 3 10	36
P 4 15	36
P 5 20	36
P 6 25	36
P 7 30	36
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	30
3	206
6	435
9	572
12	648
15	690
18	720
21	744
24	760
27	774

Second Flow Pressure
Breakdown: 17 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	76
5	43
10	38
15	38
20	37
25	36
30	36
35	36
40	36
45	37
50	38
55	41
60	41
65	43
70	44
75	44
80	46
85	48

Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	48
3	153
6	315
9	445
12	535
15	597
18	639
21	669
24	693
27	711
30	727
33	741
36	751
39	760
42	767
45	772
48	776
51	781
54	783
57	788
60	790

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

GAS FLOW REPORT

Date 3/13/78 Ticket 146 Company Kansas Oil Corporation

Well Name and No. Schiff #1 Dst No. 2 Interval Tested 4542' -4562'

County Barber State Kansas Sec. 1 Twp. 33s Rg. 11w

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
5:15	5 min.	7" of water ½ " orifice				16,700 CFPD
Gas to surface in 25 minutes.						
SECOND FLOW						
5:55	10 min.	3" of water 3/4" orifice				24,500 CFPD
6:05	20 min.	2" of water 3/4" orifice				20,000 CFPD
6:15	30 min.	8" of water 3/4" orifice				17,200 CFPD
6:25	40 min.	8" of water 1/2" orifice				17,200 CFPD
6:35	50 min.	7" of water 1/2" orifice				16,700 CFPD
6:45	60 min.	7" of water 1/2" orifice				16,700 CFPD
6:55	70 min.	7" of water 1/2" orifice				16,700 CFPD
7:05	80 min.	7" of water 1/2" orifice				16,700 CFPD
7:15	90 min.	7" of water 1/2" orifice				16,700 CFPD

GAS BOTTLE

Serial No. – Date Bottle Filled – Date to be Invoiced –

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge) Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% 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 Kansas Oil Corporation

Authorized by Lee Poulsen

TKt # 146

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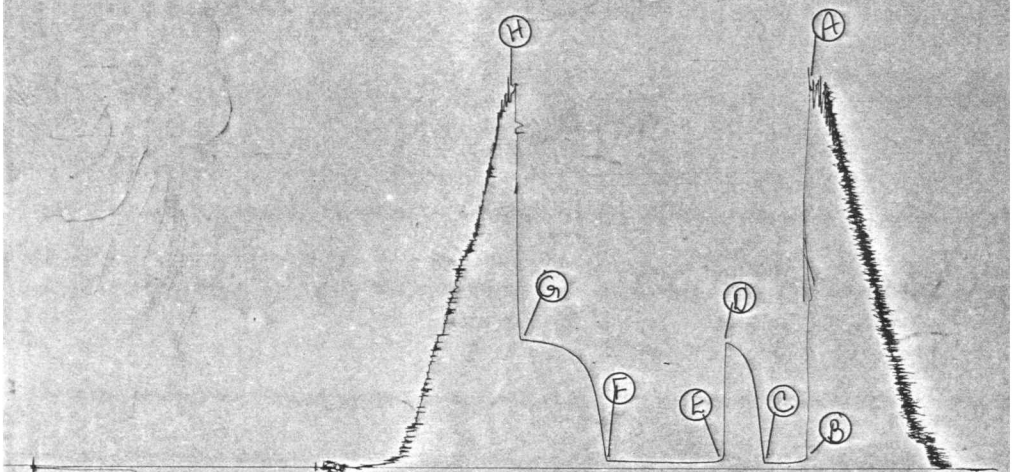

WESTERN TESTERS

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

WICHITA, KANSAS 67201

Company Kansas Oil Corporation — Lease & Well No. Schiff #1

Elevation 1563 Kelly Bushing — Formation Mississippi — Effective Pay - Ft. — Ticket No. 147

Date 3/14/78 — Sec. 1 — Twp 33s — Range 11w — County Barber — State Kansas

Test Approved by Floyd C. Wilson — Western Representative Sam McClune

Formation Test No. 3 — Interval Tested from 4558' ft. to 4612' ft. — Total Depth 4612' ft.

