

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1218675

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
□ Oil □ WSW □ SHOW □ Gas □ D&A □ ENHR □ SIGW □ OG □ GSW □ Temp. Abd. □ CM (Coal Bed Methane) □ Cathodic □ Other (Core, Expl., etc.): If Workover/Re-entry: Old Well Info as follows:	Producing Formation: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Plug Back Conv. to GSW Conv. to Producer Commingled Permit #: Dual Completion Permit #: SWD Permit #:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) Chloride content: ppm Fluid volume: bbls Dewatering method used: Location of fluid disposal if hauled offsite:
☐ ENHR Permit #: ☐ GSW Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	Quarter Sec. Twp. S. R. East West County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY						
Confidentiality Requested						
Date:						
Confidential Release Date:						
Wireline Log Received						
Geologist Report Received						
UIC Distribution						
ALT I II Approved by: Date:						



Operator Name:			Lease Name: _			Well #:	
Sec Twp	S. R	East West	County:				
open and closed, flow	ring and shut-in pressu	ormations penetrated. Cures, whether shut-in prediction of the pre	essure reached stat	ic level, hydrosta	tic pressures, bot		
		otain Geophysical Data a or newer AND an image		ogs must be ema	illed to kcc-well-lo	gs@kcc.ks.go	v. Digital electronic log
Drill Stem Tests Taken (Attach Additional S		Yes No			on (Top), Depth ar		Sample
Samples Sent to Geol	logical Survey	Yes No	Nam	ie		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING	RECORD N	ew Used			
		Report all strings set-			ion, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADDITIONAL	. CEMENTING / SQI	JEEZE RECORD	<u> </u>	1	
Purpose: Perforate Protect Casing	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives	
Plug Back TD Plug Off Zone							
	ulic fracturing treatment or	n this well? aulic fracturing treatment ex	roed 350 000 gallons	Yes		p questions 2 ar	nd 3)
		submitted to the chemical of	=	Yes	= ' '	out Page Three	of the ACO-1)
Shots Per Foot		N RECORD - Bridge Plug ootage of Each Interval Per			cture, Shot, Cement		d Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:			
TODING RECORD.	OILG.	Jet At.	i aunei Al.		Yes No		
Date of First, Resumed	Production, SWD or ENF	HR. Producing Meth	nod:	Gas Lift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil B	bbls. Gas	Mcf Wat	er B	bls. C	as-Oil Ratio	Gravity
DISPOSITION Vented Sold	ON OF GAS:	N Open Hole	METHOD OF COMPL		mmingled	PRODUCTIO	DN INTERVAL:
	bmit ACO-18.)	Other (Specify)	(Submit		mit ACO-4)		

Form	ACO1 - Well Completion			
Operator	Shelby Resources LLC			
Well Name	Hickey 1-2			
Doc ID	1218675			

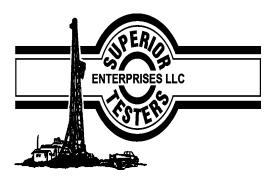
All Electric Logs Run

Dual Induction	
Compensated Neutron	
Micro	
Sonic	
Cement Bond	

Form	ACO1 - Well Completion			
Operator	Shelby Resources LLC			
Well Name	Hickey 1-2			
Doc ID	1218675			

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	838	60/40 Poz	350	2% gel-3% cc
Production	7.875	5.5	14	3449	AA2	100	2% gel-3% cc



Prepared For: Shelby Resources L.L.C

2117 anal Blvd Hays KS 676601

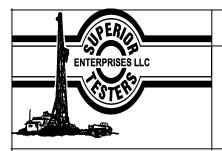
ATTN: Jeremy Schwartz

Hickey 1-2

2-18-14w Barton

Start Date: 2014.07.01 @ 08:00:00 End Date: 2014.07.01 @ 14:39:00 Job Ticket #: 18592 DST #: 1

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



Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Job Ticket: 18592

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2014.07.01 @ 08:00:00

GENERAL INFORMATION:

Formation: Lansing A-F

Time Tool Opened: 09:37:30

Time Test Ended: 14:39:00

Deviated: Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial) Tester: Jared Scheck

Unit No: 3330-Geeat Bend-30

Interval: 3126.00 ft (KB) To 3200.00 ft (KB) (TVD)

Reference Elevations:

1986.00 ft (KB)

Total Depth: 3200.00 ft (KB) (TVD) Hole Diameter:

1977.00 ft (CF)

7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8159

Press@RunDepth: 167.72 psig @ ft (KB) Capacity: 5000.00 psig

Start Date: 2014.07.01 End Date: 2014.07.01 Last Calib.: 2014.07.01 Start Time: 08:00:00 End Time: 14:39:00 Time On Btm: 2014.07.01 @ 09:36:30

Time Off Btm: 2014.07.01 @ 12:55:00

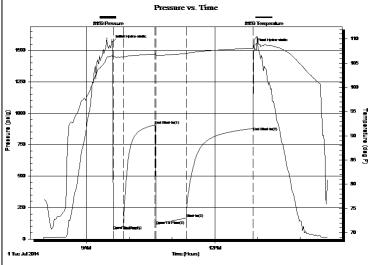
PRESSURE SUMMARY

TEST COMMENT: 1st Opening 15 Minutes-Weak building blow built 3 1/2 inches into water in 15 minutes

1st Shut-in 45 Minutes-No blow back

2nd Opening 45 Minutes-Weak building blow built 5 1/2 inches into water in 45 minute

2ndShut-in 90 Minutes-No blow back



	111200112 001111111111111							
	Time	Pressure	Temp	Annotation				
	(Min.)	(psig)	(deg F)					
	0	1565.28	106.65	Initial Hydro-static				
	1	72.71	106.28	Open To Flow (1)				
	16	102.76	106.25	Shut-In(1)				
	60	906.04	106.87	End Shut-In(1)				
	61	111.70	106.62	Open To Flow (2)				
	104	167.72	106.98	Shut-In(2)				
Tamparatura (dag F)	198	855.30	108.09	End Shut-In(2)				
9	199	1535.38	109.11	Final Hydro-static				
				-				

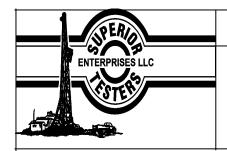
Recovery

Description	Volume (bbl)		
w ater	0.98		
chlorides 30,000	0.00		
	w ater		

Gas Rat	es	
Choko (inchos)	Proceuro (peig)	Cas Pato (Mof/d)

Superior Testers Enterprises LLC Ref. No: 18592

Printed: 2014.07.01 @ 15:58:08



Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Tester:

Unit No:

Job Ticket: 18592

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2014.07.01 @ 08:00:00

GENERAL INFORMATION:

Formation: Lansing A-F

Deviated: Whipstock: ft (KB)

Time Tool Opened: 09:37:30 Time Test Ended: 14:39:00

3126.00 ft (KB) To 3200.00 ft (KB) (TVD) Interval:

Total Depth: 3200.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair Test Type: Conventional Bottom Hole (Initial)

Jared Scheck

3330-Geeat Bend-30

Reference Elevations:

1986.00 ft (KB)

1977.00 ft (CF) KB to GR/CF: 9.00 ft

Serial #: 8524

Press@RunDepth: 876.43 psig @ ft (KB) Capacity: 5000.00 psig

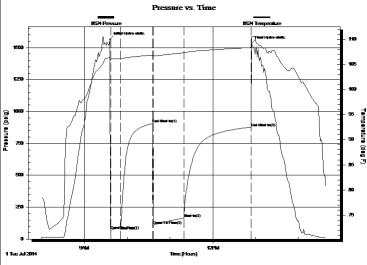
Start Date: 2014.07.01 2014.07.01 Last Calib.: 2014.07.01 End Date: Start Time: 08:00:00 End Time: 14:38:30 Time On Btm: 2014.07.01 @ 09:36:00 Time Off Btm: 2014.07.01 @ 12:54:30

TEST COMMENT: 1st Opening 15 Minutes-Weak building blow built 3 1/2 inches into water in 15 minutes

1st Shut-in 45 Minutes-No blow back

2nd Opening 45 Minutes-Weak building blow built 5 1/2 inches into water in 45 minute

2ndShut-in 90 Minutes-No blow back



Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1564.38	106.38	Initial Hydro-static
	1	69.44	106.08	Open To Flow (1)
	15	99.53	106.09	Shut-In(1)
,	60	904.49	106.85	End Shut-In(1)
3	61	109.49	106.69	Open To Flow (2)
	104	165.76	107.28	Shut-In(2)
•	198	876.43	108.34	End Shut-In(2)
9	199	1532.62	110.34	Final Hydro-static

PRESSURE SUMMARY

Recovery

Description	Volume (bbl)
w ater	0.98
chlorides 30,000	0.00
	w ater

Gas Rates		
Choko (inchos)	Proceuro (peig)	Gas Pato (Mof/d)

Superior Testers Enterprises LLC Ref. No: 18592 Printed: 2014.07.01 @ 15:58:08



TOOL DIAGRAM

Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Job Ticket: 18592

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2014.07.01 @ 08:00:00

Tool Information

Drill Pipe: Length: 2900.00 ft Diameter: 3.8

Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.0

Drill Collar: Length: 210.00 ft Diameter: 2.2

 3.80 inches Volume:
 40.68 bbl

 0.00 inches Volume:
 0.00 bbl

 2.25 inches Volume:
 1.03 bbl

41.71 bbl

Total Volume:

Tool Weight: 1000.00 lb
Weight set on Packer: 20000.00 lb
Weight to Pull Loose: 80000.00 lb
Tool Chased 0.00 ft

Drill Pipe Above KB: 12.00 ft
Depth to Top Packer: 3126.00 ft

Tool Chased 0.00 ft String Weight: Initial 73000.00 lb

Depth to Bottom Packer: ft Interval between Packers: 74.00 ft Tool Length: 102.00 ft

Final 73000.00 lb

Printed: 2014.07.01 @ 15:58:09

Tool Length: 102.00 ft Number of Packers: 2

- 10

6.75 inches

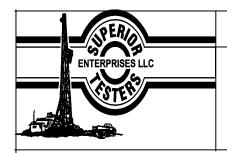
Ref. No: 18592

Diameter:

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3103.00		
Hydraulic tool	5.00			3108.00		
Jars	6.00			3114.00		
Safety Joint	2.00			3116.00		
Packer	5.00			3121.00	28.00	Bottom Of Top Packer
Packer	5.00			3126.00		
Anchor	4.00			3130.00		
Change Over Sub	0.75			3130.75		
Drill Pipe	31.50			3162.25		
Change Over Sub	0.75			3163.00		
Anchor	32.00			3195.00		
Recorder	1.00	8159	Inside	3196.00		
Recorder	1.00	8524	Outside	3197.00		
Bullk Plug	3.00			3200.00	74.00	Bottom Packers & Anchor

Total Tool Length: 102.00



FLUID SUMMARY

Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Job Ticket: 18592

DST#:1

ATTN: Jeremy Schwartz

Test Start: 2014.07.01 @ 08:00:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 50.00 sec/qt Cushion Volume: bbl

Water Loss: 7.20 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 500.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Length Description ft	
200.00	w ater	0.984
0.00	chlorides 30,000	0.000

Total Length: 200.00 ft Total Volume: 0.984 bbl

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

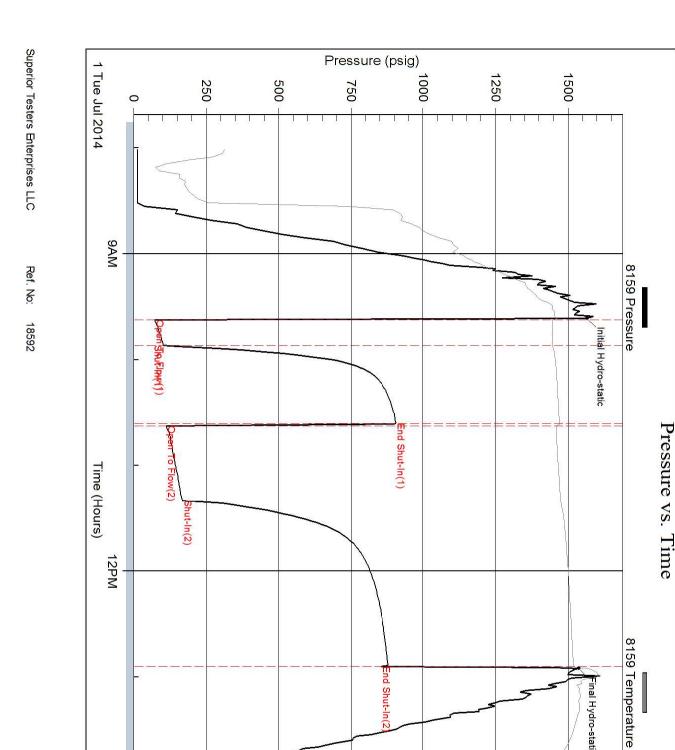
Laboratory Name: Laboratory Location:

Ref. No: 18592

Recovery Comments:

Superior Testers Enterprises LLC

Printed: 2014.07.01 @ 15:58:09



End Shut-In(2

Serial #: 8159

Shelby Resources L.L.C

Hickey 1-2

DST Test Number: 1

Final Hydro-static

110

70

75

80

85

90

Temperature (deg F)

100

95

105

95

100

105

110

90

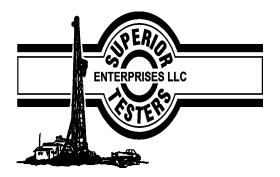
Temperature (deg F)

DST Test Number: 1

75

80

85



Prepared For: Shelby Resources L.L.C

2117 anal Blvd Hays KS 676601

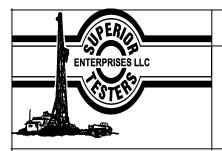
ATTN: Jeremy Schwartz

Hickey 1-2

2-18-14w Barton

Start Date: 2014.07.02 @ 05:00:00 End Date: 2014.07.02 @ 11:47:30 Job Ticket #: 18593 DST #: 2

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



Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Tester:

Unit No:

Job Ticket: 18593

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.02 @ 05:00:00

GENERAL INFORMATION:

Formation: Lansing H-K

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:57:30 Time Test Ended: 11:47:30

3237.00 ft (KB) To 3335.00 ft (KB) (TVD)

Total Depth: 3335.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

3330-Great Bend- 30

Jared Scheck

3330-Great Bend- 30

Reference Elevations: 1986.00 ft (KB)

1977.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8159

Interval:

Press@RunDepth: 89.80 psig @ ft (KB) Capacity: 5000.00 psig

 Start Date:
 2014.07.02
 End Date:
 2014.07.02
 Last Calib.:
 2014.07.02
 2014.07.02

 Start Time:
 05:00:00
 End Time:
 11:47:30
 Time On Btm:
 2014.07.02 @ 06:56:30

 Time Off Btm:
 2014.07.02 @ 10:12:30

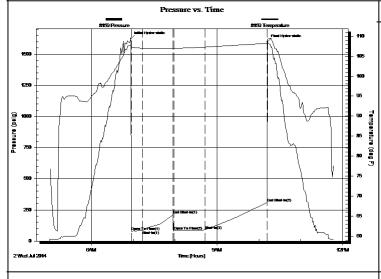
TEST COMMENT: 1st Opening 15 Minutes: Weak building blow built 3 1/2 inches into water in 15 minutes

Ref. No: 18593

1st Shut-in 45 Minutes-No blow back

2nd Opneing 45 Minutes-Weak building blow built 10 inches into water in 45 minutes

2ns Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1625.38	107.56	Initial Hydro-static
1	78.26	107.22	Open To Flow (1)
17	82.67	106.97	Shut-In(1)
61	211.51	106.99	End Shut-In(1)
62	84.40	106.95	Open To Flow (2)
106	89.80	107.26	Shut-In(2)
195	308.04	108.20	End Shut-In(2)
196	1600.07	109.19	Final Hydro-static

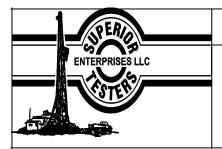
Recovery

Description	Volume (bbl)
gas oil cut mud 10%gas 10%oil 80%mi	ıd0.15
30 gas in pipe	0.00
	gas oil cut mud 10%gas 10%oil 80%mi

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Printed: 2014.07.02 @ 13:01:29



Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Job Ticket: 18593

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.02 @ 05:00:00

GENERAL INFORMATION:

Formation: Lansing H-K

Whipstock: Deviated: ft (KB) Test Type: Conventional Bottom Hole (Initial) Tester: Jared Scheck

Time Tool Opened: 06:57:30

Unit No: 3330-Great Bend- 30

Time Test Ended: 11:47:30

3237.00 ft (KB) To 3335.00 ft (KB) (TVD) Total Depth: 3335.00 ft (KB) (TVD)

Reference Elevations: 1986.00 ft (KB) 1977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8524

Interval:

Press@RunDepth: 306.51 psig @ ft (KB) Capacity: 5000.00 psig

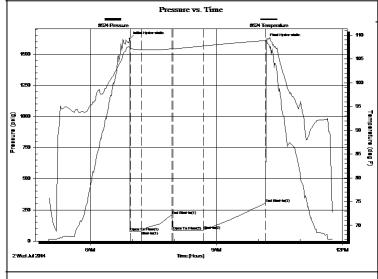
Start Date: 2014.07.02 End Date: 2014.07.02 Last Calib.: 2014.07.02 Start Time: 05:00:00 End Time: 11:47:00 Time On Btm: 2014.07.02 @ 06:56:00 Time Off Btm: 2014.07.02 @ 10:11:30

TEST COMMENT: 1st Opening 15 Minutes: Weak building blow built 3 1/2 inches into water in 15 minutes

1st Shut-in 45 Minutes-No blow back

2nd Opneing 45 Minutes-Weak building blow built 10 inches into water in 45 minutes

2ns Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1624.86	107.57	Initial Hydro-static
1	76.38	107.18	Open To Flow (1)
17	81.44	106.95	Shut-In(1)
60	209.72	107.15	End Shut-In(1)
62	82.33	107.14	Open To Flow (2)
106	87.90	107.75	Shut-In(2)
195	306.51	108.88	End Shut-In(2)
196	1605.06	109.22	Final Hydro-static

Recovery

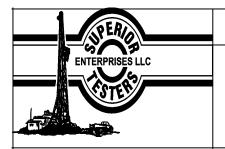
Length (ft)	Description	Volume (bbl)
30.00	gas oil cut mud 10%gas 10%oil 80%mu	ıd0.15
0.00	30 gas in pipe	0.00

Ref. No: 18593

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Printed: 2014.07.02 @ 13:01:29



TOOL DIAGRAM

Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Job Ticket: 18593

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.02 @ 05:00:00

Tool Information

Drill Pipe: Length: 3030.00 ft Diameter: Heavy Wt. Pipe: Length: 0.00 ft Diameter: Drill Collar: Length: 210.00 ft Diameter: 3.80 inches Volume: 42.50 bbl 0.00 bbl 0.00 inches Volume: 2.25 inches Volume: 1.03 bbl

43.53 bbl

Total Volume:

6.75 inches

Ref. No: 18593

Tool Weight: 1000.00 lb Weight set on Packer: 20000.00 lb Weight to Pull Loose: 100000.0 lb

Drill Pipe Above KB: 31.00 ft Depth to Top Packer: 3237.00 ft

Tool Chased 0.00 ft String Weight: Initial 73000.00 lb

Depth to Bottom Packer: ft Interval between Packers: 98.00 ft Tool Length:

126.00 ft

73000.00 lb Final

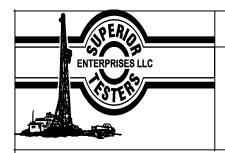
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Number of Packers: 2 Diameter:

Tool Comments:

Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths Shut-In Tool 5.00 3214.00 Hydraulic tool 5.00 3219.00 Jars 6.00 3225.00 Safety Joint 2.00 3227.00 Packer 3232.00 28.00 5.00 Bottom Of Top Packer Packer 5.00 3237.00 Anchor 4.00 3241.00 Change Over Sub 0.75 3241.75 Drill Pipe 63.50 3305.25 Change Over Sub 0.75 3306.00 Anchor 24.00 3330.00 Recorder 1.00 8159 Inside 3331.00 Recorder 1.00 8524 Outside 3332.00 Bullk Plug 3.00 3335.00 98.00 Bottom Packers & Anchor

> **Total Tool Length:** 126.00



FLUID SUMMARY

Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Job Ticket: 18593

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.02 @ 05:00:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 44.00 sec/qt Cushion Volume: bbl

