



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Trek AECLLC
155 N Market Ste 710
Wichita, KS 67202
ATTN: Aaron Young

Sec. 36-6s-20w Rooks, KS

Vehige #3-36

Job Ticket: 59420 DST#: 1

Test Start: 2014.07.20 @ 00:20:00

GENERAL INFORMATION:

Formation: LKC "C-D"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:56:00
Time Test Ended: 08:44:30
Interval: 3354.00 ft (KB) To 3396.00 ft (KB) (TVD)
Total Depth: 3396.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
Tester: Phillip Gage
Unit No: 62
Reference Elevations: 2107.00 ft (KB)
2102.00 ft (CF)
KB to GR/CF: 5.00 ft

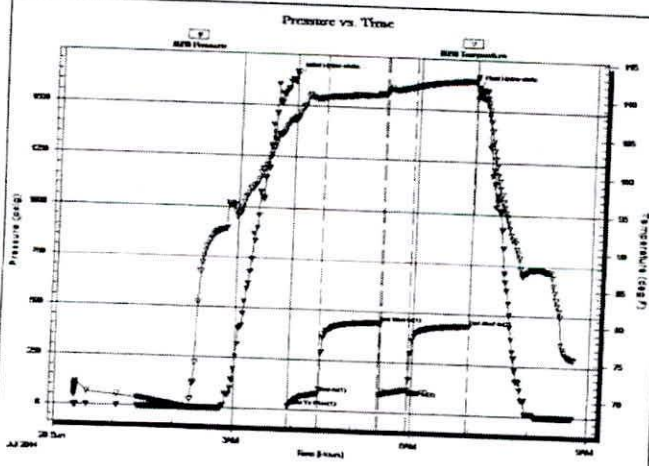
Serial #: 8960

Outside

Press@RunDepth: 117.64 psig @ 3355.00 ft (KB)
Start Date: 2014.07.20 End Date:
Start Time: 00:20:01 End Time:

Capacity: 8000.00 psig
Last Calib.: 2014.07.20
Time On Btm: 2014.07.20 @ 03:55:30
Time Off Btm: 2014.07.20 @ 06:58:30

TEST COMMENT: 30-IF-Built to 7 1/2"
60-ISI-Weak Surface Blow, Died in 15 mins
30-FF-Built to 6 1/2"
60-FSI-Weak Surface Blow, Died in 22 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1646.28	107.04	Initial Hydro-static
1	18.44	106.63	Open To Flow (1)
31	86.45	109.57	Shut-In(1)
91	445.04	110.28	End Shut-In(1)
92	90.66	110.71	Open To Flow (2)
120	117.64	111.43	Shut-In(2)
182	440.97	112.42	End Shut-In(2)
183	1610.59	112.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	VSGMCW, 5%g, 20%m, 75%w, with oil	50.59
63.00	VSGOWCM, 5%g, 5%o, 30%w, 60%m	0.62
20.00	VSGOWCM, 5%g, 5%o, 5%w, 85%m	0.28
20.00	O, 100%o	0.28
0.00	63' GP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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Trek AEC LLC

Sec. 36-6s-20w Rooks, KS

155 N Market Ste 710
Wichita, KS 67202

Vehicle #3-36

Job Ticket: 59420

DST#: 1

ATTN: Aaron Young

Test Start: 2014.07.20 @ 00:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 6.40 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

38 deg API

Water Salinity:

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	VSGMCW, 5%g, 20%m, 75%w, with oil spots	0.590
63.00	VSGOWCM, 5%g, 5%o, 30%w, 60%m	0.884
20.00	VSGOWCM, 5%g, 5%o, 5%w, 85%m	0.281
20.00	O, 100%o	0.281
0.00	63' GIP	0.000

Total Length: 223.00 ft Total Volume: 2.036 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

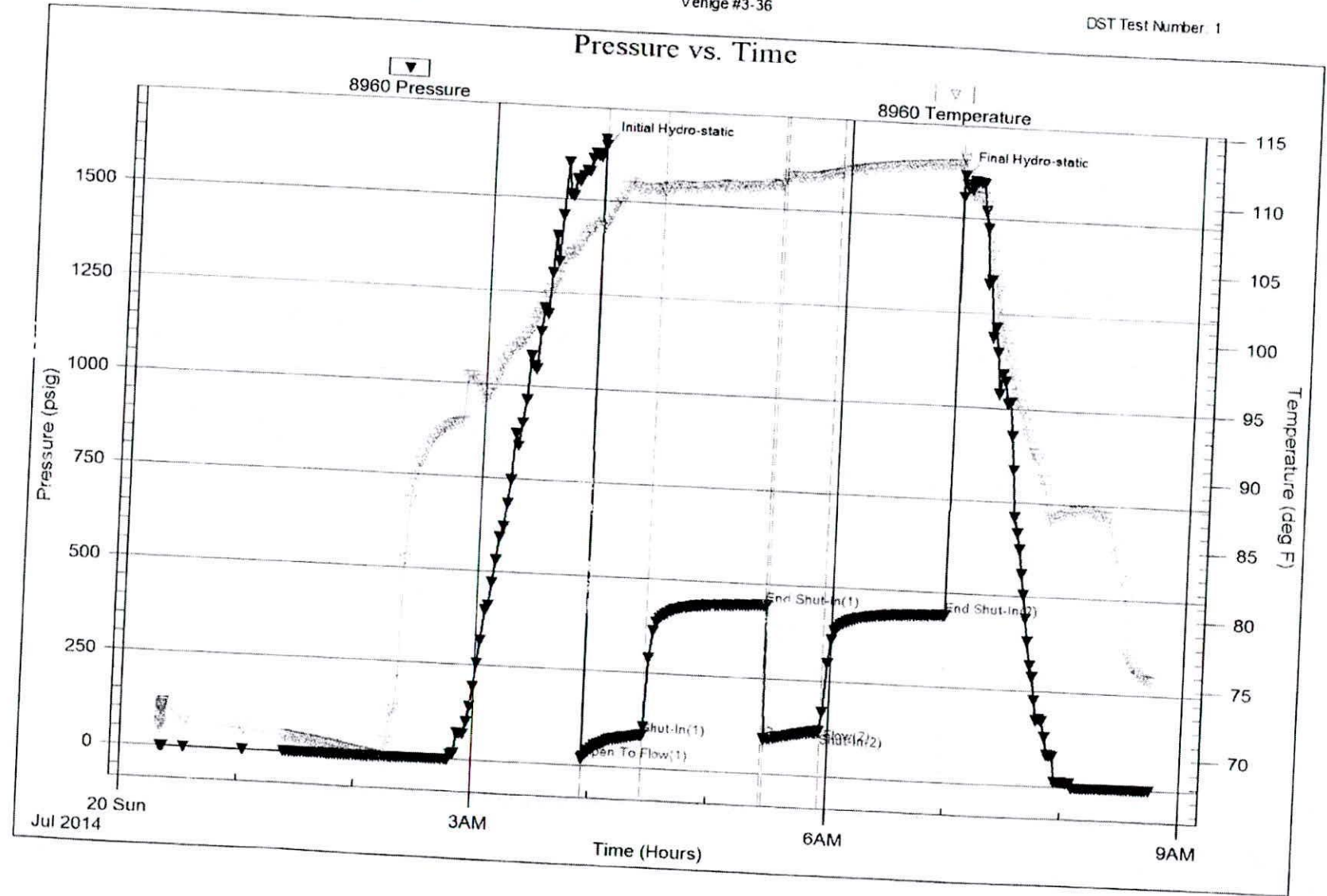
Recovery Comments: .087 @ 74 degrees = 41,000 Salinity

Serial #: 8960

Outside Trek AEC LLC

Vehige #3-36

DST Test Number 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Trek AEC LLC
 155 N Market Ste 710
 Wichita, KS 67202
 ATTN: Aaron Young

Sec. 36-6s-20w Rooks, KS

Vehicle #3-36

Job Ticket: 58380

DST#: 2

Test Start: 2014.07.20 @ 19:21:36

GENERAL INFORMATION:

Formation: LKC "I&J"
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:59:06
 Time Test Ended: 01:43:36

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Lonsdale

Unit No: 62

Interval: 3462.00 ft (KB) To 3503.00 ft (KB) (TVD)

Total Depth: 3503.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2107.00 ft (KB)

2102.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8960

Outside

Press@RunDepth: 29.64 psig @ 3463.00 ft (KB)

Start Date: 2014.07.20 End Date:

Start Time: 19:21:37 End Time:

2014.07.21
 01:43:36

Capacity: 8000.00 psig

Last Calib.: 2014.07.21

Time On Btm: 2014.07.20 @ 20:58:06

Time Off Btm: 2014.07.21 @ 00:01:36

TEST COMMENT: 30- IF- Surface blow died in 6mins
 60- IS- No blow
 30- FF- No blow
 60- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1733.10	109.13	Initial Hydro-static - IHP
1	18.00	109.26	Open To Flow (1) } IFP
32	23.86	109.82	Shut-In(1) } ISIP
92	111.88	110.84	End Shut-In(1) }
92	29.64	110.95	Open To Flow (2) } FFP
122	29.64	111.45	Shut-In(2) }
182	85.42	112.40	End Shut-In(2) } FSIP
184	1690.88	113.30	Final Hydro-static - FHP

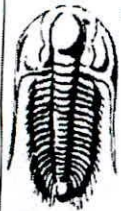
Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 5%O 95%M	0.15

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)

* Recovery from multiple tests



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Trek AECLLC
 155 N Market Ste 710
 Wichita, KS 67202
 ATTN: Aaron Young

Sec. 36-6s-20w Rooks, KS
Vehige #3-36
 Job Ticket: 58380 DST#: 2
 Test Start: 2014.07.20 @ 19:21:36

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume:		
Water Loss: 6.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:		
Salinity: 1500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SOOM, 5%O 95%M	0.148

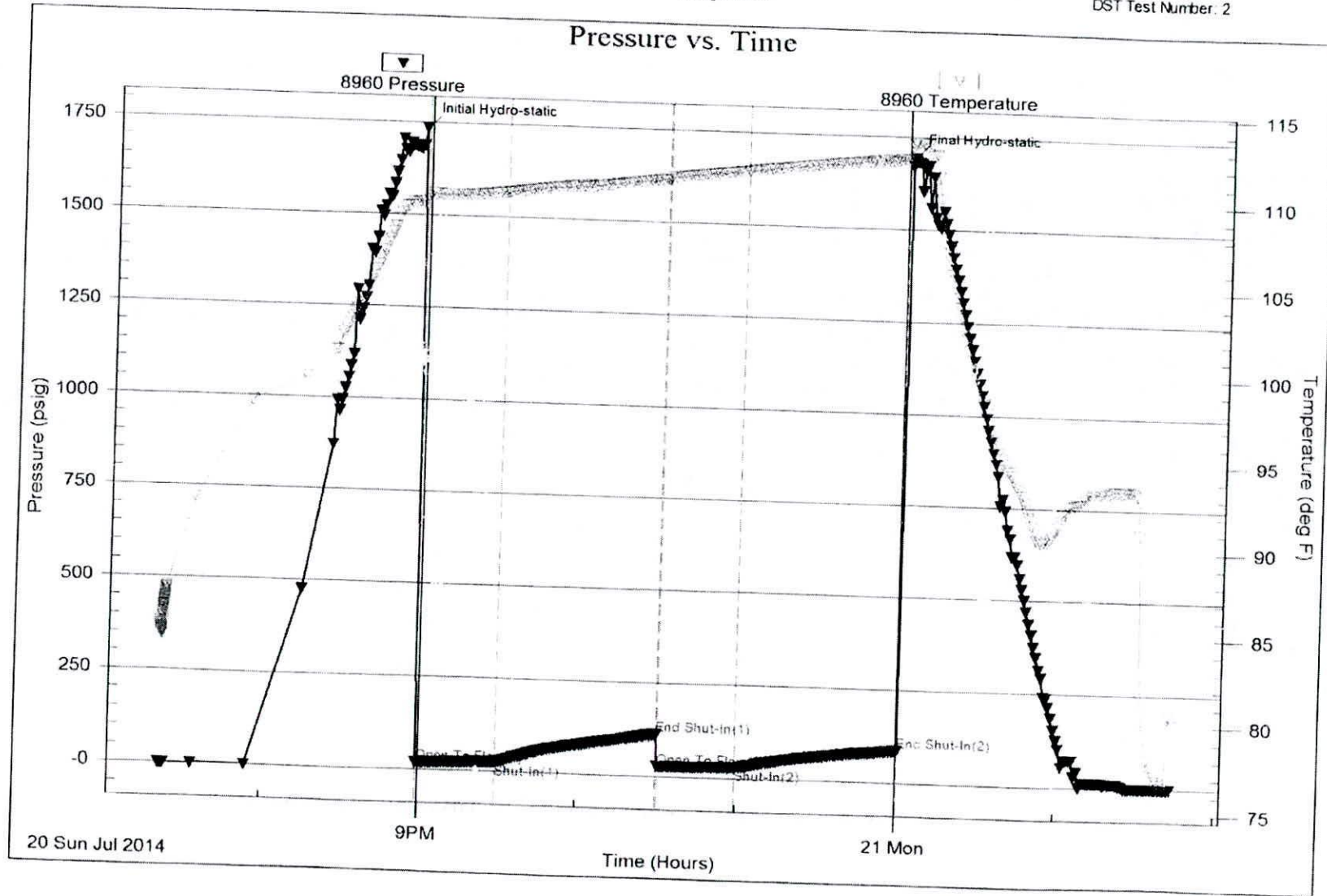
Total Length: 30.00 ft Total Volume: 0.148 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

