Company Range Oil Company, Inc. Lease & Well No. #1 "B" Allen

Elevation 1317 Kelly Bushing Formation Simpson Effective Pay - Ft. Ticket No. 16678

Date 9/16/82 Sec. 4 Twp. 29S Range 3E County Butler State Kansas

Test Approved by Robert Olsen Western Representative Kenny Kirkendall

Formation Test No. 1 Interval Tested from 3110 ft. to 3128 ft. Total Depth 3128 ft.

Packer Depth 3110 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3105 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3114 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 3119 ft. Recorder Number 1049 Cap. 4250

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

Drilling Contractor Range Oil Rig #2 Drill Collar Length 150 I. D. - in.

Mud Type Chemical Viscosity 39 Weight Pipe Length - I. D. - in.

Weight 10.0 Water Loss 12.8 cc. Drill Pipe Length - I. D. - in.

Chlorides 1800 P.P.M. Test Tool Length 20 ft. Tool Size 5½ in.

Jars: Make No Serial Number - Anchor Length 18 ft. Size 5½ 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 4½XH in.

Blow: Weak blow died in 15 minutes on initial flow period.

Recovered 1 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 1:40 A.M. P.M. Time Started Off Bottom 3:55 A.M. P.M. Maximum Temperature 108

Initial Hydrostatic Pressure		(A) 1611	P.S.I.	
Initial Flow Period	Minutes 30	(B) 16	P.S.I. to (C) 16	P.S.I.
Initial Closed In Period	Minutes 30	(D) 17	P.S.I.	
Final Flow Period	Minutes 30	(E) 14	P.S.I. to (F) 14	P.S.I.
Final Closed In Period	Minutes 48	(G) 52	P.S.I.	
Final Hydrostatic Pressure		(H) 1584	P.S.I.	

WESTERN TESTING CO., INC.

Pressure Data

Date 9/16/82 Test Ticket No. 16678

Recorder No. 2605 Capacity 4150 Location 3114 Ft.

Clock No. - Elevation 1317 Kelly Bushing Well Temperature 108 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1611 P.S.I.	Open Tool	1:40 M	
B First Initial Flow Pressure	16 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	16 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	17 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	14 P.S.I.	Final Closed-in Pressure	45 Mins.	48 Mins.
F Second Final Flow Pressure	14 P.S.I.			
G Final Closed-in Pressure	52 P.S.I.			
H Final Hydrostatic Mud	1584 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: 6 Inc. of 5 mins. and a final inc. of 0 Min.

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

Point	First Flow Pressure Point Mins.	First Flow Pressure Press.	Initial Shut-In Point Minutes	Initial Shut-In Press.	Second Flow Pressure Point Minutes	Second Flow Pressure Press.	Final Shut-In Point Minutes	Final Shut-In Press.
P 1	0	16	0	16	0	14	0	14
P 2	5	16	3	16	5	14	3	14
P 3	10	16	6	16	10	14	6	14
P 4	15	16	9	16	15	14	9	14
P 5	20	16	12	16	20	14	12	14
P 6	25	16	15	17	25	14	15	15
P 7	30	16	18	17	30	14	18	16
P 8			21	17			21	17
P 9			24	17			24	18
P10			27	17			27	18
P11			30	17			30	18
P12							33	18
P13							36	22
P14							39	26
P15							42	31
P16							45	39
P17							48	52
P18								
P19								
P20								

IKT # 16678 2605-

DST #

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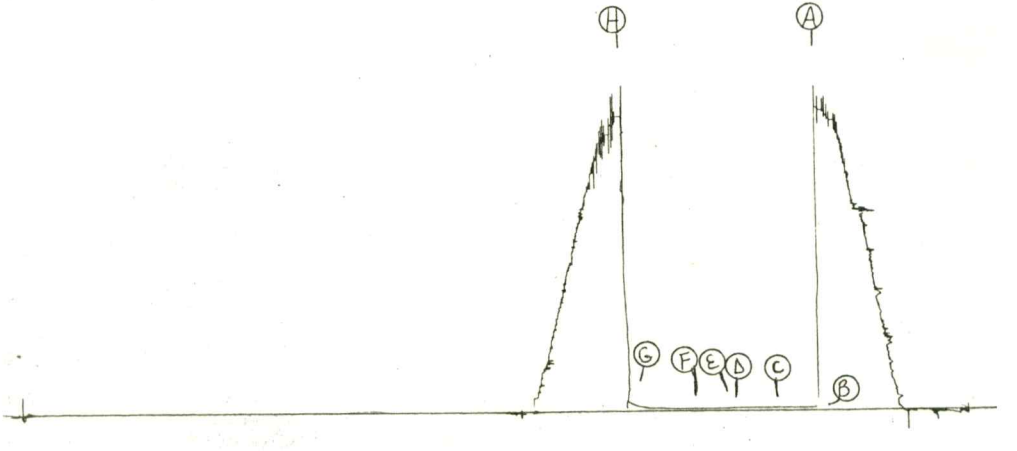

