

## DST REPORT

API # 15-197-20247

## GENERAL INFORMATION

DATE	: 8/1/93	TICKET	: 19848
CUSTOMER	: GLACIER PETROLEUM, INC.	LEASE	: OLSEN
WELL	: #6 TEST: 1	GEOLOGIST	: BRADLEY
ELEVATION	: 1500 KB	FORMATION	: SIMPSON
SECTION	: 20	TOWNSHIP	: 14S
RANGE	: 10E COUNTY: WABAUNSEE	STATE	: KS
GAUGE SN#	: 3354 RANGE: 4200	CLOCK	: 12

## WELL INFORMATION

PERFORATION INTERVAL FROM:	3419.00 ft	TO:	3424.00 ft	TVD:	3424.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3412.0 ft		3415.0 ft		
TEMPERATURE:	120.0				
DRILL COLLAR LENGTH:	360.0 ft	I.D.:			2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:			0.000 in
DRILL PIPE LENGTH :	3034.0 ft	I.D.:			2.650 in
TEST TOOL LENGTH :	25.0 ft	TOOL SIZE :			5.500 in
ANCHOR LENGTH :	5.0 ft	ANCHOR SIZE:			5.500 in
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:			0.750 in
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :			3.5XH
PACKER DEPTH:	3419.0 ft	SIZE:			6.630 in
PACKER DEPTH:	0.0 ft	SIZE:			0.000 in
PACKER DEPTH:	0.0 ft	SIZE:			0.000 in
PACKER DEPTH:	0.0 ft	SIZE:			0.000 in

## MUD INFORMATION

DRILLING CON. :	SUMMIT DRLG RIG 1	VISCOSITY :	39.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	0.000 cc
WEIGHT :	9.200 ppg	SERIAL NUMBER:	
CHLORIDES :	0 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

## COMMENTS

## Comment

INITIAL FLOW PERIOD VERY WEAK BLOW - DIED IN 6 MINUTES. FINAL FLOW PERIOD NO BLOW. READ OUTSIDE CHART.

RECEIVED  
STATE CORPORATION COMM

SEP 30 1993

CORPORATION DIVISION  
Topeka, Kansas

BOX 712

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
10.0	0.0	0.0	0.0	100.0	DRLG MUD W/OIL ON TOP OF TOOL.
0.0	0.0	0.0	0.0	0.0	

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	65.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.0492 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.0492 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1625.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	0.00	0.00
INITIAL SHUT-IN	30.00		805.00
FINAL FLOW	30.00	50.00	0.00
FINAL SHUT-IN	30.00		805.00

FINAL HYDROSTATIC PRESSURE: 1615.00

OFFICE TIME & PRESSURE INFORMATION

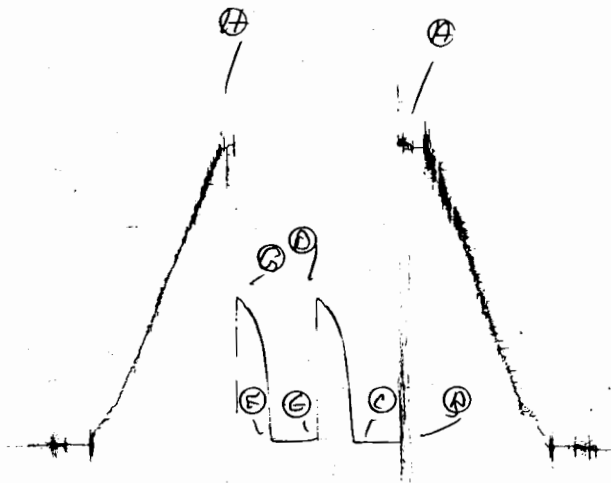
INITIAL HYDROSTATIC PRESSURE: 1659.00

Description	Duration	p1	p End
INITIAL FLOW	35.00	33.00	34.00
INITIAL SHUT-IN	30.00		827.00
FINAL FLOW	30.00	41.00	41.00
FINAL SHUT-IN	30.00		829.00

