

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

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:

Operator Name: _____

Lease Name: _____ License #: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, 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 / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	MP 1-23
Doc ID	1296178

All Electric Logs Run

Dual Induction
Compensated Neutron
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	MP 1-23
Doc ID	1296178

Tops

Name	Top	Datum
Heebner	3082	-1165
L-KC	3170	-1253
Muncie Creek	3294	-1377
Stark Shale	3350	-1433
Base KC	3373	-1456
Penn sand/chert	3373	-1456
Arbuckle	3419	-1502
LTD	3520	-1603

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1323

Date	2-23-16	Sec.	23	Twp.	18	Range	14	County	Barton	State	Ks	On Location		Finish	10:15 PM
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Location Boyd, Ks - S to Curve, 1/4 E, S/S

Lease	MP	Well No.	1-23	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Sterling #4			Charge To	Shelby Resources
Type Job	Surface			Street	
Hole Size	12 1/4"	T.D.	861'	City	
Csg.	8 5/8"	Depth	857'	State	
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	350 60/40 3% CC 2% Gel
Cement Left in Csg.	42'	Shoe Joint	42'		
Meas Line		Displace	51 3/4 BLS		

EQUIPMENT

Pumptrk	20	No.	Cementer	Rick	Common	210
			Helper		Poz. Mix	140
Bulktrk	4	No.	Driver	Shane P.	Gel.	7
			Driver		Calcium	14
Bulktrk		No.	Driver		Hulls	

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate	Salt	
Rat Hole		Flowseal	
Mouse Hole		Kol-Seal	
Centralizers		Mud CLR 48	
Baskets		CFL-117 or CD110 CAF 38	
D/V or Port Collar		Sand	
		Handling	371
		Mileage	

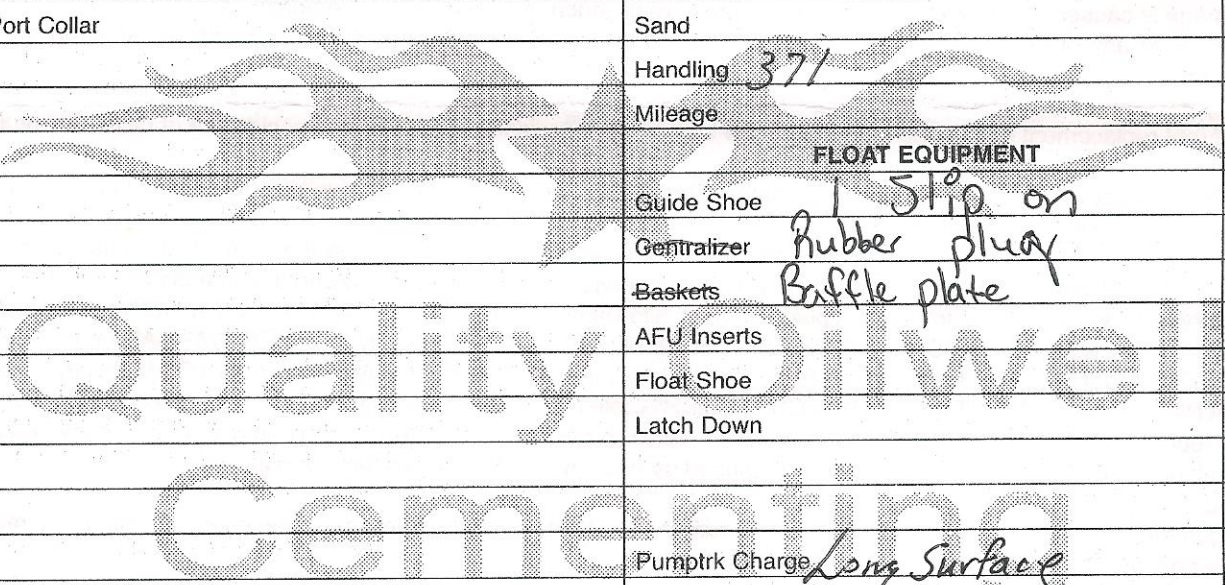
FLOAT EQUIPMENT

Guide Shoe	1 Slip on
Centralizer	Rubber plug
Baskets	Baffle plate
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Long Surface
Mileage	12

Tax	
Discount	
Total Charge	

X Signature Jerry S. Salovey



QUALITY OILWELL CEMENTING, INC.

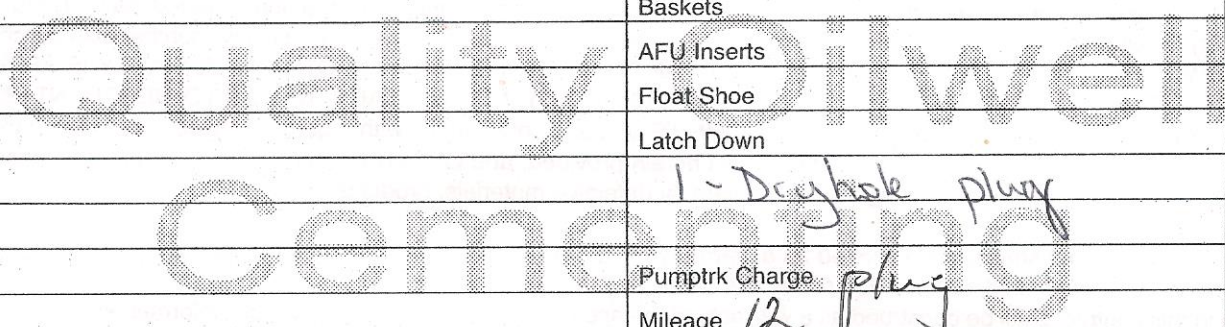
Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1324