Packer Depth 4553 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4558 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4574 ft. — Recorder Number 3085 — Cap. 4500

Bottom Recorder Depth (Outside) 4577 ft. — Recorder Number 1558 — Cap. 4200

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

Drilling Contractor Abercrombie Drilling #11 — Drill Collar Length 60 — I. D. 2.25 in.

Mud Type starch — Viscosity 47 — Weight Pipe Length 450 — I. D. 2.25 in.

Weight 9.5 — Water Loss 12.4 cc. — Drill Pipe Length 4034 — I. D. 3.8 in.

Chlorides 23,000 P.P.M. — Test Tool Size 5½ OD in. — Tool Joint Size 4½ FH in.

Jars: Make - — Serial Number - — Anchor Length 54 ft. — Size 5½ OD in.

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

Main Hole Size 7 7/8 in.

Blow: Strong blow initial flow period. Good blow on final flow period.

Recovered 4000 ft. of gas in pipe .

Recovered 120 ft. of slight oil cut mud.

Recovered 240 ft. of oil cut mud and mud cut oil.

Recovered 60 ft. of muddy water.

Recovered ft. of 420' total fluid (102,000) PPM ch

Remarks: Gas to surface in 40 minutes into final flow period. See attached sheet for gas measur

Time Set Packer(s) 9:44 A.M. — Time Started Off Bottom 1:15 P.M. — Maximum Temperature 118

Initial Hydrostatic Pressure			(A)	2258	P.S.I.	
Initial Flow Period	Minutes 30		(B)	86 P.S.I.	to (C)	84 P.S.I.
Initial Closed In Period	Minutes 30		(D)	502	P.S.I.	
Final Flow Period	Minutes 90		(E)	124 P.S.I.	to (F)	149 P.S.I.
Final Closed In Period	Minutes 60		(G)	648	P.S.I.	
Final Hydrostatic Pressure			(H)	2239	P.S.I.	

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

GAS FLOW REPORT

Date 3/14/78 Ticket 147 Company Kansas Oil Corporation

Well Name and No. Schiff #1 Dst No. 3 Interval Tested 4558' - 4612'

County Barber State Kansas Sec. 1 Twp. 33s Rg. 11w

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
SECOND FLOW						
11:35	10	8" of water ¼ orifice				4,760 CFPD
11:45	20	6" of water ¼ orifice				4,112 CFPD
11:55	30	6" of water ¼ orifice				4,112 CFPD
12:05	40	6" of water ¼ orifice				4,112 CFPD
12:15	50	6" of water ¼ orifice				4,112 CFPD
Gas to surface 40 minutes.						

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% per month, equal to 12% 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 Kansas Oil Corporation

Authorized by Floyd Wilson

WESTERN TESTING CO., INC.

Pressure Data

Date 3/14/78 Test Ticket No. 147

Recorder No. 3085 Capacity 4500 Location 4574 Ft.

Clock No. -- Elevation 1563 Kelly Bushing Well Temperature 118 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2258	P.S.I.	Open Tool	9:44A M	
B	First Initial Flow Pressure	86	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	84	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	502	P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E	Second Initial Flow Pressure	124	P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	149	P.S.I.			
G	Final Closed-in Pressure	648	P.S.I.			
H	Final Hydrostatic Mud	2239	P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Second Flow Pressure
Breakdown: 18 Inc. of 5 mins. and a final inc. of 0 Min.

Final Shut-In
Breakdown: 20 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	86		0	84		0	124		0	149
P 2	5	67		3	110		5	108		3	179
P 3	10	67		6	158		10	110		6	227
P 4	15	69		9	213		15	117		9	272
P 5	20	76		12	268		20	120		12	311
P 6	25	79		15	315		25	120		15	351
P 7	30	84		18	359		30	120		18	392
P 8				21	402		35	120		21	423
P 9				24	442		40	122		24	450
P10				27	474		45	124		27	478
P11				30	502		50	129		30	505
P12							55	134		33	526
P13							60	134		36	544
P14							65	136		39	560
P15							70	137		42	577
P16							75	141		45	590
P17							80	144		48	602
P18							85	148		51	616
P19							90	149		54	625
P20										57	637
										60	648

TK# 127

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