



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1270988
OIL & GAS CONSERVATION DIVISION

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 # _____

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 SIOW
- 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:

Operator: _____

Well Name: _____

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 #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1270988

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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1007761	1718	06/18/2015
INVOICE NUMBER			
91838295			

Pratt (620) 672-1201
 B VALHALLA EXPLORATION LLC
 I 8100 EAST 22ND STREET N 1800-2
 L WICHITA
 L KS US 67226
 T
 O ATTN: KENNEDY

J LEASE NAME Boye 1-16
 O LOCATION
 B COUNTY Ellsworth
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40850133	19843		Net - 30 days	07/18/2015

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 06/15/2015 to 06/15/2015				
0040850133				
171812267A Cement-New Well Casing/Pi 06/15/2015 Cement 5 1/2" Longstring				
50/50 POZ	125.00	EA	6.60	825.00 T
60/40 POZ	80.00	EA	7.20	576.00 T
Celloflake	32.00	EA	2.22	71.04 T
C-41P	27.00	EA	2.40	64.80 T
Calcium Chloride	210.00	EA	0.63	132.30 T
Cement Friction Reducer	32.00	EA	3.60	115.20 T
Gypsum	625.00	EA	0.45	281.25 T
FLA-322	84.00	EA	4.50	378.00 T
Mud Flush	500.00	EA	0.90	450.00 T
Cement Gel	210.00	EA	0.15	31.50 T
Gilsonite	625.00	EA	0.40	251.25 T
Claymax KCL Substitute	4.00	EA	21.00	84.00 T
"Latch Down Plug & Baffle, 5 1/2" (Blue)	1.00	EA	240.00	240.00
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	216.00	216.00
"Turbolizer, 5 1/2" (Blue)"	8.00	EA	66.00	528.00
"5 1/2" Basket (Blue)"	1.00	EA	174.00	174.00
"Unit Mileage Chg (PU, cars one way)"	80.00	MI	2.70	216.00
Heavy Equipment Mileage	160.00	MI	4.50	720.00
"Proppant & Bulk Del. Chgs., per ton mil	696.00	EA	1.50	1,044.00
Depth Charge; 3001-4000'	1.00	EA	1,296.00	1,296.00
Blending & Mixing Service Charge	205.00	BAG	0.84	172.20
Plug Container Util. Chg.	1.00	EA	150.00	150.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	105.00	105.00

✓ 7-12-15
 APPROVED JUL 09 2015
 # 9309

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	8,121.54
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	233.11
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	8,354.65
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 12267 A

16-16-10

DATE _____ TICKET NO. _____

DATE OF JOB: 6-15-2015		DISTRICT: Prs & Hks		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:			
CUSTOMER: Vshills Exploration LLC				LEASE: Boye				WELL NO.: 116			
ADDRESS:				COUNTY: Ellisworth				STATE: KS			
CITY:				STATE:				SERVICE CREW: Dsrn, Fz, Gibson			
AUTHORIZED BY:				JOB TYPE: CNW / 5 1/2 Longstings							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED		DATE	AM/PM	TIME	
19843	1							6-15	PM	8:00	
19860	1/2					ARRIVED AT JOB		6-15	AM	3:00	
						START OPERATION		6-15	AM	8:30	
						FINISH OPERATION		6-15	AM	9:30	
						RELEASED		6-15	AM	10:00	
						MILES FROM STATION TO WELL		82			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *[Signature]* Agent
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP104	50/50 P02	SK	125		1,375.00
CP103	60/40 P02	SK	80		960.00
CC102	Cellulose	Lb	32		118.40
CC105	C-41P	Lb	27		108.00
CC109	Calcium Chloride	Lb	210		220.50
CC112	Cement Friction Reducer	Lb	32		152.00
CC113	Gypsum	Lb	625		468.75
CC129	FLA-322	Lb	84		630.00
CC200	Cement Gel	Lb	210		52.50
CC201	Gilsonite	Lb	625		418.75
CF607	Latch Down Plug - Bskt, 5 1/2 (Blue)	ES	1		400.00
CF1251	Auto Fill Floe + Shoe 5 1/2 (Blue)	ES	1		360.00
CF1651	Turbolizer, 5 1/2 Blue	ES	8		880.00
CF1901	5 1/2 Bskt (Blue)	ES	1		290.00
C704	Clymax KCL Substitute	Gsl	4		140.00
CC151	mva flush	Gsl	500		750.00
E100	Unit milesse chise - pick ups, SMS/USC + CS/USC	m	80		360.00
E101	Hesup Equipment milesse	m	160		1,200.00
E113	Proppant chise Bulk Delivery chise - part 10000	thm	696		1,740.00
SUB TOTAL					2,160.00

