



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Trek AEC LLC
 N. Market
 STE 710
 Wichita, KS 67202
 ATTN: Douglas Davis

S16-15s-27w Gove, KS

Coberly #2

Job Ticket: 56627

DST#: 1

Test Start: 2014.01.29 @ 17:21:00

GENERAL INFORMATION:

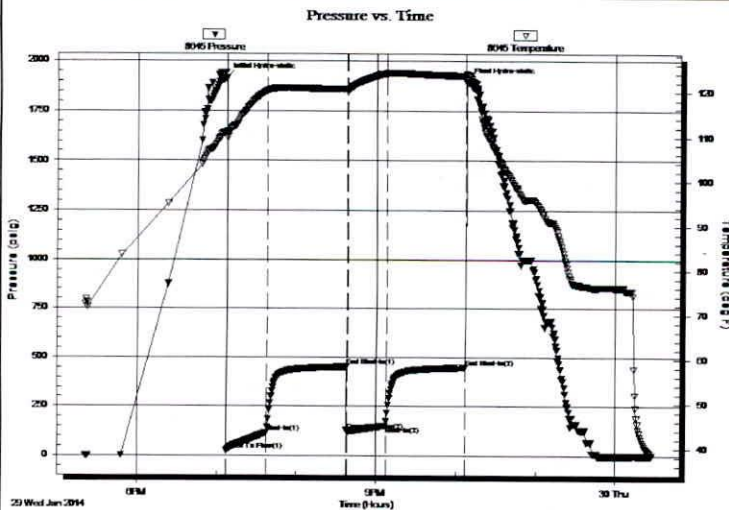
Formation: **LKC 'J'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:07:24
 Time Test Ended: 00:27:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chuck Smith
 Unit No: 62
 Interval: **3885.00 ft (KB) To 3912.00 ft (KB) (TVD)**
 Total Depth: 3912.00 ft (KB) (TVD)
 Reference Elevations: 2433.00 ft (KB)
 2428.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 8645

Outside

Press@RunDepth: 152.40 psig @ 3889.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.29 End Date: 2014.01.30 Last Calib.: 2014.01.30
 Start Time: 17:21:05 End Time: 00:27:29 Time On Btm: 2014.01.29 @ 19:06:00
 Time Off Btm: 2014.01.29 @ 22:07:47

TEST COMMENT: B.O.B. @ 12 min.
 2" Return.
 B.O.B. @ 17 min.
 5" Return.



PRESSURE SUMMARY

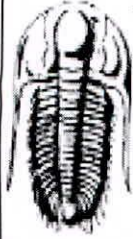
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.97	110.92	Initial Hydro-static
2	26.04	109.75	Open To Flow (1)
32	116.91	120.20	Shut-In(1)
92	451.70	120.55	End Shut-In(1)
92	124.15	120.39	Open To Flow (2)
122	152.40	123.97	Shut-In(2)
182	447.79	123.46	End Shut-In(2)
182	1896.06	123.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .170 @ 40 Degrees F = 82000 PPM	0.00
180.00	OSMW 15m 85w	0.89
62.00	OCM 5o 95m	0.30
63.00	GMCO 10g 40m 50o	0.88
10.00	GMCO 10g 20m 70o	0.14
0.00	110' GIP	0.00

Gas Rates

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



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S16-15s-27w Gove, KS

N. Market
STE 710
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ATTN: Douglas Davis

Coberly #2

Job Ticket: 56627

DST#: 1

Test Start: 2014.01.29 @ 17:21:00

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:	82000 ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

