

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	Younger Energy Company
Well Name	Schartz 2-34
Doc ID	1298475

All Electric Logs Run

Dual Induction Log
Compensated Density/Neutron Log
Micro Log
Mud Log/Geologist Report
Computer Processed Interpretation
Cement Bond Log
LAS

Form	ACO1 - Well Completion
Operator	Younger Energy Company
Well Name	Schartz 2-34
Doc ID	1298475

Tops

Name	Top	Datum
Queen Hill	3273	-1295
Heebner	3378	-1400
Douglas	3412	-1434
Br. Lime	3488	-1510
Lansing	3498	-1520
Base KC	3730	-1752
Cherty Cong.	3824	-1846
Viola	3842	-1864
Simpson Sh	3866	-1888
Simpson Sd	3918	-1940
Arbuckle	3923	-1945

OPERATOR

Company: Younger Energy Company
 Address: 9415 E. Harry
 Suite 403, Bldg 400
 Wichita, KS 67207

Contact Geologist:
 Contact Phone Nbr: 316-681-2542
 Well Name: Schartz #2-34
 Location: Sec. 34 - T21S - R15W
 API: 15-145-21814-0000
 Pool:
 State: Kansas

Field: Hurray
 Country: USA



Scale 1:240 Imperial

Well Name: Schartz #2-34
 Surface Location: Sec. 34 - T21S - R15W
 Bottom Location:
 API: 15-145-21814-0000
 License Number: 30705
 Spud Date: 12/1/2015 Time: 4:00 PM
 Region: Pawnee County
 Drilling Completed: 12/8/2015 Time: 3:15 PM
 Surface Coordinates: 1450' FSL & 1100' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 1970.00ft
 K.B. Elevation: 1978.00ft
 Logged Interval: 3200.00ft To: 4000.00ft
 Total Depth: 4000.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 Latitude:
 N/S Co-ord: 1450' FSL
 E/W Co-ord: 1100' FEL

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530

Phone Nbr: 620-617-4091
 Logged By: KLG #136

Name: Keith Reavis

CONTRACTOR

Contractor: Duke Drilling Company
 Rig #: 2
 Rig Type: mud rotary
 Spud Date: 12/1/2015 Time: 4:00 PM
 TD Date: 12/8/2015 Time: 3:15 PM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1978.00ft
K.B. to Ground: 8.00ft

Ground Elevation: 1970.00ft

NOTES

Due to favorable structural position and positive results of drill stem testing, the operator elected to set 5 1/2" production casing and further test the Arbuckle and Simpson Sand through perforation and stimulation.

A Bloodhound gas detection system operated by Bluestem Labs was employed on this well. The ROP and gas curves were imported into this log. The caliper and gamma ray curves from the electrical log suite were also imported.

Respectfully submitted,

Keith Reavis


Younger Energy Company
daily drilling report

DATE	7:00 AM DEPTH	REMARKS
12/05/2015		Geologist Keith Reavis on location @ 2020 hrs, 3237 ft, drilling ahead, Re-zero Bloodhound, reset extractor, drilling Queen Hill
12/06/2015	3524	drilling ahead, Heebner, Toronto, Douglas, Lansing, BKC, conglomerate, Viola
12/07/2015	3923	drilling Viola, tag Simpson, cfs, short trip, ctch, resume drilling Simpson, show in Simpson Sand warrants test, TOH for DST #1, conduct DST #1 complete DST #1, successful test, resume drilling, show and gas kick in Arbuckle warrants test, TOH for DST #2
12/08/2015	3931	conduct and complete DST #2, TIH, rathole for logs, TD @ 1515 hrs, TOH for logs, conduct and complete logging operations, geologist off loc @ 2200 hrs

Younger Energy Company
well comparison sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
Schartz #2-34 1450' FSL & 1100' FBL Sec 34-T21S-R15W					F & M - Shartz #1 C N/2 SB SB Sec 34-T21S-R15W				Schartz #1-34 770' FSL & 1405' FBL Sec 34-T21S-R15W			
1978 KB					1975 KB				1978 KB			
					Structural Relationship				Structural Relationship			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Queen Hill	3278	-1300	3273	-1295	3268	-1293	-7	-2	3266	-1288	-12	-7
Heebner	3382	-1404	3378	-1400	3372	-1397	-7	-3	3371	-1393	-11	-7
Douglas	3414	-1436	3412	-1434	3405	-1430	-6	-4	3404	-1426	-10	-8
Brown Lime	3488	-1510	3488	-1510	3482	-1507	-3	-3	3482	-1504	-6	-6
Lansing	3500	-1522	3498	-1520	3491	-1516	-6	-4	3492	-1514	-8	-6
BKC	3730	-1752	3730	-1752	3724	-1749	-3	-3	3722	-1744	-8	-8
Cherty Cong.	3821	-1843	3824	-1846	3810	-1835	-8	-11	3810	-1832	-11	-14
Viola	3841	-1863	3842	-1864	3834	-1859	-4	-5	3832	-1854	-9	-10
Simpson	3867	-1889	3866	-1888	3864	-1889	0	1	3858	-1880	-9	-8
Simp. Sand	3919	-1941	3918	-1940	3916	-1941	0	1	3914	-1936	-5	-4
Arbuckle	3924	-1946	3923	-1945	3919	-1944	-2	-1	3918	-1940	-6	-5
Total Depth	4000	-2022	3993	-2015	3920	-1945	-77	-70	3959	-1981	-41	-34
					Note, depths in red are driller/sample tops							

Drill Stem Test #1

	DRILL STEM TEST REPORT	
	YOUNGER ENERGY COMPANY 9415 E HARRY SUITE 403 BUILDING 400 WICHITA, KANSAS 67207 ATTN: KEITH REAVIS	34-21S-15W PAWNEE SCHARTZ 2-34 Job Ticket: 01203 DST#: 1 Test Start: 2015.12.07 @ 10:11:00

GENERAL INFORMATION:

Formation: **SIMPSON SAND**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 11:54:00
 Time Test Ended: 17:25:00

Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDG
 Unit No: 1-56

Interval: 3728.00 ft (KB) To 3923.00 ft (KB) (TVD)
 Total Depth: 3923.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

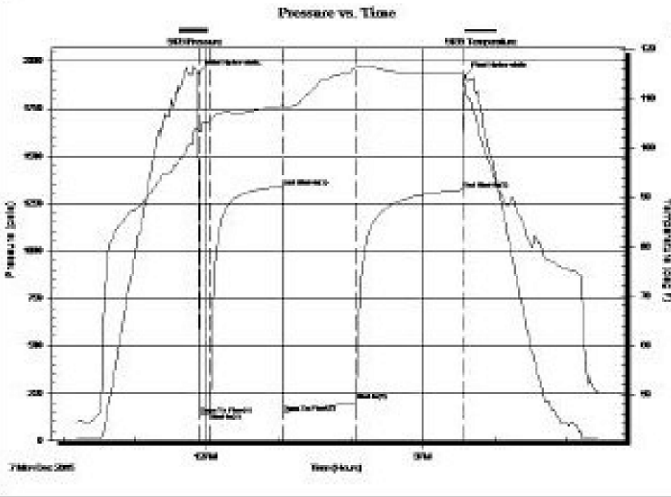
Reference Elevations: 1978.00 ft (KB)
 1970.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 9139

Outside

Press@RunDepth: 1321.29 psia @ 3918.18 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.12.07 End Date: 2015.12.07 Last Calib.: 2015.12.07
 Start Time: 10:11:00 End Time: 17:26:30 Time On Btm: 2015.12.07 @ 11:54:00
 Time Off Btm: 2015.12.07 @ 15:35:30

TEST COMMENT: 1ST OPENING 10 MINUTES WEAK BLOW BUILT TO 4 INCHES INTY O THE WATER
 1ST SHUTY-IN 60 MINUTES-NO BLOW BACK
 2ND OPENING 60 MINUTES WEAK BUILDING BLOW BUILT TO BOTTOM OF THE BUCKET IN 40 MINUTES
 2ND SHUT-IN 90 MINUTES



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1936.76	103.76	Initial Hydro-static
1	134.17	103.36	Open To Flow (1)
10	143.86	105.52	Shut-h(1)
70	1336.36	108.59	End Shut-h(1)
71	147.49	108.31	Open To Flow (2)
131	210.03	116.40	Shut-h(2)
220	1321.29	114.99	End Shut-h(2)
222	1921.47	111.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bb)
60.00	GAS IN THE PIPE	0.84
20.00	MUDDY OIL 60 OIL 40 MUD	0.28
60.00	OIL OUT MUD 35 OIL 65 MUD	0.84
60.00	OIL OUT MUD 25 OIL 75 MUD	0.84
60.00	OIL OUT MUD 20 OIL 80 MUD	0.84

Gas Rates

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

Drill Stem Test #2



DRILL STEM TEST REPORT

YOUNGER ENERGY COMPANY
 9415 E HARRY SUITE 403
 BUILDING 400
 WCHITA, KANSAS 67207
 ATTN: KEITH REAVIS

34-215-15W PAWNEE
 SCHARTZ 2-34
 Job Ticket: 01204 DST#: 2
 Test Start: 2015.12.08 @ 01:20:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:23:00
 Time Test Ended: 09:02:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No: 1
 Interval: 3925.00 ft (KB) To 3931.00 ft (KB) (TVD)
 Total Depth: 3931.00 ft (KB) (TVD)
 Reference Elevations: 1978.00 ft (KB)
 1970.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

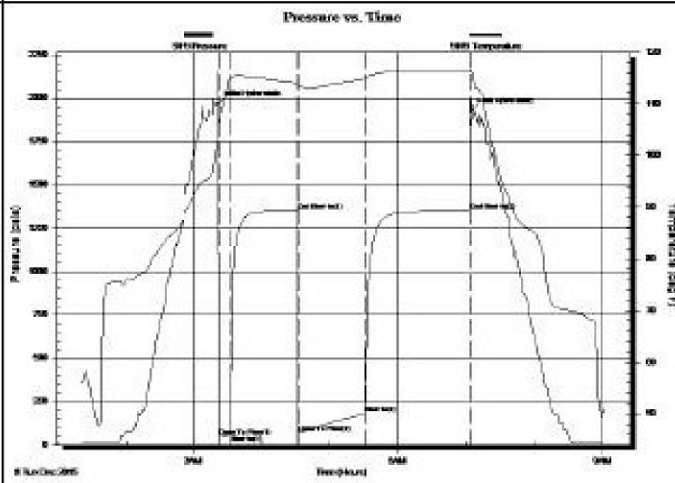
Serial #: 9119

Inside

Press@RunDepth: 1351.62 psia @ 3926.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.12.08 End Date: 2015.12.08 Last Calib.: 2015.12.08
 Start Time: 01:20:00 End Time: 09:01:00 Time On Btm: 2015.12.08 @ 03:21:30
 Time Off Btm: 2015.12.08 @ 07:04:30