Date	2-27-16	Sec.	23	Twp.	18	Range	14	County	Barton	State	Ks	On Location	3:45 PM	
Lease								Location	Boyd Ks - S to Curve 1/4 E					
Contractor								Well No.	1-23					
Type Job								Owner	3/Info					
Hole Size								To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Csg.								Charge To	Shelby Resources					
Tbg. Size								Street						
Tool								City	State					
Cement Left in Csg.								The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line								Cement Amount Ordered	255 60/40 4% Gel					
Displace								H2O / mud 1/4# Fl-seal						
EQUIPMENT												Common	153	
Pumptrk	18	No.	Cement	Craig		Poz. Mix		102						
Bulktrk	21	No.	Helper	Doug		Gel.		9						
Bulktrk	p.u.	No.	Driver	Rick		Calcium								
JOB SERVICES & REMARKS												Hulls		
Remarks:	3400' - 50 SX											Salt		
Rat Hole	910' - 50 SX											Flowseal	56 #	
Mouse Hole	360' - 100 SX											Kol-Seal		
Centralizers	40' - 10 SX w/ plug											Mud CLR 48		
Baskets	Rathole - 30 SX											CFL-117 or CD110 CAF 38		
DV or Port Collar	Mousehole - 15 SX											Sand		
255 SX total												Handling	264	
Cement did Circulate												Mileage		
FLOAT EQUIPMENT												Guide Shoe		
												Centralizer		
												Baskets		
												AFU Inserts		
												Float Shoe		
												Latch Down		
												1 - Doghole plug		
												Pumptrk Charge	plug	
												Mileage	12	
												Tax		
												Discount		
												Total Charge		
Signature												<i>Jimmy J. Salgado</i>		





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shelby Resources LLC

23/18S/14W/Barton

2717 Canal Blvd
Hays Kansas 67601

MP #1-23

Job Ticket: 65080

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2016.02.26 @ 02:28:56

GENERAL INFORMATION:

Formation: **Pennsylvania Conglom**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:15:56

Time Test Ended: 10:08:56

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/24

Interval: 3366.00 ft (KB) To 3390.00 ft (KB) (TVD)

Reference Elevations: 1917.00 ft (KB)

Total Depth: 3390.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8960 Outside

Press@RunDepth: 142.98 psig @ 3387.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.26

End Date: 2016.02.26

Last Calib.: 1899.12.30

Start Time: 02:28:56

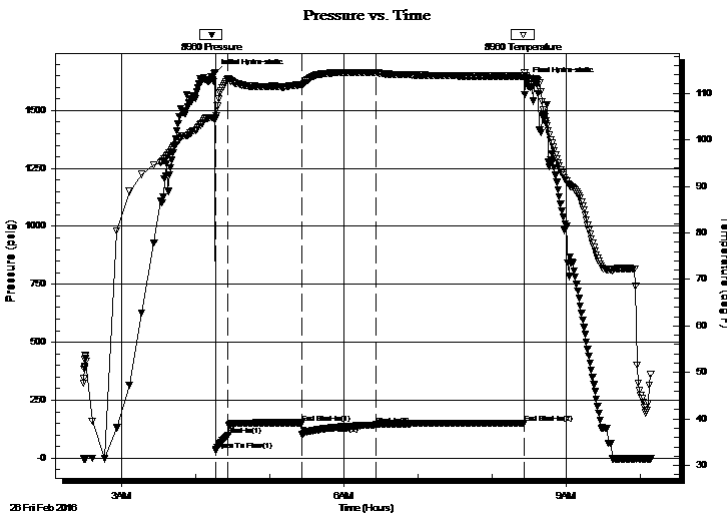
End Time: 10:08:56

Time On Btm: 2016.02.26 @ 04:14:56

Time Off Btm: 2016.02.26 @ 08:27:56

TEST COMMENT: Initial Flow 10 minutes/Blow built to 11 inches
Initial Shut In 60 minutes/Surface blow back died in 20 minutes
Final Flow 60 minutes/Blow built to 10 inches
Final Shut In 120 minutes/No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1660.14	104.75	Initial Hydro-static
1	32.78	104.50	Open To Flow (1)
11	97.86	113.03	Shut-In(1)
71	152.16	111.83	End Shut-In(1)
71	101.82	111.84	Open To Flow (2)
131	142.98	114.43	Shut-In(2)
251	151.90	113.67	End Shut-In(2)
253	1623.73	113.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
280.00	Oil cut Muddy Water	1.94
0.00	Oil 1% Mud 20% Water 79%	0.00
3.00	Clean oil 100%	0.04

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

23/18S/14W/Barton

2717 Canal Blvd
Hays Kansas 67601

MP #1-23

Job Ticket: 65080

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2016.02.26 @ 02:28:56

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
280.00	Oil cut Muddy Water	1.943
0.00	Oil 1% Mud 20% Water 79%	0.000
3.00	Clean oil 100%	0.042