FINAL HYDROSTATIC PRESSURE: 1650.00

JKT 19848

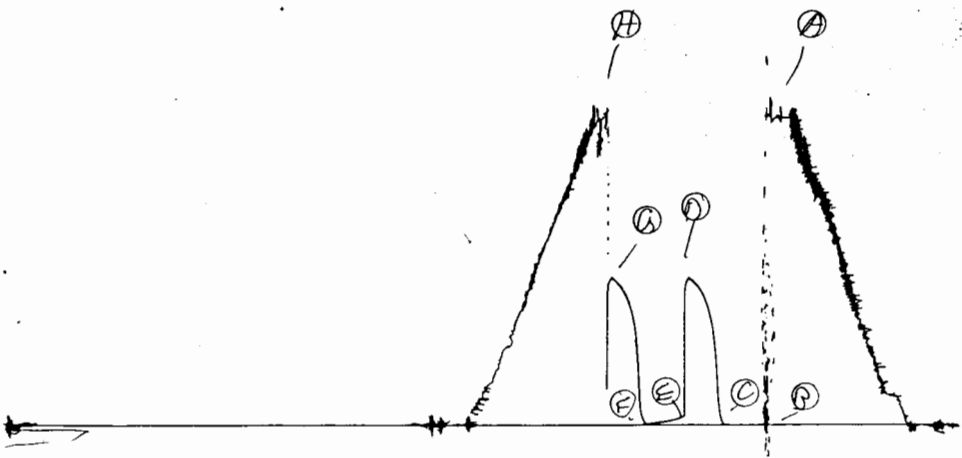
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1/1/2011

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WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N° 19848

P. O. BOX 1599 PHONE (316) 262-5861 WICHITA, KANSAS 67201

Elevation 1500 KB Formation Simpson Eff. Pay Ft.

District Augusta Date 8-1-93 Customer Order No.

COMPANY NAME Glasier Petroleum, Inc.

ADDRESS PO Box 577 Emporia, KS 66801

LEASE AND WELL NO. Olsen #6 COUNTY Abilene STATE KS Sec. 20 Twp. 14 Rge. 10E

Mail Invoice To Same No. Copies Requested 1

Mail Charts To Same #6 Olsen Address No. Copies Requested 5

Formation Test No. DST #1 Interval Tested From 3419 ft. to 3424 ft. Total Depth 3424 ft.

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

Packer Depth 3419 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3412 ft. Recorder Number 10979 Cap. 4100

Bottom Recorder Depth (Outside) 3415 ft. Recorder Number 3354 Cap. 4200

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Summit Drilling Rig Drill Collar Length 360 I. D. 2.25 in.

Mud Type Chem Viscosity 39 Weight Pipe Length I. D. in.

Weight 9.2 Water Loss cc. Drill Pipe Length 3034 I. D. 2.65 in.

Chlorides P.P.M. Test Tool Length 25 ft. Tool Size 5/200 in.

Jars: Make Serial Number Anchor Length 5 ft. Size 5/1500 in.

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

Main Hole Size 7/8 in. Tool Joint Size 3/2 XH in.

Blow: Very weak below die in 6 min on (EFP) No blow on (EFP)

Recovered 10 ft. of drill, mud with bit on top of tool

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks: Read Outside Chart AUG 10 1993

Time On Location 4:00 AM Time Pick Up Tool 4:00 PM Time Off Location AM

Time Set Packer(s) 6:00 PM Time Started Off Bottom 8:00 PM Maximum Temperature 100°F

Initial Hydrostatic Pressure (A) 1625 P.S.I.

Initial Flow Period Minutes 30 (B) 0 P.S.I. to (C) 0 P.S.I.

Initial Closed In Period Minutes 30 (D) 805 P.S.I.

Final Flow Period Minutes 30 (E) 50 P.S.I. to (F) 0 P.S.I.

Final Closed In Period Minutes 30 (G) 805 P.S.I.

Final Hydrostatic Pressure (H) 1615 P.S.I. 10979

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: Walter C Bradley Signature of Customer or his authorized representative

Western Representative: Jeff A Pitt

FIELD INVOICE

- Open Hole Test \$
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL

WESTERN TESTING CO., INC.