TEST COMMENT: 1ST OPENING 10 MINUTES WEAK BUILDING BLOW BUILT TO 10 INCHES INTO THE WATER
 1ST SHUT-IN 60 MINUTES-NO BLOW BACK

1ST SHUT-IN 60 MINUTES NO BLOW BACK
 2ND OPENING 60 MINUTES WEAK BUILDING BLOW BUILT TO BOTTOM OF THE BUCKET IN 25 MINUTES
 2ND L SHUT-IN 90 MINUTES WEAK BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1965.83	102.72	Initial Hydro-static
1	46.89	103.81	Open To Flow (1)
12	59.22	115.09	Shut-h(1)
70	1352.04	114.03	End Shut-h(1)
71	68.71	113.56	Open To Flow (2)
130	180.66	114.90	Shut-h(2)
222	1351.62	116.38	End Shut-h(2)
223	1920.70	116.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GAS IN THE PIPE	0.84
110.00	CLEAN GASSY OIL GAS 85 OIL	1.54
60.00	OIL CUT MUDDY WATER	0.84
0.00	20 OIL 15 MUD 65 WATER	0.00
120.00	SLIGHTLY OIL AND MUD CUT WATER	1.68
0.00	1 OIL 6 MUD 93 WATER	0.00

Gas Rates

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

Cht vari	Lmst fw7>	Carbon Sh	Ss
Dolprim	shale, grn	shale, red	
Lmst fw<7	shale, gry	Shcol	

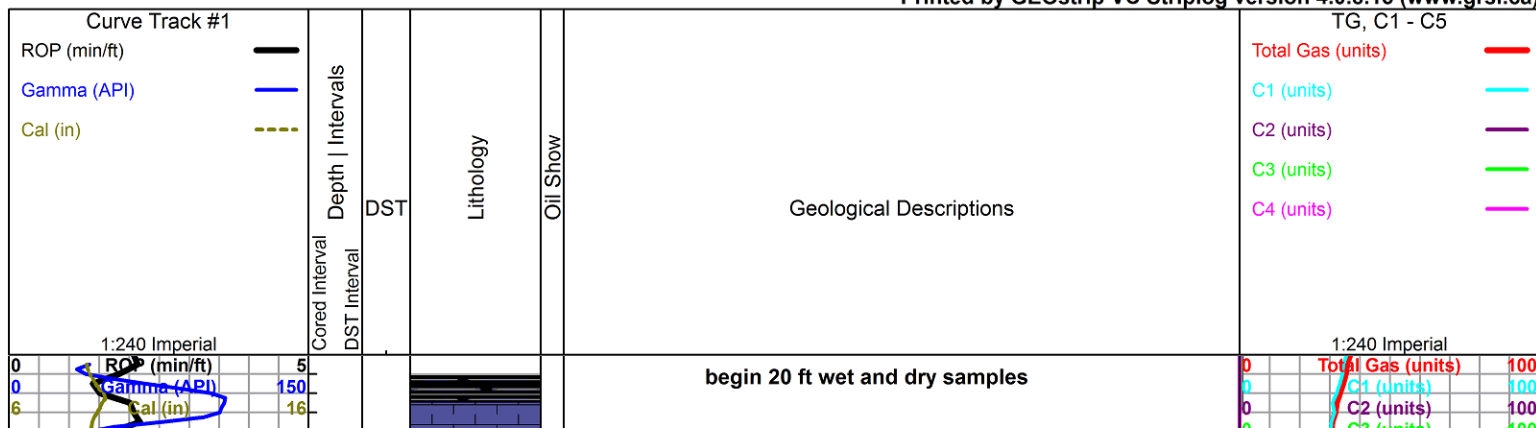
ACCESSORIES

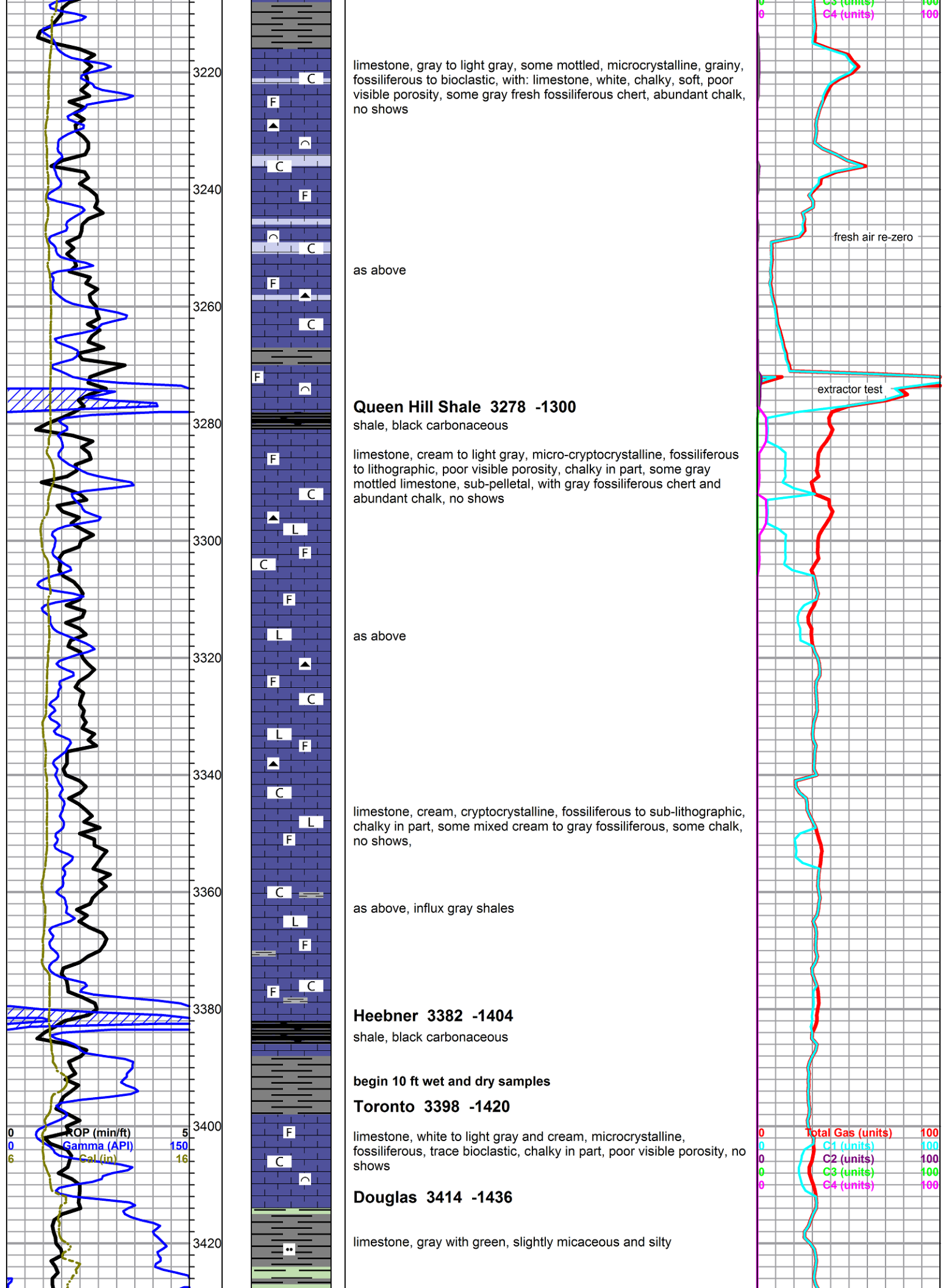
MINERAL	FOSSIL	STRINGER	TEXTURE
▲ Chert, dark	∩ Bioclastic or Fragments	■ Limestone	C Chalky
P Pyrite	F Fossils < 20%	■ Sandstone	L Lithogr
• Sandy	∅ Oolite	■ Shale	
• Silty	⊕ Oomoldic	■ carb shale	
Mc Mica			

OTHER SYMBOLS

Oil Show	DST
● Good Show	■ DST Int
● Fair Show	■ DST alt
● Poor Show	■ Core
○ Spotted or Trace	tail pipe
○ Questionable Stn	
D Dead Oil Stn	
■ Fluorescence	
* Gas	

