WESTERN TESTERS

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

WICHITA, KANSAS 67201

Company Raymond Oil Company, Inc. Lease & Well No. Carr #1

Elevation 1964 Ground Level Formation ----- Effective Pay ------ Ft. Ticket No. 563

Date 8/31/78 Sec. 35 Twp. 32S Range 15W County Barber State Kansas

Test Approved by R. E. Rowland Western Representative Rodney K. Tritt

Formation Test No. 1 Interval Tested from 4014' ft. to 4028' ft. Total Depth 4028' ft.

Packer Depth 4009 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4014 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4031 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 4034 ft. Recorder Number 2606 Cap. 4150

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

Drilling Contractor Graves Drilling Company Drill Collar Length 180 I. D. 2¼ in.

Mud Type starch Viscosity 44 Weight Pipe Length 930 I. D. 2½ in.

Weight 9.8 Water Loss 18.2 cc. Drill Pipe Length 2918 I. D. 4½FH in.

Chlorides 58,000 P.P.M. Test Tool Size 5½OD in. Tool Joint Size 4½FH in.

Jars: Make No Serial Number -- Anchor Length 14 ft. Size 5½OD 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: Very weak blow on initial flow period. No blow on final flow period.

Recovered 20 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:00 A.M. ~~P.M.~~ Time Started Off Bottom 5:00 ~~A.M.~~ P.M. Maximum Temperature 112

Initial Hydrostatic Pressure ..... (A) 2226 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 60 P.S.I. to (C) 18 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 13 P.S.I.

Final Flow Period ..... Minutes 30 (E) 13 P.S.I. to (F) 13 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 13 P.S.I.

Final Hydrostatic Pressure ..... (H) 2202 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8/31/78 Test Ticket No. 563

Recorder No. 2604 Capacity 4150 Location 4031 Ft.

Clock No. -- Elevation 1964 Ground Level Well Temperature 112 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2226 P.S.I.		Open Tool	3:00A M	
B	First Initial Flow Pressure	60 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	18 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	13 P.S.I.		Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	13 P.S.I.		Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	13 P.S.I.				
G	Final Closed-in Pressure	13 P.S.I.				
H	Final Hydrostatic Mud	2202 P.S.I.				

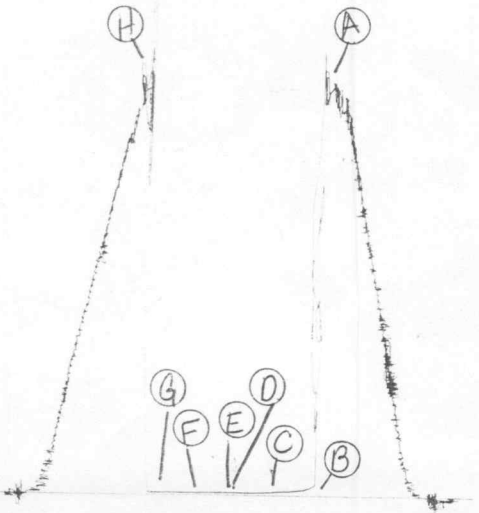
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 10 Inc.		Breakdown: 6 Inc.		Breakdown: 10 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	60	0	18	0	13	0	13
P 2 5	39	3	16	5	13	3	13
P 3 10	29	6	15	10	13	6	13
P 4 15	24	9	14	15	13	9	13
P 5 20	22	12	14	20	13	12	13
P 6 25	21	15	13	25	13	15	13
P 7 30	18	18	13	30	13	18	13
P 8		21	13			21	13
P 9		24	13			24	13
P10		27	13			27	13
P11		30	13			30	13
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

2604

JKT #563

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

Company Raymond Oil Company, Inc. Lease & Well No. Carr #1

Elevation 1964 Ground Level Formation Douglas Sand Effective Pay -- Ft. Ticket No. 564

Date 9/1/78 Sec. 35 Twp. 32S Range 15W County Barber State Kansas

Test Approved by Clyde R. Kuhn Western Representative Rod Tritt

Formation Test No. 2 Interval Tested from 4182' ft. to 4203' ft. Total Depth 4203' ft.

Packer Depth 4179 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4182 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ---

Top Recorder Depth (Inside) 4186 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 4189 ft. Recorder Number 2606 Cap. 4150

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

Drilling Contractor Graves Drilling Co. Drill Collar Length 89 I. D. 2¼ in.

Mud Type starch Viscosity 48 Weight Pipe Length 930 I. D. 2½ in.

Weight 9.9 Water Loss 7.2 cc. Drill Pipe Length 3142 I. D. 3.8 in.

Chlorides 48,000 P.P.M. Test Tool Size 5½OD in. Tool Joint Size 4½FH in.

Jars: Make No Serial Number -- Anchor Length 21 ft. Size 5½OD 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.

Blow: Weak blow building to fair blow (5" into water) on initial flow period. Fair blow, depleating on final flow period.

Recovered 30 ft. of slightly gas cut drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 2:35 A.M. ~~P.M.~~ Time Started Off Bottom 5:05 A.M. ~~P.M.~~ Maximum Temperature 120

Initial Hydrostatic Pressure (A) 2320 P.S.I.

Initial Flow Period Minutes 30 (B) 58 P.S.I. to (C) 27 P.S.I.

Initial Closed In Period Minutes 30 (D) 89 P.S.I.

Final Flow Period Minutes 30 (E) 64 P.S.I. to (F) 26 P.S.I.

Final Closed In Period Minutes 60 (G) 650 P.S.I.

Final Hydrostatic Pressure (H) 2278 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 9/1/78 Test Ticket No. 564

Recorder No. 2604 Capacity 4150 Location 4186 Ft.

Clock No. -- Elevation 1964 Ground Level Well Temperature 120 °F

Point		Pressure			Time Given		Time Computed	
A	Initial Hydrostatic Mud	2320	P.S.I.	Open Tool	2:35A	M		
B	First Initial Flow Pressure	58	P.S.I.	First Flow Pressure	30	Mins.	30	Mins.
C	First Final Flow Pressure	27	P.S.I.	Initial Closed-in Pressure	30	Mins.	30	Mins.
D	Initial Closed-in Pressure	89	P.S.I.	Second Flow Pressure	30	Mins.	30	Mins.
E	Second Initial Flow Pressure	64	P.S.I.	Final Closed-in Pressure	60	Mins.	51	Mins.
F	Second Final Flow Pressure	26	P.S.I.					
G	Final Closed-in Pressure	650	P.S.I.					
H	Final Hydrostatic Mud	2278	P.S.I.					

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 10 Inc.		Breakdown: 6 Inc.		Breakdown: 17 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	58	0	27	0	64	0	26
P 2 5	40	3	28	5	45	3	30
P 3 10	32	6	33	10	38	6	49
P 4 15	29	9	36	15	34	9	79
P 5 20	28	12	39	20	30	12	115
P 6 25	28	15	45	25	26	15	155
P 7 30	27	18	51	30	26	18	192
P 8		21	62			21	233
P 9		24	73			24	278
P10		27	87			27	326
P11		30	89			30	369
P12						33	411
P13						36	454
P14						39	508
P15						42	550
P16						45	594
P17						48	636
P18						51	650
P19							
P20							

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