



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No

3162

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

Elevation 2246 K.B. Formation MISS. Eff. Pay Ft.

District WAKEENEY Date 2-1-80 Customer Order No.

COMPANY NAME PARRISH OIL Co. 4H-30 INC.

ADDRESS 120 N. MARKET SUITE 201, WICHITA, KAN. 67202

LEASE AND WELL NO. WITTMAN #1 COUNTY NESS STATE KAN. Sec. OK-18 Twp. 20S Rge. 21W

Mail Invoice To SAME Co. Name Address No. Copies Requested 5

Mail Charts To SAME Co. Name Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 4408 ft. to 4418 ft. Total Depth 4418 ft.

Packer Depth 4403 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4408 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4410 ft. Recorder Number 2608 Cap. 4150 PSI

Bottom Recorder Depth (Outside) 4413 ft. Recorder Number 3473 Cap. 4000 PSI

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor H-30 Rq #2 Drill Collar Length I. D. in.

Mud Type Viscosity 37 Weight Pipe Length 120' I. D. 2.76 in.

Weight 10% Water Loss 144 cc. Drill Pipe Length 4324 I. D. 3.8 in.

Chlorides 57,000 P.P.M. Test Tool Length 19 in. Tool Size 5/8 in.

Jars: Make NONE Serial Number Anchor Length 10 ft. Size 5/8 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 2 1/2 F.A. in.

Blow: Strong thru out I.F.P.

Strong decreasing to dead 32 min. into F.F.P.

Recovered ft. of

Recovered ft. of

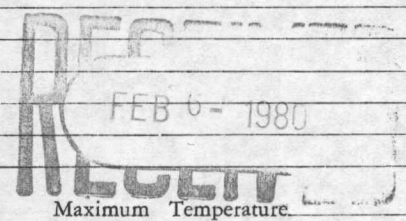
Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: MISRUN

HOLE IN DRILL PIPE



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 30 (B) P.S.I. to (C) P.S.I.

Initial Closed In Period Minutes 60 (D) P.S.I.

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

Final Closed In Period Minutes 90 (G) P.S.I.

Final Hydrostatic Pressure (H) 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 Randy Loukey
Signature of Customer or his authorized representative

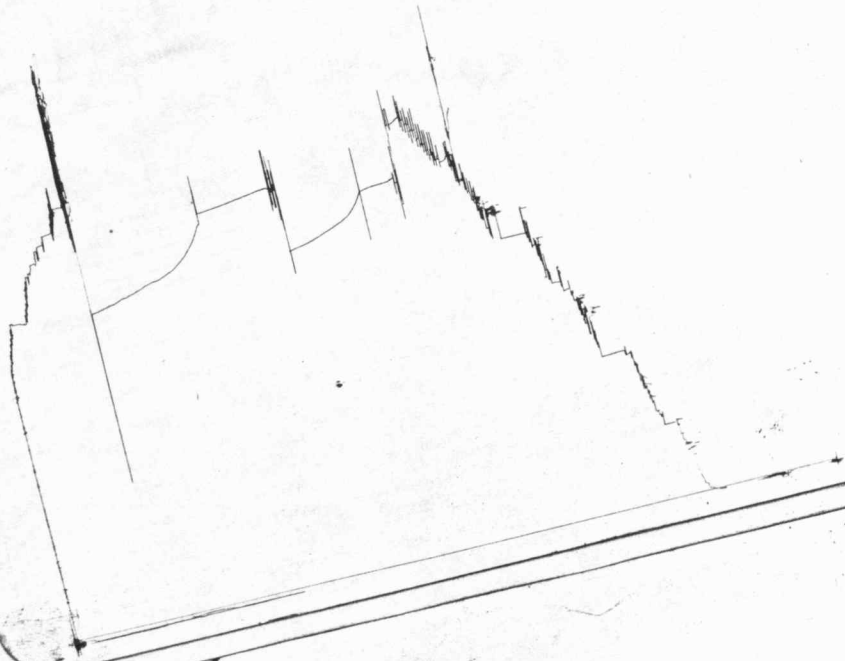
Western Representative Randy Loukey

FIELD INVOICE

Open Hole Test	\$	
<u>Misrun</u>	\$	<u>275.00</u>
Straddle Test	\$	
Jars	\$	
Selective Zone	\$	
Safety Joint	\$	
Standby	\$	
Evaluation	\$	
Extra Packer	\$	
Circ. Sub.	\$	
Mileage	\$	
Extra Charts	\$	
TOTAL	\$	<u>275.00</u>