Company Range Oil Company, Inc. Lease & Well No. #1 "B" Allen

Elevation 1317 Kelly Bushing Formation Simpson Effective Pay - Ft. Ticket No. 16679

Date 9/16/82 Sec. 4 Twp. 29S Range 3E County Butler State Kansas

Test Approved by Robert Olsen Western Representative Kenny Kirkendall

Formation Test No. 2 Interval Tested from 3128 ft. to 3138 ft. Total Depth 3138 ft.

Packer Depth 3128 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3123 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3132 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 3136 ft. Recorder Number 1049 Cap. 4250

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

Drilling Contractor Range Oil Rig #2 Drill Collar Length 150 I. D. - in.

Mud Type Chemical Viscosity 39 Weight Pipe Length - I. D. - in.

Weight 9.9 Water Loss 12.8 cc. Drill Pipe Length - I. D. - in.

Chlorides 1800 P.P.M. Test Tool Length 20 ft. Tool Size 5½ in.

Jars: Make No Serial Number - Anchor Length 10 ft. Size 5½ in.

Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Weak blow throughout test.

Recovered 100 ft. of salt water Chlorides 18,000 PPM

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:09 ~~A.M.~~ ~~P.M.~~ Time Started Off Bottom - A.M. P.M. Maximum Temperature 108

Initial Hydrostatic Pressure		(A) 1615 P.S.I.		
Initial Flow Period	Minutes 30	(B) 29 P.S.I.	to (C) 29 P.S.I.	
Initial Closed In Period	Minutes 39	(D) 968 P.S.I.		
Final Flow Period	Minutes 60	(E) 48 P.S.I.	to (F) 48 P.S.I.	
Final Closed In Period	Minutes 66	(G) 953 P.S.I.		
Final Hydrostatic Pressure		(H) 1608 P.S.I.		

WESTERN TESTING CO., INC.

Pressure Data

Date 9/16/82 Test Ticket No. 16679

Recorder No. 2605 Capacity 4150 Location 3132 Ft.

Clock No. - Elevation 1317 Kelly Bushing Well Temperature 108 °F

Point	Pressure		Time Given		Time Computed	
A Initial Hydrostatic Mud	1615 P.S.I.	Open Tool	12:09A	M		
B First Initial Flow Pressure	29 P.S.I.	First Flow Pressure	30	Mins.	30	Mins.
C First Final Flow Pressure	29 P.S.I.	Initial Closed-in Pressure	30	Mins.	39	Mins.
D Initial Closed-in Pressure	968 P.S.I.	Second Flow Pressure	60	Mins.	60	Mins.
E Second Initial Flow Pressure	48 P.S.I.	Final Closed-in Pressure	60	Mins.	66	Mins.
F Second Final Flow Pressure	48 P.S.I.					
G Final Closed-in Pressure	953 P.S.I.					
H Final Hydrostatic Mud	1608 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	29
P 2 5	29
P 3 10	29
P 4 15	29
P 5 20	29
P 6 25	29
P 7 30	29
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 13 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	29
3	29
6	167
9	443
12	614
15	714
18	775
21	825
24	861
27	898
30	926
33	945
36	962
39	968

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

Point Minutes	Press.
0	48
5	48
10	48
15	48
20	48
25	48
30	48
35	48
40	48
45	48
50	48
55	48
60	48

Final Shut-In
Breakdown: 22 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	48
3	112
6	373
9	541
12	616
15	670
18	711
21	749
24	780
27	803
30	823
33	842
36	856
39	870
42	887
45	896
48	906
51	916
54	926
57	936
60	943
63	950
66	953

