P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No. 6061

Kelly Bushing

Elevation 1366 KB Formation Hunton Eff. Pay - Ft.

District Augusta Date 7-30-80 Customer Order No. -

COMPANY NAME Pendleton Land & Exploration, Inc

ADDRESS 1700 Security Life Bldg Denver Colo 80202

LEASE AND WELL NO. Strait 16 COUNTY Marion STATE Ks Sec. 21 Twp. 21S Rge. 5E

Mail Invoice To Same Strait Ranch #16 No. Copies Requested 1
Co. Name Address

Mail Charts To Same No. Copies Requested 5
Address

Formation Test No. 1 Interval Tested from 2290 ft. to 2308 ft. Total Depth 2308 ft.

Packer Depth 2290 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2285 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2301 ft. Recorder Number 3354 Cap. 4200

Bottom Recorder Depth (Outside) 2304 ft. Recorder Number 1560 Cap. 4500

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

Drilling Contractor Edco Drlg #6 Drill Collar Length 232 I. D. 2 1/4 in.

Mud Type Chem Viscosity 38 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 14.4 cc. Drill Pipe Length 2035 I. D. 3.8 in.

Chlorides 1000 P.P.M. Test Tool Length 41 ft. Tool Size 4 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 18 ft. Size 4 1/2 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. Tool Joint Size 4 1/2 X H in.

Blow: Strong & throughout test
& through out

Recovered 180 ft. of Gas in pipe

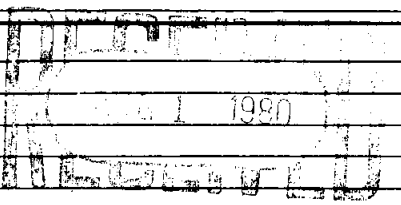
Recovered 750 ft. of Oil

Recovered 670 ft. of Sulphur cut saltwater

Recovered ft. of

Recovered ft. of

Remarks:



On Location 2:15 PM 7-30-80 Pick up tool 3:00 PM Job complete @ 10:45 PM 7-30-80

Time Set Packer(s) 4:00 A.M. Time Started Off Bottom 7:15 P.M. Maximum Temperature 105

Initial Hydrostatic Pressure			(A)	1110	P.S.I.	
Initial Flow Period	Minutes	30	(B)	30	P.S.I. to (C)	220 P.S.I.
Initial Closed In Period	Minutes	45	(D)	835	P.S.I.	
Final Flow Period	Minutes	60	(E)	255	P.S.I. to (F)	620 P.S.I.
Final Closed In Period	Minutes	60	(G)	835	P.S.I.	
Final Hydrostatic Pressure			(H)	1080	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 David Fredlund Daniel Fredlund
Signature of Customer or his authorized representative

Western Representative Norman Allen

FIELD INVOICE

Open Hole Test	$	550 00
Misrun	$	
Straddle Test	$	
Jars	$	
Selective Zone	$	
Safety Joint	$	50 00
Standby	$	
Evaluation	$	
Extra Packer	$	
Circ. Sub.	$	
50 Mileage	$	37 50
Fluid Sampler	$	
Extra Charts	$	
TOTAL	$	637 50

WESTERN TESTING CO., INC.
Pressure Data

Date 7-30-80 Test Ticket No. 6061

Recorder No. 3354 Capacity 4200 Location 2301 Ft.

Clock No. Elevation 1366 Kelly Bushing Well Temperature 105 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	1128 P.S.I.	Open Tool	4:00P M	
B	First Initial Flow Pressure	36 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	227 P.S.I.	Initial Closed-in Pressure	45 Mins.	42 Mins.
D	Initial Closed-in Pressure	843 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	258 P.S.I.	Final Closed-in Pressure	60 Mins.	57 Mins.
F	Second Final Flow Pressure	620 P.S.I.			
G	Final Closed-in Pressure	843 P.S.I.			
H	Final Hydrostatic Mud	1090 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	36
P 2	5	63
P 3	10	101
P 4	15	126
P 5	20	154
P 6	25	191
P 7	30	227
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 14 Inc.
of 3 mins. and a
final inc. of 0 Min.