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: <i>[Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i> Agent (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 12267 A

DATE 16-16-10 TICKET NO. _____

DATE OF JOB <u>6-15-2010</u>	DISTRICT <u>Pignone</u>	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:			
CUSTOMER <u>Vicki's Express LLC</u>	LEASE <u>Boyer</u>	WELL NO. <u>111</u>								
ADDRESS	COUNTY <u>Fillmore</u>	STATE <u>KS</u>								
CITY	STATE	SERVICE CREW <u>Doran, J., Gibson</u>								
AUTHORIZED BY	JOB TYPE: <u>CN/SL Longlines</u>									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>19895</u>	<u>1</u>						<u>6-15-10</u>			<u>8:00</u>
<u>19860</u>	<u>4.2</u>									<u>3:30</u>
										<u>8:30</u>
										<u>1:30</u>
										<u>10:00</u>
										<u>5.2</u>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

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SIGNED: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP104	50/50 Puz	SK	125		1,375.00
CP103	60/40 Puz	SK	80		960.00
CC102	Cement	LB	32		118.40
CC105	C 41P	LB	27		108.00
CC109	Cement Chloride	LB	210		270.50
CC112	Cement Filler Resin	LB	32		152.00
CC113	Gypsum	LB	625		468.75
CC129	FLA-322	LB	84		630.00
CC200	Cement Gel	LB	210		52.50
CC201	G Isosone	LB	625		418.75
CF607	Water Proofing 5 1/2 (Blue)	1/31	1		400.00
CF1251	Water Proofing 5 1/2 (Blue)	1/9	1		360.00
CF1651	Water Proofing 5 1/2 (Blue)	1/9	8		840.00
CF1901	5 1/2 (Blue)	1/9	1		296.00
C704	Chymex 100	Gal	4		140.00
CC151	Mud Wash	Gal	500		750.00
T100	10' mud pump	m	80		360.00
T101	10' mud pump	m	166		1,200.00
T113	10' mud pump	m	696		1,740.00
SUB TOTAL					<u>2,160.00</u>

CHEMICAL / ACID DATA:

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	--

FIELD SERVICE ORDER NO. _____

Customer US Oil & Gas Exploration LLC		Lease No.		Date 6-15-2015	
Lease Boye		Well # 1-16			
Field Order # 12267	Station Pratt, KS	Casing 5 1/2	Depth 3448	County Ellsworth	State KS
Type Job CNW/ 5 1/2 Longstrings			Formation TD-3450	Legal Description 16-16-10	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
5 1/2				Pre Pad		Max		5 Min.
Depth 3448	Depth	From	To	Pad		Min		10 Min.
Volume 82	Volume	From	To	Frac		Avg		15 Min.
Max Press	Max Press	From	To			HHP Used		Annulus Pressure
Well Connection	Annulus Vol.	From	To	Flush KCL water		Gas Volume		Total Load
Plug Depth 3427	Packer Depth	From	To					

Customer Representative Kelly	Station Manager Kevin Gordley	Treater Darin Franklin
----------------------------------	----------------------------------	---------------------------