TKT # 16679

2605
DST #2

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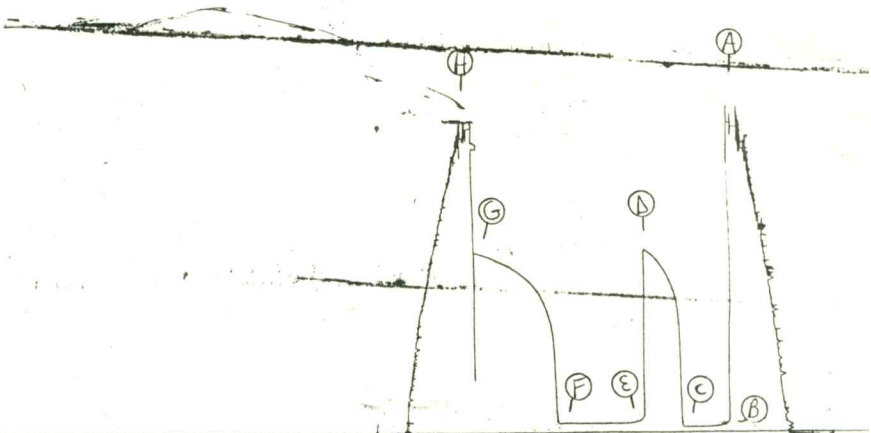

Company Range Oil Company, Inc. Lease & Well No. #1 "B" Allen

Elevation 1317 Kelly Bushing Formation Simpson Effective Pay - Ft. Ticket No. 16680

Date 9/17/82 Sec. 4 Twp. 29S Range 3E County Butler State Kansas

Test Approved by Robert Olsen Western Representative Kenny Kirkendall

Formation Test No. 3 Interval Tested from 3140 ft. to 3148 ft. Total Depth 3148 ft.

Packer Depth 3140 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3135 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3141 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 3144 ft. Recorder Number 1049 Cap. 4250

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

Drilling Contractor Range Oil Rig #2 Drill Collar Length 150 I. D. - in.

Mud Type Chemical Viscosity 44 Weight Pipe Length - I. D. - in.

Weight 10.0 Water Loss 10.9 cc. Drill Pipe Length - I. D. - in.

Chlorides 1800 P.P.M. Test Tool Length 20 ft. Tool Size 5½ in.

Jars: Make No Serial Number - Anchor Length 8 ft. Size 5½ 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 4½XH in.

Blow: Fair to good blow throughout test.

Recovered 135 ft. of gas in pipe

Recovered 180 ft. of free gassy oil

Recovered 285 ft. of salt water Chlorides 14,000 PPM

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) - A.M. P.M. Time Started Off Bottom - A.M. P.M. Maximum Temperature 108

Initial Hydrostatic Pressure			(A)	1594	P.S.I.	
Initial Flow Period	Minutes 30	(B)	42	P.S.I. to (C)	75	P.S.I.
Initial Closed In Period	Minutes 33	(D)	1099	P.S.I.		
Final Flow Period	Minutes 60	(E)	131	P.S.I. to (F)	174	P.S.I.
Final Closed In Period	Minutes 60	(G)	1095	P.S.I.		
Final Hydrostatic Pressure		(H)	1584	P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 9/17/82 Test Ticket No. 16680

Recorder No. 2605 Capacity 4150 Location 3141 Ft.

Clock No. - Elevation 1317 Kelly Bushing Well Temperature 108 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1594 P.S.I.	Open Tool	- M	
B First Initial Flow Pressure	42 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	75 P.S.I.	Initial Closed-in Pressure	30 Mins.	33 Mins.
D Initial Closed-in Pressure	1099 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	131 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	174 P.S.I.			
G Final Closed-in Pressure	1095 P.S.I.			
H Final Hydrostatic Mud	1584 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: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 12 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	42	0	75	0	131	0	174
P 2 5	42	3	564	5	131	3	705
P 3 10	50	6	848	10	131	6	850
P 4 15	62	9	950	15	131	9	911
P 5 20	71	12	1001	20	133	12	951
P 6 25	73	15	1031	25	137	15	977
P 7 30	75	18	1050	30	145	18	999
P 8		21	1067	35	151	21	1014
P 9		24	1079	40	158	24	1027
P10		27	1087	45	160	27	1035
P11		30	1096	50	163	30	1045
P12		33	1099	55	171	33	1052
P13				60	174	36	1058
P14						39	1064
P15						42	1070
P16						45	1076
P17						48	1080
P18						51	1084
P19						54	1088
P20						57	1092
						60	1095

IKT. # 1668O DST # 3

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