Total Length: 283.00 ft Total Volume: 1.985 bbl

Num Fluid Samples: 0

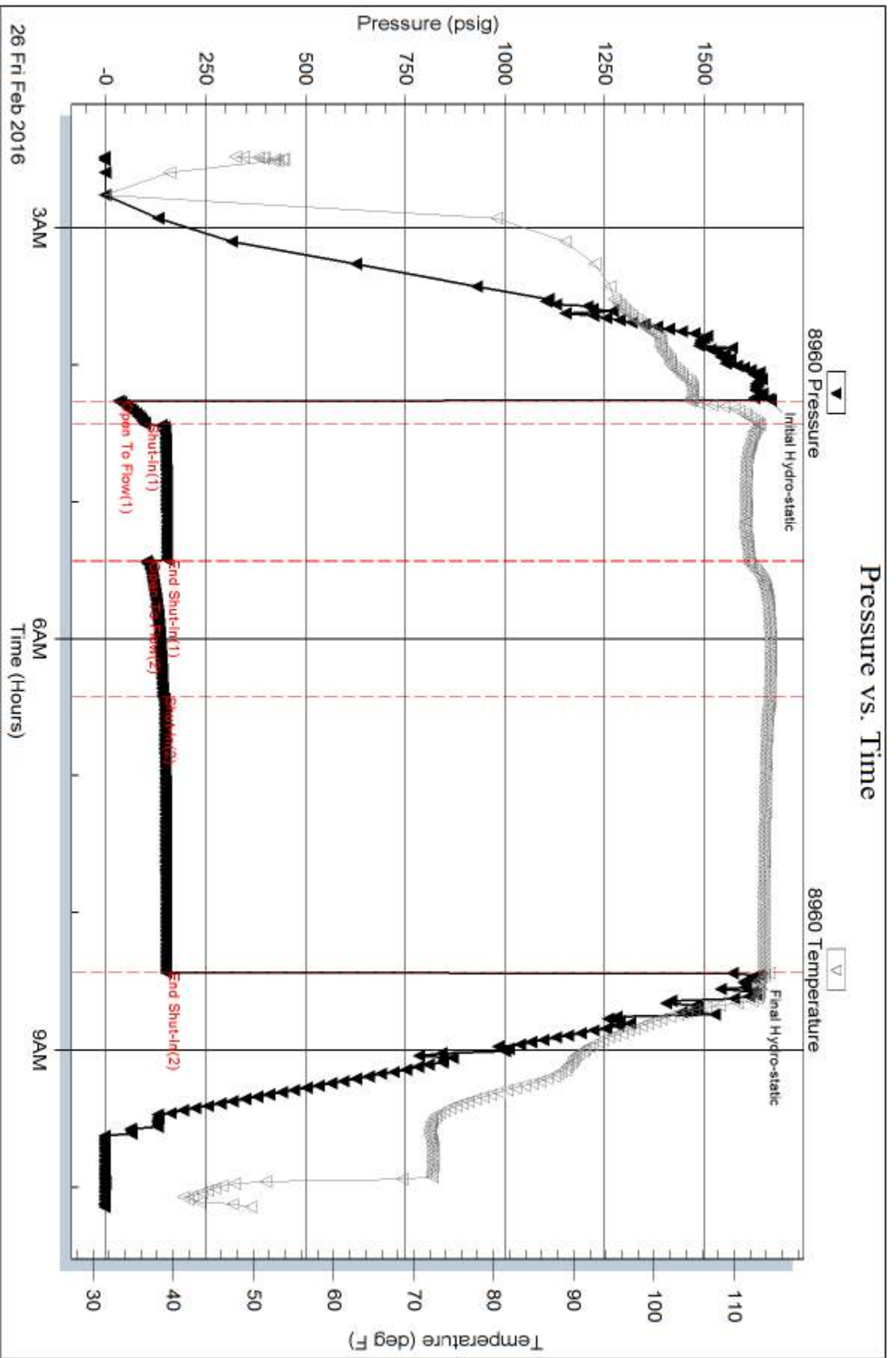
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





Scale 1:240 Imperial

Well Name: MP 1-23
 Surface Location: 980' FNL, 1754' FWL, Sec. 23-18S-14W
 Bottom Location:
 API: 15-009-26139-0000
 License Number:
 Spud Date: 2/22/2016 Time: 7:45 PM
 Region: Barton County
 Drilling Completed: 2/26/2016 Time: 10:25 PM
 Surface Coordinates:
 Bottom Hole Coordinates:
 Ground Elevation: 1906.00ft
 K.B. Elevation: 1917.00ft
 Logged Interval: 2800.00ft To: 3500.00ft
 Total Depth: 3520.00ft
 Formation: Penn Sand/Chert
 Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Shelby Resources, LLC
 Address: 621 17th St, Suite 1155
 Denver, CO 80293
 Contact Geologist: Janine Sturdavant
 Contact Phone Nbr: 303-907-2209 / 720-274-4682
 Well Name: MP 1-23
 Location: 980' FNL, 1754' FWL, Sec. 23-18S-14W
 API: 15-009-26139-0000
 Pool:
 State: Kansas Field: Laud
 Country: USA

LOGGED BY



Company: Shelby Resources, LLC
 Address: 621 17th St. Suite 1155
 Denver, CO 80293
 Phone Nbr: 203-671-6034
 Logged By: Geologist Name: Jeremy Schwartz

NOTES

The Shelby Resources, LLC MP #1-23 was drilled to a total depth of 3520', bottoming in the Arbuckle. A TookeDaq gas detector was employed in the drilling of said well.