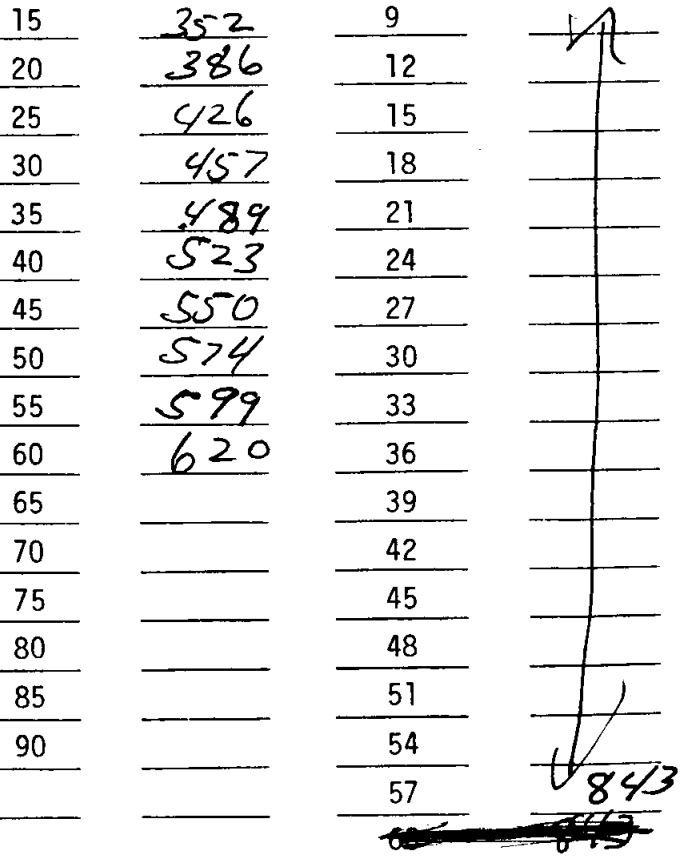
Point Minutes	Press.
0	227
3	839
6	843
9	
12	
15	
18	
21	
24	
27	
30	843
33	
36	
39	
42	843
45	
48	
51	
54	
57	
60	

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

Point Minutes	Press.
0	258
5	276
10	312
15	352
20	386
25	426
30	457
35	489
40	523
45	550
50	574
55	599
60	620
65	
70	
75	
80	
85	
90	

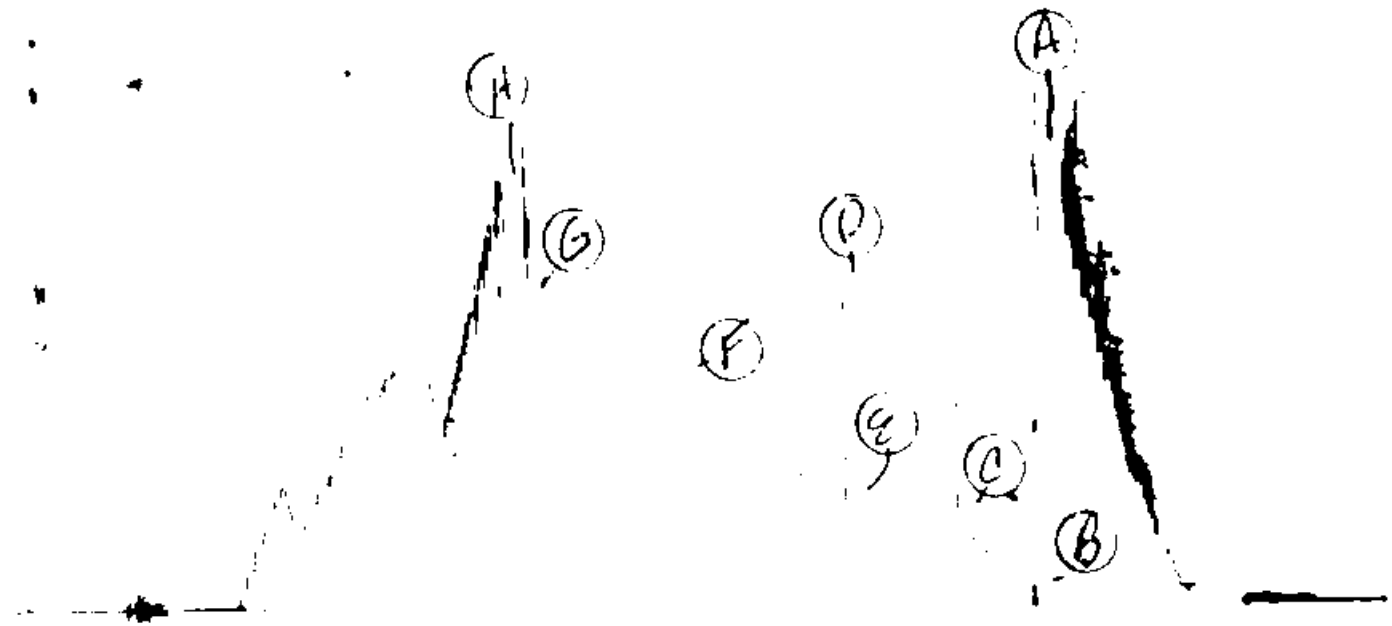
Final Shut-In
Breakdown: Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	620
3	839
6	843
9	
12	
15	
18	
21	
24	
27	
30	
33	
36	
39	
42	
45	
48	
51	
54	
57	843
60	