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limestone, gray to light gray, some mottled, microcrystalline, grainy, fossiliferous to bioclastic, with: limestone, white, chalky, soft, poor visible porosity, some gray fresh fossiliferous chert, abundant chalk, no shows

as above

Queen Hill Shale 3278 -1300

shale, black carbonaceous

limestone, cream to light gray, micro-cryptocrystalline, fossiliferous to lithographic, poor visible porosity, chalky in part, some gray mottled limestone, sub-pelletal, with gray fossiliferous chert and abundant chalk, no shows

as above

limestone, cream, cryptocrystalline, fossiliferous to sub-lithographic, chalky in part, some mixed cream to gray fossiliferous, some chalk, no shows,

as above, influx gray shales

Heebner 3382 -1404

shale, black carbonaceous

begin 10 ft wet and dry samples

Toronto 3398 -1420

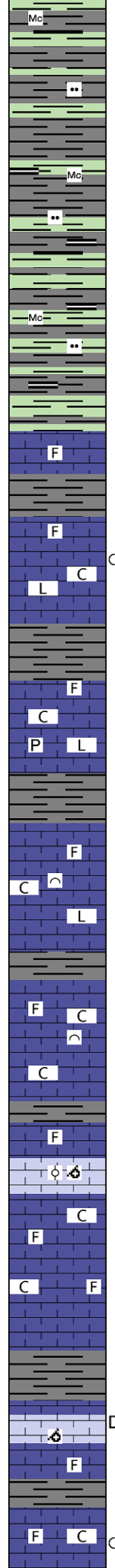
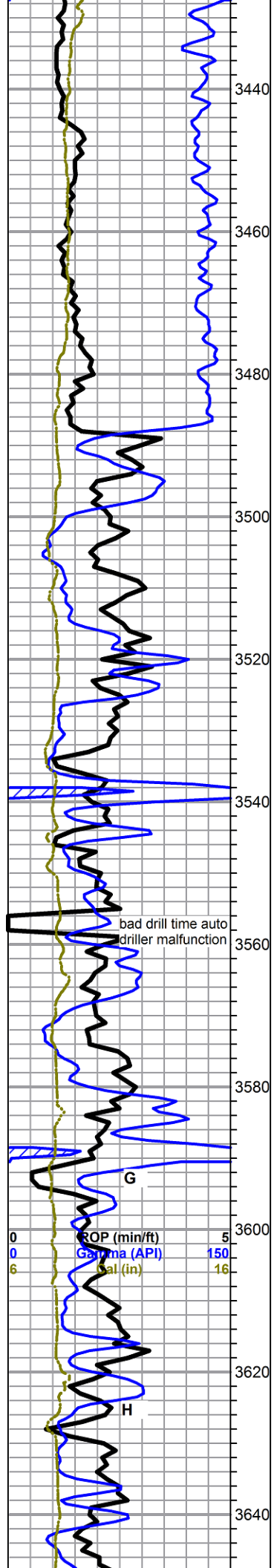
limestone, white to light gray and cream, microcrystalline, fossiliferous, trace bioclastic, chalky in part, poor visible porosity, no shows

Douglas 3414 -1436

limestone, gray with green, slightly micaceous and silty

ROP (min/ft) 5
Gamma (API) 150
Cal (in) 16

Total Gas (units) 100
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100



as above, some dense brown/black dense carbonaceous shale

Brown Lime 3488 -1510

limestone, gray to brown, cryptocrystalline, fossiliferous, dense, cherty, no shows

Lansing 3500 -1522

limestone, white to cream and light gray, mostly cryptocrystalline, lithographic to fossiliferous, cherty to chalky, few small pieces with secondary calcite and leached pin-point porosity, slight stain, slight sheen on break, no odor, poor fluorescence

limestone, white to cream, mostly cryptocrystalline, lithographic to fossiliferous, cherty to chalky, some gray fossiliferous and pyritic limestone, no shows

limestone, white to cream, mostly cryptocrystalline, sub-lithographic to fossiliferous, chalky in part, with trace grainy bioclastic, poor visible porosity, no shows

limestone, a.a. with limestone, light gray, microcrystalline, fossiliferous to bioclastic, dense, poor visible porosity, increase in chalk, no shows

limestone, light gray, oolitic to sub-oomoldic, some fair mold porosity, some secondary calcite, no shows or odor

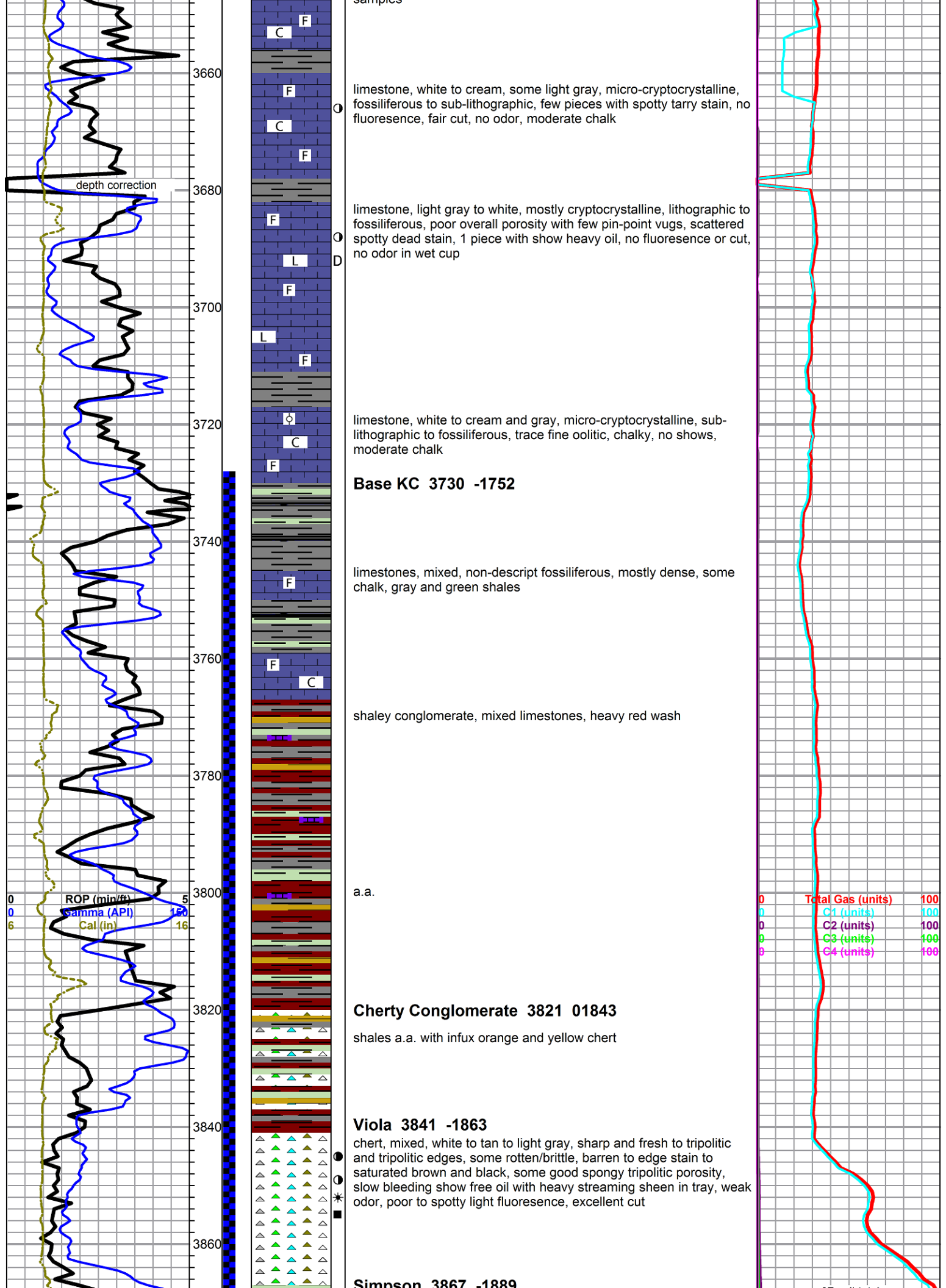
grades to limestone, mixed white to light gray and cream, lithographic to fossiliferous, moderate chalk, no shows

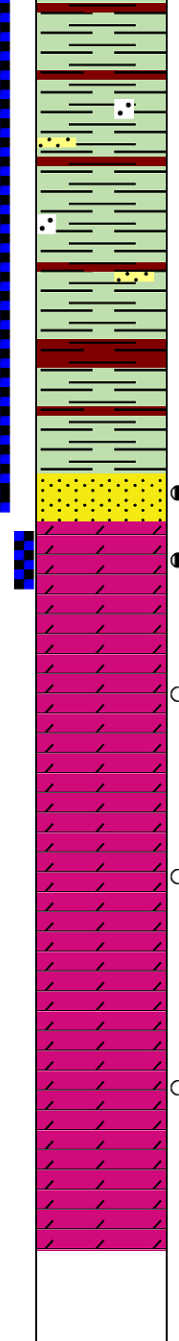
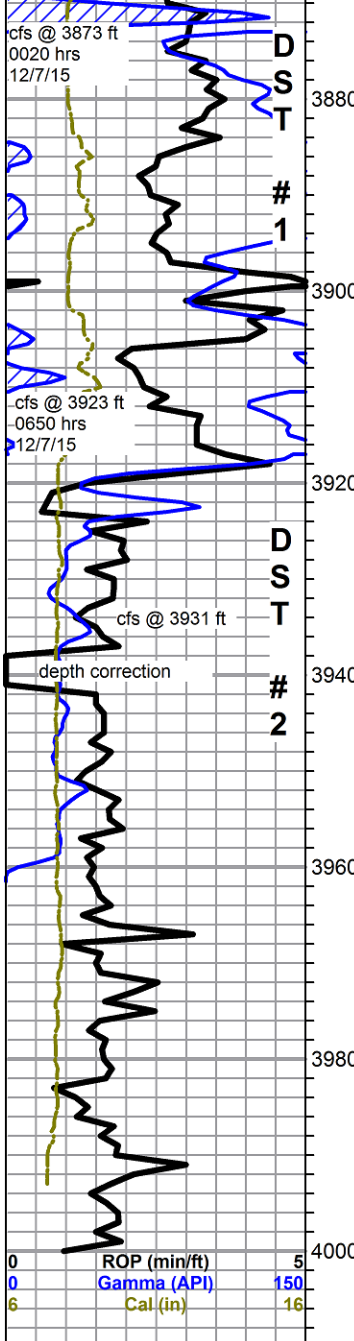
limestone, white to light gray, cryptocrystalline, fossiliferous to oomoldic and sub, oomoldic, some good small mold porosity, trace asphaltic dead stain, some sharp fresh smokey gray chert, fossiliferous, no other shows noted

limestone, mixed non-descript fossiliferous, all very fine samples, noted 1 piece small gray fossiliferous, pin-point porosity, trace stain, slight bleeding sheen, no odor in wet cup, abundant chalk in samples

Andys Mud chk
 @ 3588 ft.
 0930 hrs. 12/6/15
 Vis. 44 Wt. 9.1
 PV 14 YP 16
 WL 8.8
 Cake 1/32,
 pH 10.0
 CHL 10,000 ppm
 Ca 18 ppm
 Sol 4.1 LCM 2.5#
 DMC \$1303.70
 CMC \$9760.50