1 DST was conducted in the Penn Conglomerate. The DST Report can be found at the bottom of this log.

Due to negative DST Results, lack of sample shows, gas kicks, and log analysis it was determined by all parties involved that the well be plugged and abandoned. The dry samples were saved and will be available for further review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

Respectfully Submitted,
 Jeremy Schwartz
 Geologist

CONTRACTOR

Contractor: Sterling Drilling Co
 Rig #: 4

Rig Type: mud rotary
 Spud Date: 2/22/2016
 TD Date: 2/26/2016
 Rig Release:

Time: 7:45 PM
 Time: 10:25 PM
 Time:

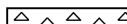






ELEVATIONS

K.B. Elevation: 1917.00ft Ground Elevation: 1906.00ft
 K.B. to Ground: 11.00ft





DATE	DEPTH	ACTIVITY
Thursday, February 25, 2016	3000'	Geologist Jeremy Schwartz on location @ 0330hrs, 3000', Drlg ahead through Heebner,
	3165'	Toronto, Douglas Shale, Brown Lime, CFS @ 3165', Drop Survey, Strap Out,
		Conduct Bit Trip, Swap PDC for Button Bit, Successful Bit Trip, Resume Drlg ahead
Friday, February 26, 2016	3390'	through LKC, LKC "G", Muncie Creek Shale, LKC "H", Stark Shale, LKC "K", CFS @ 3390'
	3390'	Conduct DST #1 in the Penn Conglomerate, Successful Test, Resume Drlg ahead
	3433'	through Ar buckle, CFS @ 3422', Resume Drlg, CFS @ 3430', Resume Drlg, CFS @ 3433',
	3520'	Resume Drlg ahead to TD @ 3520', TD of 3520' reached @ 2225hrs, CTCH 1hr,
Saturday, February 27, 2016	3520'	Drop Survey, OOH for logs, Conduct Logging Operations, Logging Operations
		Complete @ 0545hrs, Geologist Jeremy Schwartz off location @ 0715hrs

		D&A															
		WILKINSON DRILLING CO.								L.D. DRILLING, INC							
		LAUDICK #1								SKOLAUT #1-24							
		MP #1-23				SW-NE-NW 23-18S-14W				SE-NW-SE-SW 14-18S-14W							
		KB		1917		KB		1911		KB		1918					
		LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.	
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	
ANHYDRITE TOP	849	1068	851	1066	845	1066	+	2	+	0	857	1061	+	7	+	5	
BASE	876	1041	880	1037	874	1037	+	4	+	0	882	1036	+	5	+	1	
TOPEKA	2864	-947	2866	-949					2873	-955	+	8	+	6			
HEEBNER SHALE	3082	-1165	3082	-1165	3076	-1165	+	0	+	0	3088	-1170	+	5	+	5	
TORONTO	3093	-1176	3093	-1176	3088	-1177	+	1	+	1	3097	-1179	+	3	+	3	
DOUGLAS SHALE	3108	-1191	3109	-1192	3103	-1192	+	1	+	0	3112	-1194	+	3	+	2	
BROWN LIME	3160	-1243	3161	-1244	3154	-1243	+	0	-	1	3163	-1245	+	2	+	1	
LKC	3170	-1253	3170	-1253	3164	-1253	+	0	+	0	3172	-1254	+	1	+	1	
LKC G	3250	-1333	3250	-1333	3244	-1333	+	0	+	0	3244	-1326	-	7	-	7	
MUNCIE CREEK	3294	-1377	3296	-1379	3285	-1374	-	3	-	5	3299	-1381	+	4	+	2	
LKC H	3302	-1385	3304	-1387	3294	-1383	-	2	-	4	3307	-1389	+	4	+	2	
STARK SHALE	3350	-1433	3354	-1437	3343	-1432	-	1	-	5	3355	-1437	+	4	+	0	
LKC K	3354	-1437	3359	-1442	3348	-1437	+	0	-	5	3359	-1441	+	4	-	1	
BKC	3373	-1456	3374	-1457	3367	-1456	+	0	-	1	3378	-1460	+	4	+	3	
PENN SAND/CHERT	3373	-1456	3374	-1457	3367	-1456	+	0	-	1	3378	-1460	+	4	+	3	
ARBUCKLE	3419	-1502	3417	-1500	3400	-1489	-	13	-	11	3410	-1492	-	10	-	8	
RTD	3520	-1603	3520	-1603	3456	-1545	-	58	-	58							
LTD	3520	-1603			3456	-1545	-	58			3415	-1497	-	106			