Service Units	92911	84981	19843	19903	19860				
Driver Names	Darin	Ed	Ed	Gibson	Gibson				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:00 pm					on location / safety meeting
					5 1/2 casing 15.5#, 81 joints, set at 3448'
					B-14, T-1,3,5,7,8,11,13
					125SK 50/50 P02, 1/4# CF, 25% Defosmer, 2% CC, 3% CFR, 5% Gypsum, 8% FLA-312, 4% Gel
					5# G. Isonite, 13.8 pps, 1.49 veilt, 6.35 water
					80 SK 60/40 P02
8:30 AM	300		5	6	Pump 5 bbls water
	300		12	6	Pump 12 bbls FLUSH
	300		5	6	Pump 5 bbls water
	300		7	6	mix 30 SK scavenger cement
	300		33	6	mix 125 SK + 9.1 cement
			0	0	Shut down
			3		Wash pump & lines & Release Plug
	150		0	5	Start displacement
	400		55	5	L.P. Pressure
	500		70	3	slow Rate
9:00 pm	1500		80	3	Bump Plug
				0	Flow - Held
	100		7	3	Plug RG+ hole
	100		5	3	Plug mouse hole
9:30 pm					Job complete / Darin & crew



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1007761	1718	06/10/2015
INVOICE NUMBER			
91831019			

Pratt (620) 672-1201
 B VALHALLA EXPLORATION LLC
 I 8100 EAST 22ND STREET N 1800-2
 L WICHITA
 L KS US 67226
 T
 O ATTN: KENNEDY

J LEASE NAME Boye 1-16
 O LOCATION
 B COUNTY Ellsworth
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40848028	86779		Net - 30 days	07/10/2015

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 06/09/2015 to 06/09/2015				
0040848028				
171812323A Cement-New Well Casing/Pi 06/09/2015 Cement 8 5/8" Surface				
Common Cement	325.00	EA	6.40	2,080.00 T
Celloflake	82.00	EA	1.48	121.36 T
Calcium Chloride	918.00	EA	0.42	385.56 T
Cement Gel	612.00	EA	0.10	61.20 T
"Wooden Cmt Plug, 8 5/8"'"	1.00	EA	64.00	64.00
"Unit Mileage Chg (PU, cars one way)"	80.00	MI	1.80	144.00
Heavy Equipment Mileage	160.00	MI	3.00	480.00
"Proppant & Bulk Del. Chgs., per ton mil	1,224.00	EA	1.00	1,224.00
Depth Charge; 0-500'	1.00	EA	400.00	400.00
Blending & Mixing Service Charge	325.00	BAG	0.56	182.00
Plug Container Util. Chg.	1.00	EA	100.00	100.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	70.00	70.00

✓ 6-17-15

APPROVED JUN 15 2015
 # 9208

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	5,312.12
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	189.34
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	5,501.46
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 12323 A

DATE _____ TICKET NO. _____

DATE OF JOB: <u>6/9/15</u>	DISTRICT	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:			
CUSTOMER: <u>Valhalla Exp., LLC</u>	LEASE: <u>Boye</u>	WELL NO. <u>1-16</u>								
ADDRESS	COUNTY: <u>Ellsworth</u>	STATE: <u>Ks</u>								
CITY	STATE	SERVICE CREW: <u>Scott, Shuman, Aaron</u>								
AUTHORIZED BY: <u>Kelly Branum</u>	JOB TYPE: <u>8 5/8 Surface Pipe crew</u>									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>86779</u>	<u>05</u>					ARRIVED AT JOB	<u>6/9/15</u>			<u>4:00</u>
<u>19860</u>	<u>025</u>					START OPERATION	<u>6/9/15</u>			<u>5:30</u>
						FINISH OPERATION	<u>6/9/15</u>			<u>6:00</u>
						RELEASED	<u>6/9/15</u>			<u>7:00</u>
						MILES FROM STATION TO WELL				

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: K.L. Thompson
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP100C	Common Cement	SK	325		5200.00
CC107	Celbiflape	lb	82		303.40
CC109	Calcium chloride	lb	918		963.90
CC200	Cement Grl	lb	612		153.00
CF153	Wooden Cement Plug	SK	1		160.00
E101	Heavy Equipment Milage	MI	160		1200.00
E100	Unit Milage Pickup	MI	80		360.00
E113	Prop Bulk Delivery	TM	1224		3060.00
CE200	Depth Charge 0-500'	4hr	1		1000.00
CE240	Blending & Mixing Charge	SK	325		455.00
CE504	Plug Containers	Job	1		250.00
5003	Service Supervisor	SK	1		175.00

SUB TOTAL 13,280.30

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$

TOTAL 13,531.12

SERVICE REPRESENTATIVE: <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>K.L. Thompson</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	---

