Company Martin Oil Company — Lease & Well No. Hogaboom #16-1

Elevation - — Formation Arbuckle — Effective Pay - Ft. — Ticket No. 6016

Date 6-27-80 — Sec. 16 — Twp. 26S — Range 5E — County Butler — State Kansas

Test Approved by Paul D. Koontz — Western Representative Fred Klaus

Formation Test No. #1 — Interval Tested from 2401 ft. to 2411 ft. — Total Depth 2411 ft.

Packer Depth 2401 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 2396 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2403 ft. — Recorder Number 1558 — Cap. 4200

Bottom Recorder Depth (Outside) 2406 ft. — Recorder Number 1559 — Cap. 4200

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

Drilling Contractor Pioneer Drlg. Rig #1 — Drill Collar Length 208 — I. D. 3 3/4 in.

Mud Type Chemcial — Viscosity 42 — Weight Pipe Length 348 — I. D. 3.8 in.

Weight 9.6 — Water Loss 16.0 cc. — Drill Pipe Length 1835 — I. D. 3.8 in.

Chlorides 2800 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½ in.

Jars: Make - — Serial Number - — Anchor Length 10 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: Very weak blow, died on initial flow period. Very weak blow, died in 25 minutes on final flow period.

Recovered 4 ft. of free oil

Recovered 8 ft. of heavy oil cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:45 A.M. ~~P.M.~~ — Time Started Off Bottom 9:45 A.M. ~~P.M.~~ — Maximum Temperature -

Initial Hydrostatic Pressure ..... (A) 1248 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 4 P.S.I. to (C) 4 P.S.I.

Initial Closed In Period ..... Minutes 33 (D) 398 P.S.I.

Final Flow Period ..... Minutes 30 (E) 48 P.S.I. to (F) 30 P.S.I.

Final Closed In Period ..... Minutes 33 (G) 733 P.S.I.

Final Hydrostatic Pressure ..... (H) 1234 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 6-27-80 Test Ticket No. 6016

Recorder No. 1558 Capacity 4200 Location --- Ft.

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

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1248 P.S.I.	Open Tool	7:45 A. M	
B First Initial Flow Pressure	4 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	4 P.S.I.	Initial Closed-in Pressure	30 Mins.	33 Mins.
D Initial Closed-in Pressure	398 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	48 P.S.I.	Final Closed-in Pressure	30 Mins.	33 Mins.
F Second Final Flow Pressure	30 P.S.I.			
G Final Closed-in Pressure	733 P.S.I.			
H Final Hydrostatic Mud	1234 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: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 11 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	4	0	4	0	48	0	30
P 2	5	4	3	4	5	44	3	31
P 3	10	4	6	4	10	36	6	34
P 4	15	4	9	4	15	32	9	38
P 5	20	4	12	4	20	30	12	41
P 6	25	4	15	11	26	30	15	55
P 7	30	4	18	18	30	30	18	124
P 8			21	32			21	257
P 9			24	80			24	382
P10			27	187			27	489
P11			30	304			30	571
P12			33	398			33	733
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

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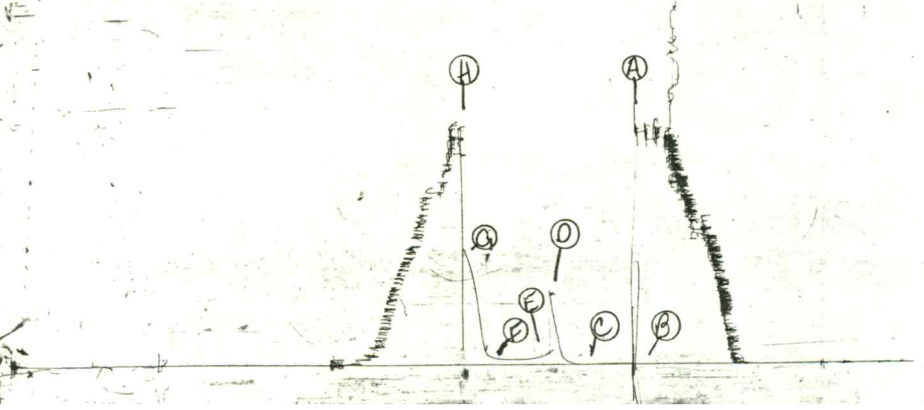