ROCK TYPES







 Cht
  Dolprim
  shale, gry
  shale, red
 Congl
  Lmst fw<7
  Carbon Sh

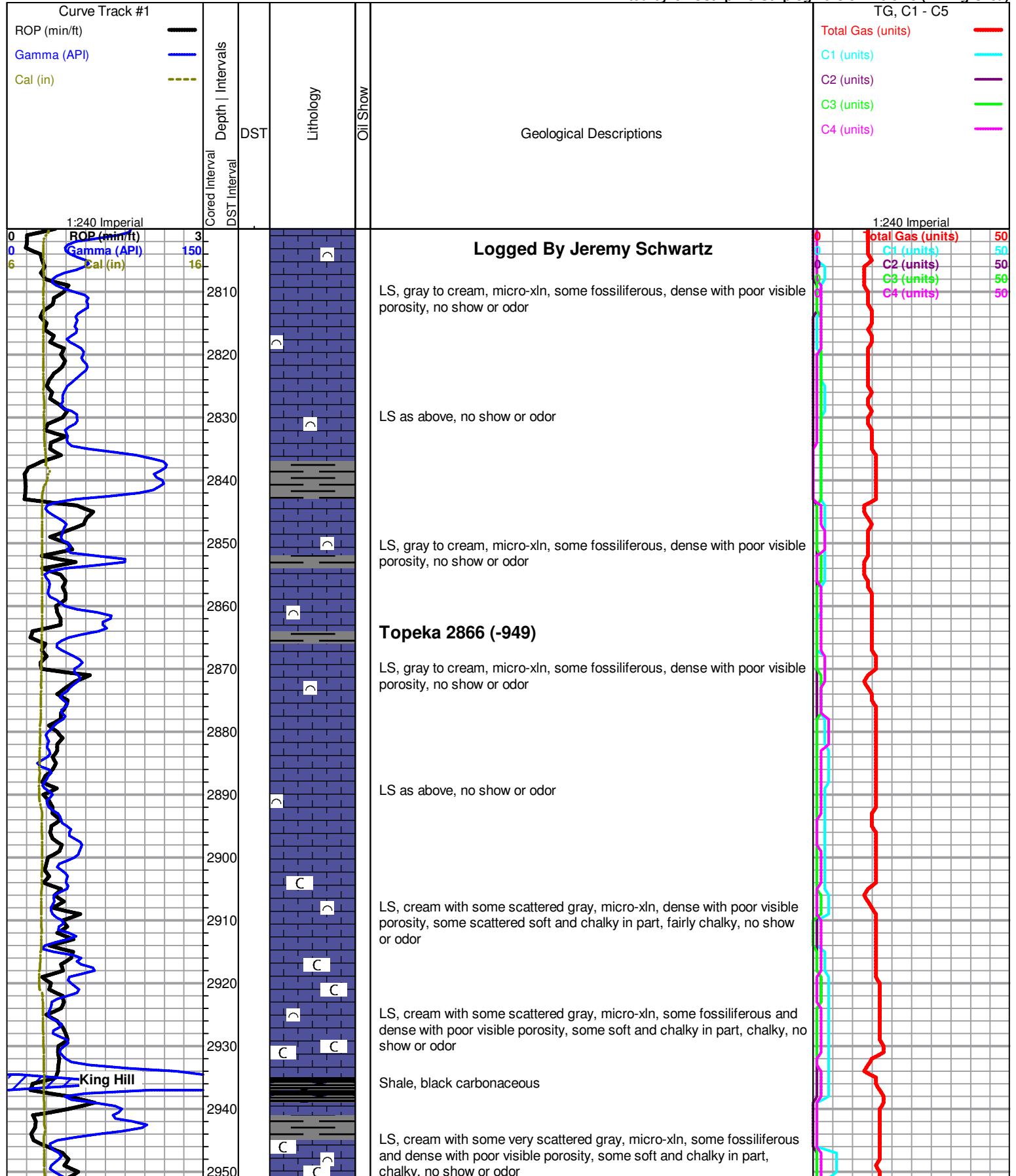
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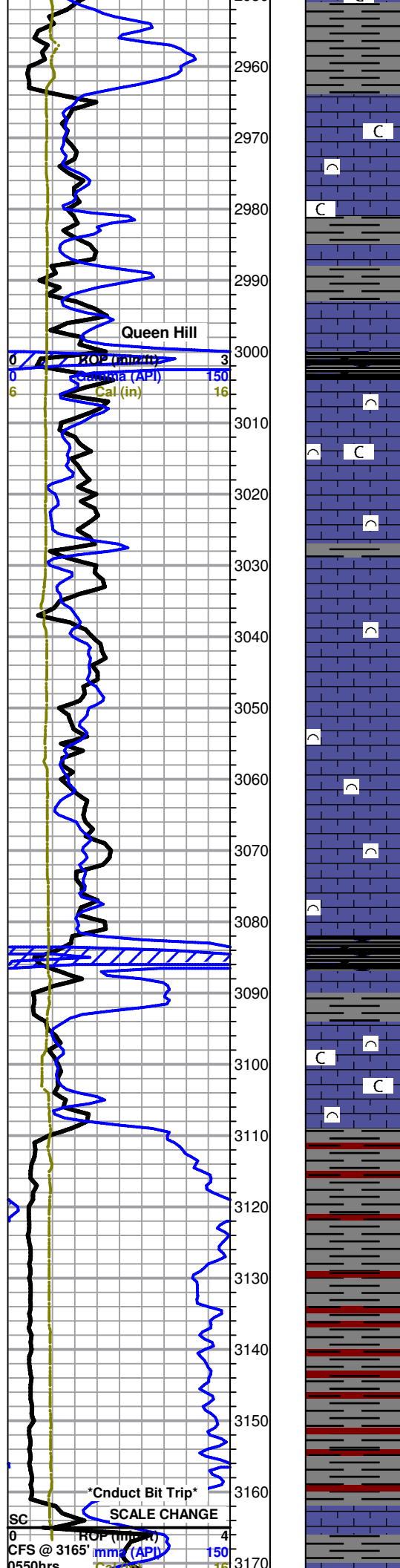
FOSSIL
 ^ Bioclastic or Fragmental
 F Fossils < 20%
STRINGER
 Chert
 Limestone
 Shale
 red shale
TEXTURE
 C Chalky

OTHER SYMBOLS

MISC
 Daily Report
 Digital Photo
 Document
DST
 DST Int
 DST alt

-  Folder
-  Link
-  Vertical Log File
-  Horizontal Log File
-  Core Log File
-  Drill Cuttings Rpt