FIELD SERVICE ORDER NO. _____



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 12323 A

DATE _____ TICKET NO. _____

DATE OF JOB 6/9/15	DISTRICT	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER Valhalla Exp., LLC	LEASE Boyer		WELL NO. 116						
ADDRESS	COUNTY Ellsworth	STATE KS							
CITY	STATE	SERVICE CREW Scott, Shawn, Aaron							
AUTHORIZED BY Kelly Brannon	JOB TYPE: 8 5/8 Surface Pipe								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
86779	15						6/9/15	AM	4:00
19500	25						6/9/15	AM	5:30
							6/9/15	AM	6:00
							6/9/15	AM	7:00
						MILES FROM STATION TO WELL			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

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SIGNED: K.L. Thompson
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CPK06	Common Cement	SK	325		5200.00
CE107	Galvalume	Lb	82		303.40
CE109	Culverium chloride	Lb	918		963.90
CE200	Cement Grout	Lb	612		153.00
CE153	Wooden Cement Plug	EA	1		160.00
E101	Various Equipment Damage	M	160		1200.00
E100	Hour Mileage Pickup	M	80		360.00
E113	Hourly Bulk Delivery	TM	1274		3060.00
CE200	8 5/8 Surface Pipe	EA	1		1000.00
CE240	Blanching & Mucous Charge	SK	325		455.00
CE301	Plug Connectors	EA	1		250.00
5003	Service Supervisor	EA	1		175.00
SUB TOTAL					13,280.30

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		14,531.12

SERVICE REPRESENTATIVE <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>K.L. Thompson</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	--

FIELD SERVICE ORDER NO.

Customer <i>Vulhala Exp. 110</i>		Lease No.		Date <i>6/9/15</i>	
Lease <i>Boyc</i>		Well # <i>1-16</i>			
Field Order # <i>12323</i>	Station <i>Pratt</i>	Casing <i>8 5/8</i>	Depth <i>391</i>	County <i>Ellsworth</i>	State <i>KS</i>
Type Job <i>8 5/8 Surface Pipe (NW)</i>			Formation	Legal Description	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8</i>								
Depth <i>391</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>24.86</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>570</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>4 5/8</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>Kelly Brannum</i>		Station Manager <i>Kevin Goodley</i>		Treater <i>Scott Graves</i>	
Service Units <i>38970 86779</i>					
Driver Names					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>4:00</i>					<i>On Location Safety Meeting Rigger</i>
<i>5:15</i>					<i>Break Circulation</i>
<i>5:36</i>	<i>150</i>			<i>5.1</i>	<i>Mix 325 sks Common</i>
<i>5:52</i>	<i>0</i>		<i>71.2</i>		<i>Shut down</i>
<i>5:55</i>	<i>0</i>			<i>5.5</i>	<i>Release Plug</i>
<i>5:56</i>	<i>75</i>		<i>5</i>	<i>5.5</i>	<i>Start Displacement</i>
<i>6:00</i>	<i>200</i>		<i>18.5</i>		<i>Circulated Cement to surface</i>
					<i>Displacement Complete</i>
					<i>Shutdown</i>
					<i>Job Complete</i>

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Shari Feist Albrecht, Chair
Jay Scott Emler, Commissioner
Pat Apple, Commissioner

Sam Brownback, Governor

November 13, 2015

Brian J McCoy
Valhalla Exploration LLC
8100 E 22ND ST N BLDG 1800-2
WICHITA, KS 67208-4022

Re: ACO-1
API 15-053-21326-00-00
Boye 1-16
NW/4 Sec.16-16S-10W
Ellsworth County, Kansas

Dear Brian J McCoy:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 6/08/2015 and the ACO-1 was received on November 13, 2015 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