JKi #2061

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Company Pendleton Land & Exploration, Inc. Lease & Well No. Strait Ranch #16

Elevation 1366 Kelly Bushing Formation Hunton Effective Pay ---- Ft. Ticket No. 6061

Date 7/30/80 Sec. 21 Twp. 21S Range 5E County Marion State Kansas

Test Approved by Daniel Fredlund Western Representative Norman Allen

Formation Test No. 1 Interval Tested from 2290 ft. to 2308 ft. Total Depth 2308 ft.

Packer Depth 2290 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2285 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2301 ft. Recorder Number 3354 Cap. 4200

Bottom Recorder Depth (Outside) 2304 ft. Recorder Number 1560 Cap. 4500

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

Drilling Contractor Edco Drilling Rig #6 Drill Collar Length 232 I. D. 2¼ in.

Mud Type chemical Viscosity 38 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 14.4 cc. Drill Pipe Length 2035 I. D. 3.8 in.

Chlorides 1,000 P.P.M. Test Tool Length 41 ft. Tool Size 4½OD in.

Jars: Make - Serial Number - Anchor Length 18 ft. Size 4½ODin.

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 4½XH in.

Blow: Strong throughout test.

Recovered 180 ft. of ~~gas in pipe~~

Recovered 750 ft. of oil

Recovered 670 ft. of sulphur cut salt water

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 4:00 ~~A.M.~~ P.M. Time Started Off Bottom 7:15 ~~A.M.~~ P.M. Maximum Temperature 105°

Initial Hydrostatic Pressure (A) 1128 P.S.I.

Initial Flow Period Minutes 30 (B) 36 P.S.I. to (C) 227 P.S.I.

Initial Closed In Period Minutes 42 (D) 843 P.S.I.

Final Flow Period Minutes 60 (E) 258 P.S.I. to (F) 620 P.S.I.

Final Closed In Period Minutes 57 (G) 843 P.S.I.

Final Hydrostatic Pressure (H) 1090 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 7/30/80 Test Ticket No. 6061

Recorder No. 3354 Capacity 4200 Location 2301 Ft.

Clock No. --- Elevation 1366 Kelly Bushing Well Temperature 105 °F

Point		Pressure			Time Given		Time Computed	
A	Initial Hydrostatic Mud	1128	P.S.I.	Open Tool	4:00P	M		
B	First Initial Flow Pressure	26	P.S.I.	First Flow Pressure	30	Mins.	30	Mins.
C	First Final Flow Pressure	227	P.S.I.	Initial Closed-in Pressure	45	Mins.	42	Mins.
D	Initial Closed-in Pressure	843	P.S.I.	Second Flow Pressure	60	Mins.	60	Mins.
E	Second Initial Flow Pressure	258	P.S.I.	Final Closed-in Pressure	60	Mins.	57	Mins.
F	Second Final Flow Pressure	620	P.S.I.					
G	Final Closed-in Pressure	843	P.S.I.					
H	Final Hydrostatic Mud	1090	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: 14 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: 19 Inc. of 3 mins. and a final inc. of 0 Min.

Point	First Flow Pressure 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	36	0	227	0	258	0	620
P 2	5	63	3	839	5	276	3	839
P 3	10	101	6	843	10	312	6	843
P 4	15	126	9	843	15	352	9	843
P 5	20	154	12	843	20	386	12	843
P 6	25	191	15	843	25	426	15	843
P 7	30	227	18	843	30	457	18	843
P 8			21	843	35	489	21	843
P 9			24	843	40	523	24	843
P10			27	843	45	550	27	843
P11			30	843	50	574	30	843
P12			33	843	55	599	33	843
P13			36	843	60	620	36	843
P14			39	843			39	843
P15			42	843			42	843
P16							45	843
P17							48	843
P18							51	843
P19							54	843
P20							57	843