LS, mostly same as above, with slight influx cream, crypto-xln, lithographic and dense with poor visible porosity, slightly less chalky, no show or odor

Shale, black carbonaceous

LS, cream, micro-xln, fossiliferous and dense with poor visible porosity, with some scattered crypto-xln, lithographic and dense with poor visible porosity, slightly chalky, no show or odor

LS as above, no show or odor

LS, cream with some very scattered gray and brown, micro-xln, some fossiliferous, dense with poor visible porosity, no show or odor

LS as above, no show or odor

Heebner 3082 (-1165)
Shale, black carbonaceous

Toronto 3093 (-1176)

LS, cream to white, micro-xln, some fossiliferous and dense with poor visible porosity, some scattered soft and chalky in part, fairly chalky, no show or odor

Douglas Shale 3109 (-1192)

Shale, mostly gray with some scattered red, mostly soft and waxy with some blocky and dense

Shale as above, with slight influx red

Brown Lime 3161 (-1244)

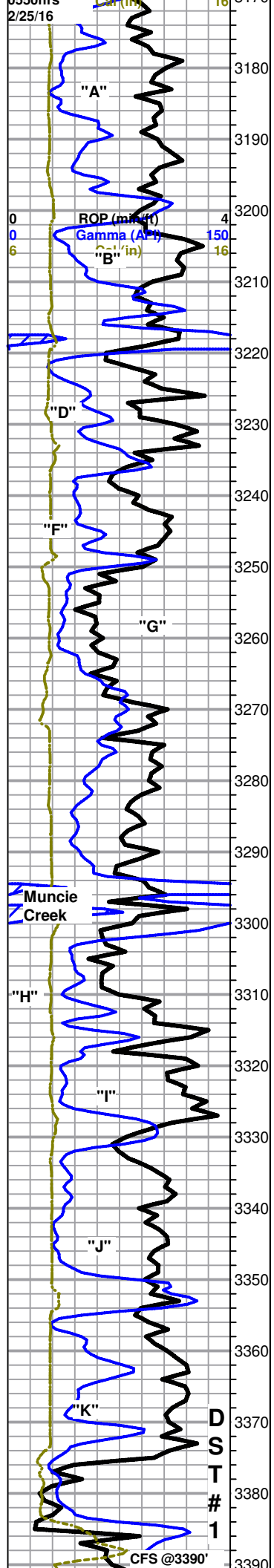
LS, brown to gray, micro-xln, fossiliferous and dense with no visible porosity, no show or odor

Lansing 3170 (-1253)

Total Gas (units) 50
C1 (units) 50
C2 (units) 50
C3 (units) 50
C4 (units) 50

Mud-Co Mud chk
3165'
2/25/16
Vis: 55 Wt: 9.1
PV: 18 YP: 18
WL: 7.6
Cake: 2/32
pH: 11
Ca: 20ppm
CHL: 3200ppm
Sol: 5.6 LCM: 1/2
DMC: \$2,108.54
CMC: \$6,202.63

Survey @ 3165'
3/4degree
Strap = 0.14LTB



LS, cream to tan with some scattered gray, some slightly fossiliferous, dense with poor visible porosity, no show or odor

LS, cream, micro-xln, mostly lithographic and dense with poor visible porosity, few very scattered chips with very slight poor edge pinpoint porosity, no show or odor

LS, cream with some scattered gray and very scattered brown, micro-xln, some lithographic, some fossiliferous, dense with poor visible porosity, no show or odor

LS, cream to gray, micro-xln, some lithographic, some fossiliferous, mostly dense with poor visible porosity, some very scattered with very scattered poor pinpoint porosity and very slight poor black stain in porosity only, few chips with slight inter-fossil staining and VSSF0 upon break, chips with shows <10%, No fluor., poor odor

LS, cream to white, micro-xln, mostly lithographic and dense with poor visible porosity, some very scattered fossiliferous, few chips (<5%) with very slight poor edge pinpoint porosity and poor black stain in porosity only, trace oomoldic with poor visible oomold porosity, no fluor., or odor

LS, cream to white, micro-xln, some lithographic and dense with poor visible porosity, some sub-oolitic to sub-oomoldic with poor visible porosity, few chips (<5%) with very scattered poor black stain in several oomolds only, chalky, NSFO, no fluor., no odor

LS, mostly same as above, chalky, NSFO, no fluor., no odor

LS, cream, micro-xln, lithographic and dense with poor visible porosity, with influx gray and brown, mostly lithographic, some fossiliferous, very dense with no visible porosity, no show or odor

LS, brown to gray with some cream, micro-xln, mostly lithographic, few chips fossiliferous, very dense with no visible porosity, no show or odor

LS, mostly same as above, no show or odor

LS, cream to gray with some scattered brown, micro-xln, lithographic and dense with poor visible porosity, found few small chips with some poor edge pinpoint porosity and wet black stain in porosity only, chips too dense to break, VSSF0 when agitated, no fluor., poor fleeting odor

LS, cream with some scattered gray, micro-xln, mostly lithographic and dense with poor visible porosity, some very scattered fossiliferous (<10%) with some scattered inter-fossil staining, upon break SSFO, no fluor., or odor

LS, cream to gray and brown, micro-xln, lithographic and very dense with no visible porosity, no show or odor