Scale 1:240 Imperial

Well Name: Boye #1-16
 Surface Location: Sec. 16 - T16S - R10W / SE NW SW NW
 Bottom Location:
 API: 15-053-21326-0000
 License Number: 33483
 Spud Date: 6/8/2015 Time: 5:15 PM
 Region: Ellsworth Co., KS
 Drilling Completed: 6/15/2015 Time: 2:00 AM
 Surface Coordinates: 1800' FNL & 430' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 1874.00ft
 K.B. Elevation: 1884.00ft
 Logged Interval: 2600.00ft To: 3450.00ft
 Total Depth: 3450.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Valhalla Exploration LLC
 Address: 8100 E 22nd St. N
 Building 1800-2
 Wichita, KS 67226
 Contact Geologist: Adam T. Kennedy
 Contact Phone Nbr: 316.558.5202
 Well Name: Boye #1-16
 Location: Sec. 16 - T16S - R10W / SE NW SW NW API: 15-053-21326-0000
 Pool: Field: Stoltenberg
 State: Kansas Country: USA

LOGGED BY



Company: Valhalla Exploration, LLC
 Address: 8100 E. 22nd St. North
 Building 1800-2
 Wichita, KS 67226
 Phone Nbr: 316.210.1295
 Logged By: Geologist Name: Adam G. Nighswonger

REMARKS

After review of the geologic log, sample descriptions, DST results, and open hole electric logs of the Boye #1-16, the decision was made by operator to run 5 1/2" production casing for further evaluation of the Arbuckle section of said well.

NOTE: The drilling time and gas curves from 2600' to 3200' have been shifted 3' deeper/lower to correspond with electric log curves. All connection and circulation points in said interval have also been adjusted to match the overall shift. No such adjustments were made to the data 3201' to total depth 3450'.

The well samples were saved, submitted, and will be available for review at the Kansas Geologic Survey's Well Sample Library located in Wichita, KS.

Respectfully Submitted,

Adam G. Nighswonger

GENERAL INFORMATION

Service Companies

Drilling Contractor: Southwind Drilling - Rig #1

Tool Pusher: Larry Beavers
Daylight Driller: Derek Petz
Evening Driller: Gary Ledbetter
Morning Driller: Ken Thompson
Relief Driller:

Gas Detector: Bluestem Environmental
Engineer: Keith Reeves
Unit: 5279
Operational By: 2000'

Drilling Fluid: Mud-Co/Service Mud Inc.
Engineer: Gary Schmidtberger

Logging Company: Nabors Completion Service
Engineer: Blake Waggoner
Logs Ran: DIL, DUCP, MEL, BHCS

Testing Company: Eagle Testers LLC
Tester: Gene Budig

Deviation Survey	
Depth	Survey
394'	1/4°
3353'	3/4°
RTD 3450'	1°

Pipe Strap	
Depth	Pipe Strap
3353'	2.94 short to board

Bit Record								
Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4"	Smith	RT	RR	0	394'	394	4
2	7 7/8"	Varel	HE-21	1346929	394'	3353'	2959	68
3	7 7/8"	Reed	J22	RR	3353'	3450'	97	3 1/2

Surface Casing	
6/9/2015	Ran 9 joints of new 23#, 8 5/8" surface casing, Tally @ 380', Set @ 392'. Used 325 sacks of Common, cement did circulate, by Basic (#12323), plug down @ 0600 hrs on 06.09.15.

Production Casing	
6/15/2015	Ran 82 joints of new 15.5#, 5 1/2" production casing, Tally @ 3439', Set @ 3448'. Used 155 sacks total: 30 sacks 60/60 Poz, 125 sacks Econo Bond, 30 sacks for Rat hole, 20 sacks for Mouse hole; cement did circulate, by Basic (ticket # N/A), job completed 2100 hrs 06.15.15.

DAILY DRILLING REPORT

Date	0700 Hrs Depth	Previous 24 Hours of Operations
6/12/2015	3035'	Drilling and connections Topeka. Geologist Adam G. Nighswonger on location 1720 hrs 06.11.15 drilling @ 2775'. Drilling and connections Topeka, Heebner, Douglas, Brown Lime, and into Lansing zones. Down for pump repairs @ 3035'. Made 620' in past 24 hrs of operations. DMC: \$905.23 CMC: \$6,080.40 WOB: 32,000 RPM: 80 PP: 950
6/13/2015	3353'	Resume drilling 0800 hrs 06.12.15. Drilling and connections Lansing zones. CFS @ 3070' (LKC B'). Drilling and connections Lansing zones and into basal Pennsylvanian. Stop and CTCH @ 3330'; conduct short trip for XX stands. Back to bottom and CTCH; resume drilling 0500 hrs 06.13.15. Drilling and connections basal Pennsylvanian, Simpson, and into Arbuckle. CFS @ 3353' (ARB). Made 318' in past 24 hrs of operations. DMC: \$1,300.26 CMC: \$7,380.66
6/14/2015	3361'	Shows warrant test. CTCH, drop survey and strap out for DST #1. TIH with tool and conduct test; test successful. TOH with tool and back to bottom with bit, CTCH; resume drilling 2100 hrs 06.13.15. Drilling Arbuckle. CFS @ 3361' (ARB). Shows warrant test. CTCH and TOH for DST #2. TIH with tool and conduct test; test successful. TOH with tool and back to bottom with bit. Made 8' in past 24 hrs of operations. DMC: \$160.33 CMC: \$7,540.99
6/15/2015	RTD 3450'	CTCH; resume drilling 0930 hrs 06.14.15. Drilling and connections Arbuckle. CFS @ 3369' & 3376' (ARB). Shows warrant test. CTCH and TOH for DST #3. TIH with tool and conduct test; test successful. TOH with tool and back to bottom with bit, CTCH; resume drilling 2315 hrs 06.14.14. Drilling and connections Arbuckle. Rotary total depth 3450' reached 0200 hrs 06.15.15. CTCH, drop survey and TOH for logs. Commence open hole logging operations. Made 89' in past 24 hrs of operations. DMC: \$333.80 CMC: \$7,874.79
6/16/2015	RTD 3450'	Logging completed 1100 hrs 06.15.15. Geologist off location 1200 hrs.

WELL COMPARISON SHEET

Drilling Well					Comparison Well				Comparison Well				Comparison Well			
Valhalla Exploration - Boye #1-16 Sec. 16 - T16S - R10W 1800' FNL & 430' FWL 1884 KB					Cities Service Oil Co - Boye #4 Sec. 16 - T16S - R10W C W/2 W/2 NW Oil - Arb ('51) 1858 KB				Ind Terr III Oil Co - Boye #1 Sec. 16 - T16S - R10W C SW SW NW Oil - Arb ('38) 1885 KB				Bergman Oil Co. - Boye 'B' #1 Sec. 16 - T16S - R10W 915' FNL & 825' FWL 1864 KB			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Oil - Arb ('51)		Structural Relationship		Oil - Arb ('38)		Structural Relationship		Oil - Arb ('80)		Structural Relationship	
					Sample	Sub-Sea	Sample	Log	Sample	Log	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	665	1219	670	1214					667	1218	1	-4	648	1216	3	-2
Topeka	2654	-770	2659	-775									2641	-777	7	2
Queen Hill Sh.	2825	-941	2828	-944									2812	-948	7	4
Heebner Shale	2910	-1026	2913	-1029									2894	-1030	4	1
Toronto Lms.	2929	-1045	2930	-1046									2914	-1050	5	4
Douglas	2938	-1054	2939	-1055									2923	-1059	5	4
Brown Lime	3012	-1128	3015	-1131									2998	-1134	6	3
Lansing-K.C.	3026	-1142	3033	-1149	2996	-1138	-4	-11	3025	-1140	-2	-9	3011	-1147	5	-2
LKC 'B'	3059	-1175	3061	-1177									3046	-1182	7	5
LKC 'F'	3108	-1224	3111	-1227									3092	-1228	4	1
Muncie Creek Sh.	3165	-1281	3167	-1283									3147	-1283	2	0
LKC 'H'	3182	-1298	3179	-1295									3162	-1298	0	3
LKC 'J'	3204	-1320	3208	-1324									3188	-1324	4	0
Stark Shale	3241	-1357	3241	-1357									3221	-1357	0	0
LKC 'K'	3247	-1363	3243	-1359									3224	-1360	-3	1
Hushpuckney Shale	3275	-1391	3274	-1390									3256	-1392	1	2
LKC 'L'	3282	-1398	3284	-1400									3265	-1401	3	1
Base-K.C.	3303	-1419	3303	-1419									3284	-1420	1	1
Simpson	3334	-1450	3334	-1450	3306	-1448	-2	-2					3320	-1456	6	6
Arbuckle	3346	-1462	3347	-1463	3319	-1461	-1	-2	3345	-1460	-2	-3	3334	-1470	8	7
Total Depth	3450	-1566	3451	-1567	3324	-1466			3353	-1468			3335	-1471		