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100





shale, green with maroon and green/maroon mottled, some sandy, trace sand clusters, white well rounded quartz sand, no shows

influx waxy green pyritic shale, still carrying abundant chert from above

Simpson Sand 3919 -1941 Arbuckle 3924 -1946

sandstone, quartz, fine to very fine grain, fair to poor sorting, sub-rounded, fair cemented to slightly friable, some fair inter-granular and porosity, light gray/brown stain, slight show free oil, fair odor, light fluorescence, slow fair cut, good cut on break

dolomite, light gray to white, cryptocrystalline, dense and barren with microcrystalline, rhombic to sub-rhombic, some good intercrystalline and small vuggy porosity, spotty light brown to black stain, fair show oil, weak odor, good white fluorescence, excellent cut

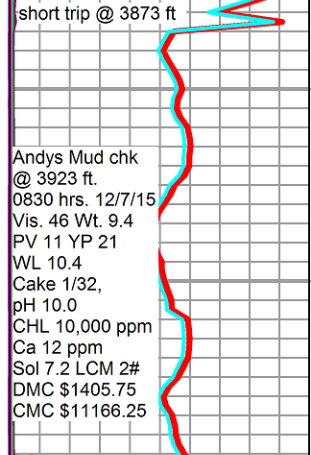
3941-3960 samples, dolomite, white to light gray, cryptocrystalline, dense, lithographic, slight scattered weathering with dead stain, white sucrosic, barren, white microcrystalline rhombic, fair intercrystalline porosity, spotty black stain, trace heavy black oil on break, no bleeding oil, yellow fluorescence, faint odor in wet cup @ 41, drops off to sulfur odor at 3960 sample

3870 - 3990 sample, a.a., trace oomoldic, some fossiliferous chert

4000 dolomite, light gray to light tan, micro-fine crystalline, rhombic to recrystallized, some good intercrystalline porosity, 1 piece bleeding heavy tarry oil, 1 piece with light stain, rest is barren, no odor in wet cups

cfs samples, as above, more recrystallized, trace stain, flood chalk and caliche

Rotary TD 4000 ft @ 1515 hrs 12/8/15
CJ Cased Hole Sol. Log TD 3993 ft
complete logging operations @ 1945 hrs 12/8/15



short trip @ 3873 ft
Andys Mud chk @ 3923 ft. 0830 hrs. 12/7/15
Vis. 46 Wt. 9.4
PV 11 YP 21
WL 10.4
Cake 1/32,
pH 10.0
CHL 10,000 ppm
Ca 12 ppm
Sol 7.2 LCM 2#
DMC \$1405.75
CMC \$11166.25

SC	Total Gas (units)	200
0	C1 (units)	200
0	C2 (units)	200
0	C3 (units)	200
0	C4 (units)	200

Arbuckle gas kick 180 unit total

0	Total Gas (units)	200
0	C1 (units)	200
0	C2 (units)	200
0	C3 (units)	200
0	C4 (units)	200



DRILL STEM TEST REPORT

Prepared For: **YOUNGER ENERGY COMPANY**

9415 E. HARRY SUITE 403
BUILDING 400
WICHITA, KANSAS 67207

ATTN: KEITH REAVIS

SCHARTZ 2-34

34-21S-15W PAWNEE

Start Date: 2015.12.07 @ 10:11:00

End Date: 2015.12.07 @ 17:25:00

Job Ticket #: 01203 DST #: 1

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2015.12.07 @ 17:51:32



DRILL STEM TEST REPORT

YOUNGER ENERGY COMPANY

34-21S-15W PAWNEE

9415 E. HARRY SUITE 403
 BUILDING 400
 WICHITA, KANSAS 67207
 ATTN: KEITH REAVIS

SCHARTZ 2-34

Job Ticket: 01203

DST#: 1

Test Start: 2015.12.07 @ 10:11:00

GENERAL INFORMATION:

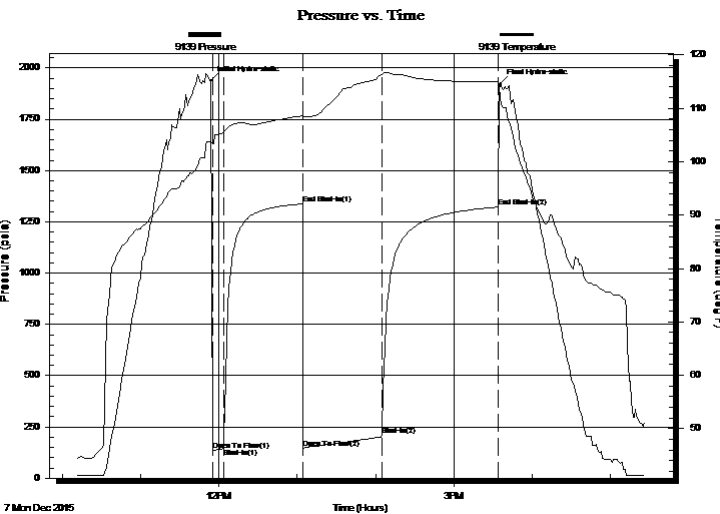
Formation: **SIMPSON SAND**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:54:00
 Time Test Ended: 17:25:00
 Interval: **3728.00 ft (KB) To 3923.00 ft (KB) (TVD)**
 Total Depth: 3923.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No: 1-56
 Reference Elevations: 1978.00 ft (KB)
 1970.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 9139

Outside

Press@RunDepth: 1321.29 psia @ 3918.18 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.12.07 End Date: 2015.12.07 Last Calib.: 2015.12.07
 Start Time: 10:11:00 End Time: 17:26:30 Time On Btm: 2015.12.07 @ 11:54:00
 Time Off Btm: 2015.12.07 @ 15:35:30

TEST COMMENT: 1ST OPENING 10 MINUTES WEAK BLOW BUILT TO 4 INCHES INTO THE WATER
 1ST SHUT-IN 60 MINUTES-NO BLOW BACK
 2ND OPENING 60 MINUTES WEAK BUILDING BLOW BUILT TO BOTTOM OF THE BUCKET IN 40 MINUTES
 2ND SHUT-IN 90 MINUTES



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1936.76	103.76	Initial Hydro-static
1	134.17	103.36	Open To Flow (1)
10	143.86	105.52	Shut-In(1)
70	1336.36	108.59	End Shut-In(1)
71	147.49	108.31	Open To Flow (2)
131	210.03	116.40	Shut-In(2)
220	1321.29	114.99	End Shut-In(2)
222	1921.47	111.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GAS IN THE PIPE	0.84
20.00	MUDDY OIL 60 OIL 40 MUD	0.28
60.00	OIL CUT MUD 35 OIL 65 MUD	0.84
60.00	OIL CUT MUD 25 OIL 75 MUD	0.84
60.00	OIL CUT MUD 20 OIL 80 MUD	0.84

Gas Rates

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



DRILL STEM TEST REPORT

YOUNGER ENERGY COMPANY

34-21S-15W PAWNEE

9415 E. HARRY SUITE 403
 BUILDING 400
 WICHITA, KANSAS 67207
 ATTN: KEITH REAVIS

SCHARTZ 2-34

Job Ticket: 01203

DST#: 1

Test Start: 2015.12.07 @ 10:11:00

GENERAL INFORMATION:

Formation: **SIMPSON SAND**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:54:00

Time Test Ended: 17:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1-56

Interval: **3728.00 ft (KB) To 3923.00 ft (KB) (TVD)**

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3923.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9119

Inside

Press@RunDepth: 1321.80 psia @ 3918.18 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.12.07

End Date: 2015.12.07

Last Calib.: 2015.12.07

Start Time: 10:11:00

End Time: 17:26:30

Time On Btm: 2015.12.07 @ 11:53:30

Time Off Btm: 2015.12.07 @ 15:35:30

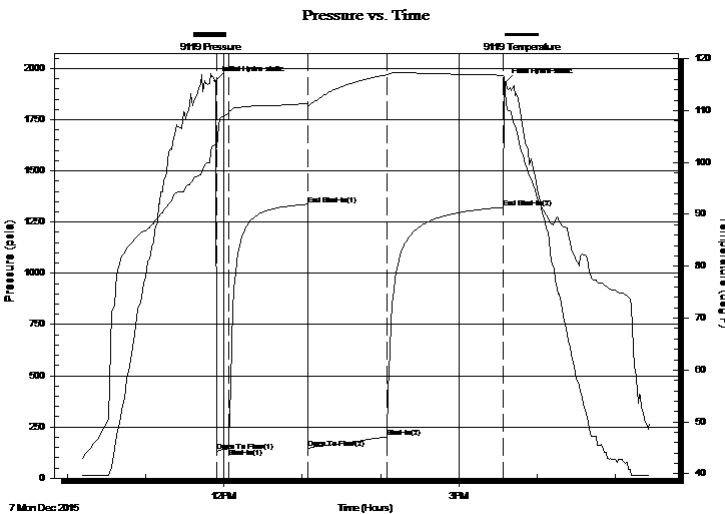
TEST COMMENT: 1ST OPENING 10 MINUTES WEAK BLOW BUILT TO 4 INCHES INTO THE WATER

1ST SHUT-IN 60 MINUTES-NO BLOW BACK

2ND OPENING 60 MINUTES WEAK BUILDING BLOW BUILT TO BOTTOM OF THE BUCKET IN 40 MINUTES

2ND SHUT-IN 90 MINUTES

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1939.77	103.41	Initial Hydro-static
1	132.86	102.76	Open To Flow (1)
10	143.75	109.59	Shut-In(1)
71	1336.81	111.36	End Shut-In(1)
71	146.48	110.99	Open To Flow (2)
132	201.72	116.88	Shut-In(2)
221	1321.80	116.82	End Shut-In(2)
222	1928.87	113.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GAS IN THE PIPE	0.84
20.00	MUDDY OIL 60 OIL 40 MUD	0.28
60.00	OIL CUT MUD 35 OIL 65 MUD	0.84
60.00	OIL CUT MUD 25 OIL 75 MUD	0.84
60.00	OIL CUT MUD 20 OIL 80 MUD	0.84