LS, cream, micro-xln, lithographic and dense with poor visible porosity, some scattered (~20%) with few very small edge vugs and wet, tarry black to dead stain inside vugs only, no fluor, NSFO, no odor

LS, mostly same as above, few chips with some very scattered edge pinpoint to very slightly vuggy edges with wet, tarry black to dead stain inside porosity only, no fluor., NSFO, no odor

Penn Conglomerate Chert/SS 3374 (-1457)

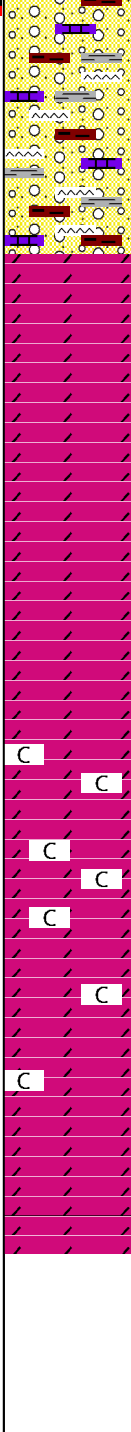
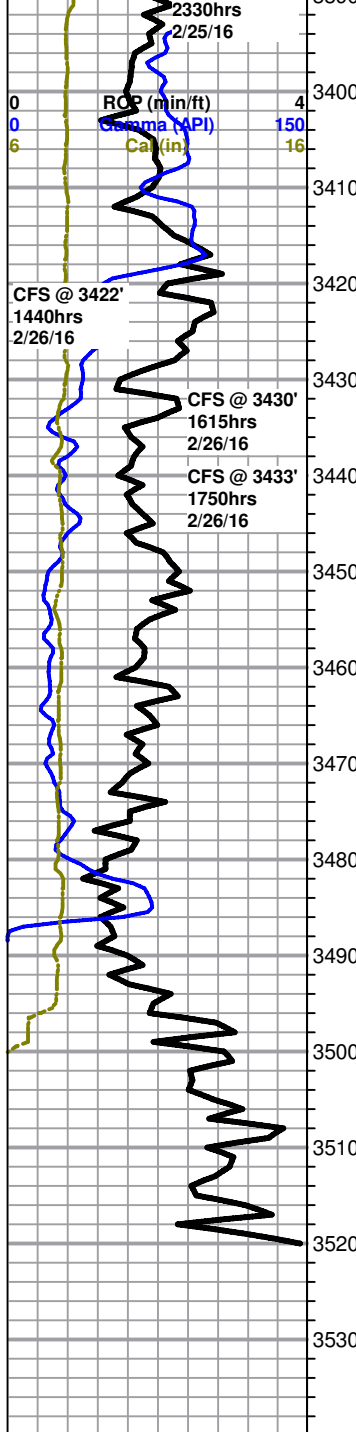
Shelby MP 1-23 dst1.jpg

LS, cream, micro-xln, lithographic and dense with poor visible porosity, barren, with influx maroon, red and gray shales as well as vari-colored red to orange and tan to opaque cherts, no show or odor

3390' 30" Mixed LS, shales, and vari-colored cherts, no visible porosity, no visible loose sand grains. no show. fluor., or odor

Total Gas (units) 50
C1 (units) 50
C2 (units) 50
C3 (units) 50
C4 (units) 50

Mud-Co Mud chk
3390'
2/26/16
Vis: 59 Wt: 9.3
PV: 20 YP: 23
WL: 7.2
Cake: 2/32
pH: 10.0
Ca: 20ppm
CHL: 3900ppm
Sol: 6.9 LCM: 1/2
DMC: \$739.23



3390' 60" Mixed cream to gray LS, with some scattered red, maroon, and gray shales, as well as vari-colored orange to red and tan to opaque cherts, some fresh and sharp, trace oolitic, no show, fluor., or odor

Mixed LS, shales, and cherts, heavy red wash, no show, fluor., or odor

Arbuckle 3417 (-1500)

3422' 30" Mixed LS, shales, and cherts, also with some very scattered dolomite, cream to white, micro-xln, mostly sub-sucrosic and dense with poor visible porosity, some scattered fairly friable, few chips with some very scattered sub-rhombic development on edges with slight poor porosity and very scattered dead black gilsonitic stain, NSFO, red wash, no odor

3422' 60" Mostly same as above, NSFO, no odor

3430' 30" Conglomerate, with some scattered dolomite, white, micro-xln, mostly sub-sucrosic and dense with poor visible porosity, few scattered chips with some sub-rhombic development and scattered black gilsonitic stain, poor visible porosity, some fairly friable, upon break VSSFO in few chips, still carrying red wash, poor fleeting odor

3433' 30" Dolomite, white, micro-xln, mostly sub-rhombic and dense with poor visible porosity, some fairly friable, mostly barren, with some scattered to very scattered fair visible porosity, some with scattered black gilsonitic stain, upon break few chips with VSSFO, poor odor

3433' 60" Mostly same as above, poor odor

~3440' Dolomite, white, micro-xln, some sub-sucrosic and dense with poor visible porosity, some sub-rhombic and fairly friable with scattered poor to fair visible porosity and scattered to very scattered black gilsonitic stain, NSFO, poor odor

~3450' Mostly same as above, with gilsonitic stain slightly dropping out, mostly barren, NSFO, no odor

~3460' Dolomite, white, micro-xln, mostly sub-sucrosic and dense with poor visible porosity, some very scattered sub-rhombic with very scattered gilsonitic stain, NSFO, no odor