AST # 1

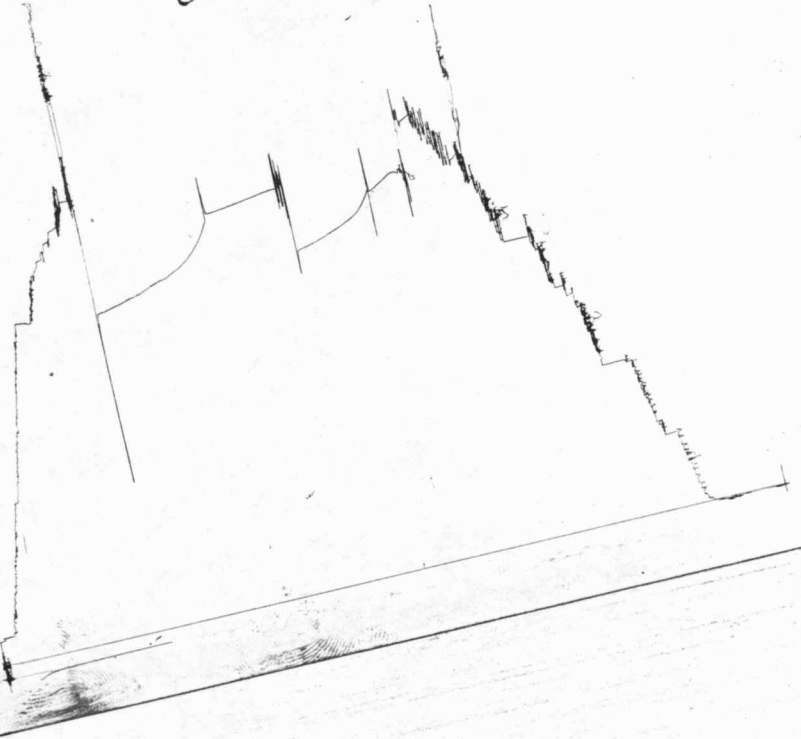
TKt # 3162
I



B-3473
B-3162

AST # 1

TKt # 3162
O



Company Parrish Oil Co. & H-30, Inc. Lease & Well No. Wittman #1
 Elevation 2246 Kelly Bushing Mississippi Formation Effective Pay -- Ft. Ticket No. 3162
 Date 2/1/80 Sec. 18 Twp. 20S Range 21W County Ness State Kansas
 Test Approved by Dean Britting Western Representative Randy Lackey

Formation Test No. 1 Interval Tested from 4408 ft. to 4418 ft. Total Depth 4418 ft.
 Packer Depth 4403 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4408 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4410 ft. Recorder Number 2608 Cap. 4150 PSI
 Bottom Recorder Depth (Outside) 4413 ft. Recorder Number 3473 Cap. 4000 PSI
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor H-30, Inc. Rig #2 Drill Collar Length -- I. D. - in.
 Mud Type -- Viscosity 37 Weight Pipe Length 120 I. D. 2.76 in.
 Weight 10.0 Water Loss 14.4 cc. Drill Pipe Length 4324 I. D. 3.8 in.
 Chlorides 57,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.
 Jars: Make None Serial Number - Anchor Length 10 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong throughout initial flow period. Strong decreasing to dead thirty -two minutes into Final Flow Period.

Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____ MISRUN _____ HOLE IN DRILL PIPE
 Recovered _____ ft. of _____

Remarks: _____

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.



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No

3163

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

Elevation 2246 K.B. Formation MISS. Eff. Pay Ft.

District WAKEENEY Date 2-1-80 Customer Order No.

COMPANY NAME Parrish Oil Co. & H-30 Inc.

ADDRESS 120 N. MARKET Suite 201, Wichita, Kan. 67202

LEASE AND WELL NO. W. H. Man #1 COUNTY WESS STATE KAN. Sec. 18 Twp. 20S Rge. 21W

Mail Invoice To SAME Co. Name Address No. Copies Requested 5

Mail Charts To SAME Address No. Copies Requested 5

Formation Test No. 2 Interval Tested from 4408 ft. to 4418 ft. Total Depth 4418 ft. Packer Depth 4403 ft. Size 6 3/4 in. Packer Depth 4408 ft. Size 6 3/4 in.

