

DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co Inc**

12950 E 13th Street Wichita KS 67230

ATTN: Wes Hansen

17-22-33

Finnup B #13

Start Date: 2004.07.21 @ 10:32:53

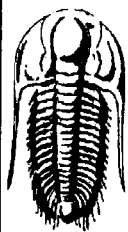
End Date: 2004.07.21 @ 17:34:53

Job Ticket #: 18332 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Hartman Oil Co Inc
12950 E 13th Street Wichita KS 67230
ATTN: Wes Hansen

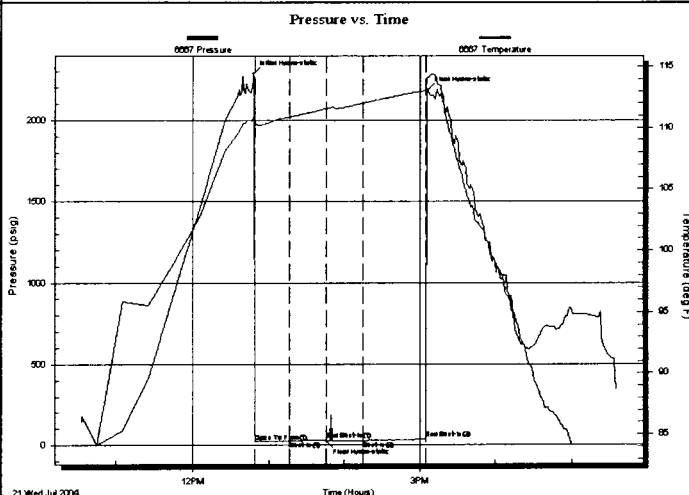
Finnup B #13
17-22-33
Job Ticket: 18332 **DST#: 1**
Test Start: 2004.07.21 @ 10:32:53

GENERAL INFORMATION:

Formation: **Upper Morrow**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 12:48:53
Time Test Ended: 17:34:53
Interval: **4626.00 ft (KB) To 4650.00 ft (KB) (TVD)**
Total Depth: **4650.00 ft (KB) (TVD)**
Hole Diameter: **7.78 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Blake Wallace**
Unit No: **30**
Reference Elevations: **2900.00 ft (KB)**
2897.00 ft (CF)
KB to GR/CF: **3.00 ft**

Serial #: 6667 **Inside**
Press@RunDepth: **23.10 psig @ 4629.00 ft (KB)**
Start Date: **2004.07.21** End Date: **2004.07.21** Capacity: **7000.00 psig**
Start Time: **10:32:54** End Time: **17:34:53** Last Calib.: **1899.12.30**
Time On Btm: **2004.07.21 @ 12:47:53**
Time Off Btm: **2004.07.21 @ 13:45:53**

TEST COMMENT: IF-weak surface blow died in 12 min
ISI-no blow back
FF-no blow waited 5 min flushed tool weak blow died in 7 min
FSI-no blow back



PRESSURE SUMMARY

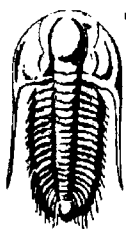
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2284.58	110.87	Initial Hydro-static
1	22.23	110.39	Open To Flow (1)
29	23.10	110.87	Shut-In(1)
58	33.59	111.56	End Shut-In(1)
58	23.69	111.57	Final Hydro-static
87	27.36	112.00	Shut-In(2)
137	34.33	113.04	End Shut-In(2)
138	2185.13	114.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% mud	0.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Co Inc

12950 E 13th Street Wichita KS 67230

ATTN: Wes Hansen

Finnup B #13

17-22-33

Job Ticket: 18332

DST#: 1

Test Start: 2004.07.21 @ 10:32:53

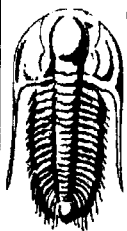
Tool Information

Drill Pipe:	Length:	4245.00 ft	Diameter:	3.80 inches	Volume:	59.55 bbl	Tool Weight:	1800.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	376.00 ft	Diameter:	2.25 inches	Volume:	1.85 bbl	Weight to Pull Loose:	84000.00 lb
					Total Volume:	61.40 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		22.00 ft					String Weight: Initial	70000.00 lb
Depth to Top Packer:		4626.00 ft					Final	71000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		24.00 ft						
Tool Length:		51.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4604.00	
Hydraulic tool	5.00			4609.00	
Jars	5.00			4614.00	
Safety Joint	3.00			4617.00	
Packer	5.00			4622.00	27.00 Bottom Of Top Packer
Packer	4.00			4626.00	
Stubb	1.00			4627.00	
Perforations	2.00			4629.00	
Recorder	0.00	6667	Inside	4629.00	
Perforations	18.00			4647.00	
Recorder	0.00	11019		4647.00	
Bullnose	3.00			4650.00	24.00 Bottom Packers & Anchor