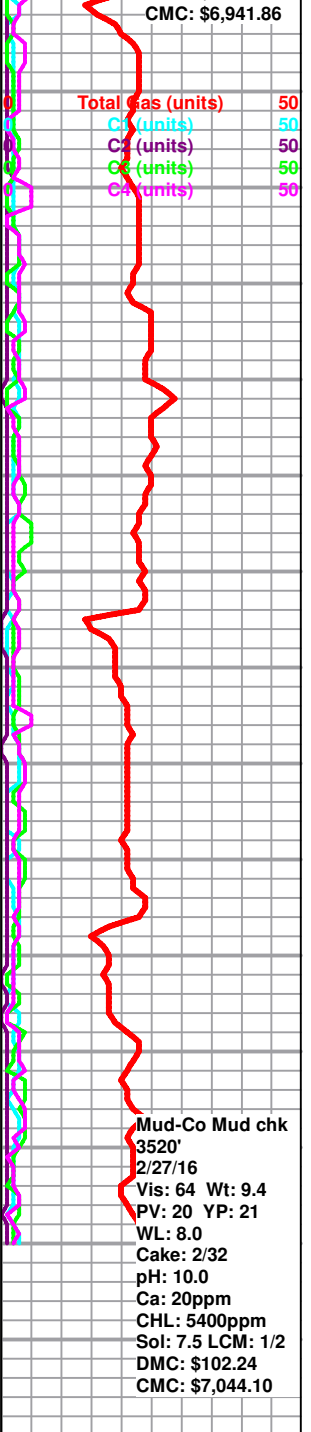
~3470' Dolomite, mostly same as above, chalky, no show or odor

~3480' Dolomite, white, micro-xln, mostly sub-sucrosic and dense with poor visible porosity, some very scattered sub-rhombic, with some very scattered poor to fair visible porosity, barren, chalky, no odor

~3490 Dolomite as above, less chalky, no show or odor

~3500-3520' Dolomite, white to cream, micro-xln, sub-sucrosic and dense with poor visible porosity, some sandy, with some very scattered sub-rhombic, fairly friable, barren, no odor

Rotary TD 3520' @ 2225hrs 2/26/16
Casedhole Solutions Logging TD @ 3520'
Complete Logging Operations @ 0545hrs 2/27/16
Geologist Jeremy Schwartz off location @ 0715hrs 2/27/16



DRILL STEM TEST REPORT

Shelby Resources LLC

23/18S/14W/Barton

2717 Canal Blvd
Hays Kansas 67601

MP #1-23

Job Ticket: 65080

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2016.02.26 @ 02:28:56



TRILOBITE TESTING, INC

GENERAL INFORMATION:

Formation: **Pennsylvania Conglom**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:15:56

Time Test Ended: 10:08:56

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/24

Interval: **3366.00 ft (KB) To 3390.00 ft (KB) (TVD)**

Reference Elevations: 1917.00 ft (KB)

Total Depth: 3390.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8960

Outside

Press@RunDepth: 142.98 psig @ 3387.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.26 End Date: 2016.02.26

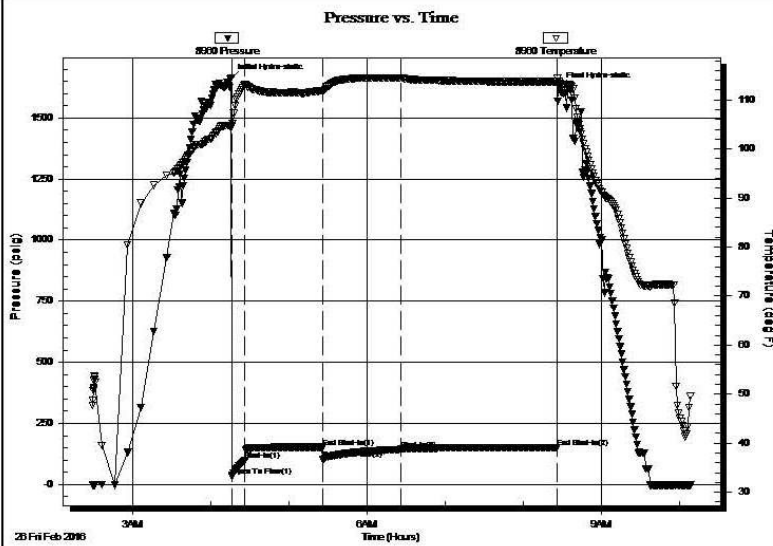
Last Calib.: 1899.12.30

Start Time: 02:28:56 End Time: 10:08:56

Time On Btm: 2016.02.26 @ 04:14:56

Time Off Btm: 2016.02.26 @ 08:27:56

TEST COMMENT: Initial Flow 10 minutes/Blow built to 11 inches
Initial Shut In 60 minutes/Surface blow back died in 20 minutes
Final Flow 60 minutes/Blow built to 10 inches
Final Shut In 120 minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1660.14	104.75	Initial Hydro-static
1	32.78	104.50	Open To Flow (1)
11	97.86	113.03	Shut-In(1)
71	152.16	111.83	End Shut-In(1)
71	101.82	111.84	Open To Flow (2)
131	142.98	114.43	Shut-In(2)
251	151.90	113.67	End Shut-In(2)
253	1623.73	113.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
280.00	Oil cut Muddy Water	1.94
0.00	Oil 1% Mud 20% Water 79%	0.00
3.00	Clean oil 100%	0.04

Gas Rates

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