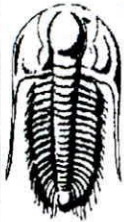
Serial #: 8960

Outside Trek AEC LLC

Vehige #3-36

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Trek AEC LLC

155 N Market Ste 710
Wichita, KS 67202

ATTN: Aaron Young

Sec. 36-6s-20w Rooks, KS

Vehicle #3-36

Job Ticket: 58381

DST#: 3

Test Start: 2014.07.21 @ 15:41:37

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:03:07

Time Test Ended: 00:04:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 62

Interval: **3569.00 ft (KB) To 3591.00 ft (KB) (TVD)**

Reference Elevations: 2107.00 ft (KB)

Total Depth: 3591.00 ft (KB) (TVD)

2102.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8673

Inside

Press@RunDepth: 60.93 psig @ 3570.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.21 End Date: 2014.07.22

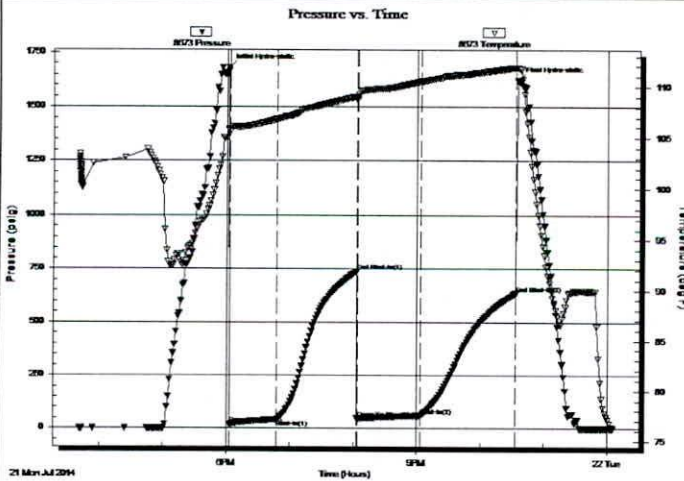
Last Calib.: 2014.07.22

Start Time: 15:41:38 End Time: 00:04:37

Time On Btm: 2014.07.21 @ 18:02:07

Time Off Btm: 2014.07.21 @ 22:35:07

TEST COMMENT: 45- IF- Built very slowly to 1"
75- IS- No blow
60- FF- No blow
90- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1678.34	105.83	Initial Hydro-static
1	20.24	105.66	Open To Flow (1)
45	41.37	106.81	Shut-In(1)
121	736.09	109.01	End Shut-In(1)
122	44.93	109.03	Open To Flow (2)
181	60.93	110.50	Shut-In(2)
271	635.79	111.86	End Shut-In(2)
273	1621.17	111.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	GO, 10%G 90%O	0.27
60.00	SMMWO, 5%M 35%W 60%O	0.30
0.00	5' GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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Sec. 36-6s-20w Rooks, KS

155 N Market Ste 710
Wichita, KS 67202

Vehicle #3-36

Job Ticket: 58381

DST#: 3

ATTN: Aaron Young

Test Start: 2014.07.21 @ 15:41:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	GO, 10%G 90%O	0.270
60.00	SMWO, 5%M 35%W 60%O	0.295
0.00	5' GIP	0.000

Total Length: 115.00 ft Total Volume: 0.565 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

