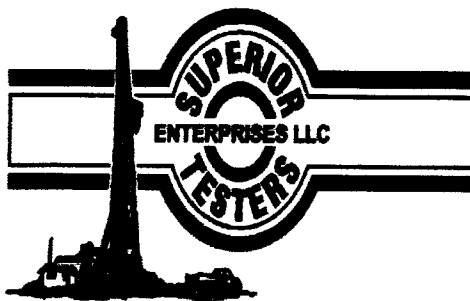


15-109-20880

36-13s-32w



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 2ND ST N #700
WICHITA KS 67278+3188

ATTN: WES HANSEN

36-13-32W LOGAN

NUSS FARMS 36B #1

Start Date: 2010.01.28 @ 22:09:00

End Date: 2010.01.29 @ 03:45:00

Job Ticket #: 16307 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2010.02.05 @ 13:05:19

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

36-13-32W LOGAN

DST # 1

LANGING "C"

2010.01.28



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278+3188

36-13-32W LOGAN

Job Ticket: 16307

DST#: 1

ATTN: WES HANSEN

Test Start: 2010.01.28 @ 22:09:00

GENERAL INFORMATION:

Formation: **LANSING "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:55:30

Time Test Ended: 03:45:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320 - 65 - SCOTT CI

Interval: 3949.00 ft (KB) To 3975.00 ft (KB) (TVD)

Reference Elevations: 2908.00 ft (KB)

Total Depth: 3975.00 ft (KB) (TVD)

2898.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8405

Inside

Press@RunDepth: 41.05 psia @ 3970.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.01.28

End Date:

2010.01.29

Last Calib.:

2010.01.29

Start Time: 22:11:00

End Time:

03:45:00

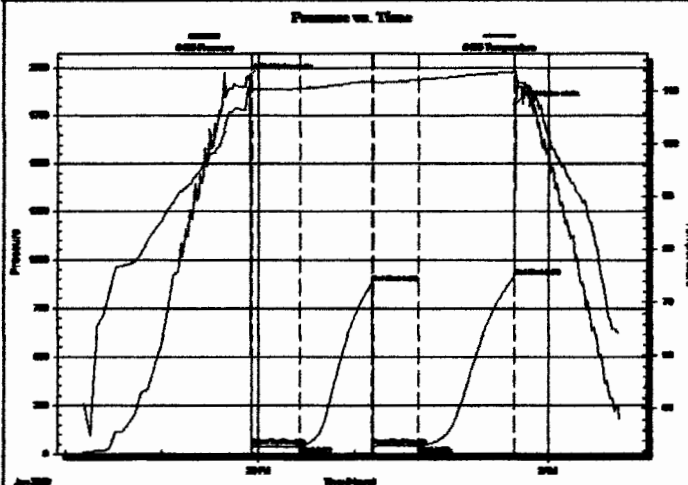
Time On Btm:

2010.01.28 @ 23:53:30

Time Off Btm:

2010.01.29 @ 02:39:30

TEST COMMENT: 30/INITIAL OPEN: VERY WEAK BLOW BUILT 1/4 INCH INTO WATER IN 30 MINUTES
45/INITIAL SHUT-IN: NO BLOW BACK
30/FINAL OPEN: NO BLOW FLUSHED TOOL 5 MINUTES INTO OPEN GOOD SURGE DID NOT BUILD
60/FINAL SHUT-IN: NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1950.23	110.79	Initial Hydro-static
2	37.70	110.46	Open To Flow (1)
33	40.48	110.59	Shut-In(1)
78	881.47	111.95	End Shut-In(1)
78	40.11	111.83	Open To Flow (2)
106	41.05	112.22	Shut-In(2)
166	912.92	113.73	End Shut-In(2)
186	1810.06	113.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD	0.02

Gas Rates

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

RITCHE EXPLORATION INC

NUSS FARMS 36B #1

8100 E2ND ST N #700
WICHITA KS 67278+3188

36-13-32W LOGAN

Job Ticket: 16307

DST#: 1

ATTN: WES HANSEN

Test Start: 2010.01.28 @ 22:09:00

GENERAL INFORMATION:

Formation: LANSING "C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:55:30

Time Test Ended: 03:45:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320 - 65 - SCOTT CI

Interval: 3949.00 ft (KB) To 3975.00 ft (KB) (TVD)

Reference Elevations: 2908.00 ft (KB)

Total Depth: 3975.00 ft (KB) (TVD)

2898.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Poor

KB to GRVCF: 10.00 ft

Serial #: 8419

Outside

Press@RunDepth: 910.38 psia @ 3970.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.01.28

End Date:

2010.01.29

Last Calib.:

2010.01.29

Start Time: 22:10:00

End Time:

04:25:30

Time On Btm:

2010.01.28 @ 23:54:30

Time Off Btm:

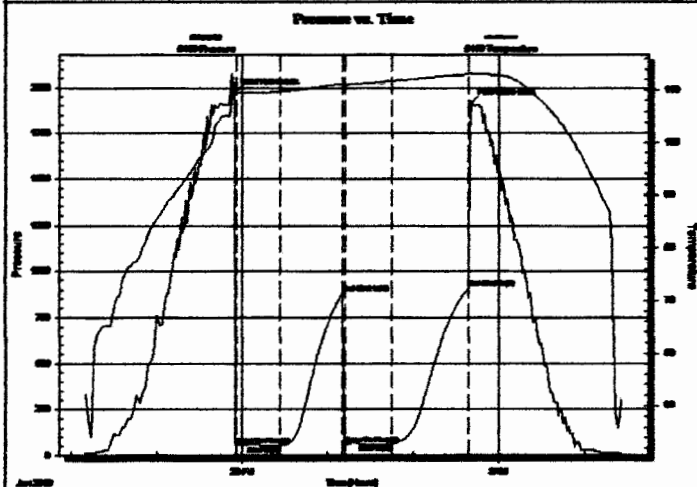
2010.01.29 @ 02:40:30

TEST COMMENT: 30/INITIAL OPEN VERY WEAK BLOW BUILT 1/4 INCH INTO WATER IN 30 MINUTES

45/INITIAL SHUT-IN NO BLOW BACK

30/FINAL OPEN NO BLOW FLUSHED TOOL 5 MINUTES INTO OPEN GOOD SURGE DID NOT BUILD

60/FINAL SHUT-IN NO BLOW BACK



PRESSURE SUMMARY

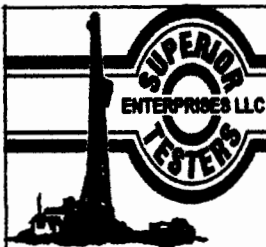
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1970.51	110.06	Initial Hydro-static
2	57.78	109.59	Open To Flow (1)
32	48.78	109.77	Shut-In(1)
78	884.57	111.22	End Shut-In(1)
78	61.85	111.01	Open To Flow (2)
111	61.70	111.69	Shut-In(2)
164	910.38	113.07	End Shut-In(2)
166	1916.47	113.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD	0.02

Gas Rates

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

TOOL DIAGRAM

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278+3188

36-13-32W LOGAN

Job Ticket: 16307

DST#: 1

ATTN: WES HANSEN

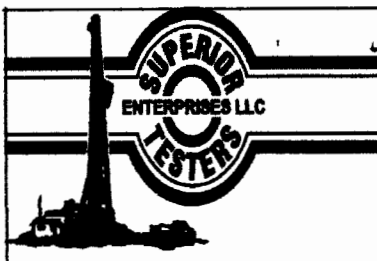
Test Start: 2010.01.28 @ 22:09:00

Tool Information

Drill Pipe:	Length: 3351.00 ft	Diameter: 3.80 inches	Volume: 47.01 bbl	Tool Weight:	10000.00 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: 582.00 ft	Diameter: 2.25 inches	Volume: 2.86 bbl	Weight to Pull Loose:	78000.00 lb
		Total Volume:	49.87 bbl	Tool Chased	6.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	3949.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	47.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments: TOOL CHASED 6 FEET TO BOTTOM / FLUSHED TOOL 5 MINUTES INTO 2ND OPEN

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3929.00	
Shut-In Tool	5.00			3934.00	
Hydrolic Tool	5.00			3939.00	
Packer	5.00			3944.00	21.00 Bottom Of Top Packer
Packer	5.00			3949.00	
Perforations	21.00			3970.00	
Recorder	0.00	8405	Inside	3970.00	
Recorder	0.00	8419	Outside	3970.00	
Bullnose	5.00			3975.00	26.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278+3188

36-13-32W LOGAN

Job Ticket: 16307

DST#: 1

ATTN: WES HANSEN

Test Start: 2010.01.28 @ 22:09:00

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUD	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: TOOL CHASED 6 FEET TO BOOTOM / FLUSHED TOOL ON 2ND OPEN