Total Tool Length: 51.00



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FLUID SUMMARY

Hartman Oil Co Inc

Finnup B #13

12950 E 13th Street Wichita KS 67230

17-22-33

Job Ticket: 18332

DST#: 1

ATTN: Wes Hansen

Test Start: 2004.07.21 @ 10:32:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% mud	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

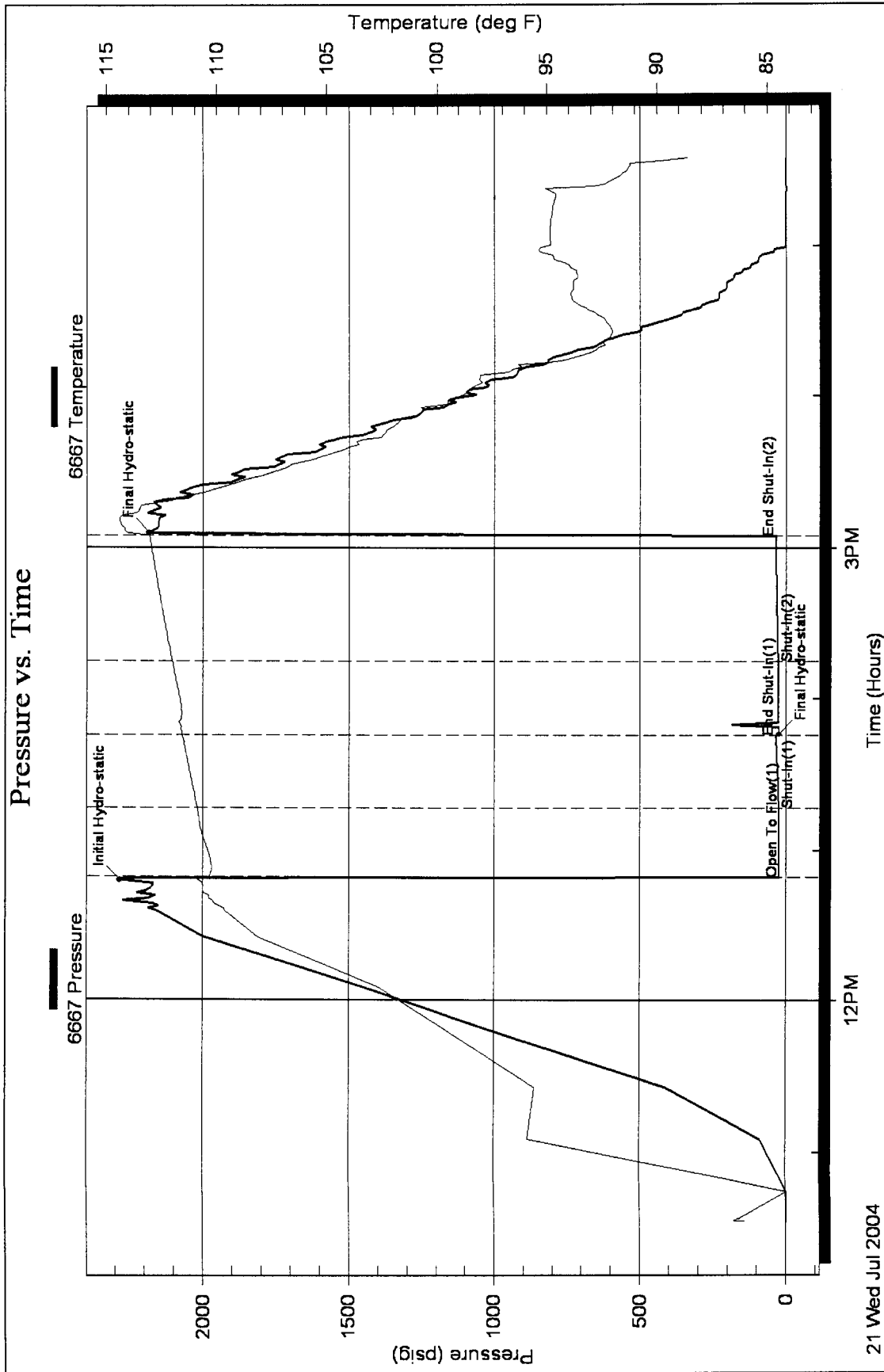
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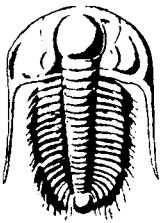
Inside