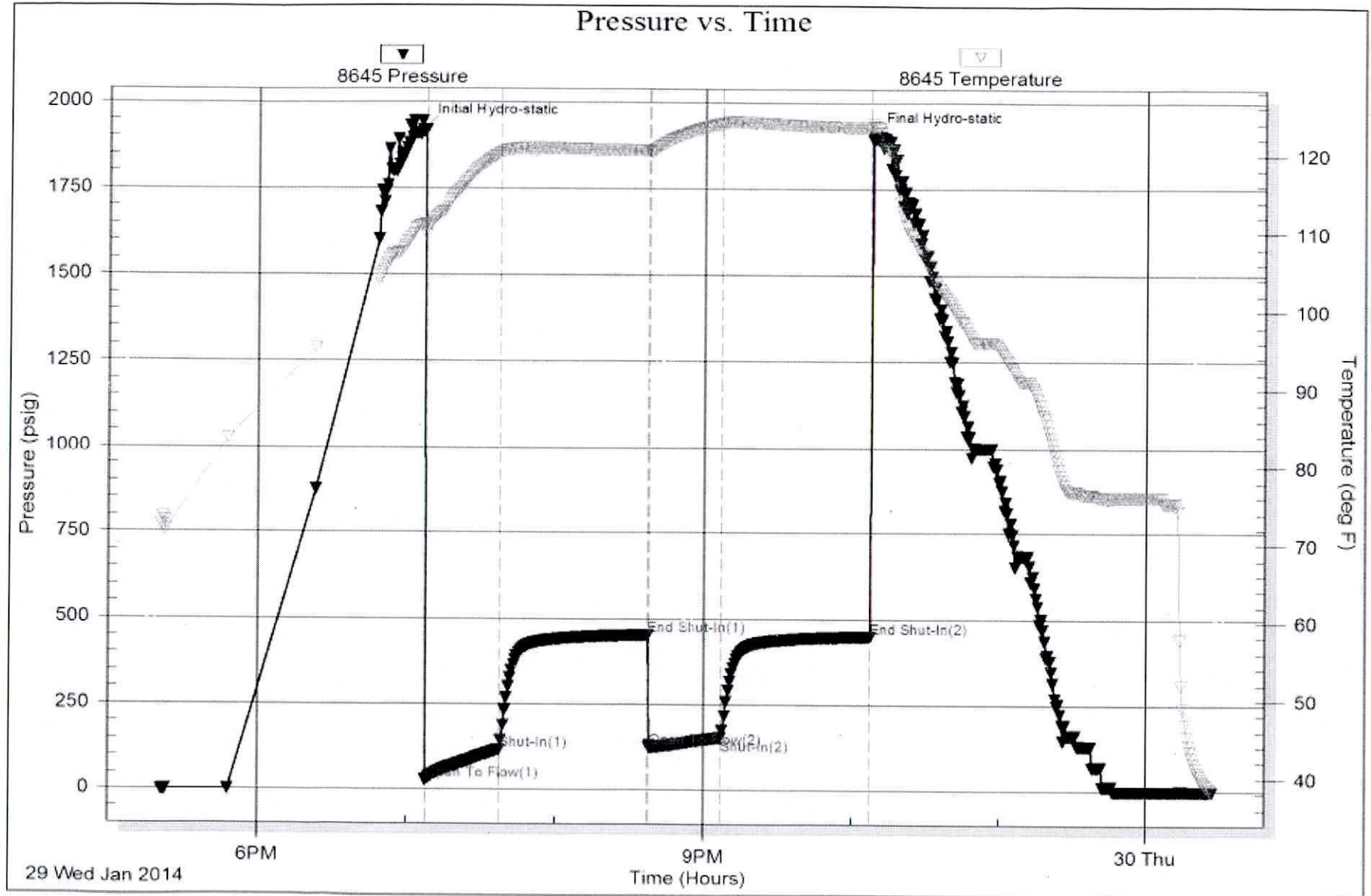
Length ft	Description	Volume bbl
0.00	RW: .170 @ 40 Degrees F = 82000 PPM	0.000
180.00	OSMW 15m 85w	0.885
62.00	OCM 5o 95m	0.305
63.00	GMCO 10g 40m 50o	0.884
10.00	GMCO 10g 20m 70o	0.140
0.00	110' GIP	0.000

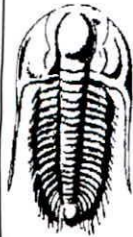
Total Length: 315.00 ft Total Volume: 2.214 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Too much mud to get a gavity.





**TRILOBITE
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DRILL STEM TEST REPORT

Trek AEC LLC
155 N. Market
STE 710
Wichita, KS 67202
ATTN: Douglas Davis

S16-15s-27w Gove, KS

Coberly #2

Job Ticket: 56628

DST#: 2

Test Start: 2014.01.30 @ 09:25:00

GENERAL INFORMATION:

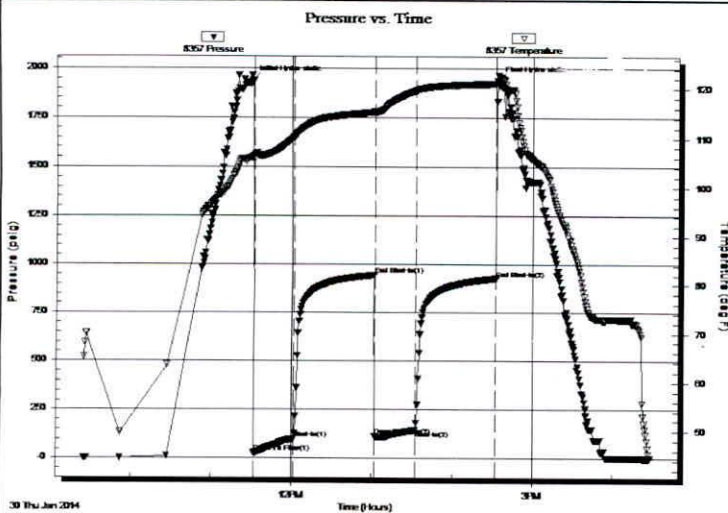
Formation: **LKC 'K'**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 11:32:06
 Tester: Chuck Smith
 Time Test Ended: 16:27:47
 Unit No: 62
 Interval: **3922.00 ft (KB) To 3934.00 ft (KB) (TVD)**
 Reference Elevations: 2433.00 ft (KB)
 Total Depth: 3934.00 ft (KB) (TVD)
 2428.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 8357

Inside

Press@RunDepth: 144.07 psig @ 3926.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.30 End Date: 2014.01.30 Last Calib.: 2014.01.30
 Start Time: 09:25:05 End Time: 16:27:47 Time On Btm: 2014.01.30 @ 11:30:30
 Time Off Btm: 2014.01.30 @ 14:34:00

TEST COMMENT: B.O.B. @ 5 1/2 min.
 3" Return.
 B.O.B. @ 8 min.
 11" Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1937.40	105.99	Initial Hydro-static
2	27.01	105.83	Open To Flow (1)
32	100.20	110.30	Shut-In(1)
92	944.32	115.27	End Shut-In(1)
92	115.13	115.09	Open To Flow (2)
123	144.07	119.64	Shut-In(2)
183	925.96	121.05	End Shut-In(2)
184	1939.06	122.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .290 @ 37 Degrees F = 50000 PPM	0.00
60.00	OSMW 10m 90w	0.30
120.00	GMCO 40g 10m 50 o/emulsion	0.59
62.00	GMCO 25g 25m 50o	0.30
107.00	CGO 25g 75o	1.50
0.00	821' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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ATTN: Douglas Davis

Coberly #2

Job Ticket: 56628

DST#: 2

Test Start: 2014.01.30 @ 09:25:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 7.00 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 39 deg API
Water Salinity: 50000 ppm