Pressure Data

Date 8-1-52 Test Ticket No. 19848  
 Recorder No. 2254 Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft. \_\_\_\_\_  
 Clock No. 8 Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1659</u> P.S.I.			M
B First Initial Flow Pressure	<u>32</u> P.S.I.	First Flow Pressure	Mins. <u>25</u>	Mins.
C First Final Flow Pressure	<u>32</u> P.S.I.	Initial Closed-in Pressure	Mins. <u>20</u>	Mins.
D Initial Closed-in Pressure	<u>827</u> P.S.I.	Second Flow Pressure	Mins. <u>20</u>	Mins.
E Second Initial Flow Pressure	<u>41</u> P.S.I.	Final Closed-in Pressure	Mins. <u>20</u>	Mins.
F Second Final Flow Pressure	<u>41</u> P.S.I.			
G Final Closed-in Pressure	<u>829</u> P.S.I.			
H Final Hydrostatic Mud	<u>1650</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 Press.	Point Minutes Press.
P 1 0	<u>32</u>	0 <u>32</u>	0 <u>41</u>	0 <u>41</u>
P 2 5	<u>32</u>	3 <u>146</u>	5 <u>41</u>	3 <u>105</u>
P 3 10	<u>32</u>	6 <u>294</u>	10 <u>41</u>	6 <u>427</u>
P 4 15	<u>32</u>	9 <u>546</u>	15 <u>41</u>	9 <u>557</u>
P 5 20	<u>32</u>	12 <u>694</u>	20 <u>41</u>	12 <u>645</u>
P 6 25	<u>32</u>	15 <u>692</u>	25 <u>41</u>	15 <u>711</u>
P 7 30	<u>32</u>	18 <u>738</u>	30 <u>41</u>	18 <u>751</u>
P 8 35	<u>32</u>	21 <u>766</u>	35 _____	21 <u>770</u>
P 9 40	_____	24 <u>785</u>	40 _____	24 <u>800</u>
P10 45	_____	27 <u>814</u>	45 _____	27 <u>819</u>
P11 50	_____	30 <u>827</u>	50 _____	30 <u>829</u>
P12 55	_____	33 _____	55 _____	33 _____
P13 60	_____	36 _____	60 _____	36 _____
P14 65	_____	39 _____	65 _____	39 _____
P15 70	_____	42 _____	70 _____	42 _____
P16 75	_____	45 _____	75 _____	45 _____
P17 80	_____	48 _____	80 _____	48 _____
P18 85	_____	51 _____	85 _____	51 _____
P19 90	_____	54 _____	90 _____	54 _____
P20 95	_____	57 _____	95 _____	57 _____
100	_____	60 _____	100 _____	60 _____

DST REPORT

GENERAL INFORMATION

DATE : 8/1/93  
CUSTOMER : GLACIER PETROLEUM, INC.  
WELL : #6 TEST: 1  
ELEVATION: 1500 KB  
SECTION : 20  
RANGE : 10E COUNTY: WABAUNSEE  
GAUGE SN#: 3354 RANGE : 4200  
TICKET : 19848  
LEASE : OLSEN  
GEOLOGIST: BRADLEY  
FORMATION: SIMPSON  
TOWNSHIP : 14S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3419.00 ft TO: 3424.00 ft TVD: 3424.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 3412.0 ft 3415.0 ft  
TEMPERATURE: 120.0  
DRILL COLLAR LENGTH: 360.0 ft I.D.: 2.250 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 3034.0 ft I.D.: 2.650 in  
TEST TOOL LENGTH : 25.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 5.0 ft ANCHOR SIZE: 5.500 in  
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in  
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 3.5XH  
PACKER DEPTH: 3419.0 ft SIZE: 6.630 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : SUMMIT DRLG RIG 1  
MUD TYPE : CHEMICAL VISCOSITY : 39.00 cp  
WEIGHT : 9.200 ppg WATER LOSS: 0.000 cc  
CHLORIDES : 0 ppm  
JARS-MAKE :  
DID WELL FLOW?: NO SERIAL NUMBER:  
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK BLOW - DIED IN 6  
MINUTES. FINAL FLOW PERIOD NO BLOW.  
READ OUTSIDE CHART.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
10.0	0.0	0.0	0.0	100.0	DRLG MUD W/OIL ON TOP OF TOOL.
0.0	0.0	0.0	0.0	0.0	

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	65.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.0492 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.0492 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1625.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	0.00	0.00
INITIAL SHUT-IN	30.00		805.00
FINAL FLOW	30.00	50.00	0.00
FINAL SHUT-IN	30.00		805.00

FINAL HYDROSTATIC PRESSURE: 1615.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1659.00

Description	Duration	p1	p End
INITIAL FLOW	35.00	33.00	34.00
INITIAL SHUT-IN	30.00		827.00
FINAL FLOW	30.00	41.00	41.00
FINAL SHUT-IN	30.00		829.00

FINAL HYDROSTATIC PRESSURE: 1650.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8/1/93	TICKET : 19848
CUSTOMER : GLACIER PETROLEUM, INC.	LEASE : OLSEN
WELL : #6 TEST: 1	GEOLOGIST: BRADLEY
ELEVATION: 1500 KB	FORMATION: SIMPSON
SECTION : 20	TOWNSHIP : 14S
RANGE : 10E COUNTY: WABAUNSEE	STATE : KS
GAUGE SN#: 3354 RANGE : 4200	CLOCK : 12

INITIAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	33.00	33.00
5.00	33.00	0.00
10.00	33.00	0.00
15.00	34.00	1.00
20.00	34.00	0.00
25.00	34.00	0.00
30.00	34.00	0.00
35.00	34.00	0.00

INITIAL SHUT IN

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	146.00	146.00	0.00
6.00	394.00	248.00	0.00
9.00	546.00	152.00	0.00
12.00	641.00	95.00	0.00
15.00	693.00	52.00	0.00
18.00	738.00	45.00	0.00
21.00	766.00	28.00	0.00
24.00	783.00	17.00	0.00
27.00	814.00	31.00	0.00
30.00	827.00	13.00	0.00

FINAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
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PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

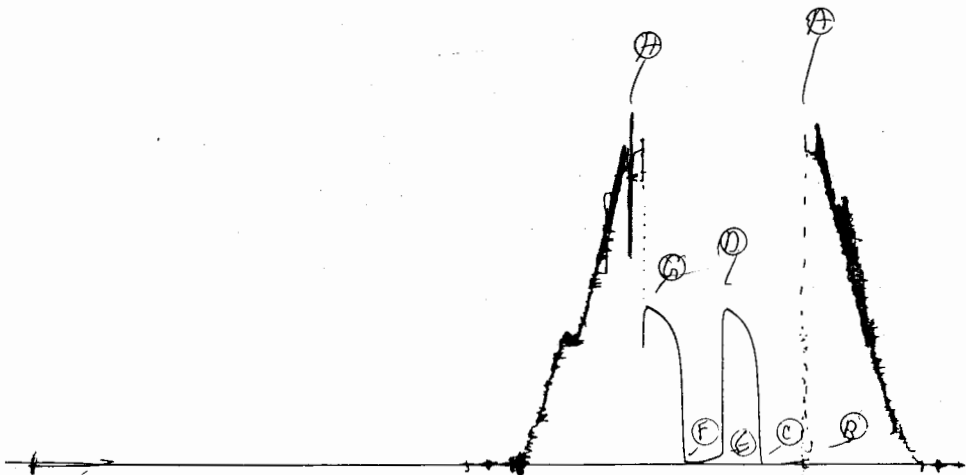
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	41.00	41.00
5.00	41.00	0.00
10.00	41.00	0.00
15.00	41.00	0.00
20.00	41.00	0.00
25.00	41.00	0.00
30.00	41.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	105.00	105.00	0.00
6.00	427.00	322.00	0.00
9.00	557.00	130.00	0.00
12.00	645.00	88.00	0.00
15.00	711.00	66.00	0.00
18.00	751.00	40.00	0.00
21.00	770.00	19.00	0.00
24.00	800.00	30.00	0.00
27.00	819.00	19.00	0.00
30.00	829.00	10.00	0.00

JKT 19849

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KT 19849





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 19849

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 262-5861

Elevation 1500 HB Formation Simpson Eff. Pay Ft.

District Augusta Date 8-1-93 Customer Order No.

COMPANY NAME Glacier Petroleum, Inc

ADDRESS P.O. Box 577 Emporia KS 66801

LEASE AND WELL NO. Olsen #6 COUNTY Wabancreek STATE KS Sec. 20 Twp. 14 Rge. 10E

Mail Invoice To Same Co. Name #6 Olson Address No. Copies Requested 1

Mail Charts To Same #6 Olson Address No. Copies Requested 5

Formation Test No. DST #2 Interval Tested From 3417 ft. to 3425 ft. Total Depth 3425 ft.

Packer Depth 3417 ft. Size 6 5/8 in. Packer Depth 3425 ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3415 AP Recorder Number 10999 Cap. 4100

Bottom Recorder Depth (Outside) 3412 AP Recorder Number 3354 Cap. 4200

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Summit Rig 1 Drill Collar Length 360 I. D. 2.25 in.

Mud Type Clean Viscosity 40 Weight Pipe Length I. D. in.

Weight 9.2 Water Loss cc. Drill Pipe Length 3032 I. D. 3.8 in.

Chlorides P.P.M. Test Tool Length 25 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 8 ft. Size 5 1/2 in.

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

Main Hole Size 1 7/8 in. Tool Joint Size 3 1/2 x 1 in.

Blow: Very Weak below top bucket on (F.P) due to (barrier) No below on (L.P.P)

Recovered 5 ft. of drilling mud Oil on Top of Tool

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks: AUG 10 1993

Time On Location Stand by 8:30 A.M. Time Pick Up Tool 6:30 A.M. Time Off Location A.M. P.M.

Time Set Packer(s) 8:30 A.M. Time Started Off Bottom 10:30 A.M. P.M. Maximum Temperature

Initial Hydrostatic Pressure (A) 1625 P.S.I.

Initial Flow Period Minutes 30 (B) 10 P.S.I. to (C) 0 P.S.I.

Initial Closed In Period Minutes 30 (D) 855 P.S.I.

Final Flow Period Minutes 30 (E) 65 P.S.I. to (F) 10 P.S.I.

Final Closed In Period Minutes 30 (G) 865 P.S.I.

Final Hydrostatic Pressure (H) 1615 P.S.I. 10999

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 William C Bradley Signature of Customer or his authorized representative

Western Representative Jeff A Peth

FIELD INVOICE

Table with 2 columns: Item Name and Amount. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 8-1-92 Test Ticket No. 13849  
 Recorder No. 10929 Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft.  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>11090</u> P.S.I.	_____	_____	_____
B First Initial Flow Pressure	<u>24</u> P.S.I.	First Flow Pressure	_____ Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>65</u> P.S.I.	Initial Closed-in Pressure	_____ Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>861</u> P.S.I.	Second Flow Pressure	_____ Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>65</u> P.S.I.	Final Closed-in Pressure	_____ Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>25</u> P.S.I.			
G Final Closed-in Pressure	<u>870</u> P.S.I.			
H Final Hydrostatic Mud	<u>11090</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.
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	0	<u>24</u>	0	<u>14</u>	0	<u>65</u>	0	<u>25</u>
P 2 5	5	<u>24</u>	3	<u>540</u>	5	<u>46</u>	3	<u>438</u>
P 3 10	10	<u>20</u>	6	<u>611</u>	10	<u>35</u>	6	<u>636</u>
P 4 15	15	<u>20</u>	9	<u>699</u>	15	<u>25</u>	9	<u>719</u>
P 5 20	20	<u>18</u>	12	<u>751</u>	20	<u>22</u>	12	<u>756</u>
P 6 25	25	<u>14</u>	15	<u>781</u>	25	<u>22</u>	15	<u>797</u>
P 7 30	30	<u>12</u>	18	<u>807</u>	30	<u>25</u>	18	<u>814</u>
P 8 35	35		21	<u>818</u>	35		21	<u>825</u>
P 9 40	40		24	<u>842</u>	40		24	<u>848</u>
P 10 45	45		27	<u>854</u>	45		27	<u>861</u>
P 11 50	50		30	<u>861</u>	50		30	<u>870</u>
P 12 55	55		33		55		33	
P 13 60	60		36		60		36	
P 14 65	65		39		65		39	
P 15 70	70		42		70		42	
P 16 75	75		45		75		45	
P 17 80	80		48		80		48	
P 18 85	85		51		85		51	
P 19 90	90		54		90		54	
P 20 95	95		57		95		57	
100	100		60		100		60	