Serial #: 8405

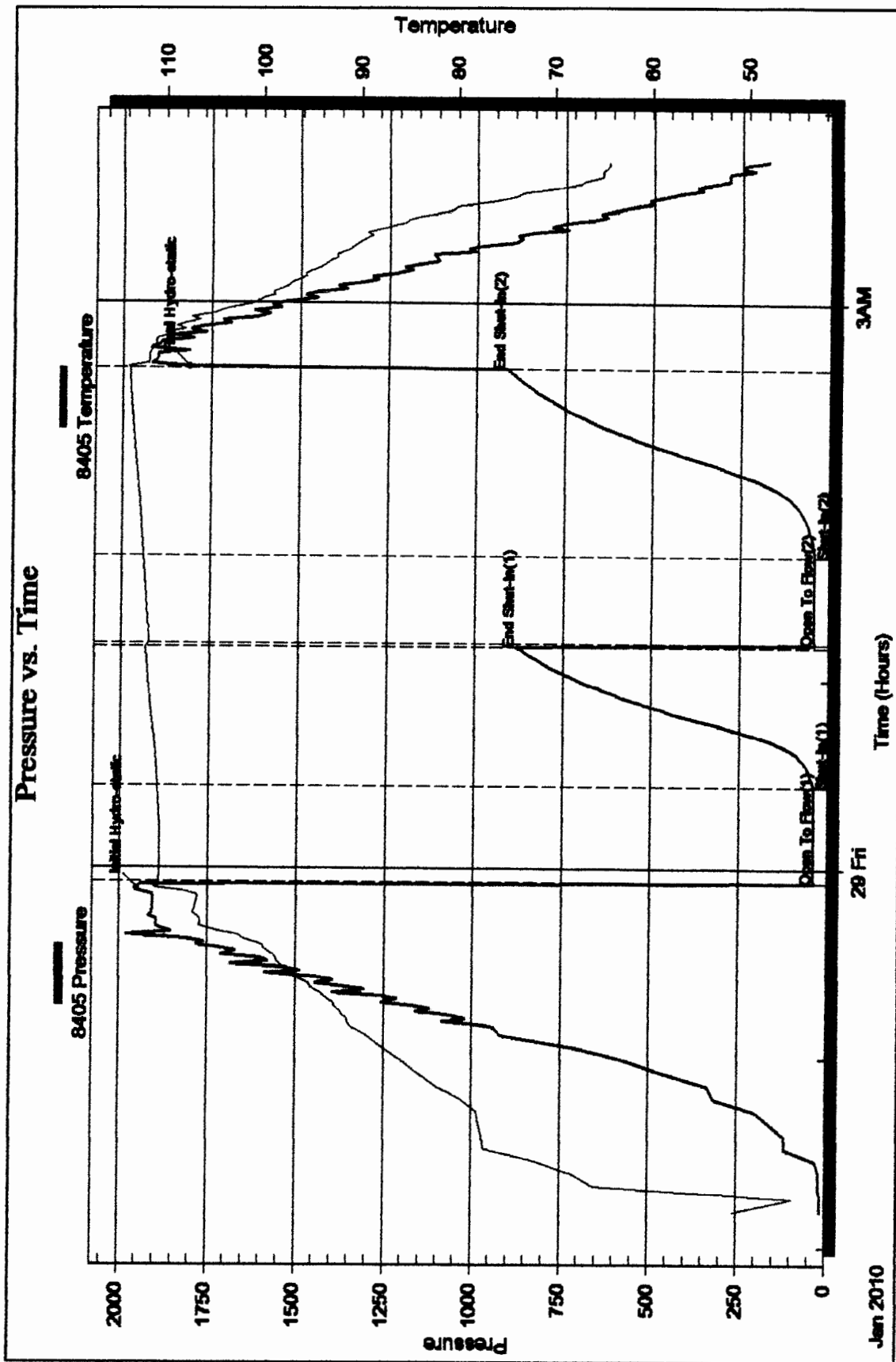
Inside

RITCHEXPLORATION INC

36-13-32W LOGAN

DST Test Number: 1

Pressure vs. Time



Printed: 2010.02.05 @ 13:05:20

Ref. No: 16307

Superior Testers Enterprises LLC

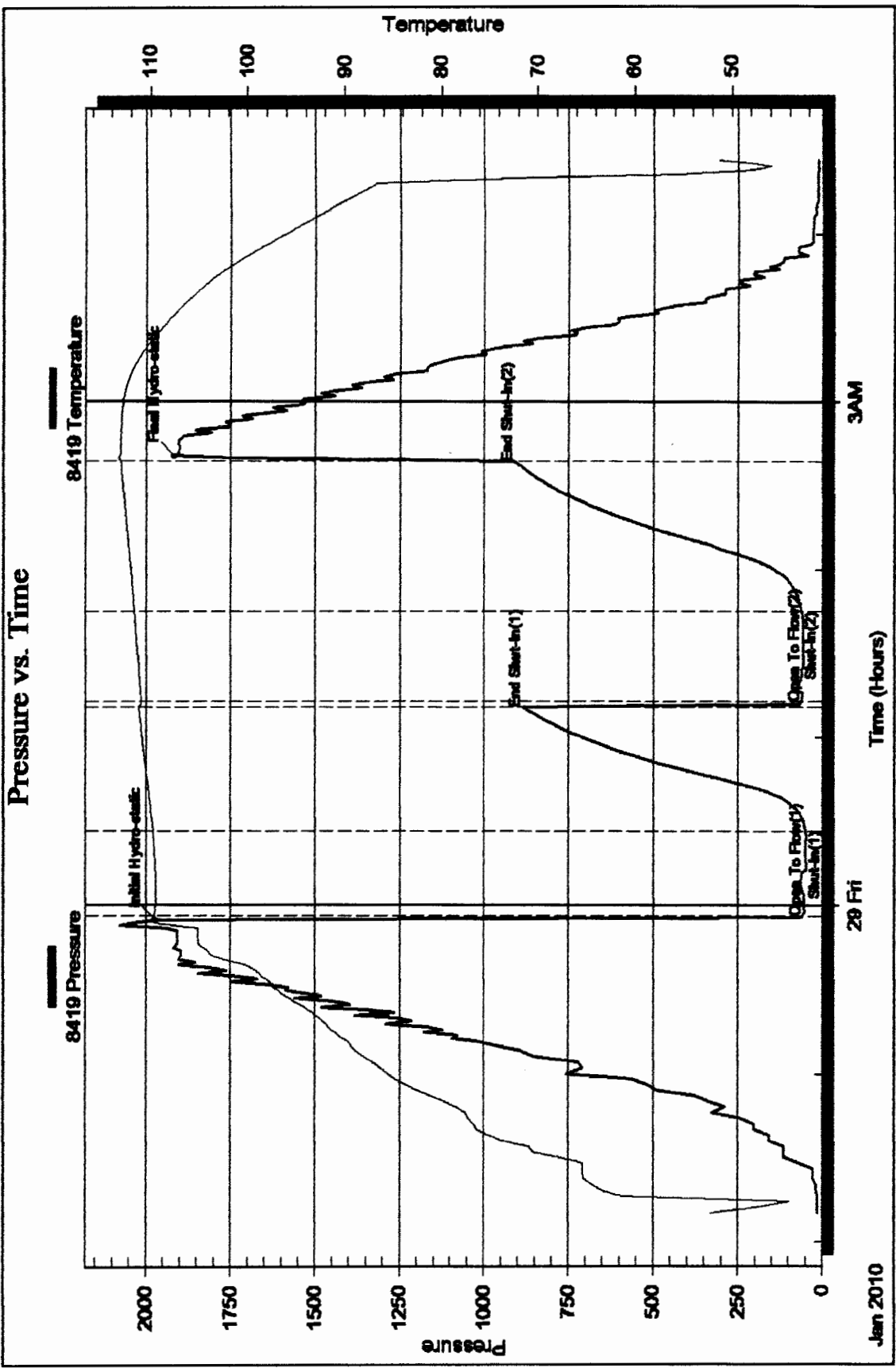
DST Test Number: 1

36-13-32W LOGAN

Outside RITCHIE EXPLORATION INC

Serial #: 8419

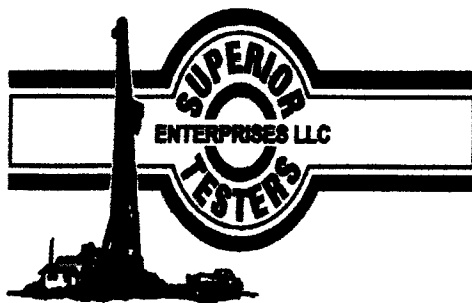
Pressure vs. Time



Printed: 2010.02.05 @ 13:05:20

Ref. No: 16307

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 2ND ST N #700
WICHITA KS 67278+3188

ATTN: WES HANSEN

36-13-32W LOGAN

NUSS FARMS 36B #1

Start Date: 2010.01.29 @ 12:28:00

End Date: 2010.01.29 @ 18:24:30

Job Ticket #: 16308 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2010.02.05 @ 13:04:59

RITCHIE EXPLORATION INC

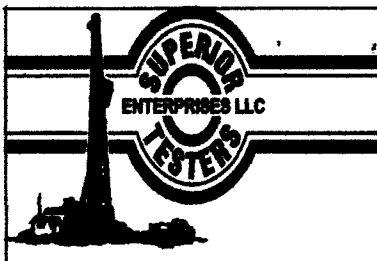
NUSS FARMS 36B #1

36-13-32W LOGAN

DST # 2

LANSING "E"

2010.01.29



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278-3188

36-13-32W LOGAN

ATTN: WES HANSEN

Job Ticket: 16308

DST#: 2

Test Start: 2010.01.29 @ 12:28:00

GENERAL INFORMATION:

Formation: LANSING "E"

Deviated: No Whipstock ft (KB)

Time Tool Opened: 14:16:30

Time Test Ended: 18:24:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320- 65- SCOTT CITY

Interval: 3997.00 ft (KB) To 4019.00 ft (KB) (TVD)

Total Depth: 4019.00 ft (KB) (TVD)

Hole Diameter: 8.88 inches-Hole Condition: Poor

Reference Elevations: 2908.00 ft (KB)

2898.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8405

Inside

Press@RunDepth: 54.78 psia @ 4014.00 ft (KB)

Start Date: 2010.01.29

End Date: 2010.01.29

Capacity: 5000.00 psia

Last Calib.: 2010.01.29

Start Time: 12:30:00

End Time: 18:24:30

Time On Btm: 2010.01.29 @ 14:15:30

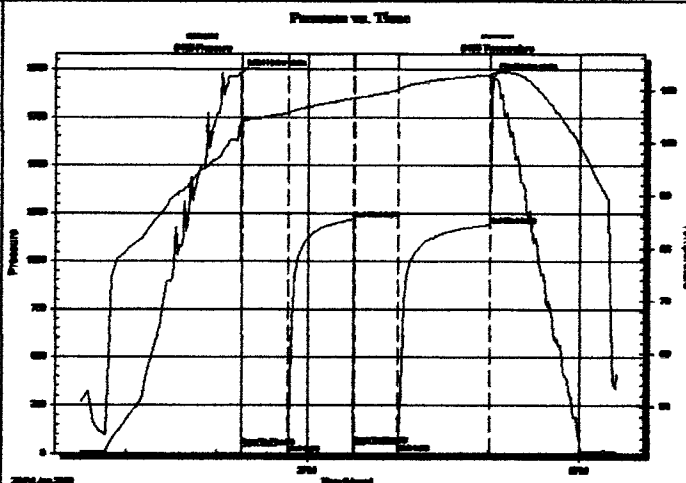
Time Off Btm: 2010.01.29 @ 17:02:00

TEST COMMENT: 30/INITIAL OPEN:VERYWEAK BUT BUILDING BLOW BUILT 1 1/8 INTO WATER IN 30 MINUTES

45/INITIAL SHUT: NOBLOW BACK

30/FINAL OPEN:VERY WEAK SURFACE BLOW DID NOT BUILD

60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

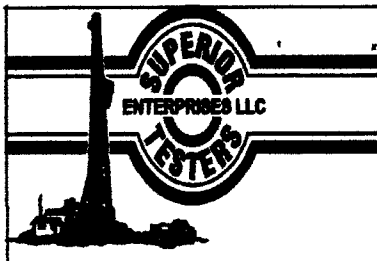
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1974.32	103.97	Initial Hydro-static
1	37.87	104.13	Open To Flow (1)
32	46.66	105.60	Shut-In(1)
75	1218.31	106.39	End Shut-In(1)
76	48.52	106.42	Open To Flow (2)
104	54.78	110.01	Shut-In(2)
165	1190.50	112.78	End Shut-In(2)
167	1957.97	113.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD	0.05

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcfd)
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DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278+3188

36-13-32W LOGAN

Job Ticket: 16308

DST#: 2

ATTN: WES HANSEN

Test Start: 2010.01.29 @ 12:28:00

GENERAL INFORMATION:

Formation: LANSING "E"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:16:30

Time Test Ended: 18:24:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320- 65- SCOTT CITY

Interval: 3997.00 ft (KB) To 4019.00 ft (KB) (TVD)

Total Depth: 4019.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Poor

Reference Elevations: 2908.00 ft (KB)

2898.00 ft (CF)

KB to GRVCF: 10.00 ft

Serial #: 8419

Outside

Press@RunDepth: 1191.60 psia @ 4014.00 ft (KB)

Start Date: 2010.01.29

End Date:

2010.01.29

Start Time: 12:29:00

End Time:

18:25:00

Capacity: 5000.00 psia

Last Calib.: 2010.01.29

Time On Btm: 2010.01.29 @ 14:16:00

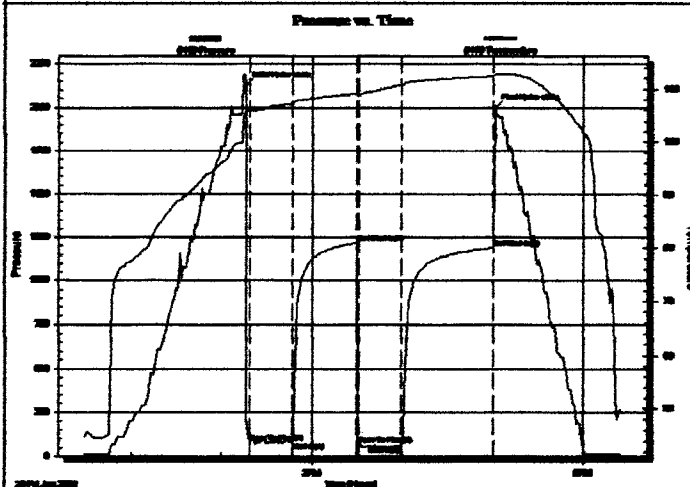
Time Off Btm: 2010.01.29 @ 17:01:30

TEST COMMENT: 30/INITIAL OPEN: VERY WEAK BUT BUILDING BLOW BUILT 1 1/8 INTO WATER IN 30 MINUTES

45/INITIAL SHUT: NO BLOW BACK

30/FINAL OPEN: VERY WEAK SURFACE BLOW DID NOT BUILD

60/FINAL SHUT IN: NO BLOW BACK



PRESSURE SUMMARY

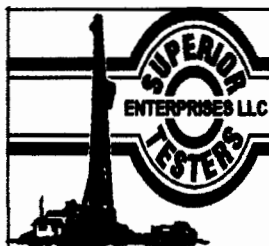
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2129.95	105.88	Initial Hydro-static
3	78.65	105.94	Open To Flow (1)
31	80.86	107.28	Shut-In(1)
74	1219.32	109.11	End Shut-In(1)
75	68.24	108.84	Open To Flow (2)
104	59.37	110.77	Shut-In(2)
165	1191.60	112.40	End Shut-In(2)
166	1999.60	112.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD	0.05

Gas Rates

Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278+3188

36-13-32W LOGAN

Job Ticket: 16308

DST#: 2

ATTN: WES HANSEN

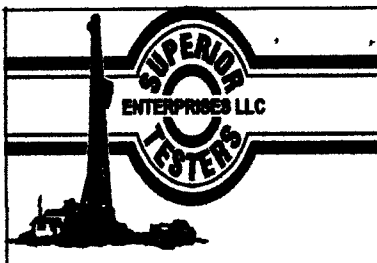
Test Start: 2010.01.29 @ 12:28:00

Tool Information

Drill Pipe:	Length: 3415.00 ft	Diameter: 3.80 inches	Volume: 47.90 bbl	Tool Weight: 10000.00 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: 582.00 ft	Diameter: 2.25 inches	Volume: 2.86 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 50.76 bbl		Tool Chased 3.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3997.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: TOOL CHASED 3 FEET TO BOTTOM

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3977.00	
Shut-In Tool	5.00			3982.00	
Hydraulic Tool	5.00			3987.00	
Packer	5.00			3992.00	21.00 Bottom Of Top Packer
Packer	5.00			3997.00	
Perforations	17.00			4014.00	
Recorder	0.00	8405	Inside	4014.00	
Recorder	0.00	8419	Outside	4014.00	
Bullnose	5.00			4019.00	22.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278-3188

36-13-32W LOGAN

Job Ticket: 16308

DST#: 2

ATTN: WES HANSEN

Test Start: 2010.01.29 @ 12:28:00

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: 7.18 in*

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	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: TOOL CHASED 3 FEET TO BOTTOM

Serial #: 8405

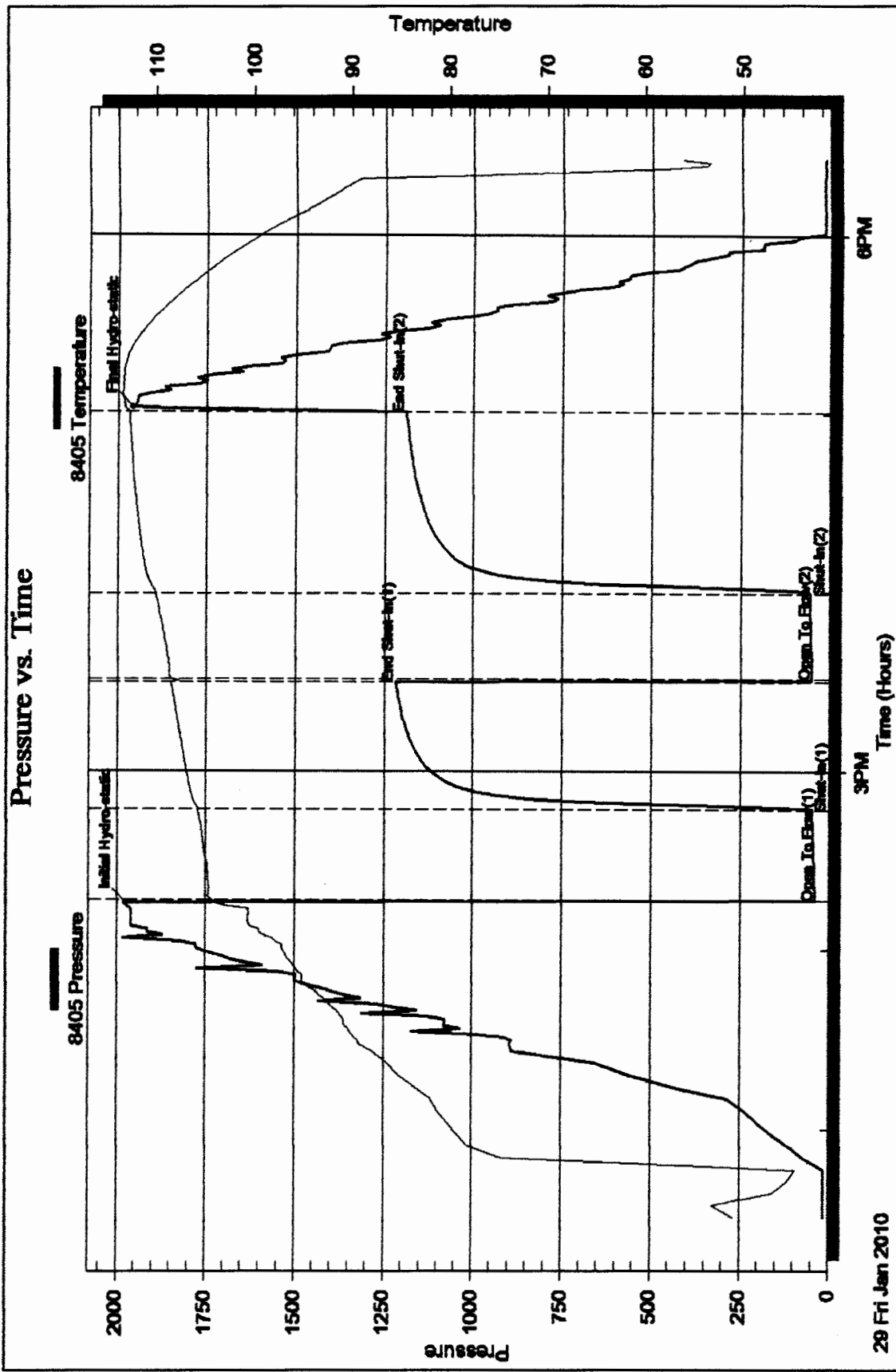
Inside

36-13-32W LOGAN

RITCHEX EXPLORATION INC

DST Test Number: 2

Pressure vs. Time



Printed: 2010.02.05 @ 13:05:00

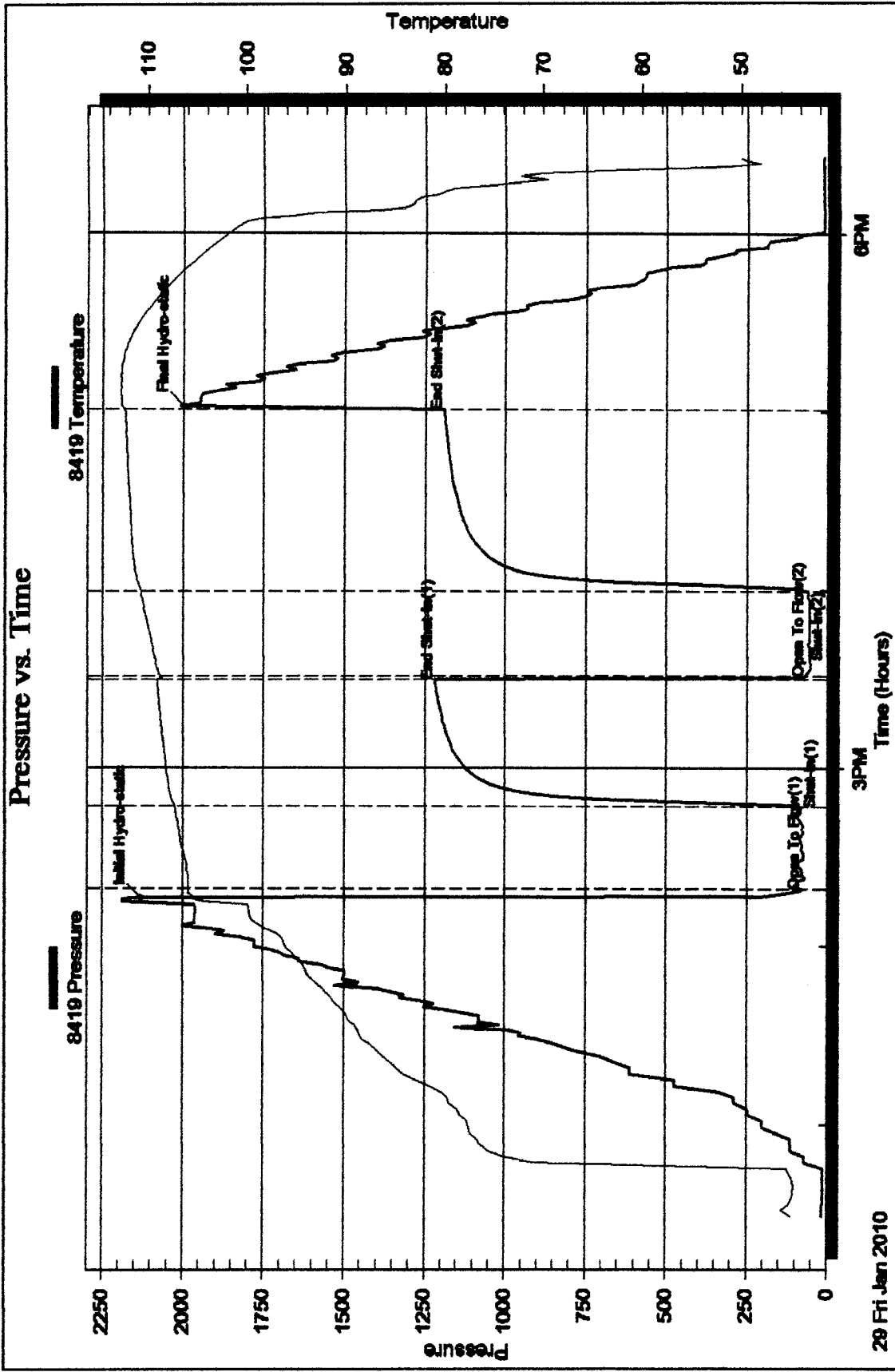
Ref. No: 16308

Superior Testers Enterprises LLC

DST Test Number: 2

36-13-32W LOGAN

Serial #: 8419 Outside RTCH EXPLORATION INC



Printed: 2010.02.05 @ 13:05:00

Ref. No: 16308

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 2ND ST N #700
WICHITA KS 67278+3188

ATTN: WES HANSEN

36-13-32W LOGAN

NUSS FARMS 36B #1

Start Date: 2010.01.30 @ 07:17:00

End Date: 2010.01.30 @ 12:35:30

Job Ticket #: 16309 DST #: 3

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2010.02.05 @ 13:04:48

RITCHIE EXPLORATION INC

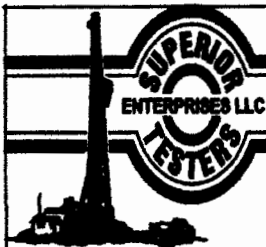
NUSS FARMS 36B #1

36-13-32W LOGAN

DST # 3

LANSING "H"

2010.01.30



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

8100 E 2ND ST N #700
WICHITA KS 67278+3188

ATTN: WES HANSEN

NUSS FARMS 36B #1

36-13-32W LOGAN

Job Ticket: 16309

DST#: 3

Test Start: 2010.01.30 @ 07:17:00

GENERAL INFORMATION:

Formation: **LANSING "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:00:30

Time Test Ended: 12:35:30

Interval: 4084.00 ft (KB) To 4123.00 ft (KB) (TVD)

Total Depth: 4123.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320 -65 -SCOTT CITY

Reference Elevations: 2908.00 ft (KB)

2898.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8405

Inside

Press@RunDepth: 46.41 psia @ 4118.00 ft (KB)

Start Date: 2010.01.30

End Date:

2010.01.30

Start Time: 07:19:00

End Time:

12:35:30

Capacity:

5000.00 psia

Last Calib.:

2010.01.30

Time On Btm:

2010.01.30 @ 08:59:30

Time Off Btm:

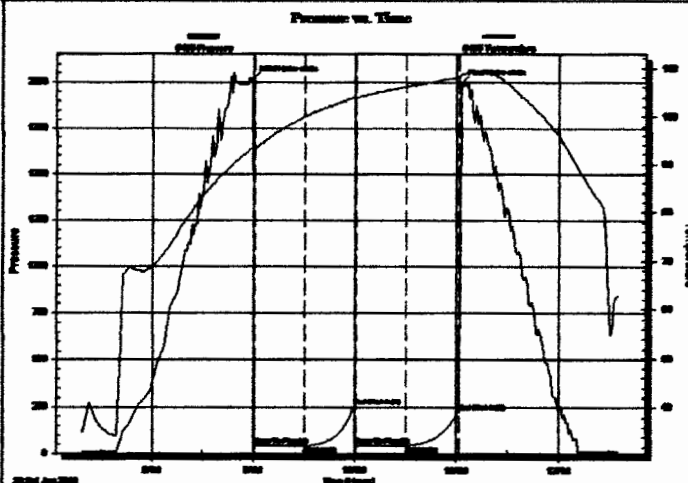
2010.01.30 @ 11:02:30

TEST COMMENT: 30/INITIAL OPEN: VERY WEAK SURFACE BLOW BUILT 1/4 INCH INTO WATER IN 30 MINUTES

30/INITIAL SHUT IN: NO BLOW BACK

30/FINAL OPEN: VERY WEAK SURFACE BLOW DID NOT BUILD

30/FINAL SHUT IN: NO BLOW BACK



PRESSURE SUMMARY

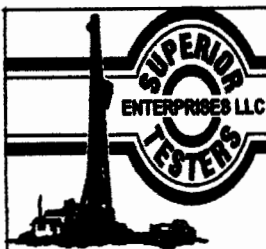
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2013.72	93.50	Initial Hydro-static
1	43.52	93.24	Open To Flow (1)
31	45.17	99.98	Shut-In (1)
61	253.68	103.81	End Shut-In (1)
61	45.35	103.76	Open To Flow (2)
91	46.41	106.14	Shut-In (2)
122	222.23	106.06	End Shut-In (2)
123	1996.59	106.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD	0.02

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mc/d)
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DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278+3188

36-13-32W LOGAN

Job Ticket: 16309

DST#: 3

ATTN: WES HANSEN

Test Start: 2010.01.30 @ 07:17:00

GENERAL INFORMATION:

Formation: LANSING "H"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:00:30

Time Test Ended: 12:35:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320 -65 -SCOTT CITY

Interval: 4084.00 ft (KB) To 4123.00 ft (KB) (TVD)

Reference Elevations: 2908.00 ft (KB)

Total Depth: 4123.00 ft (KB) (TVD)

2898.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8419

Outside

Press@RunDepth: 226.80 psia @ 4118.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.01.30

End Date:

2010.01.30

Last Calib.:

2010.01.30

Start Time: 07:18:00

End Time:

12:43:30

Time On Btm:

2010.01.30 @ 08:59:30

Time Off Btm:

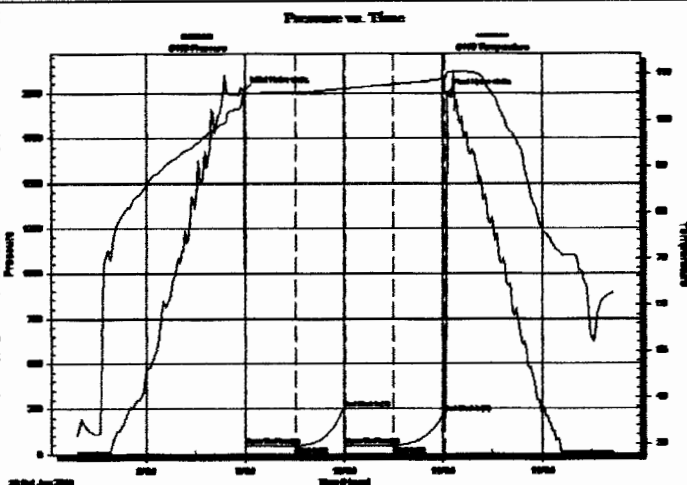
2010.01.30 @ 11:02:30

TEST COMMENT: 30/INITIAL OPEN: VERY WEAK SURFACE BLOW BUILT 1/4 INCH INTO WATER IN 30 MINUTES

30/INITIAL SHUT IN: NO BLOW BACK

30/FINAL OPEN: VERY WEAK SURFACE BLOW DID NOT BUILD

30/FINAL SHUT IN: NO BLOW BACK



PRESSURE SUMMARY

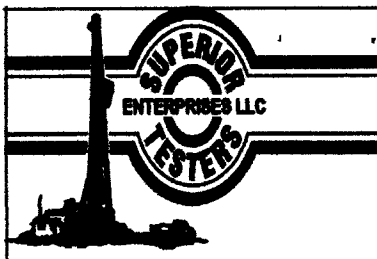
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2014.81	105.32	Initial Hydro-static
1	44.97	105.48	Open To Flow (1)
31	46.60	105.89	Shut-In (1)
61	251.10	106.69	End Shut-In (1)
61	46.96	106.65	Open To Flow (2)
91	48.46	107.59	Shut-In (2)
122	226.80	108.69	End Shut-In (2)
123	1999.58	110.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD	0.02

Gas Rates

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

TOOL DIAGRAM

RITCHE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278-3188

36-13-32W LOGAN

Job Ticket: 16309

DST#: 3

ATTN: WES HANSEN

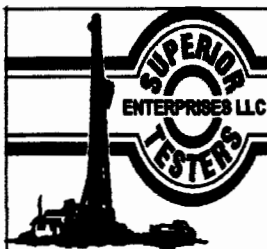
Test Start: 2010.01.30 @ 07:17:00

Tool Information

Drill Pipe:	Length: 3510.00 ft	Diameter: 3.80 inches	Volume: 49.24 bbl	Tool Weight: 10000.00 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: 582.00 ft	Diameter: 2.25 inches	Volume: 2.86 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 52.10 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4064.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4064.00	
Shut-In Tool	5.00			4069.00	
Hydraulic Tool	5.00			4074.00	
Packer	5.00			4079.00	21.00 Bottom Of Top Packer
Packer	5.00			4084.00	
Perforations	34.00			4118.00	
Recorder	0.00	8405	Inside	4118.00	
Recorder	0.00	8419	Outside	4118.00	
Bullnose	5.00			4123.00	39.00 Bottom Packers & Anchor
Total Tool Length:		60.00			



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278+3188

36-13-32W LOGAN

Job Ticket: 16309

DST#: 3

ATTN: WES HANSEN

Test Start: 2010.01.30 @ 07:17:00

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: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUD	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 3

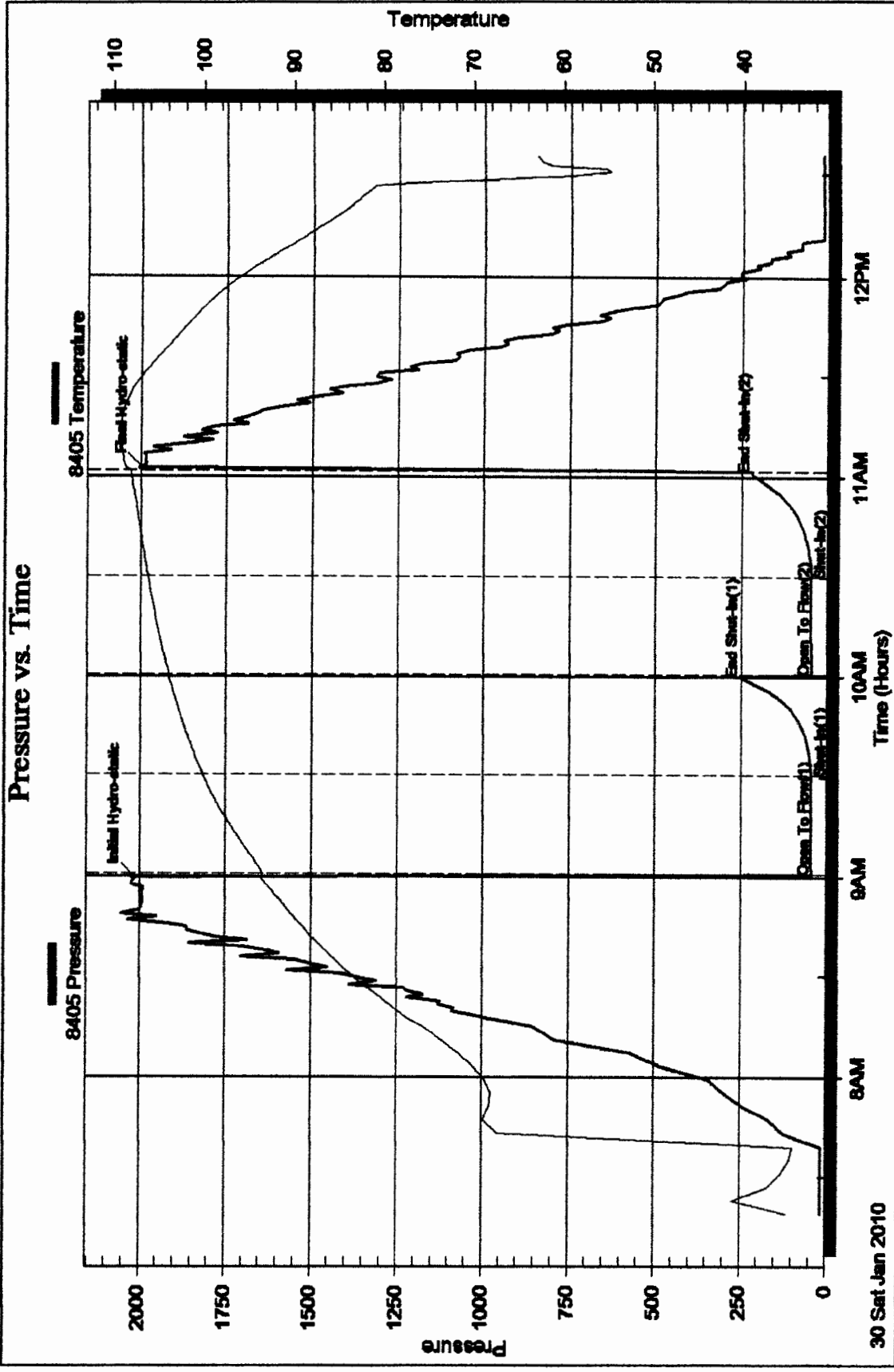
36-13-32W LOGAN

RTCH EXPLORATION INC

Inside

Serial #: 8405

Pressure vs. Time



Printed: 2010.02.05 @ 13:04:49

Ref. No: 16309

Superior Testers Enterprises LLC

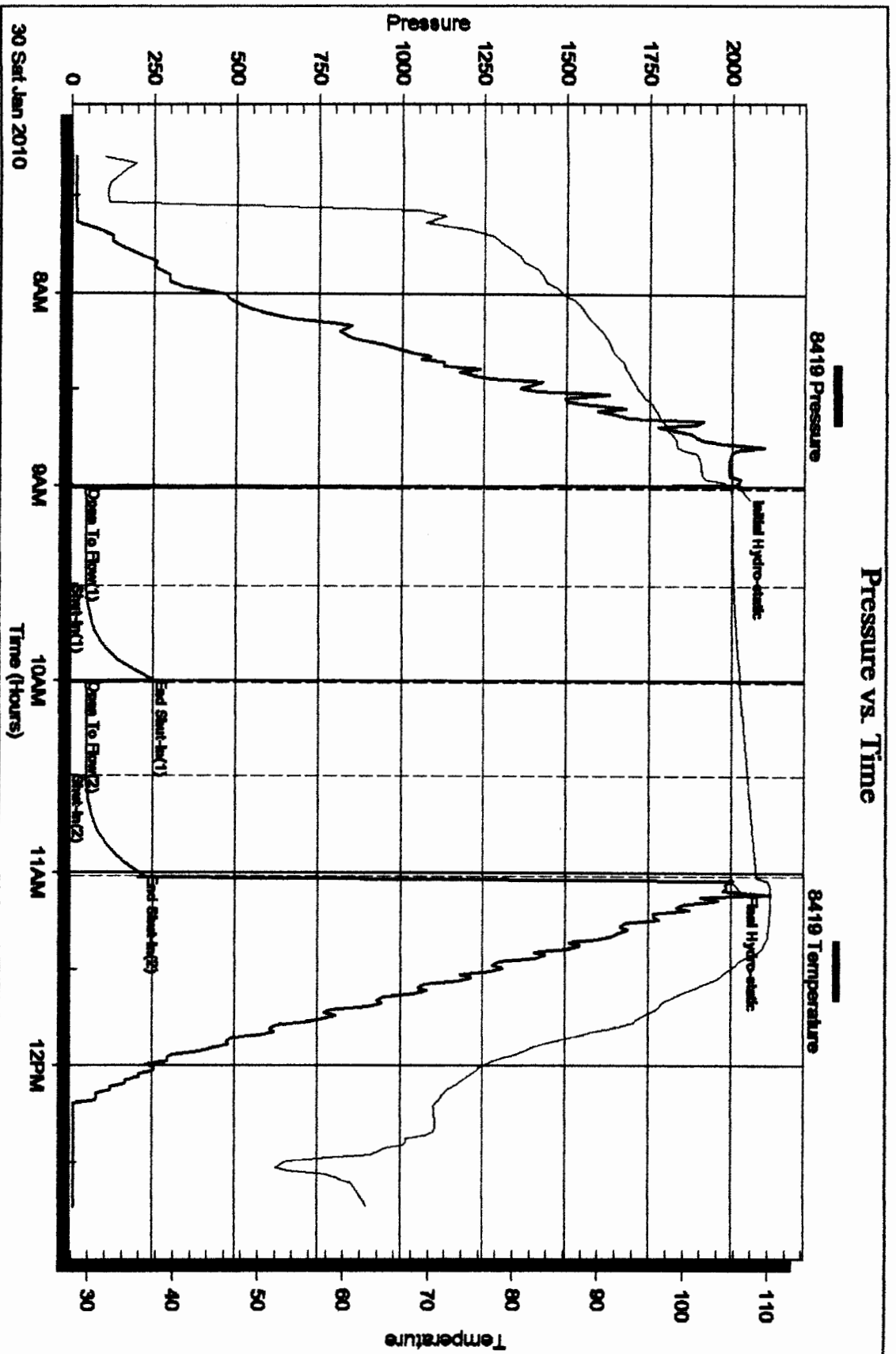
Serial #: 8419

Outside RITCHE EXPLORATION INC

36-13-32W LOGAN

DST Test Number: 3

Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 16309

Printed: 2010.02.05 @ 13:04:49



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 2ND ST N #700
WICHITA KS 67278+3188

ATTN: WES HANSEN

36-13-32W LOGAN

NUSS FARMS 36B #1

Start Date: 2010.01.31 @ 04:20:00

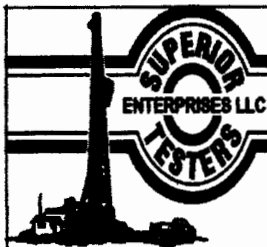
End Date: 2010.01.31 @ 11:06:00

Job Ticket #: 16310 DST #: 4

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2010.02.05 @ 13:04:36

RITCHIE EXPLORATION INC
NUSS FARMS 36B #1
36-13-32W LOGAN
DST # 4
LANSING " I - J - K
2010.01.31



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278+3188

36-13-32W LOGAN

ATTN: WES HANSEN

Job Ticket: 16310

DST#: 4

Test Start: 2010.01.31 @ 04:20:00

GENERAL INFORMATION:

Formation: LANSING " I - J - K

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:18:30

Time Test Ended: 11:06:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320- 65- SCOTT CITY

Interval: 4120.00 ft (KB) To 4250.00 ft (KB) (TVD)

Total Depth: 4250.00 ft (KB) (TVD)

Hole Diameter: 8.88 inches Hole Condition: Fair

Reference Elevations: 2908.00 ft (KB)

2898.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8405

Inside

Press@RunDepth: 151.75 psia @ 4245.00 ft (KB)

Start Date: 2010.01.31

End Date:

2010.01.31

Capacity: 5000.00 psia

Last Calib.: 2010.01.31

Start Time: 04:22:00

End Time:

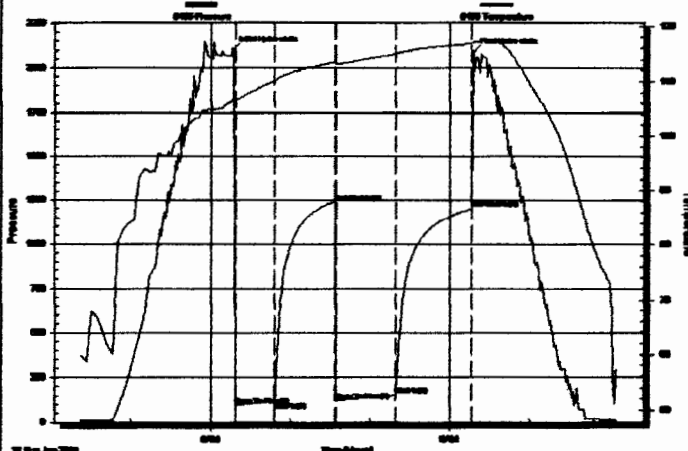
11:06:00

Time On Btm: 2010.01.31 @ 06:17:00

Time Off Btm: 2010.01.31 @ 09:18:00

TEST COMMENT: 30/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT 1 3/4 INTO WATER IN 30 MINUTES
45/INITIAL SHUT IN: NO BLOW BACK
45/FINAL OPEN:VERY WEAK SURFACE BLOW BUILT 1 3/4 INTO WATER IN 45 MINUTES
60/FINAL SHUT IN: NO BLOW BACK

Pressure vs. Time



PRESSURE SUMMARY

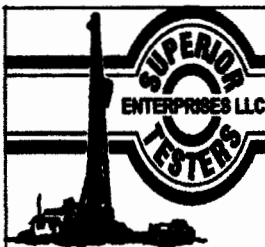
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2100.50	106.76	Initial Hydro-static
2	95.29	106.58	Open To Flow (1)
31	118.65	110.09	Shut-In(1)
77	1238.81	113.55	End Shut-In(1)
78	122.11	113.17	Open To Flow (2)
122	151.75	114.94	Shut-In(2)
180	1198.94	116.88	End Shut-In(2)
181	2090.02	117.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	MUD	0.52

Gas Rates

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



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

8100 E2ND ST N #700
WICHITA KS 67278+3188

ATTN: WES HANSEN

NUSS FARMS 36B #1

36-13-32W LOGAN

Job Ticket: 16310

DST#: 4

Test Start: 2010.01.31 @ 04:20:00

GENERAL INFORMATION:

Formation: LANSING " I - J -K

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:18:30

Time Test Ended: 11:06:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320- 65- SCOTT CITY

Interval: 4120.00 ft (KB) To 4250.00 ft (KB) (TVD)

Total Depth: 4250.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 2908.00 ft (KB)

2898.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8419

Outside

Press@RunDepth: 1194.80 psia @ 4245.00 ft (KB)

Start Date: 2010.01.31

End Date:

2010.01.31

Start Time: 04:21:00

End Time:

11:06:00

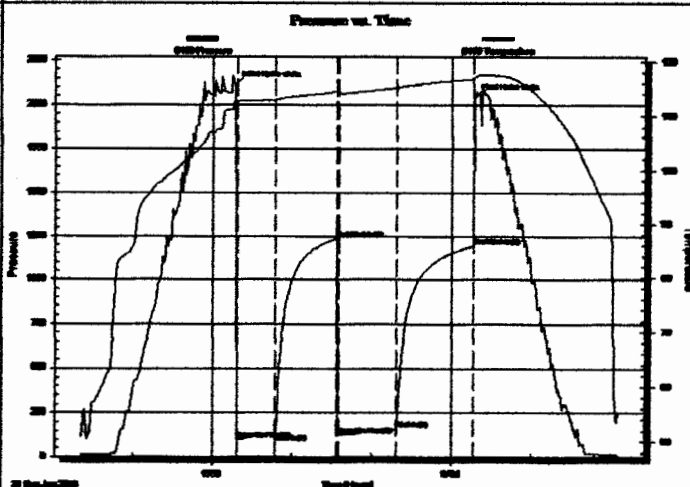
Capacity: 5000.00 psia

Last Calib.: 2010.01.31

Time On Btm: 2010.01.31 @ 06:17:30

Time Off Btm: 2010.01.31 @ 09:17:30

TEST COMMENT: 30/INITIAL OPENWEAK BUT BUILDING BLOW BUILT 1 3/4 INTO WATER IN 30 MINUTES
45/INITIAL SHUT IN: NO BLOW BACK
45/FINAL OPEN: VERY WEAK SURFACE BLOW BUILT 1 3/4 INTO WATER IN 45 MINUTES
60/FINAL SHUT IN: NO BLOW BACK



PRESSURE SUMMARY

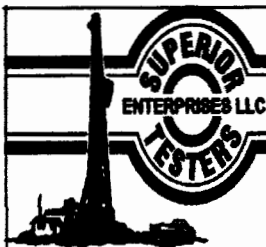
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2108.91	112.98	Initial Hydro-static
1	102.56	112.55	Open To Flow (1)
30	131.56	112.92	Shut-In (1)
76	1236.57	114.40	End Shut-In (1)
78	128.37	114.09	Open To Flow (2)
121	158.92	115.09	Shut-In (2)
179	1194.80	116.77	End Shut-In (2)
180	2040.71	117.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	MUD	0.52

Gas Rates

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

TOOL DIAGRAM

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278+3188

36-13-32W LOGAN

Job Ticket: 16310

DST#: 4

ATTN: WES HANSEN

Test Start: 2010.01.31 @ 04:20:00

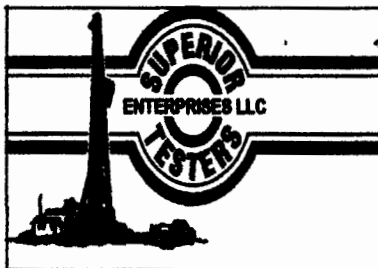
Tool Information

Drill Pipe:	Length: 3545.00 ft	Diameter: 3.80 inches	Volume: 49.73 bbl	Tool Weight: 10000.00 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: 582.00 ft	Diameter: 2.25 inches	Volume: 2.86 bbl	Weight to Pull Loose: 96000.00 lb
		Total Volume:	52.59 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4120.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	130.00 ft			
Tool Length:	151.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4100.00	
Shut-In Tool	5.00			4105.00	
Hydraulic Tool	5.00			4110.00	
Recorder	5.00			4115.00	
Packer	5.00			4120.00	21.00 Bottom Of Top Packer
Change Over Sub	0.75			4120.75	
Drill Pipe	95.50			4216.25	
Change Over Sub	0.75			4217.00	
Perforations	28.00			4245.00	
Recorder	0.00	8405	Inside	4245.00	
Recorder	0.00	8419	Outside	4245.00	
Bullnose	5.00			4250.00	130.00 Anchor Tool

Total Tool Length: 151.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278+3188

36-13-32W LOGAN

Job Ticket: 16310

DST#: 4

ATTN: WES HANSEN

Test Start: 2010.01.31 @ 04:20:00

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
105.00	MUD	0.516

Total Length: 105.00 ft

Total Volume: 0.516 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8405

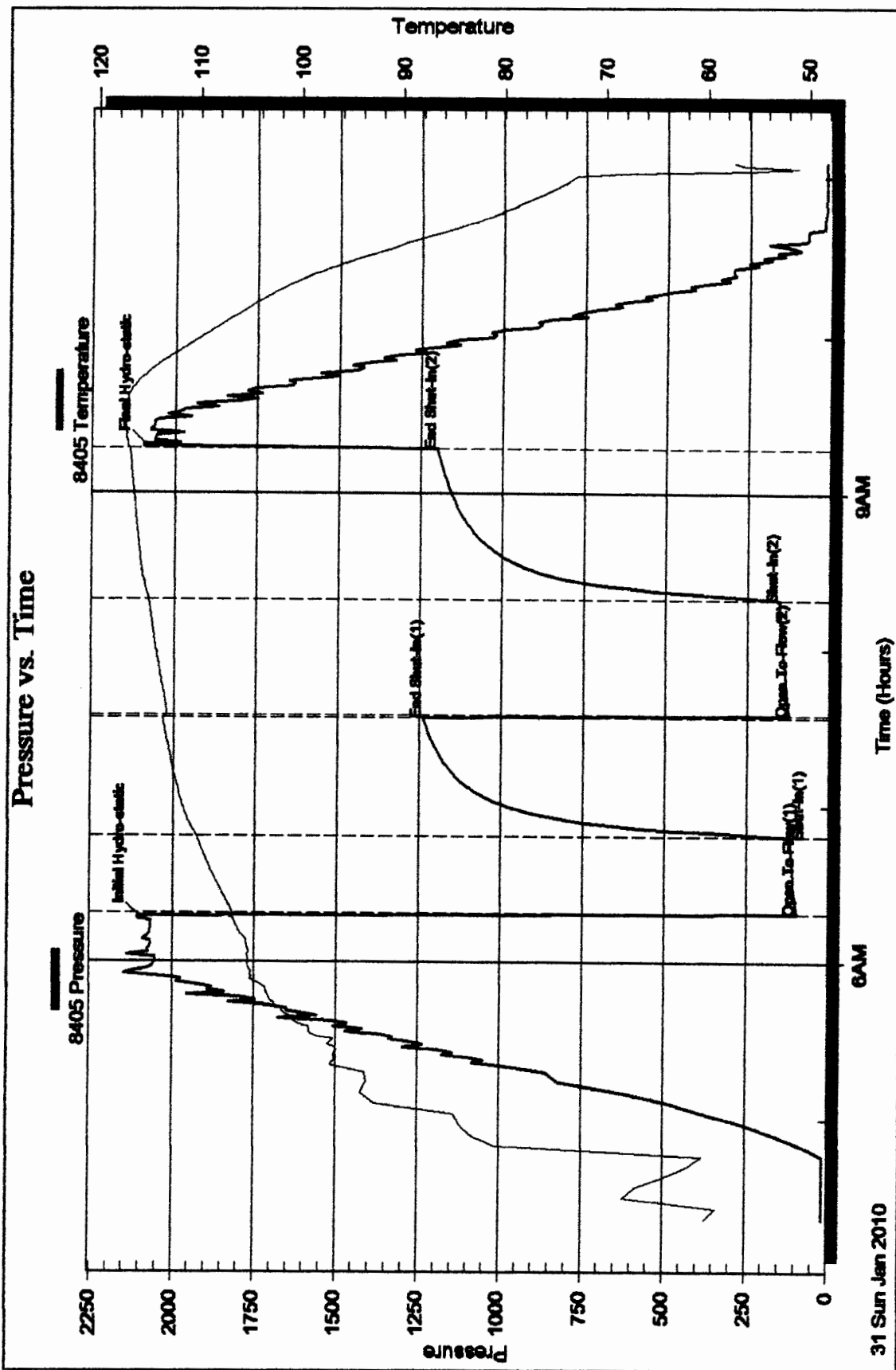
Inside

36-13-32W LOGAN

8405 Pressure

DST Test Number: 4

Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 16310

Printed: 2010.02.05 @ 13:04:37

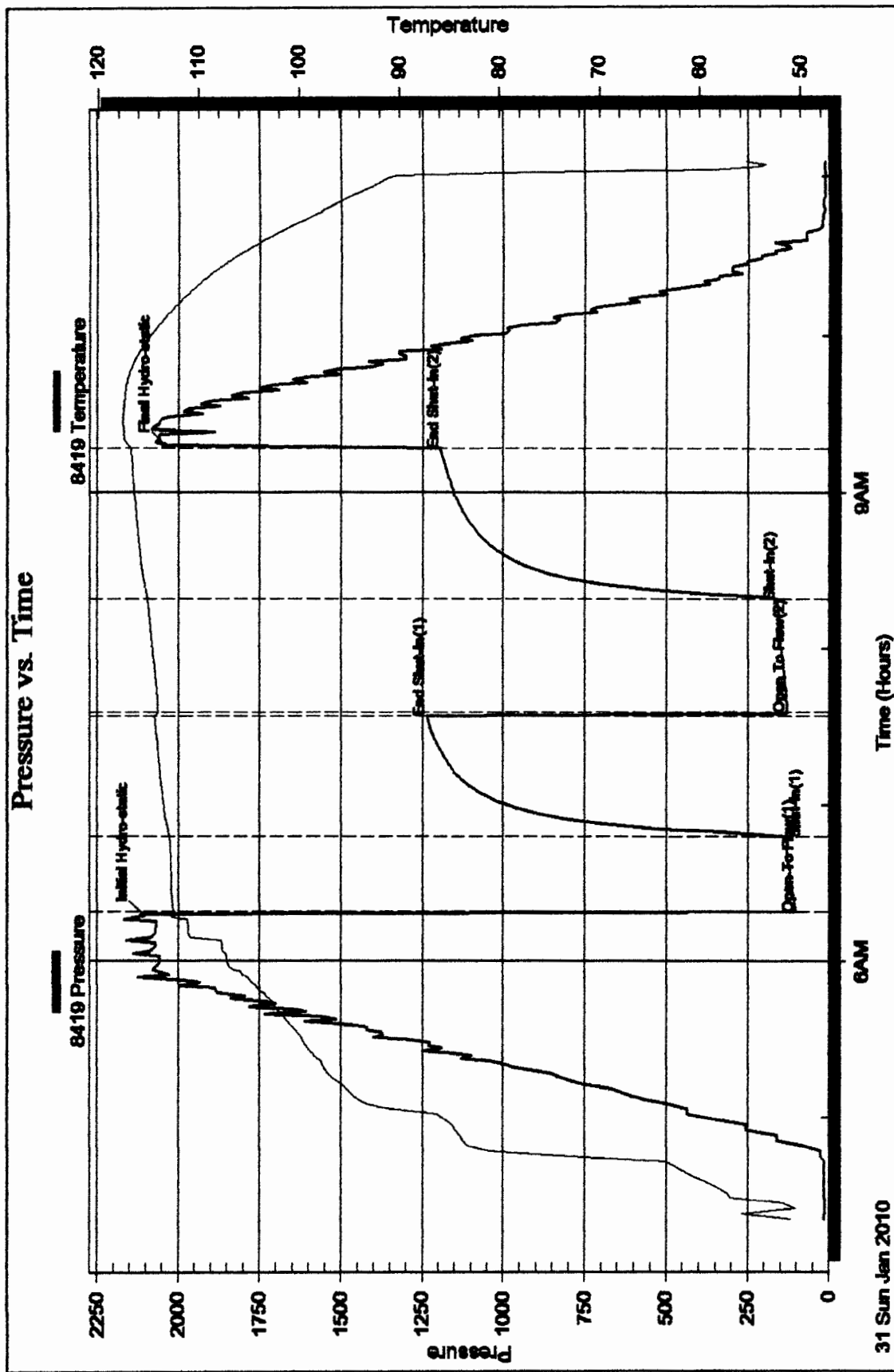
DST Test Number: 4

36-13-32W LOGAN

Serial #: 8419 Outside RITCHEXPLORATION INC

31 Sun Jan 2010

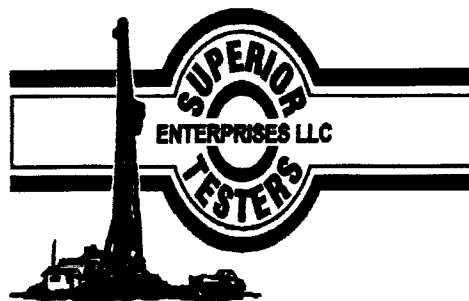
Pressure vs. Time



Printed: 2010.02.05 @ 13:04:37

Ref. No: 16310

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 2ND ST N #700
WICHITA KS 67278+3188

ATTN: WES HANSEN

36-13-32W LOGAN

NUSS FARMS 36B #1

Start Date: 2010.02.01 @ 10:06:00

End Date: 2010.02.01 @ 17:12:30

Job Ticket #: 16311 DST #: 5

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2010.02.05 @ 13:03:04

RITCHIE EXPLORATION INC

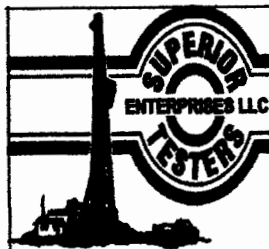
NUSS FARMS 36B #1

36-13-32W LOGAN

DST # 5

JOHNSON ZONE

2010.02.01



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

8100 E 2ND ST N #700
WICHITA KS 67278+3188

ATTN: WES HANSEN

NUSS FARMS 36B #1

36-13-32W LOGAN

Job Ticket: 16311

DST#: 5

Test Start: 2010.02.01 @ 10:06:00

GENERAL INFORMATION:

Formation: JOHNSON ZONE

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:01:30

Time Test Ended: 17:12:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-65-SCOTT CITY

Interval: 4498.00 ft (KB) To 4515.00 ft (KB) (TVD)

Total Depth: 4515.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Poor

Reference Elevations: 2908.00 ft (KB)

2898.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8405 Inside

Press@RunDepth: 177.10 psia @ 4510.00 ft (KB)

Start Date: 2010.02.01

End Date:

2010.02.01

Capacity: 5000.00 psia

Last Calib.:

2010.02.02

Start Time: 10:08:00

End Time:

17:12:30

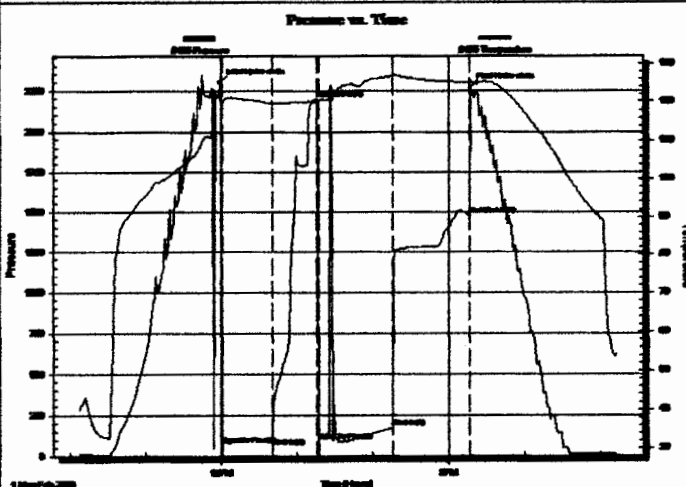
Time On Btm:

2010.02.01 @ 11:59:30

Time Off Btm:

2010.02.01 @ 15:17:30

TEST COMMENT: 30/INITIAL OPEN WEAKE SURFACE BLOW BUILT 1/2 INCH INTO WATER TOOL CHASED 8 FEET TO BOTTOM
45/INITIAL SHUT IN NO BLOW BACK
60/FINAL OPEN WEAKE SURFACE BLOW DID NOT BUILD FLUSHED TOOL 10 MINUTES INTO OPEN WEAKE SURGE DID NOT BUILD TELL 30 MINUTES INTO OPEN THEN BUILT BOTTOM OF BUCKET



PRESSURE SUMMARY

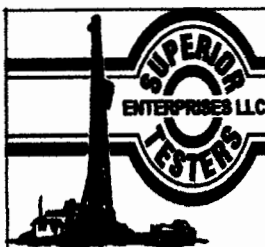
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2299.92	121.45	Initial Hydro-static
2	76.24	119.27	Open To Flow (1)
42	113.61	119.53	Shut-In(1)
77	2204.21	119.94	End Shut-In(1)
78	97.90	120.47	Open To Flow (2)
137	177.10	126.89	Shut-In(2)
197	1481.08	124.92	End Shut-In(2)
198	2269.06	125.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	CLEAN OIL	0.20
285.00	GASSEY M CUT OIL 10%G 15%M 75%1.40	
435.00	GAS IN PIPE	3.76

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mc/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278+3188

36-13-32W LOGAN

Job Ticket: 16311

DST#: 5

ATTN: WES HANSEN

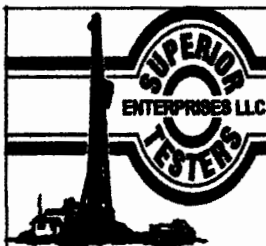
Test Start: 2010.02.01 @ 10:08:00

Tool Information

Drill Pipe:	Length: 3922.00 ft	Diameter: 3.80 inches	Volume: 55.02 bbl	Tool Weight:	10000.00 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: 582.00 ft	Diameter: 2.25 inches	Volume: 2.86 bbl	Weight to Pull Loose:	80000.00 lb
		Total Volume:	57.88 bbl	Tool Chased	8.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	75000.00 lb
Depth to Top Packer:	4498.00 ft			Final	75000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	38.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments: TOOL CHASED 8 FEET TO BOTTOM / FLUSHED TOOL 10 MINUTES INTO 2 ND OPEN / TOOL CHASED THROUGHOUT TEST

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4478.00	
Shut-In Tool	5.00			4483.00	
Hydraulic Tool	5.00			4488.00	
Packer	5.00			4493.00	21.00 Bottom Of Top Packer
Packer	5.00			4498.00	
Perforations	12.00			4510.00	
Recorder	0.00	8405	Inside	4510.00	
Recorder	0.00	8419	Outside	4510.00	
Bullnose	5.00			4515.00	17.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278+3188

36-13-32W LOGAN

Job Ticket: 16311

DST#: 5

ATTN: WES HANSEN

Test Start: 2010.02.01 @ 10:06:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	CLEAN OIL	0.197
285.00	GASSEY M CUT OIL 10%G 15%M 75%O	1.402
435.00	GAS IN PIPE	3.761

Total Length: 760.00 ft

Total Volume: 5.360 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: TOOL CHASED 8 FEET TO BOTTOM / FLUSHED TOOL 10 MINUTES IN TO THE 2ND OPEN

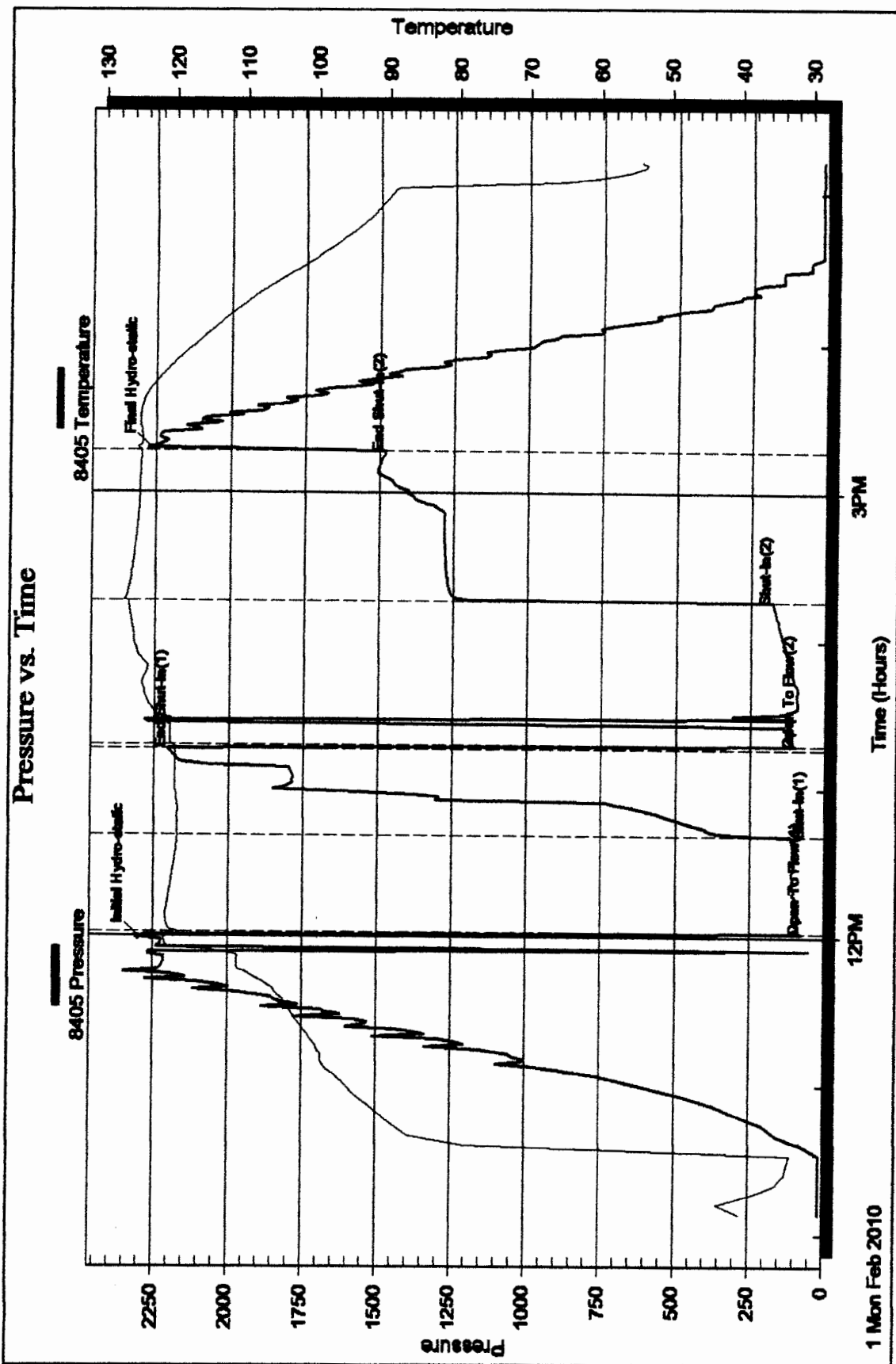
Serial #: 8405

Inside RTCH EXPLORATION INC

36-13-32W LOGAN

DST Test Number: 5

Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 16311

Printed: 2010.02.05 @ 13:03:05

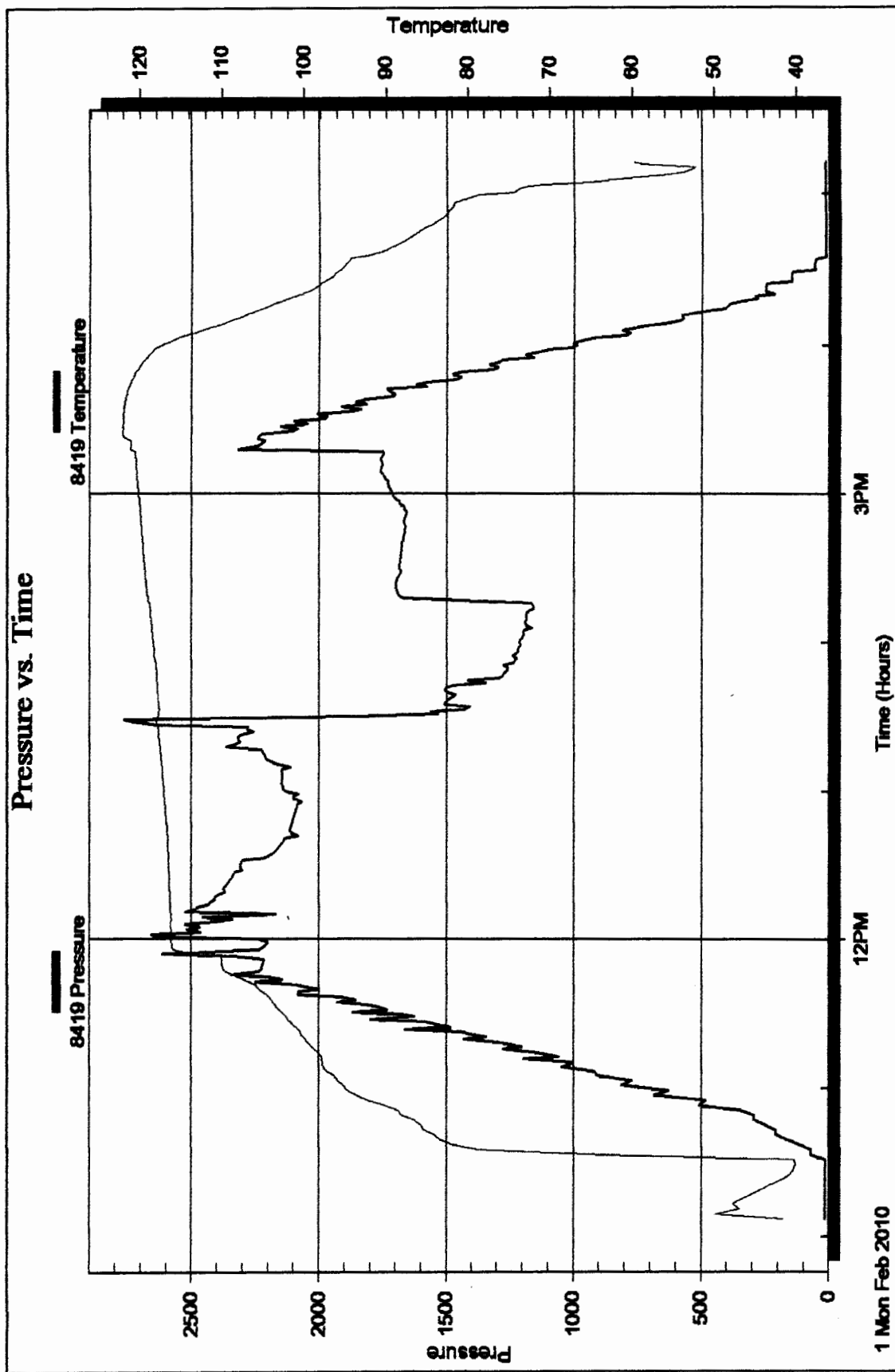
DST Test Number: 5

36-13-32W LOGAN

Outside RITCHIE EXPLORATION INC

Serial #: 8419

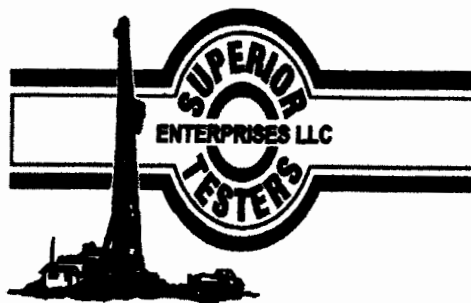
Pressure vs. Time



Printed: 2010.02.05 @ 13:03:05

Ref. No: 16311

Superior Testers Enterprises LLC



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 2ND ST N #700
WICHITA KS 67278+3188

ATTN: WES HANSEN

36-13-32W LOGAN

NUSS FARMS 36B #1

Start Date: 2010.02.01 @ 22:36:00

End Date: 2010.02.02 @ 06:08:30

Job Ticket #: 16312 DST #: 6

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2010.02.05 @ 13:02:52

RITCHIE EXPLORATION INC

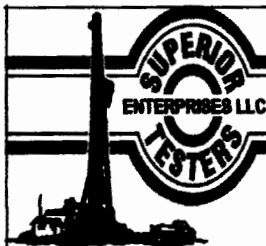
NUSS FARMS 36B #1

36-13-32W LOGAN

DST # 6

JOHNSON ZONE

2010.02.01



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278+3188

36-13-32W LOGAN

Job Ticket: 16312

DST#: 6

ATTN: WES HANSEN

Test Start: 2010.02.01 @ 22:36:00

GENERAL INFORMATION:

Formation: JOHNSON ZONE

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:22:30

Time Test Ended: 06:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-65-SCOTT CITY

Interval: 4487.00 ft (KB) To 4515.00 ft (KB) (TVD)

Total Depth: 4515.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 2908.00 ft (KB)

2898.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8405

Inside

Press@RunDepth: 426.00 psia @ 4510.00 ft (KB)

Start Date: 2010.02.01

End Date:

2010.02.02

Capacity: 5000.00 psia

Last Calib.:

2010.02.02

Start Time: 22:38:00

End Time:

06:08:30

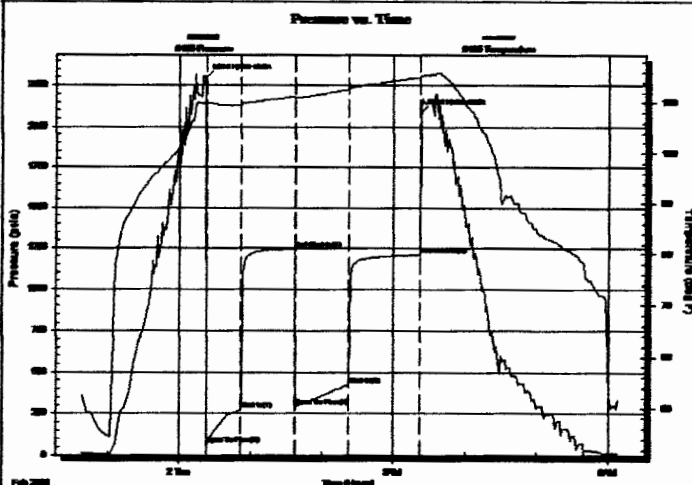
Time On Btm:

2010.02.02 @ 00:22:00

Time Off Btm:

2010.02.02 @ 03:23:00

TEST COMMENT: 30/INITIAL OPEN: STRONG BLOW BUILT BOTTOM OF BUCKET IN 7 MINUTES
45/INITIAL SHUT IN: BLOW BACK BOTTOM OF BUCKET
45/FINAL OPEN: STRONG BLOW BUILT BOTTOM OF BUCKET IN 9 MINUTES
60/FINAL SHUT IN: BOTTOM OF BUCKET



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2298.61	110.04	Initial Hydro-static
1	65.41	110.19	Open To Flow (1)
30	273.26	109.45	Shut-In(1)
75	1246.51	111.22	End Shut-In(1)
76	291.97	110.93	Open To Flow (2)
121	426.00	112.61	Shut-In(2)
180	1211.00	114.93	End Shut-In(2)
181	2081.16	115.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	S G M CUT OIL 10%G 10% M 80%O	0.93
380.00	CLEAN G O 15%G 85%O	1.87
470.00	CLEAN G O 15%G 85%O	6.48
465.00	GAS IN PIPE 100%G	6.52

Gas Rates

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

RITCHIE EXPLORATION INC

8100 E 2ND ST N #700
WICHITA KS 67278-3188

ATTN: WES HANSEN

NUSS FARMS 36B #1

36-13-32W LOGAN

Job Ticket: 16312

DST#: 6

Test Start: 2010.02.01 @ 22:36:00

GENERAL INFORMATION:

Formation: JOHNSON ZONE

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:22:30

Time Test Ended: 06:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-65-SCOTT CITY

Interval: 4487.00 ft (KB) To 4515.00 ft (KB) (TVD)

Total Depth: 4515.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 2908.00 ft (KB)

2898.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8419 Outside

Press@RunDepth: 1212.07 psia @ 4510.00 ft (KB)

Start Date: 2010.02.01

End Date:

2010.02.02

Start Time: 22:37:00

End Time:

06:09:30

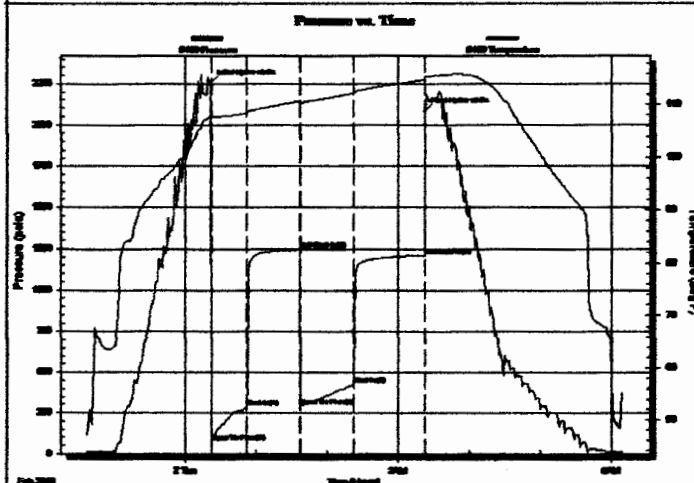
Capacity: 5000.00 psia

Last Calib.: 2010.02.02

Time On Btm: 2010.02.02 @ 00:21:30

Time Off Btm: 2010.02.02 @ 03:22:30

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 7 MINUTES
45/INITIAL SHUT IN: BLOW BACK BOTTOM OF BUCKET
45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 9 MINUTES
60/FINAL SHUT IN:BOTTOM OF BUCKET



PRESSURE SUMMARY

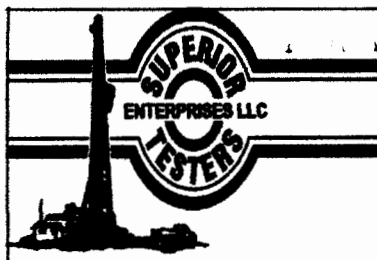
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2256.52	108.17	Initial Hydro-static
1	75.35	107.68	Open To Flow (1)
31	281.57	108.40	Shut-In(1)
76	1247.64	110.72	End Shut-In(1)
76	292.64	110.35	Open To Flow (2)
121	425.85	112.26	Shut-In(2)
181	1212.07	114.71	End Shut-In(2)
181	2081.81	115.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	S G M CUT OIL 10%G 10% M 80%O	0.93
380.00	CLEAN G O 15%G 85%O	1.87
470.00	CLEAN G O 15%G 85%O	6.48
465.00	GAS IN PIPE 100%G	6.52

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcfd)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278+3188

36-13-32W LOGAN

Job Ticket: 16312

DST#: 6

ATTN: WES HANSEN

Test Start: 2010.02.01 @ 22:36:00

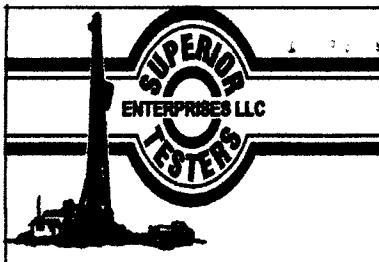
Tool Information

Drill Pipe:	Length: 3891.00 ft	Diameter: 3.80 inches	Volume: 54.58 bbl	Tool Weight: 10000.00 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: 582.00 ft	Diameter: 2.25 inches	Volume: 2.86 bbl	Weight to Pull Loose: 85000.00 lb
			Total Volume: 57.44 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4487.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4467.00	
Shut-In Tool	5.00			4472.00	
Hydraulic Tool	5.00			4477.00	
Packer	5.00			4482.00	21.00 Bottom Of Top Packer
Packer	5.00			4487.00	
Perforations	23.00			4510.00	
Recorder	0.00	8405	Inside	4510.00	
Recorder	0.00	8419	Outside	4510.00	
Bullnose	5.00			4515.00	28.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC

NUSS FARMS 36B #1

8100 E 2ND ST N #700
WICHITA KS 67278+3188

36-13-32W LOGAN

Job Ticket: 16312

DST#: 6

ATTN: WES HANSEN

Test Start: 2010.02.01 @ 22:36:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	S G M CUT OIL 10%G 10% M 80%O	0.934
380.00	CLEAN G O 15%G 85%O	1.869
470.00	CLEAN G O 15%G 85%O	6.484
465.00	GAS IN PIPE 100%G	6.523

Total Length: 1505.00 ft

Total Volume: 15.810 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8405

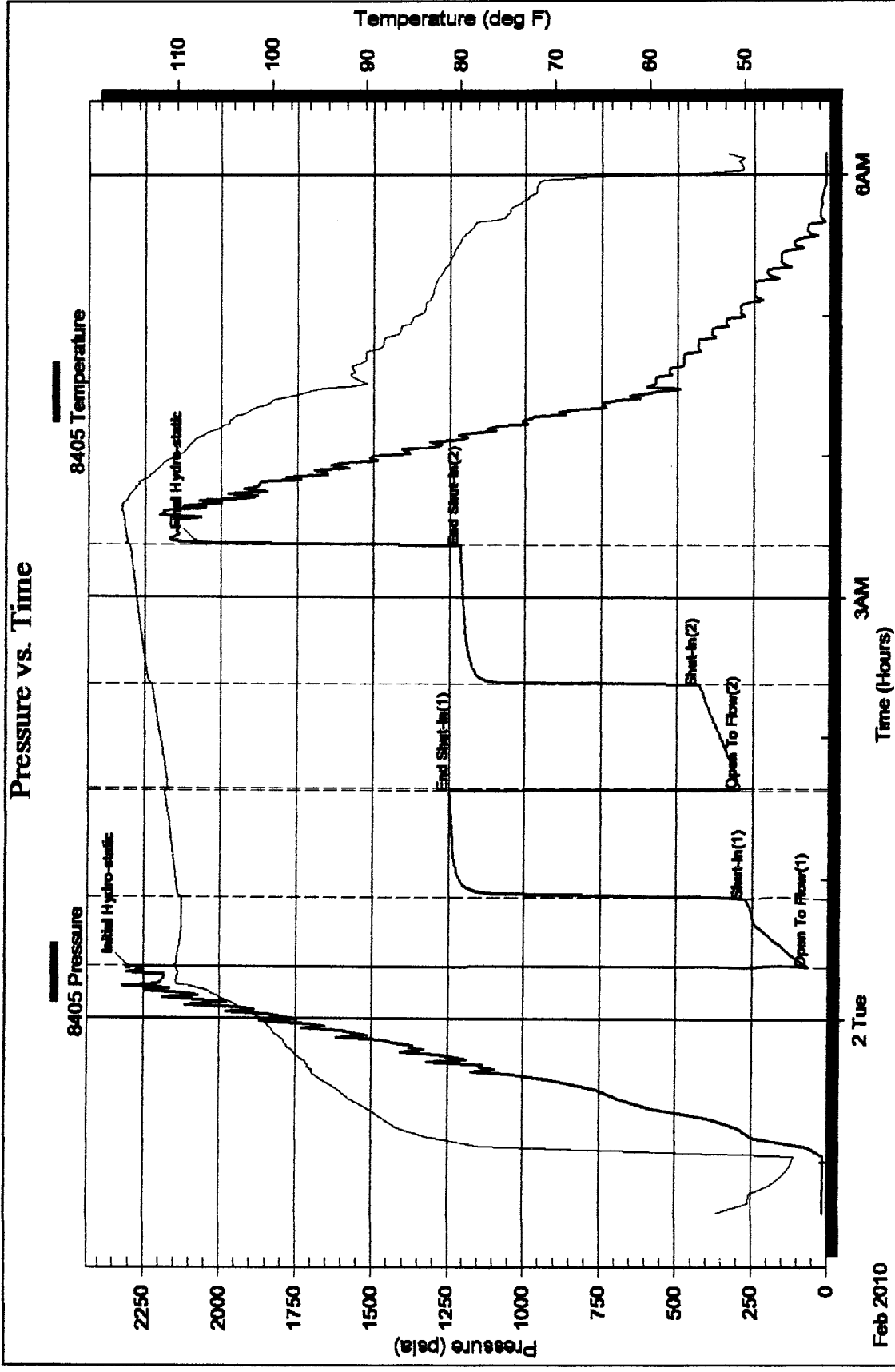
Inside

RTICHE EXPLORATION INC

36-13-32W LOGAN

DST Test Number: 6

Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 16312

Printed: 2010.02.05 @ 13:02:53

Serial #: 8419

Outside

RITCHEXPLORATION INC

36-13-32W LOGAN

DST Test Number: 6

Pressure vs. Time