Recovery Information

Recovery Table

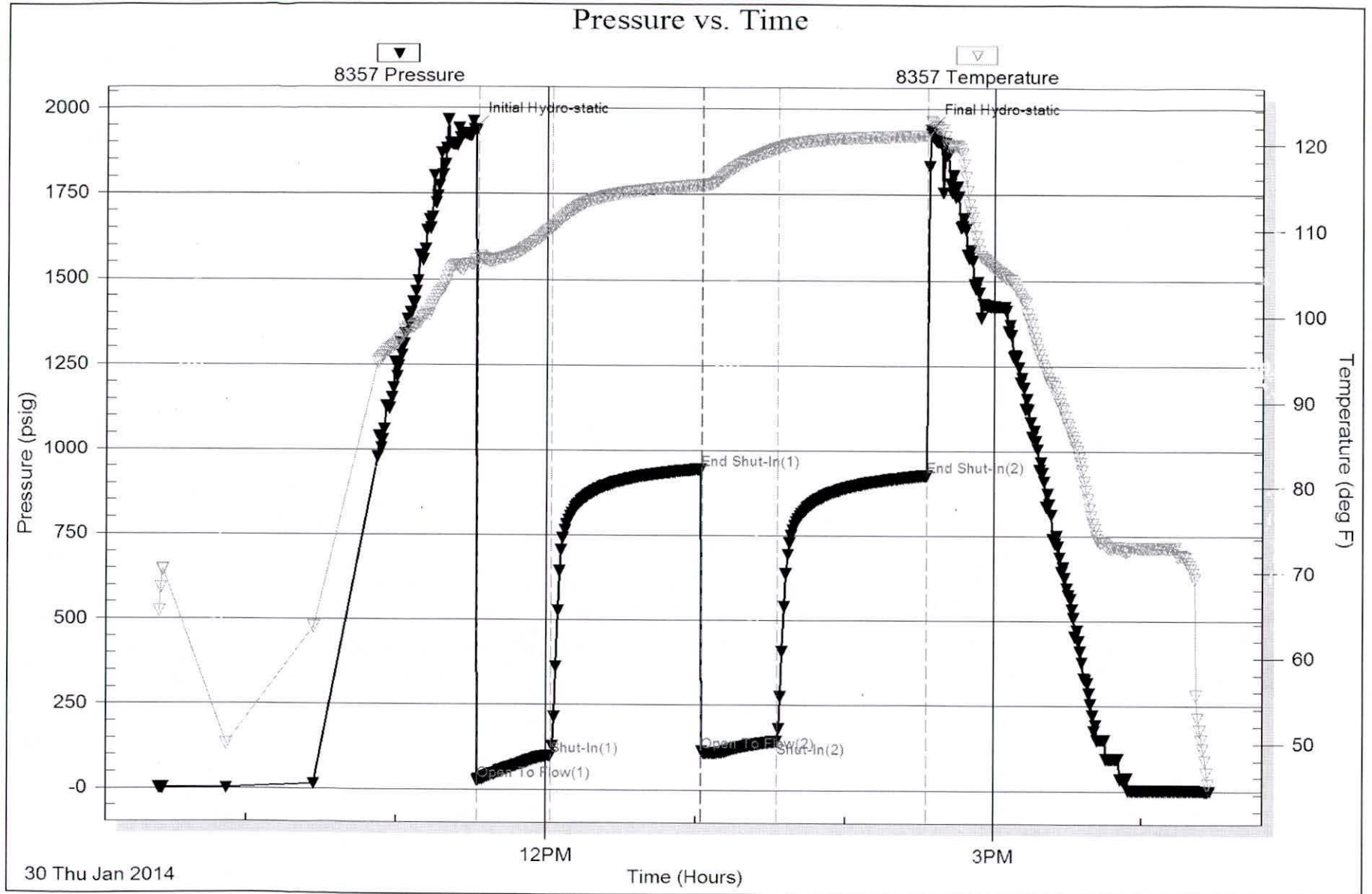
Length ft	Description	Volume bbl
0.00	RW: .290 @ 37 Degrees F = 50000 PPM	0.000
60.00	OSMW 10m 90w	0.295
120.00	GMCO 40g 10m 50 o/emulsion	0.590
62.00	GMCO 25g 25m 50o	0.305
107.00	CGO 25g 75o	1.501
0.00	821' GIP	0.000

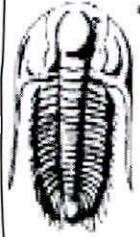
Total Length: 349.00 ft Total Volume: 2.691 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: API: 37 @ 40 Degrees F = 39





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S16-15s-27w Gove, KS

155 N. Market
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ATTN: Douglas Davis

Coberly #2

Job Ticket: 56629

DST#: 3

Test Start: 2014.01.31 @ 01:15:00

GENERAL INFORMATION:

Formation: **LKC 'L'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:40:54

Time Test Ended: 09:45:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 3963.00 ft (KB) To 3975.00 ft (KB) (TVD)

Reference Elevations: 2433.00 ft (KB)

Total Depth: 3975.00 ft (KB) (TVD)

2428.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8357

Inside

Press@RunDepth: 82.53 psig @ 3967.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.31

End Date:

2014.01.31

Last Calib.:

2014.01.31

Start Time: 01:15:05

End Time:

09:45:42

Time On Btm:

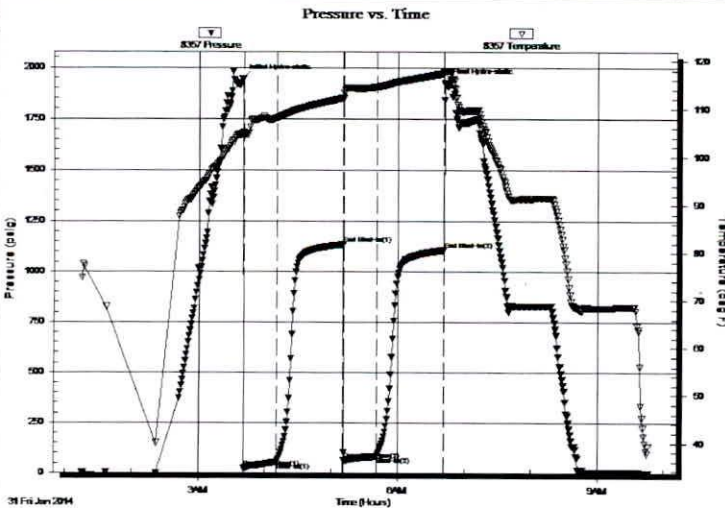
2014.01.31 @ 03:39:06

Time Off Btm:

2014.01.31 @ 06:42:24

TEST COMMENT: B.O.B. @ 18 min.
1" Return.
B.O.B. @ 12 min.
1" Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1943.85	104.95	Initial Hydro-static
2	21.28	104.13	Open To Flow (1)
32	53.17	108.17	Shut-In(1)
92	1134.22	112.30	End Shut-In(1)
93	61.36	113.25	Open To Flow (2)
122	82.53	114.57	Shut-In(2)
182	1104.87	117.37	End Shut-In(2)
184	1923.50	117.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GMCO 10g 35m 55o	0.15
120.00	GWMCO 22g 3w 30m 45o water too sm	0.59
0.00	90' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



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S16-15s-27w Gove, KS

155 N. Market
STE 710
Wichita, KS 67202
ATTN: Douglas Davis

Coberly #2
Job Ticket: 56629 **DST#: 3**
Test Start: 2014.01.31 @ 01:15:00

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

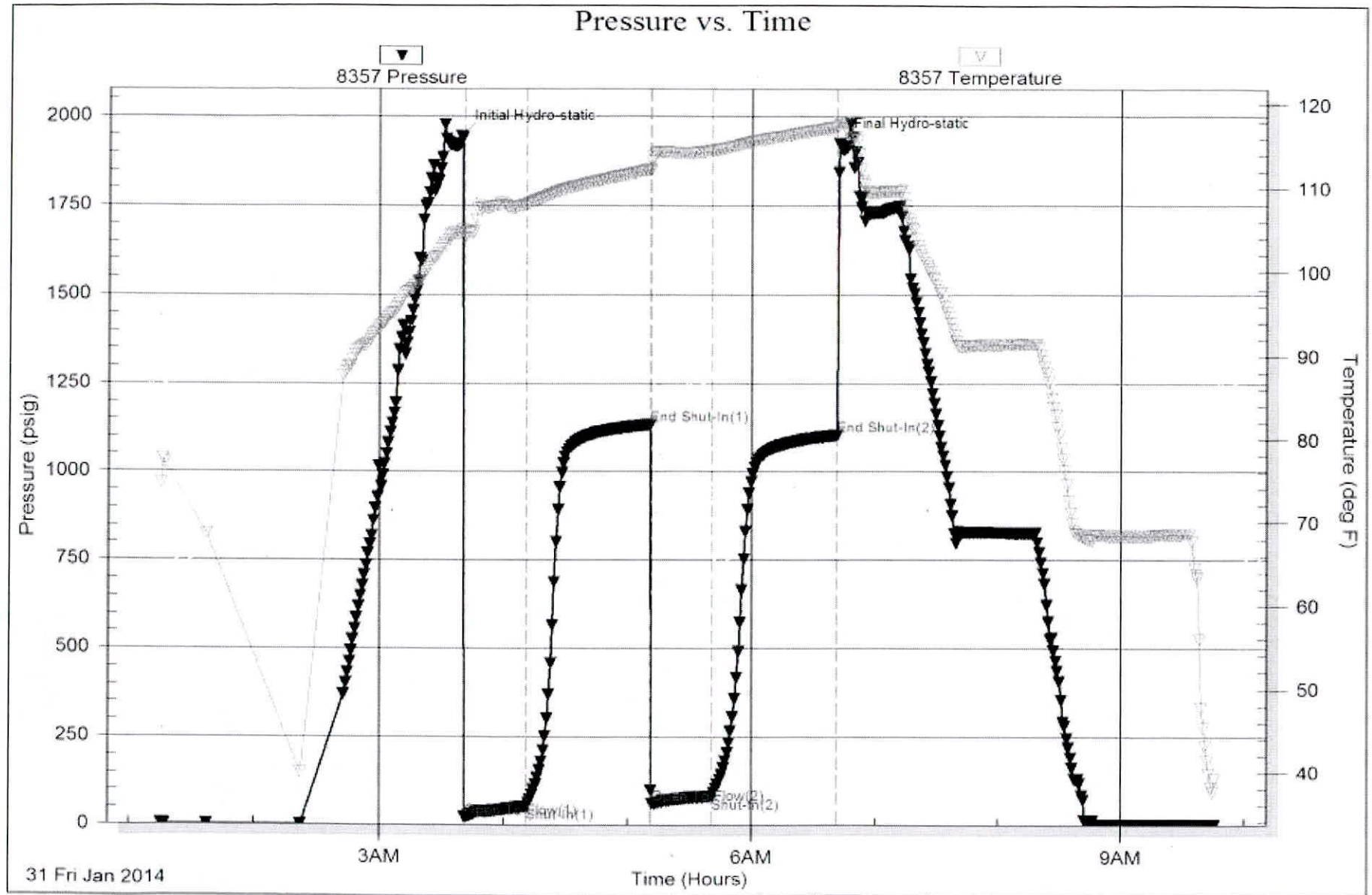
Length ft	Description	Volume bbl
30.00	GMCO 10g 35m 55o	0.148
120.00	GWMCO 22g 3w 30m 45o water too small to	0.590
0.00	90' GIP	0.000