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

YOUNGER ENERGY COMPANY

34-21S-15W PAWNEE

9415 E. HARRY SUITE 403
 BUILDING 400
 WICHITA, KANSAS 67207
 ATTN: KEITH REAVIS

SCHARTZ 2-34

Job Ticket: 01203

DST#: 1

Test Start: 2015.12.07 @ 10:11:00

Tool Information

Drill Pipe:	Length: 3716.00 ft	Diameter: 3.80 inches	Volume: 52.13 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 74000.00 lb
			Total Volume: 52.13 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3728.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	195.18 ft			
Tool Length:	224.18 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3704.00	
Hydraulic tool	5.00			3709.00	
Jars	7.00			3716.00	
Safety Joint	2.00		Fluid	3718.00	
Top Packer	5.00			3723.00	
Packer	5.00			3728.00	29.00 Bottom Of Top Packer
Anchor	5.00			3733.00	
Change Over Sub	0.75			3733.75	
Drill Pipe	156.68			3890.43	
Change Over Sub	0.75			3891.18	
Anchor	27.00			3918.18	
Recorder	0.00	9119	Inside	3918.18	
Recorder	0.00	9139	Outside	3918.18	
Bullnose	5.00			3923.18	195.18 Anchor Tool

Total Tool Length: 224.18



DRILL STEM TEST REPORT

FLUID SUMMARY

YOUNGER ENERGY COMPANY

34-21S-15W PAWNEE

9415 E. HARRY SUITE 403
 BUILDING 400
 WICHITA, KANSAS 67207
 ATTN: KEITH REAVIS

SCHARTZ 2-34

Job Ticket: 01203

DST#: 1

Test Start: 2015.12.07 @ 10:11:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 46.00 sec/qt
 Water Loss: 10.40 in³
 Resistivity: ohm.m
 Salinity: 10000.00 ppm
 Filter Cake: 1.00 inches

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

Oil API: deg API
 Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GAS IN THE PIPE	0.842
20.00	MUDDY OIL 60 OIL 40 MUD	0.281
60.00	OIL CUT MUD 35 OIL 65 MUD	0.842
60.00	OIL CUT MUD 25 OIL 75 MUD	0.842
60.00	OIL CUT MUD 20 OIL 80 MUD	0.842

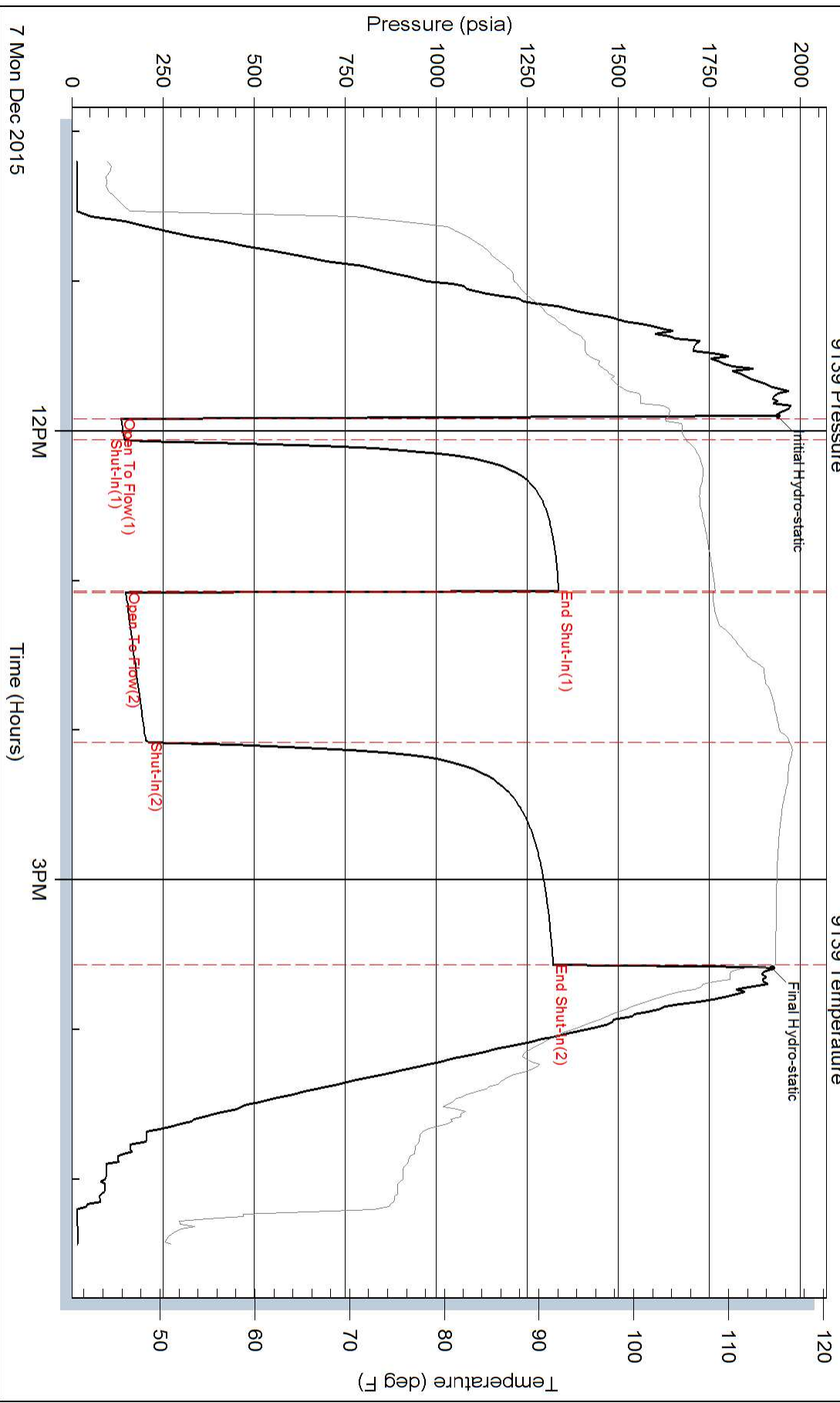
Total Length: 260.00 ft Total Volume: 3.649 bbl

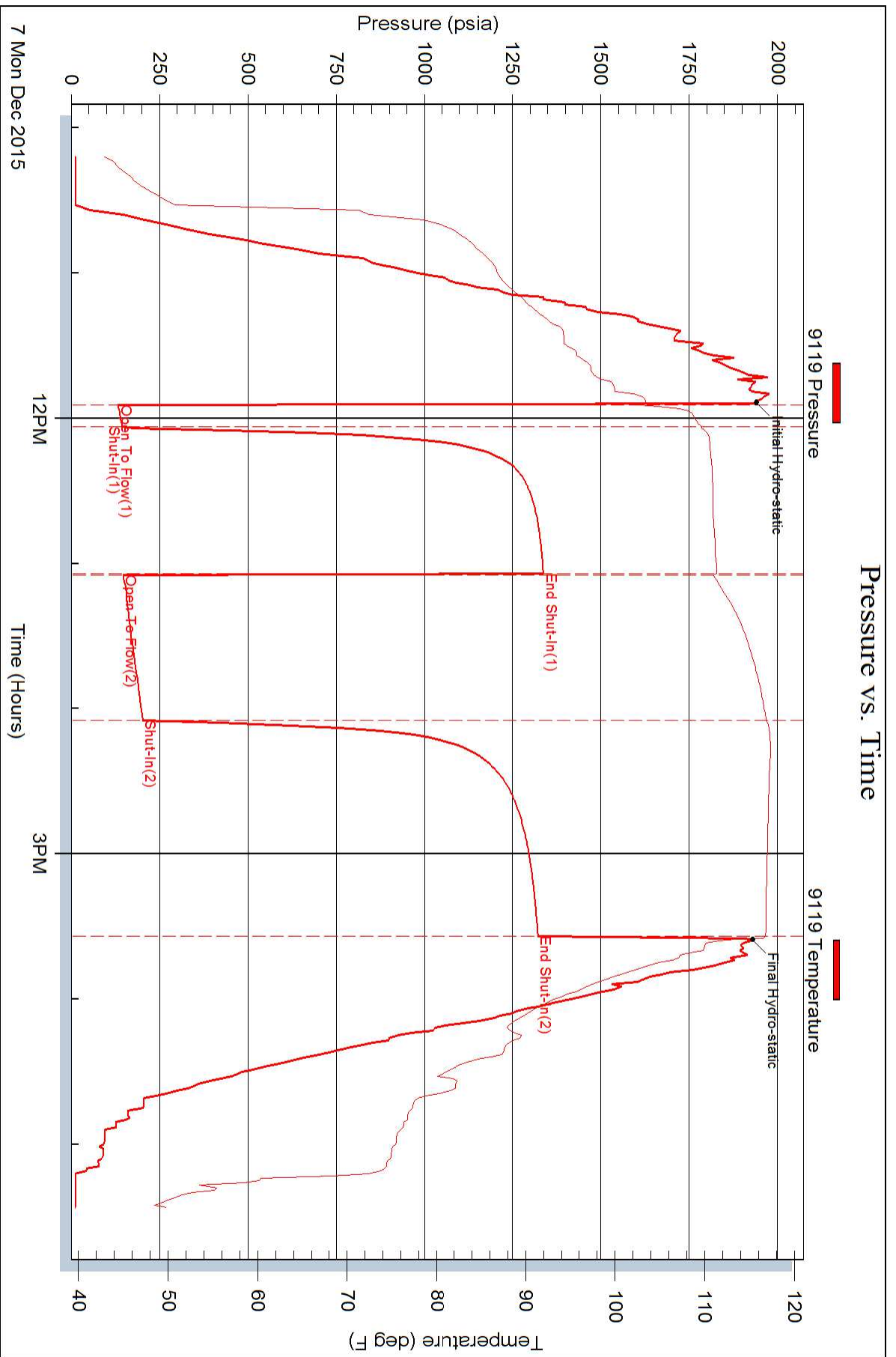
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **YOUNGER ENERGY COMPANY**