Company J. S. Martin Oil Operations — Lease & Well No. Kaufman #3

Elevation ----- — Formation Lansing — Effective Pay ---- Ft. — Ticket No. 7399

Date 10/6/80 — Sec. 33 — Twp. 15S — Range 12W — County Russell — State Kansas

Test Approved by Larry B----- — Western Representative Roger Lisenby

Formation Test No. 1 — Interval Tested from 2964 ft. to 3026 ft. — Total Depth 3026 ft.

Packer Depth 2959 ft. — Size 6 3/4 in. — Packer Depth 2964 ft. — Size 6 3/4 in.

Packer Depth - ft. — Size - in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2990 ft. — Recorder Number 6077 — Cap. 4700

Bottom Recorder Depth (Outside) 2993 ft. — Recorder Number 1051 — Cap. 4250

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

Drilling Contractor Duke Drilling Rig #1 — Drill Collar Length - — I. D. - in.

Mud Type starch — Viscosity 43 — Weight Pipe Length 662 — I. D. 2.7 in.

Weight 10.1 — Water Loss 11.2 cc. — Drill Pipe Length 2281 — I. D. 3.8 in.

Chlorides 68,000 P.P.M. — Test Tool Length 21 ft. — Tool Size 4 3/4 in.

Jars: Make - — Serial Number - — Anchor Length 62 ft. — Size 5½ with Jt. in. D.P.

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 4½FH in.

Blow: Weak blow throughout initial flow. No blow final flow period.

Recovered 60 ft. of slightly gas cut mud with few oil spots.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:35 A.M. P.M. — Time Started Off Bottom 2:39 A.M. P.M. — Maximum Temperature 108°

Initial Hydrostatic Pressure			(A)	1678	P.S.I.	
Initial Flow Period	Minutes 30	(B)	73	P.S.I. to (C)	65	P.S.I.
Initial Closed In Period	Minutes 30	(D)	475	P.S.I.		
Final Flow Period	Minutes 30	(E)	88	P.S.I. to (F)	79	P.S.I.
Final Closed In Period	Minutes 30	(G)	340	P.S.I.		
Final Hydrostatic Pressure			(H)	1647	P.S.I.	

WESTERN TESTING CO., INC.

Pressure Data

Date 10-6-80 Test Ticket No. 7399

Recorder No. 6077 Capacity 4700 Location 2990 Ft.

Clock No. - Elevation - Well Temperature 108 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	1678 P.S.I.	Open Tool	12:35A M	
B	First Initial Flow Pressure	73 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	65 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	475 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	88 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	79 P.S.I.			
G	Final Closed-in Pressure	340 P.S.I.			
H	Final Hydrostatic Mud	1647 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.		Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.		Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.		Breakdown: 10 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	73	0	65	0	88	0	79
P 2 5	63	3	65	5	78	3	80
P 3 10	63	6	68	10	78	6	88
P 4 15	63	9	75	15	78	9	95
P 5 20	63	12	88	20	78	12	108
P 6 25	65	15	103	25	78	15	125
P 7 30	65	18	140	30	79	18	138
P 8		21	203			21	170
P 9		24	290			24	215
P10		27	388			27	283
P11		30	475			30	340
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

JKG # 7399

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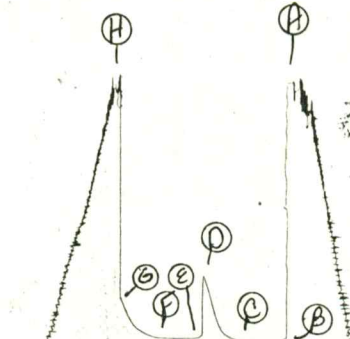

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