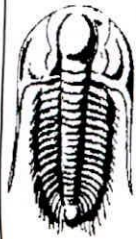
Total Length: 150.00 ft Total Volume: 0.738 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:





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 155 N. Market
 STE 710
 Wichita, KS 67202
 ATTN: Douglas Davis

S16-15s-27w Gove, KS

Coberly #2

Job Ticket: 56630

DST#: 4

Test Start: 2014.02.01 @ 14:25:00

GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:58:36
 Time Test Ended: 20:21:54
 Interval: **4156.00 ft (KB) To 4195.00 ft (KB) (TVD)**
 Total Depth: 4195.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 62
 Reference Elevations: 2433.00 ft (KB)
 2428.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8357

Inside

Press@RunDepth: 29.67 psig @ 4160.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.01

End Date: 2014.02.01

Last Calib.: 2014.02.01

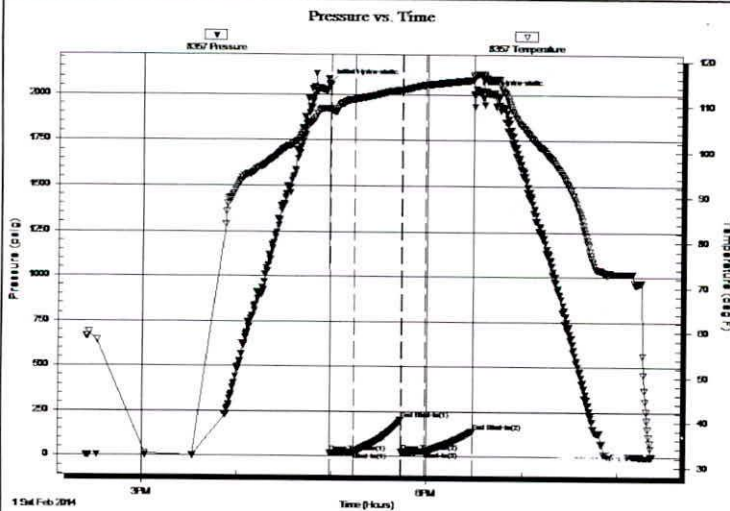
Start Time: 14:25:05

End Time: 20:21:53

Time On Btm: 2014.02.01 @ 16:57:12

Time Off Btm: 2014.02.01 @ 18:29:00

TEST COMMENT: 1" Blow.
 No return.
 1 1/2" Blow.
 No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2057.95	109.40	Initial Hydro-static
2	20.20	108.63	Open To Flow (1)
17	26.27	111.41	Shut-In(1)
47	204.46	113.53	End Shut-In(1)
47	22.83	113.49	Open To Flow (2)
62	29.67	114.59	Shut-In(2)
92	140.72	115.73	End Shut-In(2)
92	2004.71	116.33	Final Hydro-static

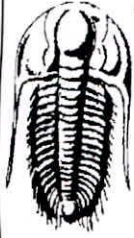
Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 5o 95m	0.15

Gas Rates

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

* Recovery from multiple tests



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Trek AEC LLC

S16-15s-27w Gove, KS

155 N. Market
STE 710
Wichita, KS 67202

Coberly #2

Job Ticket: 56630

DST#: 4

ATTN: Douglas Davis

Test Start: 2014.02.01 @ 14:25:00

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 1.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 5o 95m	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:

