Company Pendleton Land & Exploration, Inc. Lease & Well No. Josserand #1

Elevation 2773 Kelly Bushing Formation Lansing Effective Pay -- Ft. Ticket No. 9862

Date 1/31/81 Sec. 17 Twp. 27S Range 29W County Gray State Kansas

Test Approved by Daniel Fredlund Western Representative Gene Eberhart

Formation Test No. 1 Interval Tested from 4256 ft. to 4275 ft. Total Depth 4275 ft.

Packer Depth - ft. Size 6 3/8 in. Packer Depth - ft. Size - in.

Packer Depth - ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) - ft. Recorder Number 2774 Cap. 4300

Bottom Recorder Depth (Outside) - ft. Recorder Number 10265 Cap. 4675

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

Drilling Contractor Silverado Drilling Rig #8 Drill Collar Length - I. D. - in.

Mud Type Viscosity Weight Pipe Length I. D. in.

Weight Water Loss cc. Drill Pipe Length I. D. in.

Chlorides P.P.M. Test Tool Length 27 ft. Tool Size 5½OD in.

Jars: Make WTC Serial Number 421 Anchor Length 19 ft. Size 5½OD in.

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

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

Blow:

Recovered ft. of

Recovered ft. of MISRUN

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: COULD NOT GET TO BOTTOM. HIT BRIDGE FIVE STANDS DOWN. LOST WEIGHT FOR TWENTY-EIGHT STANDS.

NO PRESSURES AVAILABLE

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

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

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

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

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

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

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

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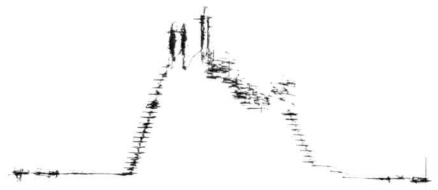

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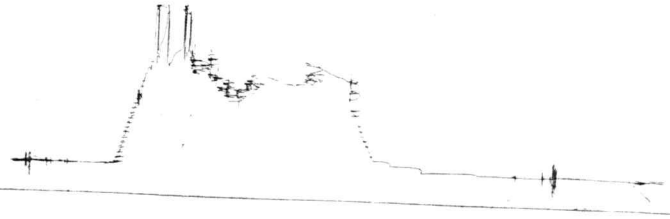

Company: Pendleton Land & Exploration, Inc. Lease & Well No.: Josserand #1

Elevation: ---- Formation: Lansing Effective Pay: --- Ft. Ticket No.: 9282

Date: 2/2/81 Sec.: 17 Twp.: 27S Range: 29W County: Gray State: Kansas

Test Approved by: Daniel Fredlund Western Representative: Jeff Plotrowski-Mark Auzat

Formation Test No.: 3 Interval Tested from: 4490 ft. to: 4575 ft. Total Depth: 4575 ft.

Packer Depth: ft. Size: in. Packer Depth: ft. Size: in.

Packer Depth: ft. Size: in. Packer Depth: ft. Size: in.

Depth of Selective Zone Set:

Top Recorder Depth (Inside): ft. Recorder Number: Cap.:

Bottom Recorder Depth (Outside): ft. Recorder Number: Cap.:

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

Drilling Contractor: Silverado Drilling Rig #8 Drill Collar Length: I. D.: in.

Mud Type: Drispac Viscosity: 50 Weight Pipe Length: I. D.: in.

Weight: 9.0 Water Loss: 10.0 cc. Drill Pipe Length: I. D.: in.

Chlorides: 9,000 P.P.M. Test Tool Length: ft. Tool Size: in.

Jars: Make: WTC Serial Number: 405 Anchor Length: ft. Size: in.

Did Well Flow?: Reversed Out Surface Choke Size: in. Bottom Choke Size: in.

Main Hole Size: in. Tool Joint Size: in.

Blow:

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: COULD NOT GET TO BOTTOM: HIT BRIDGE AT 1600 FEET.

NO PRESSURES AVAILABLE

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

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

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

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

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

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

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

Pendelton Land & Exp. Inc. #1565
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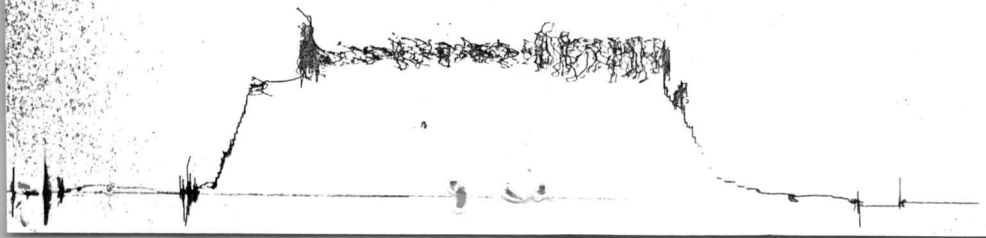

Company Pendleton Land & Exploration, Inc. Lease & Well No. Josserand #1

Elevation ---- Formation Mississippi Effective Pay --- Ft. Ticket No. 9310

Date 2/5/81 Sec. 17 Twp. 27S Range 29W County Gray State Kansas

Test Approved by Daniel Fredlund Western Representative Stuart Stover

Formation Test No. 4 Interval Tested from 5020 ft. to 5110 ft. Total Depth 5110 ft.

Packer Depth 5015 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 5020 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5025 ft. Recorder Number 11018 Cap. 4425

Bottom Recorder Depth (Outside) 5110 ft. Recorder Number 11019 Cap. 4500

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

Drilling Contractor Silverado Drilling Rig #8 Drill Collar Length 180 I. D. 2¼ in.

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

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

Chlorides - P.P.M. Test Tool Length 27 ft. Tool Size 3½ in.

Jars: Make WTC Serial Number 3660 Anchor Length 90 ft. Size 4½ in.

Did Well Flow? - Reversed Out - Surface Choke Size 1/2 Bottom Choke Size 1/2 in.

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

Blow: Very weak for five minutes;flushed tool;weak blow for fifteen minutes.

Recovered 90 ft. of watery drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:45 A.M. ~~P.M.~~ Time Started Off Bottom 3:00 A.M. P.M. Maximum Temperature 126°

Initial Hydrostatic Pressure			(A)	2466	P.S.I.	
Initial Flow Period	Minutes 30	(B)	71	P.S.I. to (C)	68	P.S.I.
Initial Closed In Period	Minutes 42	(D)	1304	P.S.I.		
Final Flow Period	Minutes 55	(E)	93	P.S.I. to (F)	92	P.S.I.
Final Closed In Period	Minutes 69	(G)	1248	P.S.I.		
Final Hydrostatic Pressure		(H)	2444	P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 2-5-81 Test Ticket No. 9310

Recorder No. 11018 Capacity 4425 Location 5025 Ft.

Clock No. ------ Elevation -------- Well Temperature 120 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2466 P.S.I.	Open Tool	11:45 A M	
B	First Initial Flow Pressure	71 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	68 P.S.I.	Initial Closed-in Pressure	45 Mins.	42 Mins.
D	Initial Closed-in Pressure	1304 P.S.I.	Second Flow Pressure	60 Mins.	55 Mins.
E	Second Initial Flow Pressure	93 P.S.I.	Final Closed-in Pressure	60 Mins.	69 Mins.
F	Second Final Flow Pressure	92 P.S.I.			
G	Final Closed-in Pressure	1248 P.S.I.			
H	Final Hydrostatic Mud	2444 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: 11 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 23 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	71	0	68	0	93	0	92
P 2	5	64	3	648	5	87	3	469
P 3	10	76 Flushed Tool	6	854	10	84	6	655
P 4	15	69	9	982	15	86	9	768
P 5	20	67	12	1046	20	87	12	845
P 6	25	68	15	1084	25	89	15	909
P 7	30	68	18	1121	30	90	18	960
P 8			21	1161	35	90	21	993
P 9			24	1187	40	91	24	1026
P10			27	1214	45	91	27	1066
P11			30	1238	50	92	30	1093
P12			33	1258	55	92	33	1106
P13			36	1273			36	1121
P14			39	1291			39	1134
P15			42	1304			42	1150
P16							45	1165
P17							48	1178
P18							51	1192
P19							54	1200
P20							57	1211
							60	1220
							63	1231
							66	1240
							69	1248

WTC - 4

11018 - 9310

Jkt # 9310 .

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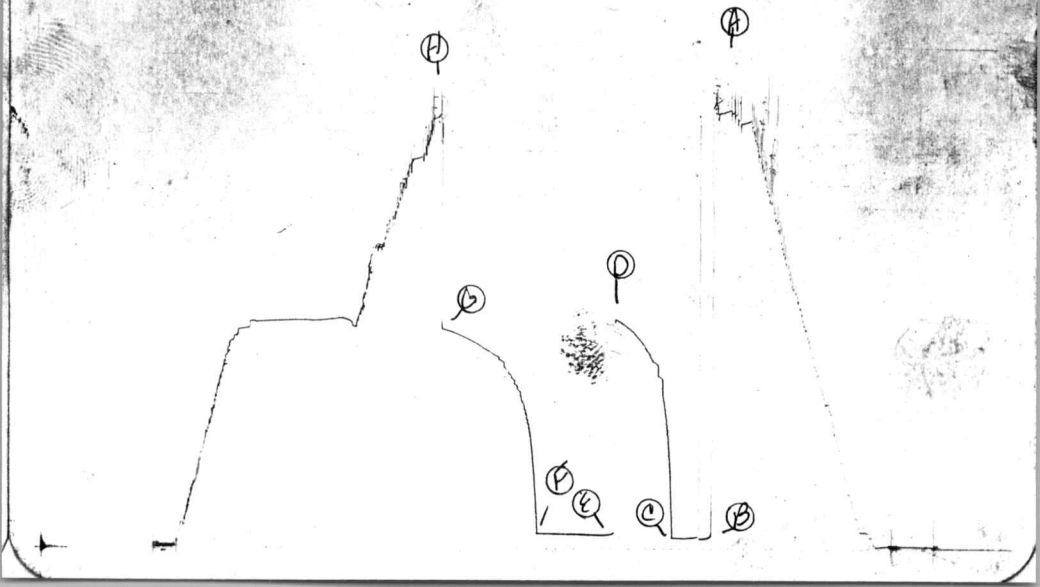

Company Pendleton Land & Exploration, Inc. Lease & Well No. Josserand #1

Elevation 2773 Kelly Bushing Formation Kansas City Effective Pay -- Ft. Ticket No. 9609

Date 2/7/81 Sec. 17 Twp. 27S Range 29W County Gray State Kansas

Test Approved by Daniel Fredlund Western Representative Darrell Claphan

Formation Test No. 5 Interval Tested from 4475 ft. to 4515 ft. Total Depth 4515 ft.

Packer Depth 4470 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4515 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4501 ft. Recorder Number 10266 Cap. 4650

Bottom Recorder Depth (Outside) 4505 ft. Recorder Number 6233 Cap. 4000

Below Straddle Recorder Depth 4812 ft. Recorder Number H & T Cap. --

Drilling Contractor Silverado Drlg. Rig #8 Drill Collar Length In anchor 428 I. D. 2.2 in.

Mud Type premix-drispac Viscosity 70 Weight Pipe Length -- I. D. - in.

Weight 9.1 Water Loss 9.6 cc. Drill Pipe Length 3447 I. D. 3.8 in.

Chlorides 7,000 P.P.M. Test Tool Length 28 ft. Tool Size 4.5 in.

Jars: Make WTC Serial Number 420 Anchor Length 40' anchor 1735' tail ft. Size 5.5 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. Tool Joint Size 4.5 in.

Blow: Initial flow period weak building to strong blow in four minutes One inch to thirteen inches. Second flow period , weak building then slowly dying ; flushed tool.

Recovered 2279 ft. of very heavy mud

Recovered 360 ft. of slightly oil and gas cut mud

Recovered 120 ft. of slightly oil and gas cut watery mud

Recovered ft. of

Recovered ft. of

Remarks: Mud pump broke night before; standby pump broke going into hole (was not able to keep hole filled) could not pull up for first shut-in; suddenly pipe broke free causing tool to be picked up too high.

Time Set Packer(s) 4:50 ~~A.M.~~ P.M. Time Started Off Bottom 7:35 ~~A.M.~~ P.M. Maximum Temperature ?

Initial Hydrostatic Pressure		(A) 1800 P.S.I.		
Initial Flow Period	Minutes 30	(B) 586 P.S.I.	to (C) 986	P.S.I.
Initial Closed In Period	Minutes 45	(D) 1156 # P.S.I.		
Final Flow Period	Minutes 30	(E) 1026 P.S.I.	to (F) 1005	P.S.I.
Final Closed In Period	Minutes 57	(G) 993 P.S.I.		
Final Hydrostatic Pressure		(H) 1649 P.S.I.		

WESTERN TESTING CO., INC.

Pressure Data

Date 2-7-81 Test Ticket No. 9609

Recorder No. 10266 Capacity 4650 Location 4501 Ft.

Clock No. ---- Elevation 2773 Kelly Bushing Well Temperature --- °F

Point		Pressure	
A	Initial Hydrostatic Mud	1800	P.S.I.
B	First Initial Flow Pressure	586	P.S.I.
C	First Final Flow Pressure	986	P.S.I.
D	Initial Closed-in Pressure	1156 #	P.S.I.
E	Second Initial Flow Pressure	1026	P.S.I.
F	Second Final Flow Pressure	1005	P.S.I.
G	Final Closed-in Pressure	993	P.S.I.
H	Final Hydrostatic Mud	1649	P.S.I.

	Time Given	Time Computed
Open Tool	4:50 P M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	45 Mins.	45 Mins.
Second Flow Pressure	30 Mins.	30 Mins.
Final Closed-in Pressure	60 Mins.	57 Mins.

PRESSURES QUESTIONABLE, SEE REMARKS ON TOP SHEET

Pressures questionable due to tool being picked-up too high.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 15 Inc.		Breakdown: 6 Inc.		Breakdown: 19 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	586	0	986	0	1026	0	1005
P 2 5	643	3	1170 #	5	1009	3	1014
P 3 10	738	6	1114 #	10	1014	6	1007
P 4 15	794	9	1084 #	15	998	9	1002
P 5 20	883	12	1060 #	20	988	12	1000
P 6 25	928	15	1047 #	25	984	15	995
P 7 30	986	18	1037 #	30	1005	18	995
P 8		21	1028 #			21	994
P 9		24	1021 #			24	993
P10		27	1016 #			27	993
P11		30	1013 #			30	992
P12		33	1011 #			33	991
P13		36	1009 #			36	990
P14		39	1009 #			39	989
P15		42	1153 #			42	988
P16		45	1156 #			45	988
P17						48	988
P18						51	988
P19						54	988
P20						57	993

TKT #9609

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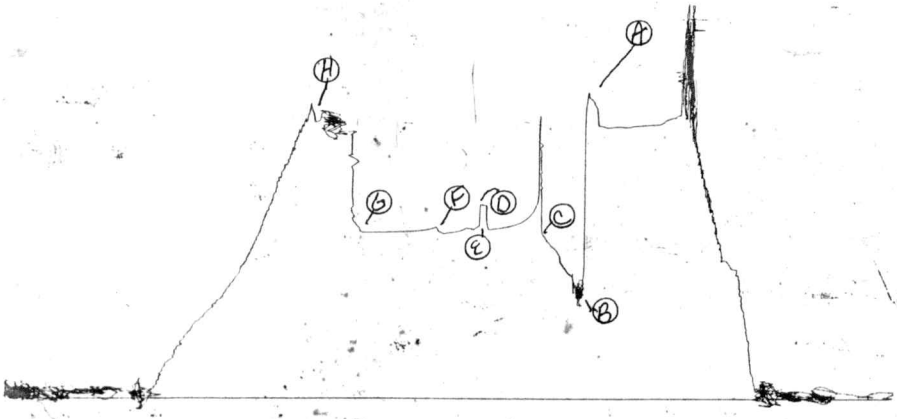

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