Water Loss: 8.00 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 4800.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	gas oil cut mud 10%gas 10%oil 80%mud	0.148
0.00	30 gas in pipe	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbl

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

Laboratory Name: Laboratory Location:

Ref. No: 18593

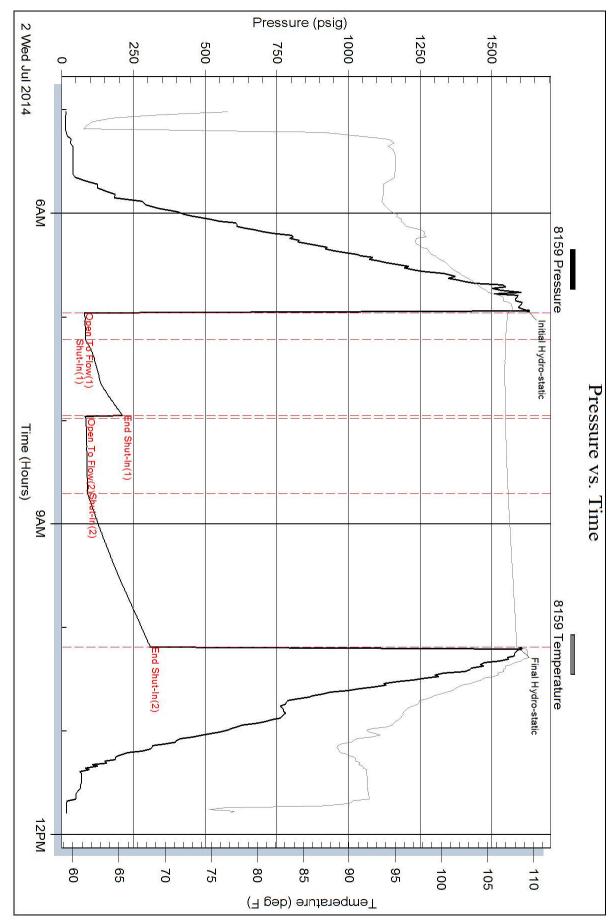
Recovery Comments:

Superior Testers Enterprises LLC

Printed: 2014.07.02 @ 13:01:29

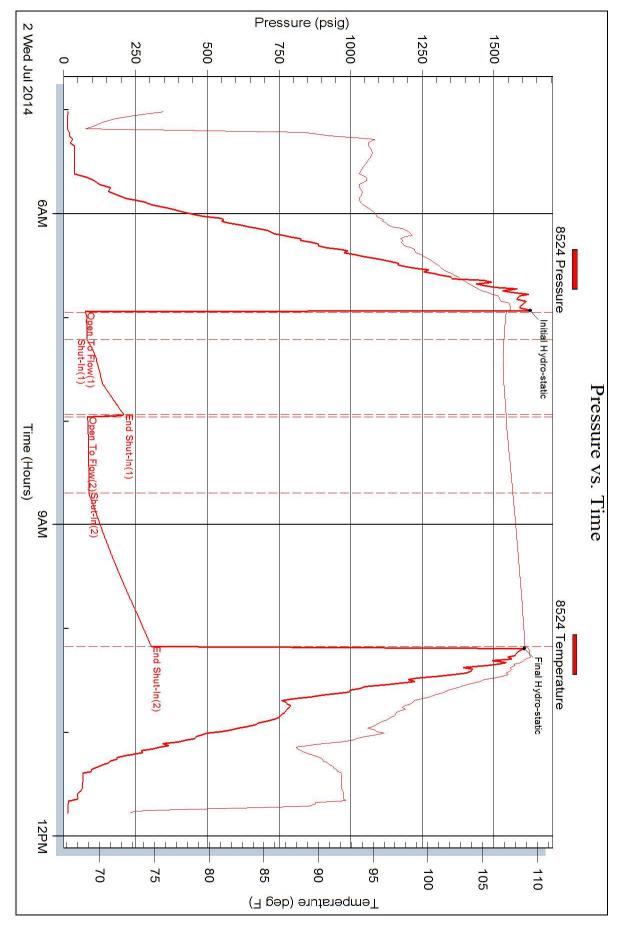
Printed: 2014.07.02 @ 13:01:30

Serial #: 8159



Printed: 2014.07.02 @ 13:01:30

Serial #: 8524



Arbuckle



DRILL STEM TEST REPORT

Prepared For: Shelby Resources L.L.C

2117 anal Blvd Hays KS 676601

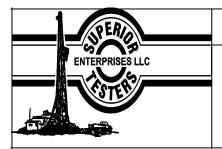
ATTN: Jeremy Schwartz

Hickey 1-2

2-18-14w Barton

Start Date: 2014.07.02 @ 19:43:00 End Date: 2014.07.03 @ 00:53:00 Job Ticket #: 18594 DST #: 3

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



Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Job Ticket: 18594

DST#:3

ATTN: Jeremy Schwartz

Test Start: 2014.07.02 @ 19:43:00

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)
Tester: Jared Scheck
Unit No: 3330-Great Bend-30

Time Tool Opened: 21:23:30 Time Test Ended: 00:53:00

Reference Elevations: 1986.00

 Interval:
 3332.00 ft (KB) To
 3350.00 ft (KB) (TVD)

 Total Depth:
 3350.00 ft (KB) (TVD)

1986.00 ft (KB) 1977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8159

 Press@RunDepth:
 41.34 psig @
 ft (KB)
 Capacity:
 5000.00 psig

 Start Date:
 2014.07.02
 End Date:
 2014.07.03
 Last Calib.:
 2014.07.03

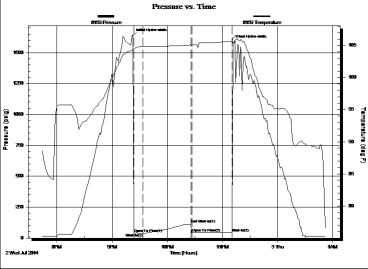
 Start Time:
 19:43:00
 End Time:
 00:53:00
 Time On Btm:
 2014.07.02 @ 21:22:30

 Time Off Btm:
 2014.07.02 @ 23:11:30

TEST COMMENT: 1st Opening 15 Minutes-Weak surface blow built 1/2 inch

1st Shut-in 45 Minutes-No blow back

2nd Opening-Weak surface blow did not build flushed tool good surge did not build pull tool



	PRESSURE SUMMARY				
Ī	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	0	1638.31	104.29	Initial Hydro-static	
	1	41.69	104.46	Open To Flow (1)	
	11	41.34	104.85	Shut-In(1)	
_	64	116.60	105.08	End Shut-In(1)	
ā	65	42.49	105.06	Open To Flow (2)	
Temperature (deg	108	44.08	105.67	Shut-In(2)	
9	109	1583.52	106.19	Final Hydro-static	
J					

DDECCLIDE CLIMANA DV

Recovery

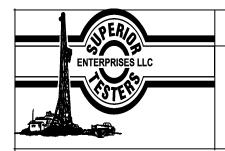
Description	Volume (bbl)
0 spot oil cut mud 1%oil99%mud	
	·

Gas Rates		
Choke (inches)	Proceuro (peig)	Cas Pato (Mof/d)

Superior Testers Enterprises LLC

Ref. No: 18594

Printed: 2014.07.03 @ 02:05:23



Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Tester:

Unit No:

Job Ticket: 18594

DST#: 3

ATTN: Jeremy Schwartz

Test Start: 2014.07.02 @ 19:43:00

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:23:30 Time Test Ended: 00:53:00

Interval: 3332.00 ft (KB) To 3350.00 ft (KB) (TVD)

Total Depth: 3350.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair Test Type: Conventional Bottom Hole (Initial)

Jared Scheck

3330-Great Bend-30

1986.00 ft (KB)

Reference Elevations:

1977.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8524

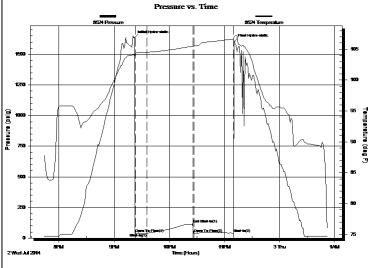
Press@RunDepth: 118.95 psig @ ft (KB) Capacity: 5000.00 psig

Start Date: 2014.07.02 End Date: 2014.07.03 Last Calib.: 2014.07.03 Start Time: 19:43:00 End Time: 00:53:00 Time On Btm: 2014.07.02 @ 21:22:00 Time Off Btm: 2014.07.02 @ 23:11:00

TEST COMMENT: 1st Opening 15 Minutes-Weak surface blow built 1/2 inch

1st Shut-in 45 Minutes-No blow back

2nd Opening-Weak surface blow did not build flushed tool good surge did not build pull tool



	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1637.39	104.05	Initial Hydro-static
	1	38.93	104.22	Open To Flow (1)
	14	39.14	104.51	Shut-In(1)
	64	118.95	105.48	End Shut-In(1)
	65	40.05	105.50	Open To Flow (2)
	108	42.12	106.66	Shut-In(2)
ì	109	1606.50	107.12	Final Hydro-static
9				-

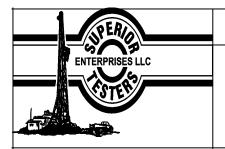
PRESSURE SUMMARY

Recovery

Description	Volume (bbl)
spot oil cut mud 1%oil99%mud	0.02
	·

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

Superior Testers Enterprises LLC Ref. No: 18594 Printed: 2014.07.03 @ 02:05:23



TOOL DIAGRAM

Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Job Ticket: 18594

DST#: 3

ATTN: Jeremy Schwartz

Ref. No: 18594

Test Start: 2014.07.02 @ 19:43:00

Tool Information

 Drill Pipe:
 Length:
 3096.00 ft
 Diameter:
 3.80 inches Volume:
 43.43 bbl

 Heavy Wt. Pipe:
 Length:
 0.00 ft
 Diameter:
 0.00 inches Volume:
 0.00 bbl

 Drill Collar:
 Length:
 210.00 ft
 Diameter:
 2.25 inches Volume:
 1.03 bbl

 Total Volume:
 44.46 bbl

Tool Weight: 1000.00 lb
Weight set on Packer: 20000.00 lb
Weight to Pull Loose: 110000.0 lb

Drill Pipe Above KB: 2.00 ft
Depth to Top Packer: 3332.00 ft

Tool Chased ft String Weight: Initial 73000.00 lb

Depth to Bottom Packer: ft
Interval between Packers: 18.00 ft
Tool Length: 46.00 ft

Final 73000.00 lb

Printed: 2014.07.03 @ 02:05:23

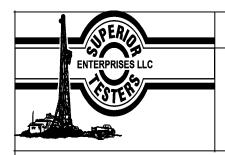
Tool Length: 46.00 ft Number of Packers: 2

kers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3309.00		
Hydraulic tool	5.00			3314.00		
Jars	6.00			3320.00		
Safety Joint	2.00			3322.00		
Top Packer	5.00			3327.00		
Packer	5.00			3332.00	28.00	Bottom Of Top Packer
Anchor	13.00			3345.00		
Recorder	1.00	8159	Inside	3346.00		
Recorder	1.00	8524	Outside	3347.00		
Bull Plug	3.00			3350.00	18.00	Anchor Tool

Total Tool Length: 46.00



FLUID SUMMARY

Shelby Resources L.L.C

2117 anal Blvd Hays KS 676601 **Hickey 1-2**

Job Ticket: 18594 **DST#: 3**

2-18-14w Barton

ATTN: Jeremy Schwartz Test Start: 2014.07.02 @ 19:43:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:44.00 sec/qtCushion Volume:bbl

Water Loss: 8.00 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 4800.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	spot oil cut mud 1%oil99%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:

Ref. No: 18594

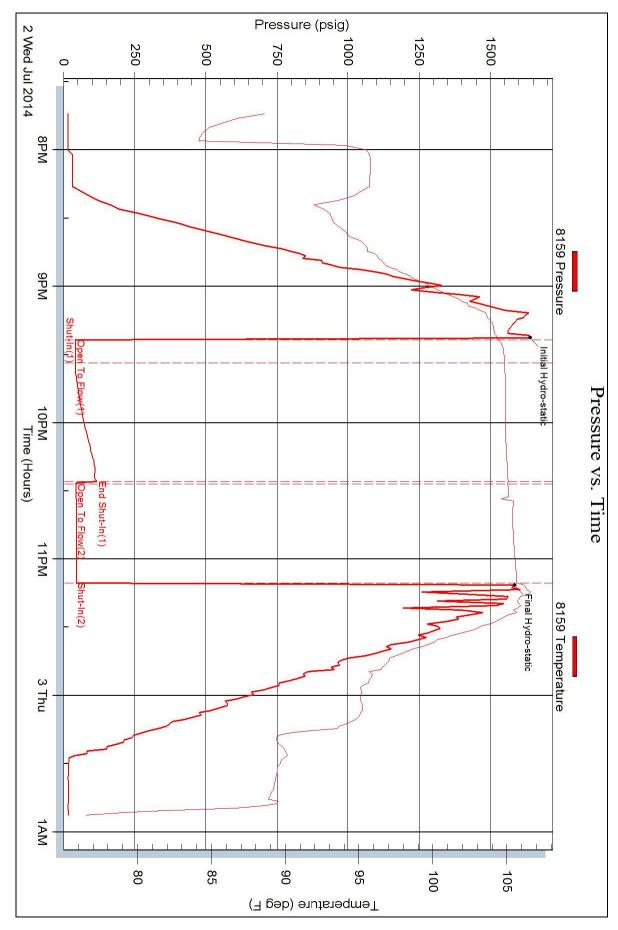
Recovery Comments: ruined packer

Superior Testers Enterprises LLC

Printed: 2014.07.03 @ 02:05:23

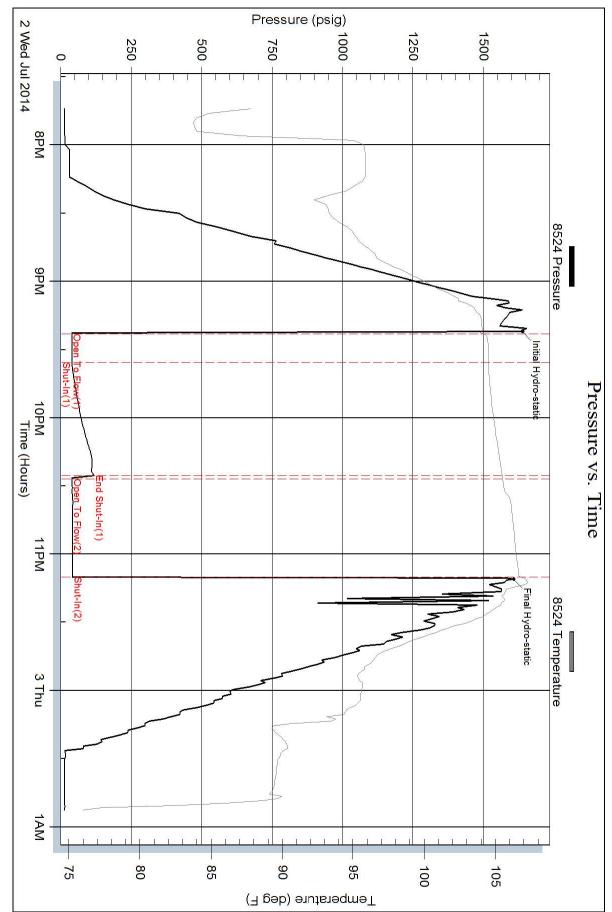
Printed: 2014.07.03 @ 02:05:23

Serial #: 8159



Printed: 2014.07.03 @ 02:05:23

Serial #: 8524



Arbuckle



DRILL STEM TEST REPORT

Prepared For: Shelby Resources L.L.C

2117 anal Blvd Hays KS 676601

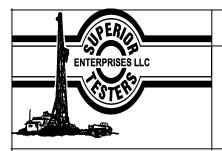
ATTN: Jeremy Schwartz

Hickey 1-2

2-18-14w Barton

Start Date: 2014.07.03 @ 10:20:00 End Date: 2014.07.03 @ 18:41:00 Job Ticket #: 18595 DST #: 4

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



Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Unit No:

Job Ticket: 18595

DST#:4

ATTN: Jeremy Schwartz

Test Start: 2014.07.03 @ 10:20:00

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:05:30 Time Test Ended: 18:41:00

Interval:

3352.00 ft (KB) To 3363.00 ft (KB) (TVD)

Total Depth: 3363.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor Test Type: Conventional Bottom Hole (Initial) Tester: Shane Konzem

3330/30/Great Bend

1986.00 ft (KB) Reference Elevations:

1977.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8524 Inside

Press@RunDepth: 681.43 psig @ 3359.00 ft (KB) Capacity: 5000.00 psig

Start Date: 2014.07.03 End Date: 2014.07.03 Last Calib.: 2014.07.03 Start Time: 10:20:00 End Time: 18:41:00 Time On Btm: 2014.07.03 @ 11:59:30

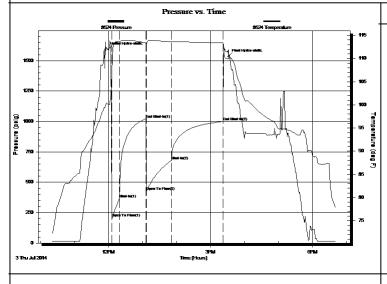
Time Off Btm: 2014.07.03 @ 15:31:00

TEST COMMENT: 1st Open/ 15 Minutes. Strong blow built to bottom of 5 gallon bucket in 45 seconds.

1st Shut In/ 45 Minutes. Blow back built to 10 inches into water.

2nd Open/ 45 Minutes. Strong blow built to bottom of 5 gallon bucket in 1 minute and 15 seconds.

2nd Shut In/ 90 Minutes. Weak surface blow back.



PRESSURE	SUMMARY
INCOUNT	C CIVIIVI VI VI

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1593.77	100.14	Initial Hydro-static
6	210.80	106.73	Open To Flow (1)
20	366.30	113.68	Shut-In(1)
66	1021.50	113.41	End Shut-In(1)
67	426.76	113.02	Open To Flow (2)
112	681.43	113.65	Shut-In(2)
203	1000.03	113.38	End Shut-In(2)
212	1536.27	110.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2296 feet 100% Gas.	0.00
1542.00	100% Oil	19.65
62.00	20% w ater, 20% Gas, 60% oil.	0.87
62.00	40% mud, 30% Water, 15% oil, 15% ga	s 0.87
62.00	50% mud, 35% water, 10% oil, 5% gas	0.87
62.00	30% mud, 65% w ater, 5% oil.	0.87

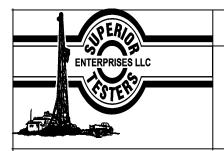
Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Superior Testers Enterprises LLC

Ref. No: 18595

Printed: 2014.07.03 @ 20:04:18



Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Job Ticket: 18595

DST#:4

ATTN: Jeremy Schwartz

Test Start: 2014.07.03 @ 10:20:00

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial) Time Tool Opened: 12:05:30 Tester: Shane Konzem Time Test Ended: 18:41:00 Unit No: 3330/30/Great Bend

Interval: 3352.00 ft (KB) To 3363.00 ft (KB) (TVD)

Total Depth: 3363.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

1986.00 ft (KB) Reference Elevations:

1977.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8159 Outside

Press@RunDepth: 1001.40 psig @ 3360.00 ft (KB) Capacity: 5000.00 psig

Start Date: 2014.07.03 End Date: 2014.07.03 Last Calib.: 2014.07.03 Start Time: 10:20:00 End Time: 18:41:00 Time On Btm: 2014.07.03 @ 12:01:00

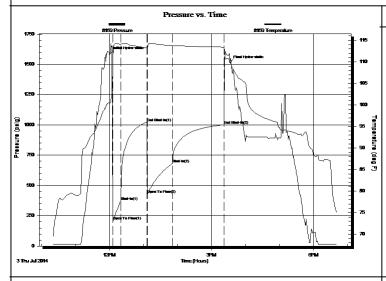
Time Off Btm: 2014.07.03 @ 15:32:30

TEST COMMENT: 1st Open/ 15 Minutes. Strong blow built to bottom of 5 gallon bucket in 45 seconds.

> 1st Shut In/ 45 Minutes. Blow back built to 10 inches into water.

2nd Open/ 45 Minutes. Strong blow built to bottom of 5 gallon bucket in 1 minute and 15 seconds.

2nd Shut In/ 90 Minutes. Weak surface blow back.



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1586.92	100.45	Initial Hydro-static
5	209.29	111.14	Open To Flow (1)
19	372.22	114.09	Shut-In(1)
65	1022.26	113.27	End Shut-In(1)
66	429.92	113.04	Open To Flow (2)
110	682.73	113.77	Shut-In(2)
201	1001.40	113.42	End Shut-In(2)
212	1514.54	109.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2296 feet 100% Gas.	0.00
1542.00	100% Oil	19.65
62.00	20% w ater, 20% Gas, 60% oil.	0.87
62.00	40% mud, 30% Water, 15% oil, 15% ga	s 0.87
62.00	50% mud, 35% w ater, 10% oil, 5% gas	0.87
62.00	30% mud, 65% w ater, 5% oil.	0.87

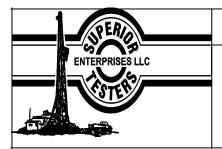
Gas Rates

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

Superior Testers Enterprises LLC

Ref. No: 18595

Printed: 2014.07.03 @ 20:04:19



TOOL DIAGRAM

Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Job Ticket: 18595

DST#:4

ATTN: Jeremy Schwartz

Test Start: 2014.07.03 @ 10:20:00

Tool Information

 Drill Pipe:
 Length:
 3123.00 ft
 Diameter:
 3.80 inches Volume:
 43.81 bbl

 Heavy Wt. Pipe:
 Length:
 0.00 ft
 Diameter:
 0.00 inches Volume:
 0.00 bbl

 Drill Collar:
 Length:
 217.00 ft
 Diameter:
 2.25 inches Volume:
 1.07 bbl

 Total Volume:
 44.88 bbl

Tool Weight: 2000.00 lb
Weight set on Packer: 20000.00 lb
Weight to Pull Loose: 88000.00 lb

Drill Pipe Above KB: 11.00 ft
Depth to Top Packer: 3352.00 ft

Tool Chased 0.00 ft
String Weight: Initial 72000.00 lb

Printed: 2014.07.03 @ 20:04:19

Depth to Bottom Packer: ft
Interval between Packers: 11.00 ft
Tool Length: 34.00 ft

Final 79000.00 lb

Tool Length: 34.00 ft
Number of Packers: 2

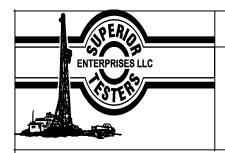
Diameter: 6.75 inches

Ref. No: 18595

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3334.00		
Hydraulic tool	5.00			3339.00		
Jars	6.00			3345.00		
Safety Joint	2.00			3347.00		
Packer	5.00			3352.00	23.00	Bottom Of Top Packer
Anchor	6.00			3358.00		
Recorder	1.00	8524	Inside	3359.00		
Recorder	1.00	8159	Outside	3360.00		
Bull Plug	3.00			3363.00	11.00	Anchor Tool

Total Tool Length: 34.00



FLUID SUMMARY

Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Job Ticket: 18595

DST#:4

ATTN: Jeremy Schwartz

Test Start: 2014.07.03 @ 10:20:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 44.00 sec/qt Cushion Volume: bbl

Water Loss: 8.00 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 4800.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2296 feet 100% Gas.	0.000
1542.00	100% Oil	19.653
62.00	20% w ater, 20% Gas, 60% oil.	0.870
62.00	40% mud, 30% Water, 15% oil, 15% gas	0.870
62.00	50% mud, 35% w ater, 10% oil, 5% gas	0.870
62.00	30% mud, 65% w ater, 5% oil.	0.870
0.00	Chloride recov 24000 ppm	0.000
0.00	resist recovery .22 ohms at 50 degrees.	0.000
0.00	Gravity of oil w as 40 corrected.	0.000

Total Length: 1790.00 ft Total Volume: 23.133 bbl

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

Laboratory Name: Laboratory Location:

Ref. No: 18595

Recovery Comments:

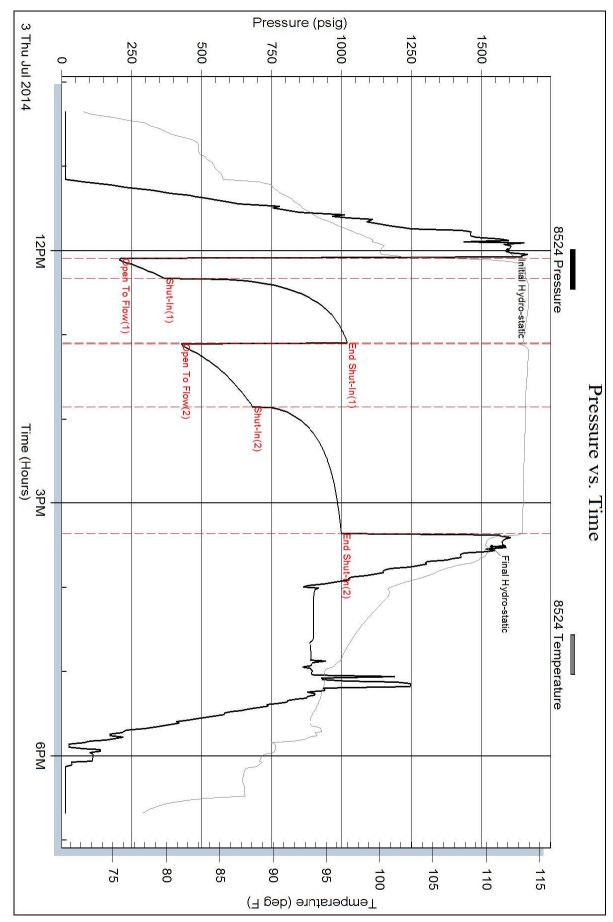
Superior Testers Enterprises LLC

Printed: 2014.07.03 @ 20:04:19

Printed: 2014.07.03 @ 20:04:19

Serial #: 8524

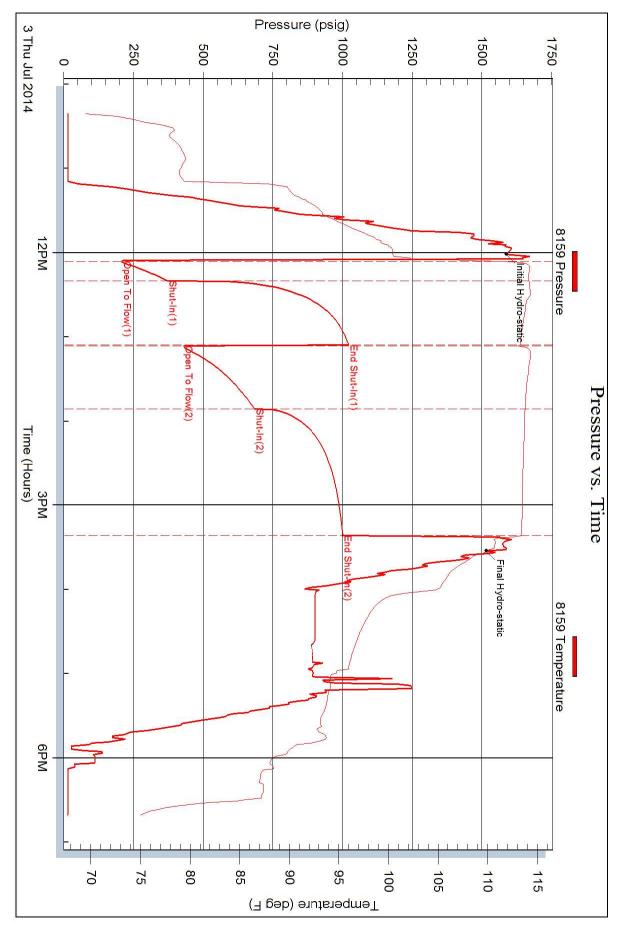
Inside



Printed: 2014.07.03 @ 20:04:19

Serial #: 8159

Outside





Scale 1:240 Imperial

Well Name: Hickey #1-2

Surface Location: 436' FSL_1765' FEL Sec 2-18S-14W

Bottom Location:

API: 15-009-25995-00-00

License Number:

Spud Date: 6/26/2014 Time: 9:00 PM

Region: Barton County

Drilling Completed: 7/4/2014 Time: 2:15 AM

Surface Coordinates: Y = 670651 & X = 1903860

Bottom Hole Coordinates:

Ground Elevation: 1877.00ft K.B. Elevation: 1886.00ft

Logged Interval: 2800.00ft To: 3550.00ft

Total Depth: 3450.00ft Formation: Arbuckle

Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Shelby Resources, LLC Address: 445 Union Blvd, Suite 208

Lakewood, CO 80228

Contact Geologist: Janine Sturdavant

Contact Phone Nbr: 303-907-2209 / 720-274-4682

Well Name: Hickey #1-2

Location: 436' FSL_1765' FEL Sec 2-18S-14W API: 15-009-25995-00-00

Pool: Field: Boyd

State: Kansas Country: USA

LOGGED BY



Company: Shelby Resources, LLC
Address: 445 UNION BLVD. Suite 208

LAKEWOOD, CO. 80228

Phone Nbr: 203-671-6034

Logged By: Geologist Name: Jeremy Schwartz

NOTES

The Shelby Resources, LLC Hickey #1-2 was drilled to a total depth of 3450', bottoming in the Arbuckle. A TookeDaq gas detector was employed in the drilling of said well.

4 DST's were conducted throughout the Lansing Kansas-City and Arbuckle Zones. The DST reports can be found at the bottom of this log.

Due to the DST results, sample shows, gas kicks, and log analysis it was determined by all parties involved to furthur test the well through production pipe. The dry samples were saved and will be available for furthur review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

Respectfully Submitted, Jeremy Schwartz Geologist

Note: Log tops are 2' lower on the Elog compared to the drill time and sample tops

SURFACE CO-ORDINATES

Well Type: Vertical

Longitude: Latitude:

N/S Co-ord: Y = 670651E/W Co-ord: X = 1903860

CONTRACTOR

Contractor: Sterling Drilling Co

Rig #: 4

Rig Type: mud rotary

Spud Date: 6/26/2014 Time: 9:00 PM

TD Date: 7/4/2014 Time: 2:15 AM

Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1886.00ft Ground Elevation: 1877.00ft

K.B. to Ground: 9.00ft

<u>DATE</u>	DEPTH	<u>ACTIVITY</u>
Monday, June 30, 2014	30001	Geologist Jeremy Schwartz on location @ 1330hrs, DRLG ahead through Topeka,
472		Heebner Shale, Toronto, Douglas Shale, Brown Lime, CFS @ 3128', Come out of hole
	3128'	for plugged bit, Resume DRLG through LKC,
Tuesday, July 01, 2014	3150'	DRLG ahead, CFS @ 3170', Resume DRLG, CFS @ 3185', Resume DRLG, CFS @ 3200'
	3200'	Conduct DST #1 in LKC "A-F", Successful Test, Resume DRLG through LKC "G",
		CFS @ 3220', Resume DRLG through Muncie Creek, LKC "H", CFS @ 3291' Resume DRLG
Wednesday, July 02, 2014	3300'	DRLG ahead through Stark Shale, BKC, CFS @ 3335', Conduct DST #2 in LKC "H-K",
	33351	Successful Test, Resume DRLG, CFS @ 3345', Resume DRLG, CFS @ 3350', Conduct DST #3
Thursday, July 03, 2014	3350'	Successful Test, Resume DRLG, CFS @ 3360', Resume DRLG, CFS @ 3363', Conduct DST #4
	3363'	Fluid reversed out into truck, Successful Test, DRLG ahead, CFS @3371', Resume DRLG
Friday, July 04, 2014	3450'	TD of 3450' reached at 0215hrs, CTCH 1hour then OOH, Conduct Logging Operations
		Logging Operations Complete @ 1000hrs
		Geologist Jeremy Schwartz off location @ 1030hrs

CLIENT:	SHELBY RESOURCES, LLC
WELL NAME:	HICKEY #1-2
LEGAL:	NW SE SW SE 2-T18S-R14W
COUNTY:	BARTON
API:	15-009-25995-00-00
DRLG CONTRACTOR:	STERLING DRILLING CO.
RIG#;	4
DOGHOUSE #:	620-388-4192
TOOLPUSHER:	LANNY SALOGA
CELL #:	620-388-4193

				^*			•						•					D	&A			
						MURPH	Y OIL	co.				SHELBY RES	OUR	CES, LL	С		TH	UNDERBIRE	DRIL	LING, I	NC	
_						SPIR	RES #1					SCHLESSIGE	R CAT	TLE #1	- 2			SPIR	ES #1			
		HICKE	Y #1-2		4	CSWSWS	E 2-18	3S-14V	V			N2 SE SE N	E 2-18	8S-14V	ſ			CSW NW SI	2-18	S-14W	100	
	KB		1886		KB		18	391			KB		18	842			KB		1	863		
		TOPS		LE TOPS		. CARD		OG	SM	_		. CARD		0G	SM		COM P.			OG		IPL.
FORMATION	DEPTH	DATUM	DEPTH	The Address of the Control of the Co	DEPTH	DATUM	CO	RR.	CO	RR.	DEPTH	DATUM	CO	RR.	co	RR.	E1867 (357A) 2	DATUM	CC	ORR.	co	RR.
ANHYDRITE TOP	826	1060	826	1060	832	1059	+	1	+	1	788	1054	+	6	+	6	810	1053	+	7	+	7
BASE	850	1036	850	1036	860	1031	+	5	+	5	812	10 30	+	6	+	6						
TOPEKA	2812	-926	2810	-9 24	2810	-919	*	7	- S#K	5	2772	-930	+	4	+	6						
HEEBNER SHALE	3050	-1164	3049	-1163	3050	-1159	4	5	9	4	30 10	-1168	+	4	+	5	30 31	-1168	+	4	+	5
TORONTO	3059	-1173	3060	-1174	3060	-1169	+	4	*	5	30 22	-1180	+	7	+	6	3041	-1178	+	5	+	4
DOUGLAS SHALE	3071	-1185	3069	-1183	3070	-1179		6	*	4	30 34	-1192	+	7	+	9	3053	-1190	+	5	+	7
BROWN LIME	3126	-1240	3123	-1237	3125	-1234	*	6	2	3	3086	-1244	+	4	+	7	3107	-1244	+	4	+	7
TKC	3134	-1248	3135	-1249	3138	-1247		1	-	2	3099	-1257	+	9	+	8	31.20	-1257	+	9	+	8
LKC G	3210	-1324	3208	-1322	3210	-1319		5	6	3	3166	-1324	+	0	+	2	3188	-1325	+	1	+	3
MUNCIE CREEK	3258	-1372	3255	-1369	3262	-1371	12	1	+	2	3220	-1378	+	6	+	9	3242	-1379	+	7	+	10
LKC H	3265	-1379	3260	-1374	3268	-1377	-	2	+	3	3226	-1384	+	5	+	10	3247	-1384	+	5	+	10
STARK S HALE	3315	-1429	3313	-1427	3318	-1427		2	+	0	3276	-1434	+	5	+	7	3297	-1434	+	5	+	7
ВКС	3335	-1449	3333	-1447	3340	-1449	+	0	+	2	3296	-1454	+	5	+	7	3316	-1453	+	4	+	6
CONGLOMERATE	3340	-1454	3335	-1449	3342	-1451		3	+	2							3324	-1461	+	7	+	12
ARBUCKLE	3354	-1468	3352	-1466	3368	-1477		9	+	11	3306	-1464	9	4	-	2	3339	-1476	+	8	+	10
RTD			3450	-1564	3378	-1487			- C-C	77	34 20	-1578			+	14	3397	-1534			-	30
LTD	3453	-1567			3378	-1487	1	80			3419	-1577	+	10			3400	-1537	-3:	30		
						<u>TE</u> S	STED				ğ	TES	STED					TES	TED			

PROG	INOSIS	
ANHYDRITE TOP	825	1061
HEEBNER SHALE	3040	-1154
LKC	3130	-1244
BKC	3330	-1444
ARBUCKLE	3354	-1468
RTD	3450	-1564

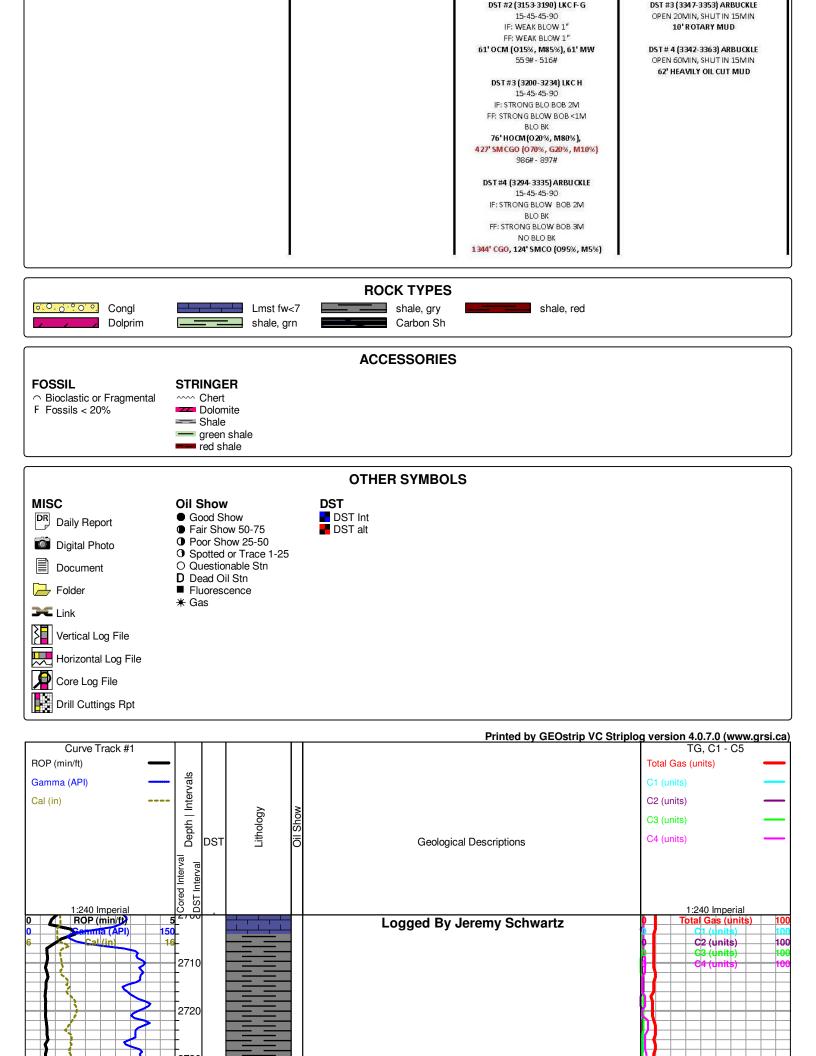
Arbuckle Abandoned Producer IP 203 BOPD Arbuckle Open Hole Completed 10' OH (-1477 to -1487)

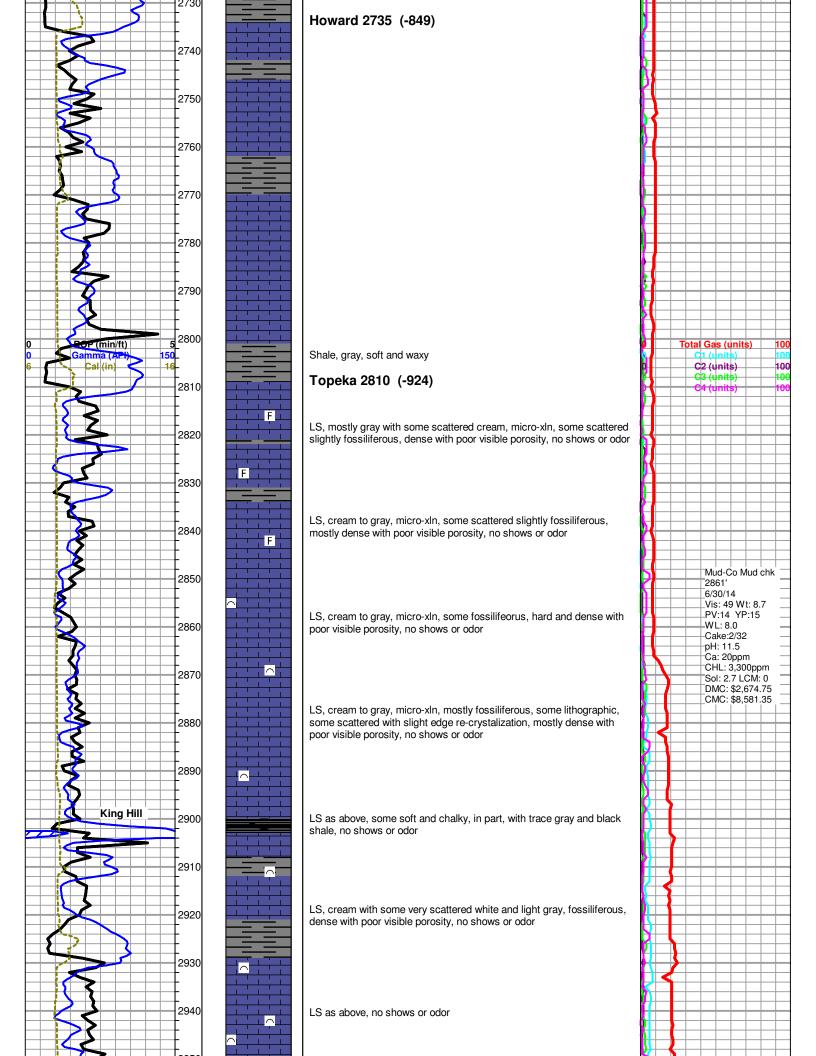
> Cum Prod 143,150 BO 1952 -1996

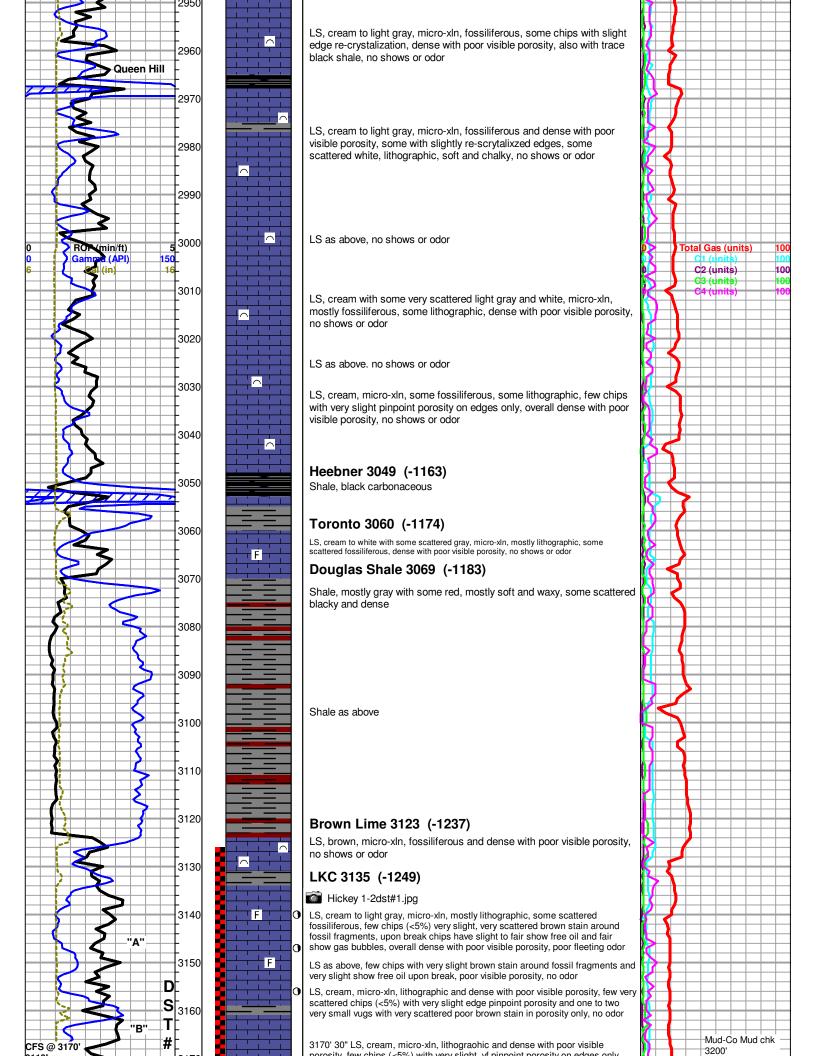
DST #1 (309 3-3154) LKC A-D 15-45-45-90 IF: BOB 8M

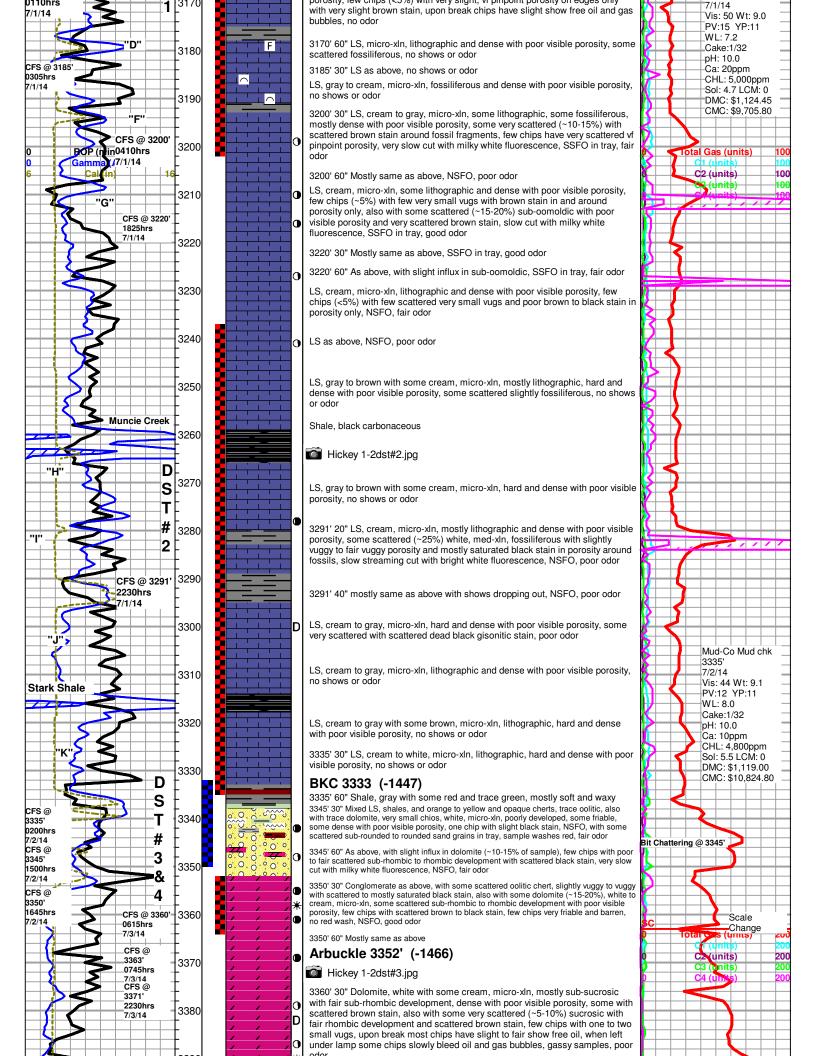
FF: STRONG BLOW BOB 1M 244' SMCGO (050%, G40%, M10%) 244' HMCO (070%, M30%) SIP: 908 - 887# DST#1 (3187-3197) LKC G
OPEN 30MIN, SHUT IN 15MIN
20'ROTARY MUD W/FEW SPECKS OIL

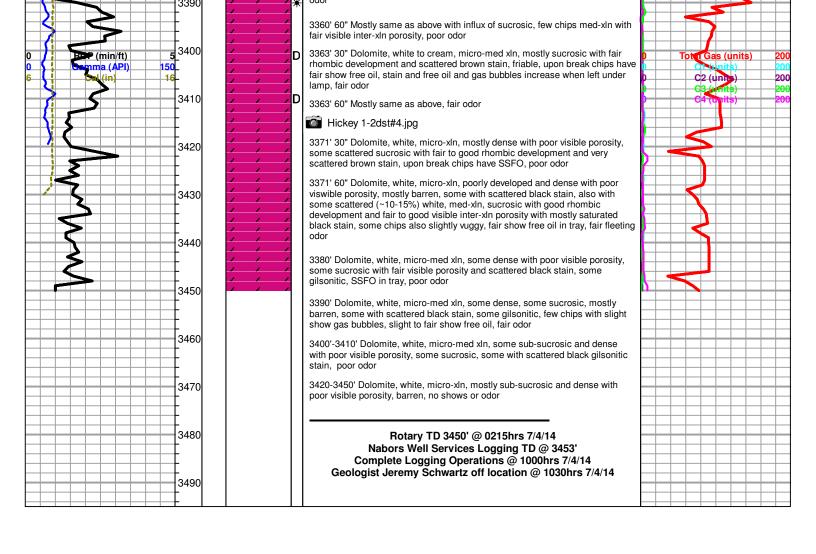
DST #2 (3346-3349) ARBUCKLE
OPEN 30MIN, SHUT IN 15MIN
9' ROTARY MUD











Hickey 1-2dst#1.jpg



DRILL STEM TEST REPORT

Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Test Type:

Job Ticket: 18592 DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2014.07.01 @ 08:00:00

GENERAL INFORMATION:

Lansing A-F Formation:

Deviated: No Whipstock: ft (KB)

Tester: Jared Scheck

Time Tool Opened: 09:37:30 Time Test Ended: 14:39:00

Unit No: 3330-Geeat Bend-30

Interval:

Total Depth:

3126.00 ft (KB) To 3200.00 ft (KB) (TVD)

Reference Bevations:

1986.00 ft (KB)

Hole Diameter:

3200.00 ft (KB) (TVD)

1977.00 ft (CF)

KB to GR/CF:

9.00 ft

7.88 inches Hole Condition: Fair

Serial #: 8159 Press@RunDepth:

167.72 psig @

ft (KB) End Date:

Capacity: 2014.07.01 Last Calib.:

5000.00 psig 2014.07.01

Conventional Bottom Hole (Initial)

Start Date:

2014.07.01

14:39:00 End Time:

Time On Btm:

2014.07.01 @ 09:36:30

Start Time:

08:00:00

Time Off Btm:

2014.07.01 @ 12:55:00

TEST COMMENT: 1st Opening 15 Minutes-Weak building blow built 3 1/2 inches into water in 15 minutes 1st Shut-in 45 Minutes-No blow back

2nd Opening 45 Minutes-Weak building blow built 5 1/2 inches into water in 45 minute

2ndShut-in 90 Minutes-No blow back

			SK9 Pes	Pressure			9 Temperature		
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Pressure (paig)	750			 					- 90
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	250	1/			/			1	- 80 - 75
				 p====(2)			, ha	_	, 70
١,	Ties Jul :	2014	-	Time (Hours)	ч			-

		PI	RESSUR	RE SUMMARY
1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1565.28	106.65	Initial Hydro-static
	1	72.71	106.28	Open To Flow (1)
	16	102.76	106.25	Shut-ln(1)
_	60	906.04	106.87	End Shut-In(1)
ā	61	111.70	106.62	Open To Flow (2)
Temperature (deg F)	104	167.72	106.98	Shut-In(2)
90	198	855.30	108.09	End Shut-In(2)
3	199	1535.38	109.11	Final Hydro-static

	Recovery	
Length (ft)	Description	Volume (bbl)
200.00	water	0.98
0.00	chlorides 30,000	0.00
·		
•		

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

Superior Testers Enterprises LLC

Ref. No: 18592

Printed: 2014.07.01 @ 15:58:08

Hickey 1-2dst#2.jpg



DRILL STEM TEST REPORT

Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Job Ticket: 18593

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.02 @ 05:00:00

GENERAL INFORMATION:

Formation: Lansing H-K

Time Test Ended: 11:47:30

Deviated: No Whipstock: Time Tool Opened: 06:57:30

ft (KB)

Test Type: Conventional Bottom Hole (Initial) Jared Scheck

Tester:

Unit No: 3330-Great Bend- 30

Reference Bevations:

1986.00 ft (KB)

Interval: 3237.00 ft (KB) To 3335.00 ft (KB) (TVD) Total Depth: 3335.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

1977.00 ft (CF) KB to GR/CF: 9.00 ft

Serial #: 8159 Press@RunDepth:

89.80 psig @

ft (KB)

Capacity: Last Calib.:

5000.00 psig 2014.07.02

Start Date:

2014.07.02

End Date:

2014.07.02 11:47:30

Time On Btm:

2014.07.02 @ 06:56:30

Start Time:

05:00:00

End Time:

Time Off Btm:

2014.07.02 @ 10:12:30

TEST COMMENT: 1st Opening 15 Minutes:Weak building blow built 3 1/2 inches into water in 15 minutes 1st Shut-in 45 Minutes-No blow back

2nd Opneing 45 Minutes-Weak building blow built 10 inches into water in 45 minutes

2ns Shut-in 90 Minutes-No blow back

					Pro	essure vs. T	ime			
				819 Pressure				199 Temperature		
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24	Wed Jul :	2014				Time (Hours)				

	PRESSURE SUMMARY									
	Time	Pressure	Temp	Annotation						
Temperature (dep F)	(Min.)	(psig)	(deg F)							
	0	1625.38	107.56	Initial Hydro-static						
	1	78.26	107.22	Open To Flow (1)						
Temperature (deg	17	82.67	106.97	End Shut-In(1)						
	61	211.51	106.99							
	62	84.40	106.95							
	106	89.80	107.26	Shut-In(2)						
	195	308.04	108.20	End Shut-In(2)						
3	196	1600.07	109.19	Final Hydro-static						

Recovery

Length (ft)	Description	Volume (bbl)			
30.00	gas oil cut mud 10%gas 10%oil 80%mi	ıd0.15			
0.00	30 gas in pipe	0.00			

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

Superior Testers Enterprises LLC

Ref. No: 18593

Printed: 2014.07.02 @ 13:01:29

Hickey 1-2dst#3.jpg



DRILL STEM TEST REPORT

Shelby Resources L.L.C

2-18-14w Barton

2117 anal Blvd Hays KS 676601

Hickey 1-2

Job Ticket: 18594

DST#: 3

ATTN: Jeremy Schwartz

Test Start: 2014.07.02 @ 19:43:00

GENERAL INFORMATION:

Formation: Arbuckle Time Tool Opened: 21:23:30

Time Test Ended: 00:53:00

ft (KB) Deviated: No Whipstock:

Test Type: Conventional Bottom Hole (Initial) Tester: Jared Scheck

Unit No: 3330-Great Bend-30

Interval: 3332.00 ft (KB) To 3350.00 ft (KB) (TVD)

3350.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair Reference Bevations: 1986.00 ft (KB) 1977.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8159

Total Depth:

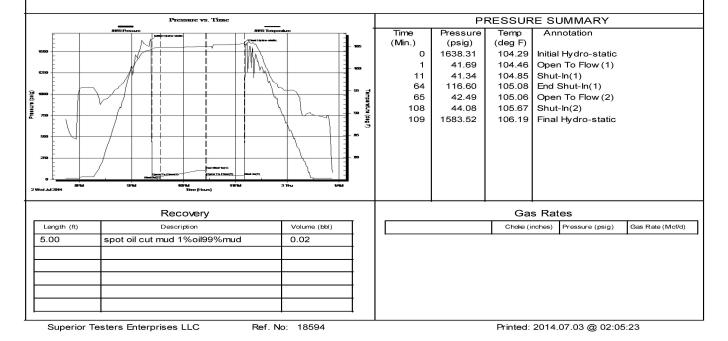
Press@RunDepth: 41.34 psig @ ft (KB)

5000.00 psig Capacity: 2014.07.02 End Date: 2014.07.03 Last Calib .: 2014.07.03

Start Date: Time On Btm: 2014.07.02 @ 21:22:30 Start Time: 19:43:00 00:53:00 End Time: Time Off Btm: 2014.07.02 @ 23:11:30

TEST COMMENT: 1st Opening 15 Minutes-Weak surface blow built 1/2 inch 1st Shut-in 45 Minutes-No blow back

2nd Opening-Weak surface blow did not build flushed tool good surge did not build pull tool



Hickey 1-2dst#4.jpg



DRILL STEM TEST REPORT

Shelby Resources L.L.C 2-18-14w Barton

Hickey 1-2 2117 anal Blvd Hays KS 676601

Job Ticket: 18595 DST#: 4 ATTN: Jeremy Schwartz Test Start: 2014.07.03 @ 10:20:00

Capacity:

GENERAL INFORMATION:

Formation: Arbuckle

ft (KB) Test Type: Conventional Bottom Hole (Initial) Deviated: No Whipstock:

Time Tool Opened: 12:05:30 Time Test Ended: 18:41:00 Tester: Shane Konzem Unit No: 3330/30/Great Bend

Interval: 3352.00 ft (KB) To 3363.00 ft (KB) (TVD)

Total Depth: 3363.00 ft (KB) (TVD)

1986.00 ft (KB) Reference Bevations: 1977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 8524 Inside Press@RunDepth:

3359.00 ft (KB)

5000.00 psig

Start Date:

681.43 psig @ 2014.07.03 End Date:

Last Calib.: 2014.07.03 2014.07.03 @ 11:59:30 Time On Btm:

Start Time: 10:20:00

Time Off Btm: 2014.07.03 @ 15:31:00

TEST COMMENT: 1st Open/ 1st Shut In/ 15 Minutes. Strong blow built to bottom of 5 gallon bucket in 45 seconds.

45 Minutes. Blow back built to 10 inches into water. 2nd Open/

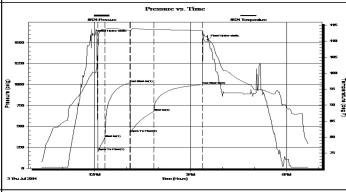
45 Minutes. Strong blow built to bottom of 5 gallon bucket in 1 minute and 15 seconds.

2014.07.03

18:41:00

2nd Shut In/ 90 Minutes. Weak surface blow back.

End Time:



	PRESSURE SUMMARY									
1	Time	Pressure	Temp	Annotation						
	(Min.)	(psig)	(deg F)							
	0	1593.77	100.14	Initial Hydro-static						
	6	210.80	106.73	Open To Flow (1)						
	20	366.30	113.68	Shut-In(1)						
Tamparatura (dao	66	1021.50	113.41	End Shut-In(1)						
	67	426.76	113.02	Open To Flow (2)						
	112	681.43	113.65	Shut-In(2)						
	203	1000.03	000.03 113.38 End Shut-In(2)							
9	212	1536.27	110.05	Final Hydro-static						

Recovery Length (ft) Description Volume (bbl) 0.00 2296 feet 100% Gas. 0.00 1542.00 100% Oil 19.65 62.00 20% w ater, 20% Gas, 60% oil. 0.87 62.00 40% mud, 30% Water, 15% oil, 15% gas 0.87 62.00 50% mud, 35% water, 10% oil, 5% gas 0.87 62.00 30% mud, 65% water, 5% oil.

Gas Rates									
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)						
	-	•							

Superior Testers Enterprises LLC

Ref. No: 18595

Printed: 2014.07.03 @ 20:04:18

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

hone 785-483-2025 Cell 785-324-1041	Home Office P.	P.O. Box 32 Russell, KS 67665 No. 504
Sec	. Twp. Range	County
Date 6 27-14 2	18 14	On Location Finish
alm viste inggette i		Barton KS 6:45 P
Lease Hickey &	Well No. /-)	Location 281 + 4 Hay 25 1/2 E N 1040
Contractor Stecling #		Owner To Quality Oilwell Cementing, Inc.
Type Job Surface	Parl sisting	TOU are nereny requested to
Hole Size / //	T.D. 841'	cementer and helper to assist owner or contractor to do work as listed
Csg. 4 5/8	Depth & 41	To Shelby Resources
Tbg. Size	Depth	Street
Tool		City State
Cement Left in Csg. 23.44	Depth	The above was done to satisfaction and supervision of owner agent or contract
Meas Line	Shoe Joint 23.98	Cement Amount Ordered 350 6/40 3 0 5 26
EQUIP	Displace 52 bb /	A LANCE STORAGE
No Cementer		Common
Dulled No. Driver C	1att	Poz. Mix 140
No. Driver	yton lytor	Gel. 7
The UTP	†!	Calcium /3
JOB SERVICES Remarks:	& HEMARKS	Hulls
Rat Hole	A Piral Marian Land Maria	Salt
		Flowseal
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
		Handling 370
		Mileago
		85/4 FLOAT EQUIPMENT
		Guide Shoe - /
		Centralizer
Cement	A STATE OF THE STA	Baskets
		AFU Inserts
		Float Shoe
Lir cutat	Pr	Latch Down
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Total Charge



TREATMENT REPORT

stomer SHSIBY-REC				Lease No.						Date					
Lease JI, ch	ley			Well#	>	######################################			. 2	07	7_	04-	-14		
Field Order # Station PLA TI KS				Cooing Donth			County BARTON S					State	S		
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PIPE		PERFO	RATIN	G DATA	5	FLUID U	SED	14		TF	REAT	MENT	RESUME		
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