DST REPORT

GENERAL INFORMATION

DATE	: 8/1/93	TICKET	: 19849
CUSTOMER	: GLACIER PETROLEUM, INC.	LEASE	: OLSEN
WELL	: #6	TEST:	2
ELEVATION:	1500 KB	GEOLOGIST:	BRADLEY
SECTION	: 20	FORMATION:	SIMPSON
RANGE	: 10E	COUNTY:	WABAUNSEE
GAUGE SN#:	10979	RANGE	: 4100
		STATE	: KS
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3417.00 ft	TO:	3425.00 ft	TVD:	3425.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3415.0 ft		3412.0 ft		
TEMPERATURE:	0.0				
DRILL COLLAR LENGTH:	360.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3032.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	25.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	8.0 ft	ANCHOR SIZE:		5.500 in	
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:		0.750 in	
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :		3.5XH	
PACKER DEPTH:	3417.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	SUMMIT DRLG RIG 1	VISCOSITY :	40.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	0.000 cc
WEIGHT :	9.200 ppg	SERIAL NUMBER:	
CHLORIDES :	0 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK BLOW - TOP OF BUCKET  
DIED IN 6 MINUTES. FINAL FLOW PERIOD NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
5.0	0.0	0.0	0.0	100.0	DRLG MUD W/OIL ON TOP OF TOOL.
0.0	0.0	0.0	0.0	0.0	

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.0246 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.0246 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1625.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	10.00	0.00
INITIAL SHUT-IN	30.00		855.00
FINAL FLOW	30.00	65.00	10.00
FINAL SHUT-IN	30.00		865.00

FINAL HYDROSTATIC PRESSURE: 1615.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1690.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	24.00	12.00
INITIAL SHUT-IN	30.00		861.00
FINAL FLOW	30.00	62.00	25.00
FINAL SHUT-IN	30.00		870.00

FINAL HYDROSTATIC PRESSURE: 1690.00

**PRESSURE TRANSIENT REPORT**

**GENERAL INFORMATION**

DATE : 8/1/93	TICKET : 19849
CUSTOMER : GLACIER PETROLEUM, INC.	LEASE : OLSEN
WELL : #6 TEST: 2	GEOLOGIST: BRADLEY
ELEVATION: 1500 KB	FORMATION: SIMPSON
SECTION : 20	TOWNSHIP : 14S
RANGE : 10E COUNTY: WABAUNSEE	STATE : KS
GAUGE SN#: 10979 RANGE : 4100	CLOCK : 12

**INITIAL FLOW**

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	24.00	24.00
5.00	24.00	0.00
10.00	20.00	-4.00
15.00	18.00	-2.00
20.00	16.00	-2.00
25.00	14.00	-2.00
30.00	12.00	-2.00

**INITIAL SHUT IN**

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	340.00	340.00	0.00
6.00	611.00	271.00	0.00
9.00	699.00	88.00	0.00
12.00	751.00	52.00	0.00
15.00	781.00	30.00	0.00
18.00	807.00	26.00	0.00
21.00	828.00	21.00	0.00
24.00	842.00	14.00	0.00
27.00	854.00	12.00	0.00
30.00	861.00	7.00	0.00

**FINAL FLOW**

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	62.00	62.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
5.00	46.00	-16.00
10.00	35.00	-11.00
15.00	25.00	-10.00
20.00	22.00	-3.00
25.00	23.00	1.00
30.00	25.00	2.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	438.00	438.00	0.00
6.00	636.00	198.00	0.00
9.00	719.00	83.00	0.00
12.00	756.00	37.00	0.00
15.00	792.00	36.00	0.00
18.00	814.00	22.00	0.00
21.00	835.00	21.00	0.00
24.00	848.00	13.00	0.00
27.00	861.00	13.00	0.00
30.00	870.00	9.00	0.00