Hartman Oil Co Inc

17-22-33

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18332

05/03

Test Ticket

Well Name & No. Finney "B" #13 Test No. 1 Date 7-21-04
Company Hartman Oil Co Inc. Zone Tested Upper Moleson
Address 12450 E 13th St. Wichita KS 67230 Elevation 2900' KB 2897' GL
Co. Rep / Geo. Les Hansen Cont. Abercrombie Rig #8 Est. Ft. of Pay _____ Por. _____ %
Location: Sec. 17 Twp. 22 Rge. 33 Co. Finney State KS
No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4626'-4650' Initial Str Wt./Lbs. 70000 Unseated Str Wt./Lbs. 71000
Anchor Length 24' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 84000
Top Packer Depth 4621' Tool Weight 1800
Bottom Packer Depth 4626' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
Total Depth 4650' Wt. Pipe Run N/A Drill Collar Run 376'
Mud Wt. 9.0 LCM 2 Vis. 53 WL 8.0 Drill Pipe Size 45KH Ft. Run 4245'
Blow Description 17-Weak surface blow died in 12 min
ISI- No blow back
17- No blow waited 5 min + pushed tool weak blow died in 7 min
ISI- No blow back

Recovery - Total Feet 10' GIP _____ Ft. in DC _____ Ft. in DP _____
Rec. 10' Feet of mud %gas _____ %oil _____ %water 100 %mud
Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
BHT 113 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2100 ppm System

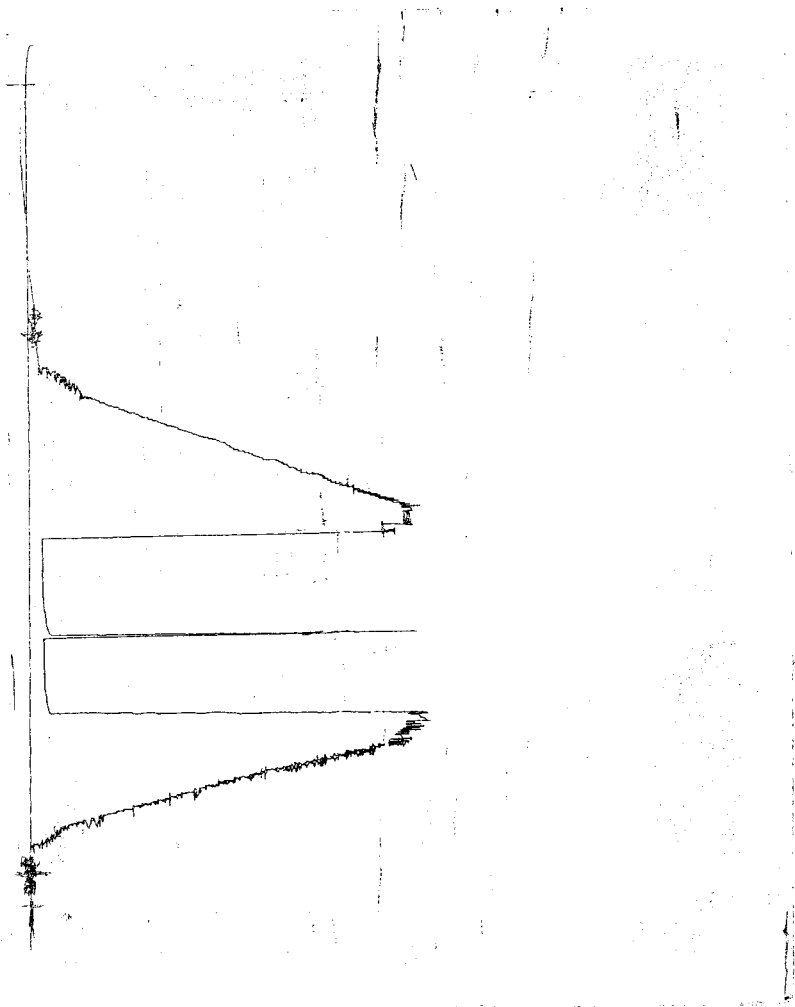
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2284</u>	PSI	<u>66067</u>	<u>Conventional 1000</u>
(B) First Initial Flow Pressure	<u>22</u>	PSI	<u>4629'</u>	Elec. Rec. <u>✓</u>
(C) First Final Flow Pressure	<u>23</u>	PSI	<u>11019</u>	Jars <u>✓</u> <u>200</u>
(D) Initial Shut-In Pressure	<u>33</u>	PSI	<u>4647'</u>	Safety Jt. <u>✓</u> <u>50</u>
(E) Second Initial Flow Pressure	<u>23</u>	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>27</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>34</u>	PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2085</u>	PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
			Final Flow <u>30</u>	Shale Packer _____
			Final Shut-In <u>45</u>	Mileage <u>✓</u> <u>49.30</u>
			T-On Location <u>0900</u>	Sub Total: <u>1299.30</u>
			T-Started <u>1035</u>	Std. By <u>✓</u>
			T-Open <u>1245</u>	Other _____
			T-Pulled <u>1500</u>	Total: <u>\$1299.30</u>
			T-Out <u>1730</u>	

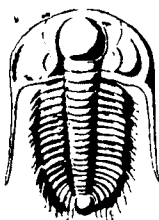
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Approved By Les Hansen
Our Representative Blake Wilkins

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18333

05/03

Test Ticket

Well Name & No. <u>Finnup "B" #13</u>	Test No. <u>2</u>	Date <u>7-22-04</u>
Company <u>HARTMAN OIL CO INC</u>	Zone Tested <u>M.d Morrow</u>	
Address <u>12950 E 13th St Wichita KS 67230</u>	Elevation <u>2900'</u>	KB <u>2897'</u> GL
Co. Rep / Geo. <u>Wes Hansen</u>	Cont. <u>Abercrombie Rig #8</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>17</u> Twp. <u>22</u> Rge. <u>33</u> Co. <u>Finney</u> State <u>KS</u>		
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>4628' - 4680'</u>	Initial Str Wt./Lbs. <u>70000</u>	Unseated Str Wt/Lbs. <u>22000</u>
Anchor Length <u>52'</u>	Wt. Set Lbs. <u>20000</u>	Wt. Pulled Loose/Lbs. <u>94000</u>
Top Packer Depth <u>4623'</u>	Tool Weight <u>1800</u>	
Bottom Packer Depth <u>4628'</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>4680</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>376'</u>
Mud Wt. <u>9.0</u> LCM <u>2</u> Vis. <u>53</u> WL <u>80</u>	Drill Pipe Size <u>4.5 X H</u>	Ft. Run <u>4644'</u>

Blow Description 17-Strong blow built to 9 inches

ISI- No blow back

17-Strong blow BOB 43 min

ISI- No blow back

Recovery - Total Feet <u>279'</u>	GIP <u>372'</u>	Ft. in DC _____	Ft. in DP _____
Rec. <u>93'</u>	Feet of _____	%gas <u>15</u> %oil <u>5</u> %water <u>80</u> %mud	
Rec. <u>124'</u>	Feet of _____	%gas <u>5</u> %oil <u>25</u> %water <u>70</u> %mud	
Rec. <u>62'</u>	Feet of _____	%gas <u>5</u> %oil <u>35</u> %water <u>60</u> %mud	
Rec. _____	Feet of _____	%gas _____ %oil _____ %water _____ %mud	
Rec. _____	Feet of _____	%gas _____ %oil _____ %water _____ %mud	
BHT <u>114</u> °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API			
RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides <u>2100</u> ppm System			

	AK-1	Alpine	PSI	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2291</u>	<u>2291</u>	PSI	<u>6667</u>	✓ <u>conventional 100</u>
(B) First Initial Flow Pressure	<u>28</u>	<u>28</u>	PSI	(depth) <u>4630'</u>	Elec. Rec ✓
(C) First Final Flow Pressure	<u>92</u>	<u>92</u>	PSI	Recorder No. <u>11019</u>	Jars ✓ <u>200</u>
(D) Initial Shut-In Pressure	<u>685</u>	<u>685</u>	PSI	(depth) <u>4646'</u>	Safety Jt. ✓ <u>50</u>
(E) Second Initial Flow Pressure	<u>109</u>	<u>109</u>	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>150</u>	<u>150</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>673</u>	<u>673</u>	PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2157</u>	<u>2157</u>	PSI	Initial Shut-In <u>600</u>	Ext. Packer _____
				Final Flow <u>45</u>	Shale Packer _____
				Final Shut-In <u>90</u>	Mileage ✓ <u>49.30</u>
				T-On Location <u>0300</u>	Sub Total: <u>1299.30</u>
				T-Started <u>0330</u>	Std. By <u>12hr</u> <u>45.00</u>
				T-Open <u>0615</u>	Other _____
				T-Pulled <u>1000</u>	Total: <u>1344.30</u>
				T-Out <u>1230</u>	

Approved By Wesley Hansen

Our Representative Bob L Wallha

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