Top Recorder Depth (Inside) 4410 ft. Recorder Number 2608 Cap. 4150 PSI Bottom Recorder Depth (Outside) 4413 ft. Recorder Number 3473 Cap. 4800 PSI Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor H-30 Rig #2 Drill Collar Length I. D. in. Mud Type DRISPAK Viscosity 37 Weight Pipe Length 120 I. D. 2.76 in. Weight 102 Water Loss 142 cc. Drill Pipe Length 4324 I. D. 3.8 in. Chlorides 57,000 P.P.M. Test Tool Length 19 in. Tool Size 5 1/2 in. Jars: Make NONE Serial Number Anchor Length 10 ft. Size 5 1/2 in. Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in. Main Hole Size 7/8 in. Tool Joint Size 4 1/2 F. #. in.

Blow: Recovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of Remarks: MISS RUN PKR FAILURES RECEIVED FEB 6 - 1980

Time Set Packer(s) 6:30 P.M. Time Started Off Bottom 6:45 P.M. Maximum Temperature Initial Hydrostatic Pressure (A) P.S.I. Initial Flow Period (B) Minutes P.S.I. to (C) P.S.I. Initial Closed In Period (D) Minutes P.S.I. Final Flow Period (E) Minutes P.S.I. to (F) P.S.I. Final Closed In Period (G) Minutes P.S.I. Final Hydrostatic Pressure (H) 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 Dean Britting Signature of Customer or his authorized representative

Western Representative Randy Pachery

FIELD INVOICE

Open Hole Test \$ Misrun \$ 275.00 Straddle Test \$ Jars \$ Selective Zone \$ Safety Joint \$ Standby \$ Evaluation \$ Extra Packer \$ Circ. Sub. \$ Mileage \$ Extra Charts \$

TOTAL \$ 275.00

WESTERN TESTING CO., INC.
Pressure Data

Date 2-1-80 Test Ticket No. 3163
 Recorder No. 2608 Capacity 4150 Location 4410 Ft.
 Clock No. _____ Elevation 2246 KB Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2337</u>	P.S.I.	<u>6:30</u> P M	
B First Initial Flow Pressure	—	P.S.I.		Mins. _____ Mins. _____
C First Final Flow Pressure	—	P.S.I.		Mins. _____ Mins. _____
D Initial Closed-in Pressure	—	P.S.I.		Mins. _____ Mins. _____
E Second Initial Flow Pressure	—	P.S.I.		Mins. _____ Mins. _____
F Second Final Flow Pressure	—	P.S.I.		Mins. _____ Mins. _____
G Final Closed-in Pressure	—	P.S.I.		Mins. _____ Mins. _____
H Final Hydrostatic Mud	<u>2316</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
	Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Press.	Point Minutes	Press.	Point Minutes
P 1	0	0	0	0
P 2	5	3	5	3
P 3	10	6	10	6
P 4	15	9	15	9
P 5	20	12	20	12
P 6	25	15	25	15
P 7	30	18	30	18
P 8	35	21	35	21
P 9	40	24	40	24
P10	45	27	45	27
P11	50	30	50	30
P12	55	33	55	33
P13	60	36	60	36
P14		39	65	39
P15		42	70	42
P16		45	75	45
P17		48	80	48
P18		51	85	51
P19		54	90	54
P20		57		57
		60		60

Company Parrish Oil Company & H-30, Inc. Lease & Well No. Wittman #1
 Elevation 2246 Kelly Bushing Mississippi Formation Effective Pay --- Ft. Ticket No. 3163
 Date 2/1/80 Sec. 18 Twp. 20S Range 21W County Ness State Kansas
 Test Approved by Dean Britting Western Representative Randy Lackey

Formation Test No. 2 Interval Tested from 4408 ft. to 4418 ft. Total Depth 4418 ft.
 Packer Depth 4403 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4408 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4410 ft. Recorder Number 2608 Cap. 4150 PSI
 Bottom Recorder Depth (Outside) 4413 ft. Recorder Number 3473 Cap. 4000 PSI
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor H-30, Inc. Drlg. Rig 2 Drill Collar Length -- I. D. - in.
 Mud Type drispac Viscosity 37 Weight Pipe Length 120 I. D. 2.76 in.
 Weight 10.0 Water Loss 14.4 cc. Drill Pipe Length 4324 I. D. 3.8 in.
 Chlorides 57,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.
 Jars: Make None Serial Number - Anchor Length 10 ft. Size 5 1/2 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 1/2 FH in.

Blow: _____

 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of MISRUN PACKER FAILURE
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

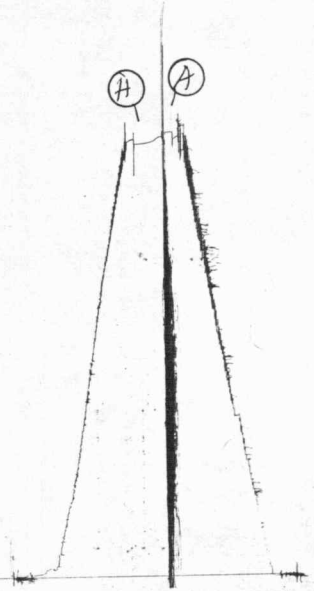
Remarks: _____

Time Set Packer(s) 6:30 ~~AM~~ PM Time Started Off Bottom 6:45 ~~AM~~ PM Maximum Temperature _____
 Initial Hydrostatic Pressure (A) 2337 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) 2316 P.S.I.

DST# 2

TKT# 3163
I

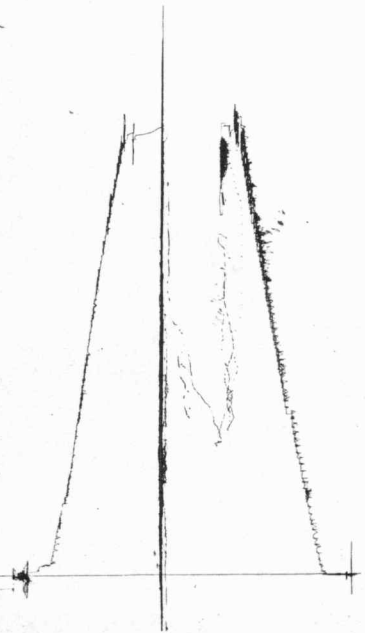
T-3163



DST# 2

TKT# 3163
O

B-3473
B-3163





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No

3164

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

Elevation 2246 KB. Formation MISS. Eff. Pay Ft.

District WAKEENEY Date 2-1-80 Customer Order No.

COMPANY NAME Parrish Oil Co. YH-50 Inc.

ADDRESS 110 N. MARKET Suite 201, Wichita, Kan 67202

LEASE AND WELL NO. Witman #1 COUNTY NESS STATE KAN. Sec. 18 Twp 20S Rge 21W

Mail Invoice To SAME Co. Name Address No. Copies Requested 5

Mail Charts To SAME Address No. Copies Requested 5

Formation Test No. 3 Interval Tested from 4407 ft. to 4418 ft. Total Depth 4418 ft.

Packer Depth 4402 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4407 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4410 ft. Recorder Number 2608 Cap. 4150 PSI

Bottom Recorder Depth (Outside) 4413 ft. Recorder Number 3473 Cap. 4000 PSI

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor H-30 Rig #2 Drill Collar Length I. D. in.

Mud Type Viscosity 44 Weight Pipe Length 120 I. D. 2.76 in.

Weight 10 1/2 Water Loss 112 cc. Drill Pipe Length 4324 I. D. 3.8 in.

Chlorides 64,000 P.P.M. Test Tool Length 19 in. Tool Size 5 1/2 in.

Jars: Make NONE Serial Number Anchor Length 11 ft. Size 5 1/2 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 1/2 R.H. in.

Blow:

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:45 A.M. P.M. Time Started Off Bottom 10:00 A.M. P.M. Maximum Temperature

Initial Hydrostatic Pressure (A) 2339 P.S.I.

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

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

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

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

Final Hydrostatic Pressure (H) 2316 P.S.I.

COMPANY TERMS

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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.

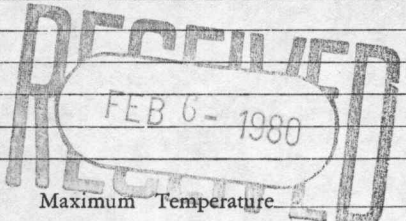
Test Approved By Sean Britting Signature of Customer or his authorized representative

Western Representative Randy Locking

FIELD INVOICE

Open Hole Test \$ Misrun \$ 275.00 Straddle Test \$ Jars \$ Selective Zone \$ Safety Joint \$ Standby \$ Evaluation \$ Extra Packer \$ 175.00 Circ. Sub. \$ Mileage \$ Extra Charts \$

TOTAL \$ 450.00 275.00



MIS RUN PKR FAILURE

WESTERN TESTING CO., INC.

Pressure Data

Date 2-1-80 Test Ticket No. 3164
 Recorder No. 2608 Capacity 4150 Location H410 Ft.
 Clock No. _____ Elevation 2246 KB Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2339</u>	P.S.I.	<u>9:45</u> P.M.	
B First Initial Flow Pressure	<u>—</u>	P.S.I.		
C First Final Flow Pressure	<u>—</u>	P.S.I.		
D Initial Closed-in Pressure	<u>—</u>	P.S.I.		
E Second Initial Flow Pressure	<u>—</u>	P.S.I.		
F Second Final Flow Pressure	<u>—</u>	P.S.I.		
G Final Closed-in Pressure	<u>—</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2316</u>	P.S.I.		

PRESSURE BREAKDOWN

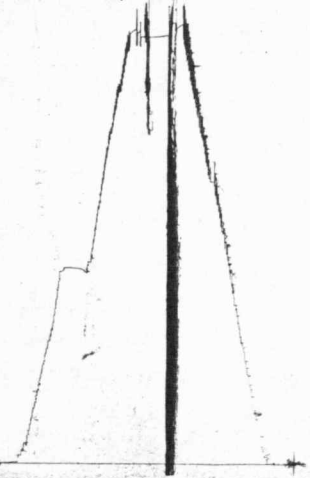
Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown: _____ Inc.	of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc.	of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc.	of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc.	of _____ mins. and a final inc. of _____ Min.
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1		0		0		0		0
P 2		5		3		5		3
P 3		10		6		10		6
P 4		15		9		15		9
P 5		20		12		20		12
P 6		25		15		25		15
P 7		30		18		30		18
P 8		35		21		35		21
P 9		40		24		40		24
P10		45		27		45		27
P11		50		30		50		30
P12		55		33		55		33
P13		60		36		60		36
P14				39				39
P15				42				42
P16				45				45
P17				48				48
P18				51				51
P19				54				54
P20				57				57
				60				60

DST#3

3164

TKT# 3164
I

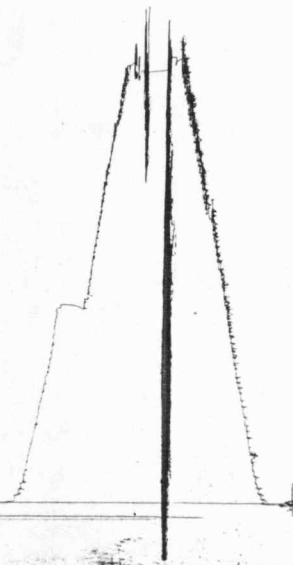
(H) (A)



DST#3

B-3473
B-3164

TKT# 3164
O



Company Parrish Oil Company & H-30, Inc. Lease & Well No. Wittman #1
 Elevation 2246 Kelly Bushing Mississippi Formation Effective Pay --- Ft. Ticket No. 3164
 Date 2/1/80 Sec. 18 Twp. 20S Range 21W County Ness State Kansas
 Test Approved by Dean Britting Western Representative Randy Lackey

Formation Test No. 3 Interval Tested from 4407 ft. to 4418 ft. Total Depth 4418 ft.
 Packer Depth 4402 ft. Size 6 3/4n. Packer Depth - ft. Size - in.
 Packer Depth 4407 ft. Size 6 3/4n. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4410 ft. Recorder Number 2608 Cap. 4150 PSI
 Bottom Recorder Depth (Outside) 4413 ft. Recorder Number 3473 Cap. 4000 PSI
 Below Straddle Recorder Depth -- ft. Recorder Number - Cap. -

Drilling Contractor H-30, Inc. Rig #2 Drill Collar Length -- I. D. - in.
 Mud Type starch Viscosity 44 Weight Pipe Length 120 I. D. 2.76 in.
 Weight 10.1 Water Loss 11.2 cc. Drill Pipe Length 4324 I. D. 3.8 in.
 Chlorides 64,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.
 Jars: Make None Serial Number - Anchor Length 11 ft. Size 5 1/2 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 1/2 FH in.

Blow: _____

 Recovered _____ ft. of _____
 Recovered _____ ft. of MISRUN PACKER FAILURE
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: _____

Time Set Packer(s) 9:45 ~~A.M.~~ P.M. Time Started Off Bottom 10:00 ~~A.M.~~ P.M. Maximum Temperature _____
 Initial Hydrostatic Pressure (A) 2339 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) 2316 P.S.I.



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No 3165

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

Elevation 2246 K.B. Formation MISS. Eff. Pay Ft.

District WAKEENEY Date 2-2-80 Customer Order No.

COMPANY NAME Parrish Oil Corp #4-30 Inc.

ADDRESS 100 W. Market Suite 201, Wichita, Kan.

LEASE AND WELL NO. Wittman #1 COUNTY NESS STATE KAN. Sec. M18 Twp 20S Rge 21W

Mail Invoice To Same Co. Name Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

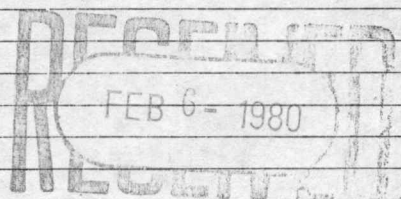
Formation Test No. 4 Interval Tested from 4392 ft. to 4418 ft. Total Depth 4418 ft. Packer Depth 4388 ft. Size 6 3/4 in. Packer Depth 4392 ft. Size 6 3/4 in. Depth of Selective Zone Set

Top Recorder Depth (Inside) 4409 ft. Recorder Number 2608 Cap. 4150 PSI Bottom Recorder Depth (Outside) 4412 ft. Recorder Number 3473 Cap. 4000 PSI Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor H-30 Rig #2 Drill Collar Length I. D. Weight Pipe Length 120 I. D. 2.76 in. Drill Pipe Length 4294 I. D. 3.8 in. Test Tool Length 19 in. Tool Size 5 1/2 in. Anchor Length 20 ft. Size 5 1/2 in. Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in. Main Hole Size 2 7/8 in. Tool Joint Size 4 1/2 F.H. in.

Blow: Weak thru out I.F.P. VERY WEAK died 14 min into F.I.P. - Flushed tool - VERY WEAK died 9 min.

Recovered 75 ft. of mud with few specks of oil on top of tool Recovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of Remarks:



Thank You

Table with 4 columns: Time Set Packer(s), Time Started Off Bottom, Maximum Temperature, and PSI readings (A-H).

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.

Test Approved By: Dean Britting Signature of Customer or his authorized representative

Western Representative: Randy Locking

FIELD INVOICE

Table with 2 columns: Item (Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Extra Charts) and Amount (\$550.00).

WESTERN TESTING CO., INC.

Pressure Data

Date 2-2-80 Test Ticket No. 3165
 Recorder No. 2608 Capacity 4150 Location 4409 Ft.
 Clock No. _____ Elevation 2246 K.B Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2437</u>	P.S.I.	<u>10:00</u>	<u>A M</u>
B First Initial Flow Pressure	<u>88</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>81</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>994</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>97</u>	P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>88</u>	P.S.I.		
G Final Closed-in Pressure	<u>959</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2410</u>	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: 20 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: 30 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	<u>88</u>	0	<u>81</u>	0	<u>97</u>	0	<u>88</u>
P 2 5	<u>88</u>	3	<u>137</u>	5	<u>94</u>	3	<u>119</u>
P 3 10	<u>83</u>	6	<u>220</u>	10	<u>91</u>	6	<u>171</u>
P 4 15	<u>81</u>	9	<u>306</u>	15	<u>91</u>	9	<u>223</u>
P 5 20		12	<u>387</u>	20	<u>96</u>	12	<u>272</u>
P 6 25		15	<u>460</u>	25	<u>F16shod Tool</u>	15	<u>320</u>
P 7 30	<u>81</u>	18	<u>523</u>	30	<u>94</u>	18	<u>366</u>
P 8 35		21	<u>591</u>	35	<u>92</u>	21	<u>410</u>
P 9 40		24	<u>644</u>	40	<u>90</u>	24	<u>450</u>
P10 45		27	<u>685</u>	45	<u>89</u>	27	<u>487</u>
P11 50		30	<u>727</u>	50	<u>89</u>	30	<u>523</u>
P12 55		33	<u>764</u>	55	<u>88</u>	33	<u>562</u>
P13 60		36	<u>801</u>	60	<u>88</u>	36	<u>597</u>
P14		39	<u>830</u>	65		39	<u>626</u>
P15		42	<u>863</u>	70		42	<u>657</u>
P16		45	<u>888</u>	75		45	<u>683</u>
P17		48	<u>912</u>	80		48	<u>710</u>
P18		51	<u>935</u>	85		51	<u>737</u>
P19		54	<u>958</u>	90		54	<u>758</u>
P20		57	<u>976</u>			57	<u>781</u>
		60	<u>994</u>			60	<u>803</u>

Pressure Data

Test Ticket No. 3165

_____ No. _____ Capacity _____ Location _____
 _____ No. _____ Elevation _____ Well Temperature _____

	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	P.S.I.	Open Tool	_____ M	_____ M
1st Initial Flow Pressure	P.S.I.	First Flow Pressure	_____ Mins	_____ Mins
1st Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	_____ Mins	_____ Mins
Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	_____ Mins	_____ Mins
2nd Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	_____ Mins	_____ Mins
2nd Final Flow Pressure	P.S.I.			
Final Closed-in Pressure	P.S.I.			
Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: _____ Inc.	Breakdown: _____ Inc.	Breakdown: _____ Inc.	Breakdown: _____ Inc.
of <u>5</u> mins. and a	of <u>3</u> mins. and a	of <u>5</u> mins. and a	of <u>3</u> mins. and a
final inc. of <u>0</u> Min.	final inc. of <u>0</u> Min.	final inc. of <u>0</u> Min.	final inc. of <u>0</u> Min.
Point Minutes	Point Minutes	Point Minutes	Point Minutes
Press.	Press.	Press.	Press.
_____	63	_____	63 <u>819</u>
_____	66	_____	66 <u>830</u>
_____	69	_____	69 <u>851</u>
_____	72	_____	72 <u>873</u>
_____	75	_____	75 <u>892</u>
_____	78	_____	78 <u>906</u>
_____	81	_____	81 <u>920</u>
_____	84	_____	84 <u>932</u>
_____	87	_____	87 <u>946</u>
_____	90	_____	90 <u>959</u>
_____	93	_____	93 _____
_____	96	_____	96 _____
_____	99	_____	99 _____
_____	102	_____	102 _____
_____	105	_____	105 _____
_____	108	_____	108 _____
_____	111	_____	111 _____
_____	114	_____	114 _____
_____	117	_____	117 _____
_____	120	_____	120 _____

Company Parrish Oil Company & H-30, Inc. Lease & Well No. Wittman #1
 Elevation 2246 Kelly Bushing Mississippi Formation Mississippi Effective Pay --- Ft. Ticket No. 3165
 Date 2/2/80 Sec. 18 Twp. 20S Range 21W County Ness State Kansas
 Test Approved by Dean Britting Western Representative Randy Lackey

Formation Test No. 4 Interval Tested from 4392 ft. to 4418 ft. Total Depth 4418 ft.
 Packer Depth 4388 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4392 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4409 ft. Recorder Number 2608 Cap. 4150 PSI
 Bottom Recorder Depth (Outside) 4412 ft. Recorder Number 3473 Cap. 4000 PSI
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor H-30, Inc. Rig #2 Drill Collar Length -- I. D. - in.
 Mud Type starch Viscosity 44 Weight Pipe Length 120 I. D. 2.76 in.
 Weight 9.9 Water Loss 9.6 cc. Drill Pipe Length 4294 I. D. 3.8 in.
 Chlorides 60,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.
 Jars: Make None Serial Number - Anchor Length 26 ft. Size 5 1/2 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 1/2 FH in.

Blow: Weak throughout initial flow period. Very weak, died fourteen minutes into final flow period. Flushed tool, very weak died in nine minutes.

Recovered 75 ft. of mud with few specks of oil on top of tool.
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 10:00 A.M. Time Started Off Bottom 2:00 P.M. Maximum Temperature 122°
 Initial Hydrostatic Pressure (A) 2437 P.S.I.
 Initial Flow Period Minutes 30 (B) 88 P.S.I. to (C) 81 P.S.I.
 Initial Closed In Period Minutes 60 (D) 994 P.S.I.
 Final Flow Period Minutes 60 (E) 97 P.S.I. to (F) 88 P.S.I.
 Final Closed In Period Minutes 90 (G) 959 P.S.I.
 Final Hydrostatic Pressure (H) 2410 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 2/2/80 Test Ticket No. 3165
 Recorder No. 2608 Capacity 4150 Location 4409 Ft.
 Clock No. ----- Elevation 2246 Kelly Bushing Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2437</u> P.S.I.	Open Tool	<u>10:00A</u> M	
B First Initial Flow Pressure	<u>88</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>81</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>994</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>97</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>88</u> P.S.I.			
G Final Closed-in Pressure	<u>959</u> P.S.I.			
H Final Hydrostatic Mud	<u>2410</u> 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: 20 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: 30 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 <u>0</u>	<u>88</u>	<u>0</u>	<u>81</u>	<u>0</u>	<u>97</u>	<u>0</u>	<u>88</u>
P 2 <u>5</u>	<u>88</u>	<u>3</u>	<u>137</u>	<u>5</u>	<u>94</u>	<u>3</u>	<u>119</u>
P 3 <u>10</u>	<u>83</u>	<u>6</u>	<u>220</u>	<u>10</u>	<u>91</u>	<u>6</u>	<u>171</u>
P 4 <u>15</u>	<u>81</u>	<u>9</u>	<u>306</u>	<u>15</u>	<u>91</u>	<u>9</u>	<u>223</u>
P 5 <u>20</u>	<u>81</u>	<u>12</u>	<u>387</u>	<u>20</u>	<u>96</u>	<u>12</u>	<u>272</u>
P 6 <u>25</u>	<u>81</u>	<u>15</u>	<u>460</u>	<u>25</u>	<u>Flushed tool</u>	<u>15</u>	<u>320</u>
P 7 <u>30</u>	<u>81</u>	<u>18</u>	<u>523</u>	<u>30</u>	<u>94</u>	<u>18</u>	<u>366</u>
P 8		<u>21</u>	<u>591</u>	<u>35</u>	<u>92</u>	<u>21</u>	<u>410</u>
P 9		<u>24</u>	<u>644</u>	<u>40</u>	<u>90</u>	<u>24</u>	<u>450</u>
P10		<u>27</u>	<u>685</u>	<u>45</u>	<u>89</u>	<u>27</u>	<u>487</u>
P11		<u>30</u>	<u>727</u>	<u>50</u>	<u>89</u>	<u>30</u>	<u>523</u>
P12		<u>33</u>	<u>764</u>	<u>55</u>	<u>88</u>	<u>33</u>	<u>562</u>
P13		<u>36</u>	<u>801</u>	<u>60</u>	<u>88</u>	<u>36</u>	<u>597</u>
P14		<u>39</u>	<u>830</u>			<u>39</u>	<u>626</u>
P15		<u>42</u>	<u>863</u>			<u>42</u>	<u>657</u>
P16		<u>45</u>	<u>888</u>			<u>45</u>	<u>683</u>
P17		<u>48</u>	<u>912</u>			<u>48</u>	<u>710</u>
P18		<u>51</u>	<u>935</u>			<u>51</u>	<u>737</u>
P19		<u>54</u>	<u>958</u>			<u>54</u>	<u>758</u>
P20		<u>57</u>	<u>976</u>			<u>57</u>	<u>781</u>
WTC - 4		<u>60</u>	<u>994</u>			<u>60</u>	<u>803</u>

continued next page

WESTERN TESTING CO., INC.

Pressure Data

Date 2/2/80 Test Ticket No. 3165
 Recorder No. 2608 Capacity 4150 Location 4409 Ft.
 Clock No. ----- Elevation 2246 Kelly Bushing Well Temperature 122 °F

Point	Pressure			Time Given	Time Computed
		P.S.I.			
A. Initial Hydrostatic Mud	2437	P.S.I.	Open Tool	10:00A	M
B. First Initial Flow Pressure	88	P.S.I.	First Flow Pressure	30	Mins.
C. First Final Flow Pressure	81	P.S.I.	Initial Closed-in Pressure	60	Mins.
D. Initial Closed-in Pressure	994	P.S.I.	Second Flow Pressure	60	Mins.
E. Second Initial Flow Pressure	97	P.S.I.	Final Closed-in Pressure	90	Mins.
F. Second Final Flow Pressure	88	P.S.I.			
G. Final Closed-in Pressure	959	P.S.I.			
H. Final Hydrostatic Mud	2410	P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In	
	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>30</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1				63	819
P 2				66	830
P 3				69	851
P 4				72	873
P 5				75	892
P 6				78	906
P 7				81	920
P 8				84	932
P 9				87	946
P10				90	959
P11					
P12					
P13					
P14					
P15					
P16					
P17					
P18					
P19					
P20					

KT # 3165
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