9415 E. HARRY SUITE 403
BUILDING 400
WICHITA, KANSAS 67207

ATTN: KEITH REAVIS

SCHARTZ 2-34

34-21S-15W PAWNEE

Start Date: 2015.12.08 @ 01:20:00

End Date: 2015.12.08 @ 09:02:00

Job Ticket #: 01204 DST #: 2

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2015.12.08 @ 09:41:58



DRILL STEM TEST REPORT

YOUNGER ENERGY COMPANY

34-21S-15W PAWNEE

9415 E. HARRY SUITE 403
 BUILDING 400
 WICHITA, KANSAS 67207
 ATTN: KEITH REAVIS

SCHARTZ 2-34

Job Ticket: 01204

DST#: 2

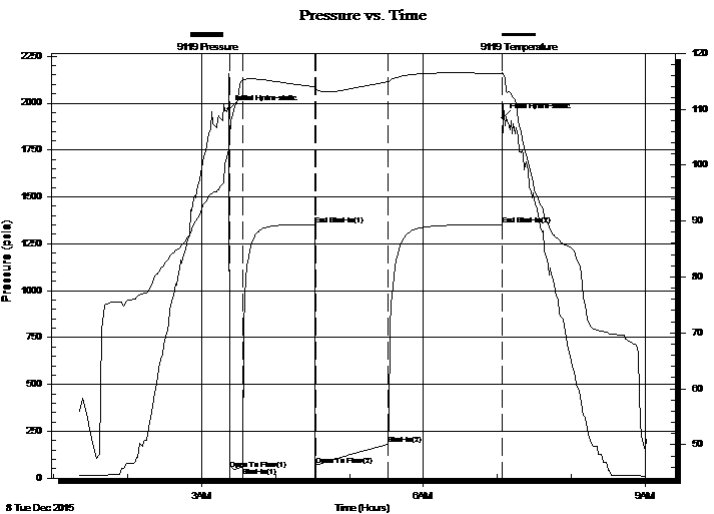
Test Start: 2015.12.08 @ 01:20:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:23:00
 Time Test Ended: 09:02:00
 Interval: **3925.00 ft (KB) To 3931.00 ft (KB) (TVD)**
 Total Depth: 3931.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No: 1
 Reference Elevations: 1978.00 ft (KB)
 1970.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 1351.62 psia @ 3926.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.12.08 End Date: 2015.12.08 Last Calib.: 2015.12.08
 Start Time: 01:20:00 End Time: 09:01:00 Time On Btm: 2015.12.08 @ 03:21:30
 Time Off Btm: 2015.12.08 @ 07:04:30

TEST COMMENT: 1ST OPENING 10 MINUTES WEAK BUILDING BLOW BUILT TO 10 INCHES INTO THE WATER
 1ST SHUT-IN 60 MINUTES NO BLOW BACK
 2ND OPENING 60 MINUTES WEAK BUILDING BLOW BUILT TO BOTTOM OF THE BUCKET IN 25 MINUTES
 2ND L;SHUT-IN 90 MINUTES-WEAK BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1965.83	102.72	Initial Hydro-static
1	46.89	103.81	Open To Flow (1)
12	59.22	115.09	Shut-In(1)
70	1352.04	114.03	End Shut-In(1)
71	68.71	113.56	Open To Flow (2)
130	180.66	114.90	Shut-In(2)
222	1351.62	116.38	End Shut-In(2)
223	1920.70	116.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GAS IN THE PIPE	0.84
110.00	CLEAN GASSY OIL GAS 85 OIL	1.54
60.00	OIL CUT MUDDY WATER	0.84
0.00	20 OIL 15 MUD 65 WATER	0.00
120.00	SLIGHTLY OIL AND MUD CUT WATER	1.68
0.00	1 OIL 6 MUD 93 WATER	0.00

Gas Rates

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



DRILL STEM TEST REPORT

YOUNGER ENERGY COMPANY

34-21S-15W PAWNEE

9415 E. HARRY SUITE 403
 BUILDING 400
 WICHITA, KANSAS 67207
 ATTN: KEITH REAVIS

SCHARTZ 2-34

Job Ticket: 01204

DST#: 2

Test Start: 2015.12.08 @ 01:20:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:23:00

Time Test Ended: 09:02:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3925.00 ft (KB) To 3931.00 ft (KB) (TVD)**

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3931.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9134

Outside

Press@RunDepth: 1351.29 psia @ 3926.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.12.08

End Date: 2015.12.08

Last Calib.: 2015.12.08

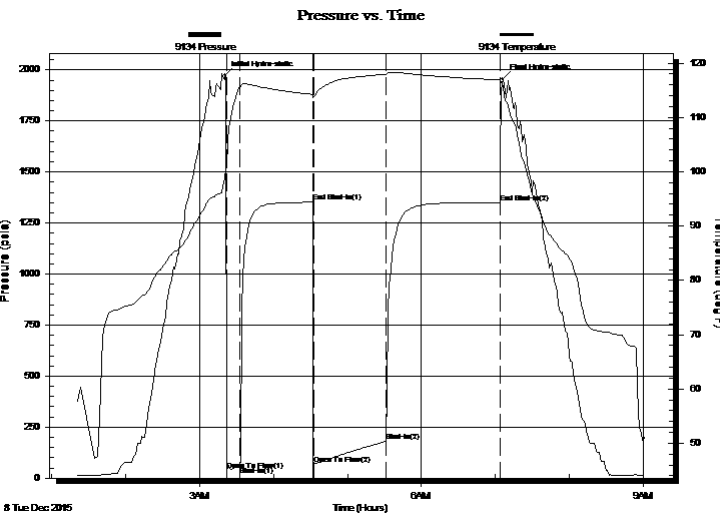
Start Time: 01:20:00

End Time: 09:01:00

Time On Btm: 2015.12.08 @ 03:20:30

Time Off Btm: 2015.12.08 @ 07:06:00

TEST COMMENT: 1ST OPENING 10 MINUTES WEAK BUILDING BLOW BUILT TO 10 INCHES INTO THE WATER
 1ST SHUT-IN 60 MINUTES NO BLOW BACK
 2ND OPENING 60 MINUTES WEAK BUILDING BLOW BUILT TO BOTTOM OF THE BUCKET IN 25 MINUTES
 2ND L;SHUT-IN 90 MINUTES-WEAK BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1974.61	99.12	Initial Hydro-static
2	39.66	100.66	Open To Flow (1)
12	59.18	115.50	Shut-In(1)
71	1351.65	114.25	End Shut-In(1)
72	69.54	113.79	Open To Flow (2)
131	180.75	117.94	Shut-In(2)
223	1351.29	116.94	End Shut-In(2)
226	1956.79	115.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GAS IN THE PIPE	0.84
110.00	CLEAN GASSY OIL GAS 85 OIL	1.54
60.00	OIL CUT MUDDY WATER	0.84
0.00	20 OIL 15 MUD 65 WATER	0.00
120.00	SLIGHTLY OIL AND MUD CUT WATER	1.68
0.00	1 OIL 6 MUD 93 WATER	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

YOUNGER ENERGY COMPANY

34-21S-15W PAWNEE

9415 E. HARRY SUITE 403
 BUILDING 400
 WICHITA, KANSAS 67207
 ATTN: KEITH REAVIS

SCHARTZ 2-34

Job Ticket: 01204

DST#: 2

Test Start: 2015.12.08 @ 01:20:00

Tool Information

Drill Pipe:	Length: 3907.00 ft	Diameter: 3.80 inches	Volume: 54.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
		Total Volume: 54.80 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3925.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	28.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3908.00	
Hydraulic tool	5.00			3913.00	
Safety Joint	2.00		Fluid	3915.00	
Top Packer	5.00			3920.00	
Packer	5.00			3925.00	22.00 Bottom Of Top Packer
Anchor	1.00			3926.00	
Recorder	0.00	9119	Inside	3926.00	
Recorder	0.00	9134	Outside	3926.00	
Bullnose	5.00			3931.00	6.00 Anchor Tool
Total Tool Length:	28.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

YOUNGER ENERGY COMPANY

34-21S-15W PAWNEE

9415 E. HARRY SUITE 403
 BUILDING 400
 WICHITA, KANSAS 67207
 ATTN: KEITH REAVIS

SCHARTZ 2-34

Job Ticket: 01204

DST#: 2

Test Start: 2015.12.08 @ 01:20:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 46.00 sec/qt
 Water Loss: 10.40 in³
 Resistivity: ohm.m
 Salinity: 10000.00 ppm
 Filter Cake: 1.00 inches

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

Oil API: 33 deg API
 Water Salinity: 18 ppm

Recovery Information

Recovery Table

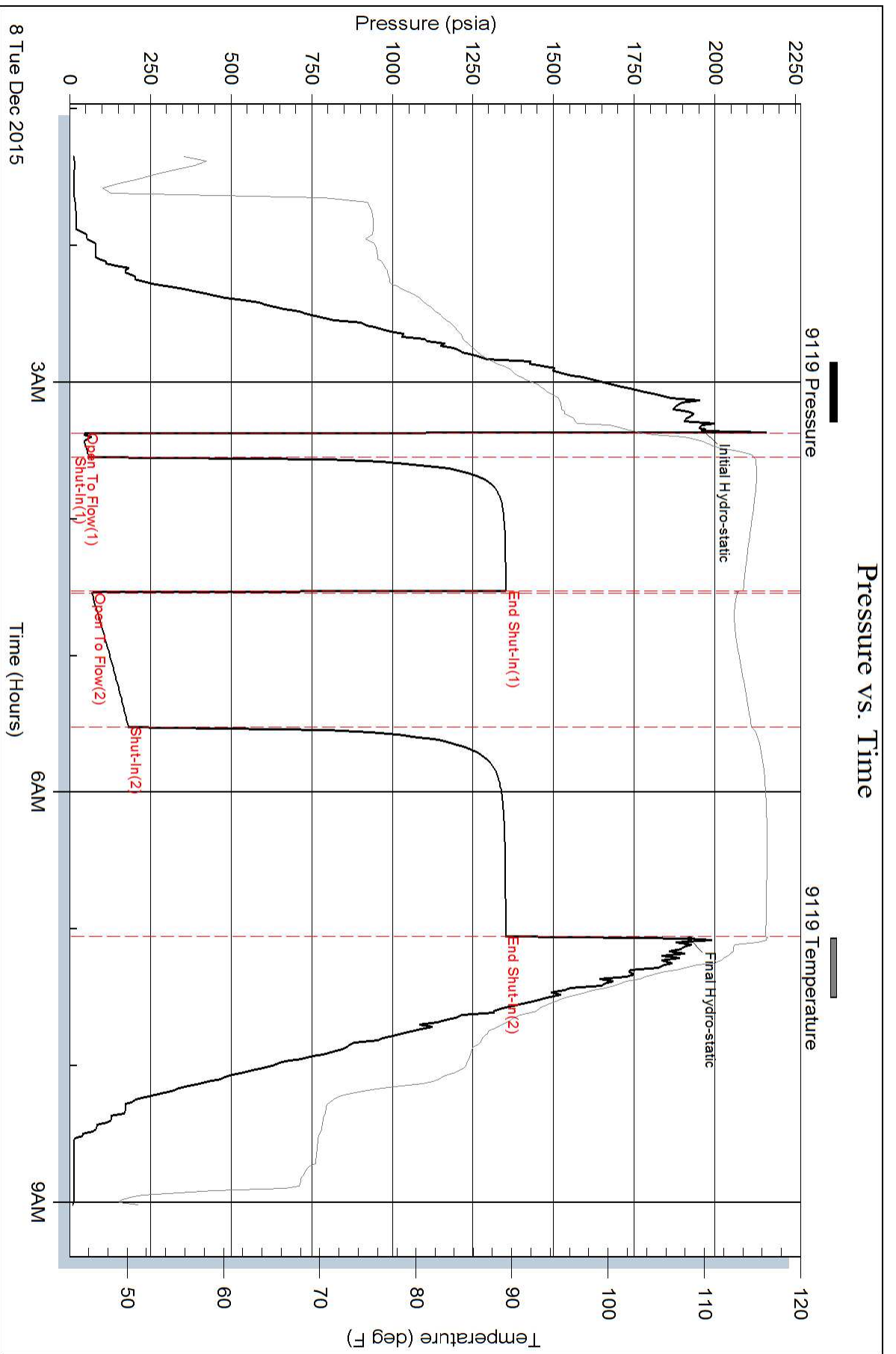
Length ft	Description	Volume bbl
60.00	GAS IN THE PIPE	0.842
110.00	CLEAN GASSY OIL GAS 85 OIL	1.543
60.00	OIL CUT MUDDY WATER	0.842
0.00	20 OIL 15 MUD 65 WATER	0.000
120.00	SLIGHTLY OIL AND MUD CUT WATER	1.683
0.00	1 OIL 6 MUD 93 WATER	0.000
120.00	SLIGHTLY MUDDY WATER WITH A TRACE O	1.683
0.00	TRACE OF OIL 3 MUD 97 WATER	0.000
0.00	CHKLORIDES 18,000 GRAVITY 33 CORRECTI	0.000

Total Length: 470.00 ft Total Volume: 6.593 bbl

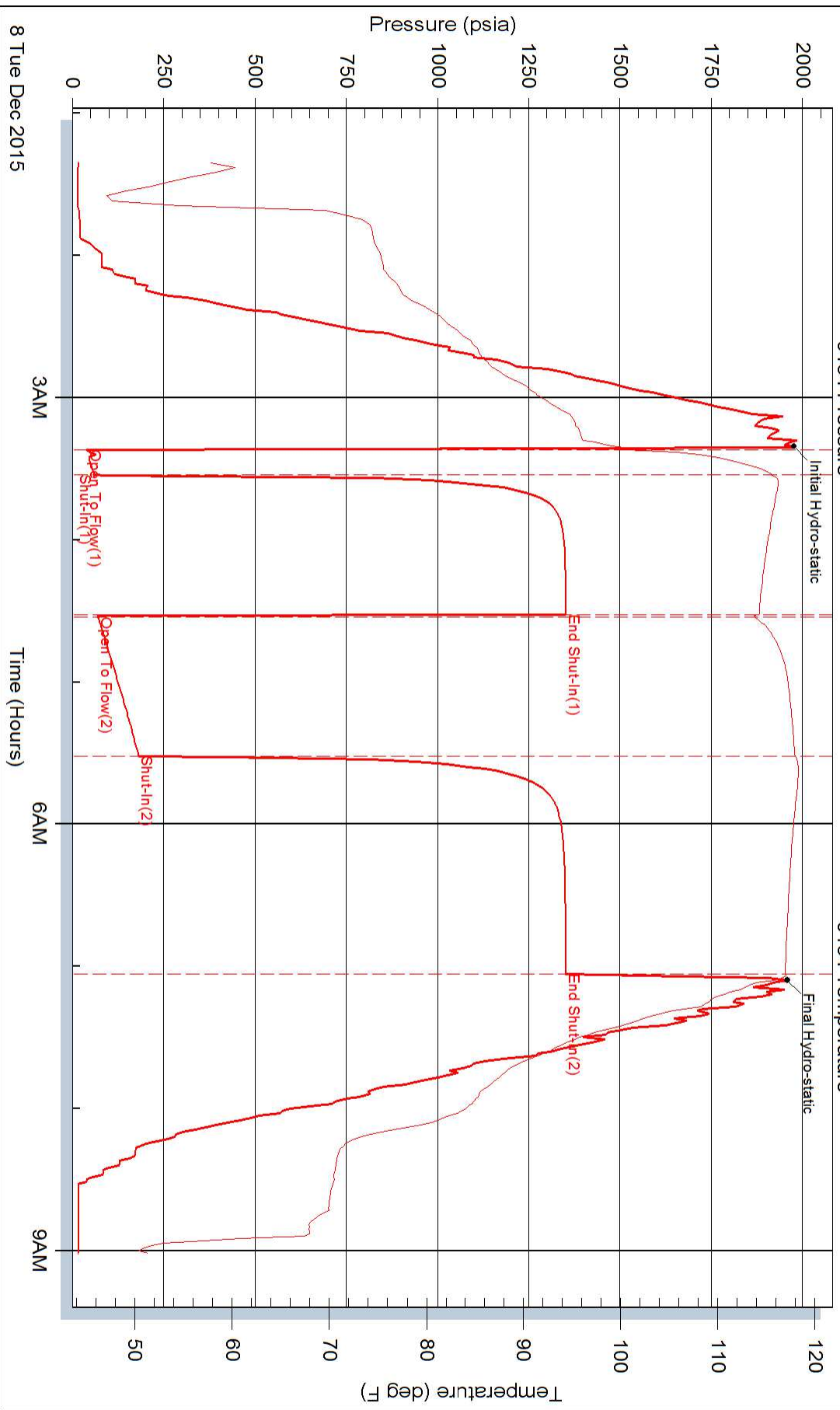
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



Pressure vs. Time





INVOICE

P.O. Box 205803
Dallas, TX 75320-5803

Invoice Number: 151349
Invoice Date: Dec 2, 2015
Page: 1

Voice: (832) 482-3742
Fax: (832) 482-3738

Federal Tax I.D.#: 20-8651475

Bill To:
Younger Energy Co. 9415 E. Harry St. STE #403 Wichita, KS 67207-5083

Customer ID	Field Ticket #	Payment Terms	
Youn	GBK12021515	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Dec 2, 2015	1/1/16

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Shark #12451 SCHARTZ #2-34		
1.00	CEMENT SERVICE	Surface	2,058.50	2,058.50
419.00	CEMENT SERVICE	PHDL	2.48	1,039.12
180.00	CEMENT SERVICE	DRYG	2.75	495.00
10.00	CEMENT SERVICE	MILV	4.40	44.00
10.00	CEMENT SERVICE	MIHV	7.70	77.00
1.00	EQUIPMENT SALES	8.625 AFV	447.00	447.00
3.00	EQUIPMENT SALES	8.625 CEN	75.00	225.00
1.00	EQUIPMENT SALES	8.625 TRP	131.00	131.00
588.00	CEMENT MATERIALS	CA-100	1.10	646.80
225.00	CEMENT MATERIALS	Light Weight Cement	17.90	4,027.50
57.00	CEMENT MATERIALS	Celloflake	2.97	169.29
150.00	CEMENT MATERIALS	Class A Common	17.90	2,685.00
423.00	CEMENT MATERIALS	CA-100	1.10	465.30
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material & Equipment	4,838.29	-4,838.29
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	2,042.49	-2,042.49
1.00	CEMENT SUPERVISOR	Roger Smith		
1.00	CEMENT SUPERVISOR	Wayne Davis		
1.00	OPERATOR ASSISTANT	Marlyn Spangenberg		

RECEIVED DEC 14 2015

COC

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. ONLY IF PAID ON OR
BEFORE

Jan 1, 2016

1 1/2% CHARGED
THEREAFTER.

Subtotal	5,629.73
Sales Tax	336.48
Total Invoice Amount	5,966.21
Payment/Credit Applied	
TOTAL	5,966.21

DP

180211
Cement 8-5/8" surface csg w/ 225 sxs light
150 sxs class A - cement circulated to surface

Schartz 2-34
5/18

DP 5

ALLIED OIL & GAS SERVICES, LLC 065186

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
GB

DATE <u>12-2-15</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Schantz</u> 'ELL # <u>2-34</u>						COUNTY	STATE
OLD OR <u>(NEW)</u> (Circle one)							

CONTRACTOR

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 946

CASING SIZE 8 5/8 DEPTH 945

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 37'

CEMENT LEFT IN CSG. 37

PERFS.

DISPLACEMENT 57.7 BBL

EQUIPMENT

PUMP TRUCK CEMENTER R Smith

366 HELPER Wayne

BULK TRUCK

609-198 DRIVER Marvin

BULK TRUCK

DRIVER

REMARKS:

Good Cement Back to Surface
Float's held

CHARGE TO: _____

STREET _____

CITY _____ STATE _____ ZIP _____

OWNER

CEMENT

AMOUNT ORDERED 225 ALLIED Light

150 5'S ~~225~~ 225 CC, 250 oil float

Common

ALLIED Light 225 SC

COMMON 150 SC @ _____

POZMIX @ _____

GEL @ _____

CHLORIDE 588,423 # @ _____

ASC @ _____

Cellflk# 57# @ _____

@ _____

@ _____

@ _____

@ _____

@ _____

HANDLING 419 @ _____

MILEAGE 10 @ _____

TOTAL _____

SERVICE

DEPTH OF JOB 945'

PUMP TRUCK CHARGE 945'

EXTRA FOOTAGE @ _____

MILEAGE @ _____

MANIFOLD @ _____

@ _____

@ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

@ _____

@ _____

@ _____

@ _____

@ _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment

Field Ticket Number: GBK12021515

Field Ticket Date:

Wednesday, December 02, 2015

Bill To:
Younger Energy
Stafford, Kansas 67578
#N/A

Job Name: 01 Surface
Well Location: Pawnee, Kansas
Well Name: Shark
Well Number: 12451
Well Type: New Well
Rig Number:
Shipping Point: Great Bend, KS
Sales Office: Mid Con

PERSONEL		EQUIPMENT	
Roger Smith		927	
Wayne		366	
Marilyn		609-198	

SERVICES - SERVICES - SERVICES

Description	Qty	UoM	Unit Price	Subtotal	Rate	Discount	Net Amount
PUMP,CASING CEMENT 501-1000 FT	1.00	min. 4 hr	2,058.50	2058.50	926.33	55.0%	926.33
PHDL	419.00	per cu. Ft.	2.48	1039.12	1.12	55.0%	467.60
DRYG	180.00	ton-mile	2.75	495.00	1.24	55.0%	222.75
MILV	10.00	per mile	4.40	44.00	1.98	55.0%	19.80
MIHV	10.00	per mile	7.70	77.00	3.47	55.0%	34.65

FLOAT EQUIPMENT - FLOAT EQUIPMENT - FLOAT EQUIPMENT

AFV-8.625	1.00	each	447.00	447.00	201.15	55.0%	201.15
CEN-8.625	3.00	each	75.00	225.00	33.75	55.0%	101.25
TRP-8.625	1.00	each	131.00	131.00	58.95	55.0%	58.95

MATERIALS - MATERIALS - MATERIALS

	0.00		0.00	0.00	0.00	55.0%	0.00
CA-100	588.00	pound	1.10	646.80	0.50	55.0%	291.06
Allied Light weight cement	225.00	sack	17.90	4,027.50	8.06	55.0%	1,812.38
Celloflake	57.00	pound	2.97	169.29	1.34	55.0%	76.18
Class A Common	150.00	sack	17.90	2,685.00	8.06	55.0%	1,208.25
Ca-100	423.00	pound	1.10	465.30	0.50	55.0%	209.39

ADDITIONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS

Cementing Head Rental with Manifold (Low Pres)	0.00	per day	275.00	0.00	123.75	55.0%	0.00
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	Gross	Discount	Final
Services Total	3,713.62	2,042.49	1,671.13
Equipment Total	803.00	441.65	361.35
Materials Total	7,993.89	4,396.64	3,597.25
Additional Items	0.00	0.00	0.00
Final Total	12,510.51	6,880.78	5,629.73

Allied Rep: Roger Smith
Customer Agent:

This output does NOT include taxes. Applicable sales tax will be billed on the final invoice.
Customer hereby acknowledges receipt of the materials and services described above and on the attached documents.
I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page.

x Dion Vasquez
Customer Signature

Field Ticket Total (USD):

\$5,629.73



P.O. Box 205803
Dallas, TX 75320-5803

Voice: (832) 482-3742
Fax: (832) 482-3738

RECEIVED DEC 21 2015
INVOICE

Invoice Number: 151385
Invoice Date: Dec 9, 2015
Page: 1

Federal Tax I.D.#: 20-8651475

Bill To:
Younger Energy Co. 9415 E. Harry St. STE #403 Wichita, KS 67207-5083

Customer ID	Field Ticket #	Payment Terms	
Youn	67711	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Great Bend	Dec 9, 2015	1/8/16

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Shark #2-24 SCHARTZ 2-34		
95.00	CEMENT MATERIALS	65/35/6% Gel Blend	17.90	1,700.50
135.00	CEMENT MATERIALS	ASC	23.50	3,172.50
10.00	CEMENT MATERIALS	Reactive Wash	173.00	1,730.00
24.00	CEMENT MATERIALS	Flo Seal	2.97	71.28
19.00	CEMENT MATERIALS	Defoamer	3.50	66.50
39.00	CEMENT MATERIALS	FL-160	18.90	737.10
675.00	CEMENT MATERIALS	Gilsonite	0.98	661.50
283.00	CEMENT SERVICE	Cubic Feet Charge	2.48	701.84
120.00	CEMENT SERVICE	Ton Mileage Charge	2.75	330.00
1.00	CEMENT SERVICE	Production	2,058.50	2,058.50
10.00	CEMENT SERVICE	Pump Truck Mileage	7.70	77.00
10.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	44.00
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
1.00	EQUIPMENT SALES	5-1/2 AFU Float Shoe	545.00	545.00
1.00	EQUIPMENT SALES	5-1/2 Latch Down Assembly	660.00	660.00
3.00	EQUIPMENT SALES	5-1/2 Basket	395.00	1,185.00
10.00	EQUIPMENT SALES	5-1/2 Turbolizer	95.00	950.00
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material & Equipment	6,313.66	-6,313.66
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	1,917.49	-1,917.49
1.00	CEMENT SUPERVISOR	Alan Ryan		

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE <div style="border: 1px solid black; padding: 2px; display: inline-block;">Jan 8, 2016</div> 1 1/2% CHARGED THEREAFTER.	Subtotal	Continued
	Sales Tax	Continued
	Total Invoice Amount	Continued
	Payment/Credit Applied	
	TOTAL	Continued

1180311
Cement 5 1/2" production esg
w/180 sxs, 50 sxs in Rate. Mouse H/L #2

OP
Schartz #2
copy to Ryan
JIB



INVOICE

P.O. Box 205803
Dallas, TX 75320-5803

Invoice Number: 151385
Invoice Date: Dec 9, 2015
Page: 2

Voice: (832) 482-3742
Fax: (832) 482-3738

Federal Tax I.D.#: 20-8651475

Bill To:
Younger Energy Co. 9415 E. Harry St. STE #403 Wichita, KS 67207-5083

Customer ID	Field Ticket #	Payment Terms	
Youn	67711	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Great Bend	Dec 9, 2015	1/8/16

Quantity	Item	Description	Unit Price	Amount
1.00	CEMENT SUPERVISOR	Wayne Davis		
1.00	OPERATOR ASSISTANT	Marlyn Spangenberg		

<p>ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE</p> <p>Jan 8, 2016</p> <p>1 1/2% CHARGED THEREAFTER.</p>	Subtotal	6,734.57
	Sales Tax	439.09
	Total Invoice Amount	7,173.66
	Payment/Credit Applied	
	TOTAL	7,173.66

ALLIED OIL & GAS SERVICES, LLC

Federal Tax i.D. #20-5975804

067711

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

Service Point: Green Bend
Orlando, TX

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
12/9/15						10:30 AM	10:30 AM
LEASE #	WELL #	LOCATION		COUNTY	STATE		
	24	Car road E 50 30 AV N TO W		Lawson	TX		
OLD OR NEW (Circle one)							
NEW		1/2 W - N 1/2 S					

CONTRACTOR	<u>Drake 2</u>
TYPE OF JOB	<u>Prod</u>
HOLE SIZE	<u>7 7/8</u>
CASING SIZE	<u>5 1/2</u>
TUBING SIZE	<u>17 1/8</u>
DRILL PIPE	
TOOL	
PRES. MAX	
MEAS. LINE	
CEMENT LEFT IN CSG.	<u>20'</u>
PERFS.	
DISPLACEMENT	

OWNER	<u>San</u>
CEMENT	
AMOUNT ORDERED	<u>95 SK ANW-05/85 cement 114.76</u> <u>135 SK 1090 GEL 2700.00 5th Gibbsite 131.70</u> <u>FL-160 14 @ 131K cement</u>
FL-160	<u>14 @ 131K cement</u>
COMMON	<u>95 @ 17.20 1700.00</u>
POZMIX	@
GEL	@
CHLORIDE	@
ASC	<u>135 SK @ 23.20 3122.00</u>
55-50 Reaction Wash	<u>10 BBL @ 123.00 1230.00</u>
Ele Seal	<u>24 lb @ 2.22 53.28</u>
Defoamer	<u>19 lb @ 3.20 60.80</u>
FL 160	<u>14 @ 18.20 254.80</u>
Gibbsite	<u>675 @ 1.90 1282.50</u>
TOTAL	<u>8139.38</u>

EQUIPMENT	
PUMP TRUCK	CEMENTER <u>Alan</u>
#	<u>366</u>
BULK TRUCK	HELPER <u>Wayne</u>
#	<u>51112</u>
BULK TRUCK	DRIVER <u>Maxlyn</u>
#	

REMARKS:

Along Co. Any Fluid, Tot of 160 max 20 SK ANW-1052.00
mix 45 SK ANW Anna 5 1/2 Tail of 135 SK ASC
Wash Truck, Displace 10 @ 9.14 BBL 160 w/
800 PFT. Cost. and Plug @ 1250 PFT

Frank
Alan Wayne, Maxlyn

CHARGE TO: Energy Energy
STREET _____
CITY _____ STATE _____ ZIP _____

DISCOUNT 55% 4.476.16
3.162.72

SERVICE

HANDLING	<u>283 CF @ 2.22</u>	<u>701.84</u>
MILEAGE	<u>275 @ 1.20</u>	<u>330.00</u>
DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>2058.00</u>
EXTRA FOOTAGE	@	
HV MILEAGE	<u>10 @ 7.20</u>	<u>72.00</u>
LV MILEAGE	<u>10 @ 4.90</u>	<u>49.00</u>
H- main field	@	<u>225.00</u>
TOTAL		<u>3486.31</u>

DISCOUNT 55% 1.917.49
1568.45

PLUG & FLOAT EQUIPMENT

APN Floats	<u>1 @ 545.00</u>	<u>545.00</u>
Cable/Lane Assembly	<u>1 @ 600.00</u>	<u>600.00</u>
Brackets	<u>3 @ 395.00</u>	<u>1185.00</u>
Tasco's	<u>10 @ 95.00</u>	<u>950.00</u>
TOTAL		<u>3340.00</u>

DISCOUNT 55% 1.837.00
1503.00

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Dion Vasquez

SIGNATURE Dion Vasquez

SALES TAX (If Any) _____
TOTAL CHARGES 14.965.72
DISCOUNT 8.231.15 IF PAID IN 30 DAYS
NET TOTAL 6.734.57 IF PAID IN 30 DAYS