ROCK TYPES

DOL2	LMST2	LMST4	SHALE GRN	SHALE RED
LMST1	LMST3	SHALE CAR	SHALE GRA	

ACCESSORIES

- MINERAL**
- Argillaceous
 - ⊥ Calcareous
 - P Pyrite
 - Sandy
 - Silty
 - △ Chert White

- FOSSIL**
- ∩ Bioclastic or Fragmental
 - ⊕ Cephalopod
 - ⊙ Crinoids
 - F Fossils < 20%
 - ⊕ Oolite
 - ⊕ Oomoldic

- STRINGER**
- Shale Green
 - Shale Gray

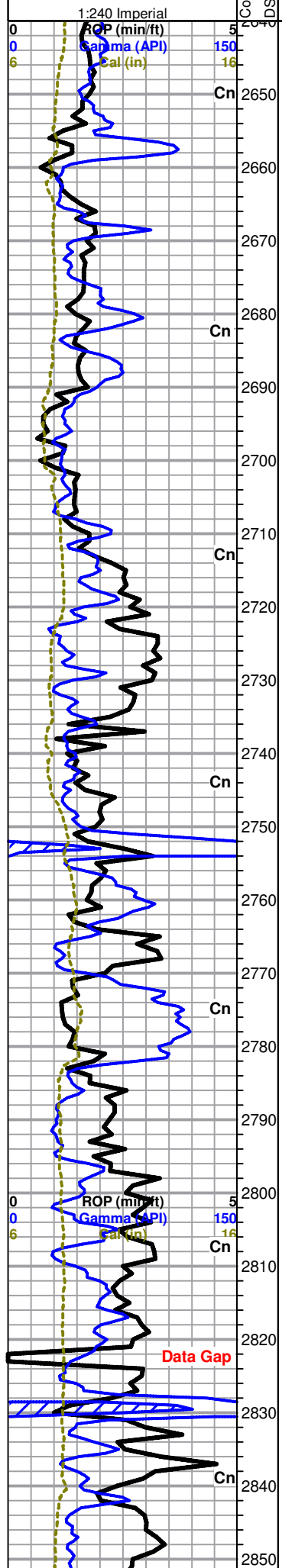
- TEXTURE**
- C Chalky

OTHER SYMBOLS

- | | |
|--|--|
| <p>MISC</p> <ul style="list-style-type: none"> Daily Report Digital Photo Document Folder Link Vertical Log File Horizontal Log File Core Log File Drill Cuttings Rpt | <p>DST</p> <ul style="list-style-type: none"> DST1 DST2 DST3 Core tail pipe |
|--|--|

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

Curve Track #1		Depth Intervals	DST	Lithology	Oil Show	Geological Descriptions	TG, C1 - C5
ROP (min/ft)							Total Gas (units)
Gamma (API)							C1 (units)
Cal (in)							C2 (units)
							C3 (units)
							C4 (units)



Displace mud system @ 2488'

Start 20' wet & dry samples @ 2660'

Topeka 2659' (-775)

Limestone: light gray and light tan, dense matrix, fn-xlyn, densely fossiliferous in part, some argillaceous and friable, some poor pinpoint porosity, no shows noted, with Shale: light gray and gray, silty, blocky to rounded

Limestone: light tan and gray, dense matrix, micro-fn-xlyn, some fossiliferous, poor visible porosity, no shows noted, with some interbedded Shale as above

Limestone: light gray, sub-cherty matrix, trace friable, micro-fn-xlyn, most fossiliferous with few large fossils, scattered fair pinpoint porosity, no shows noted

Limestone: light tan to tan, dense tight matrix, micro-xlyn, sub-fossiliferous to some scattered large fossils, poor visible porosity, no shows noted

Limestone: light gray and light tan, dense sub-xlyn matrix, fn-xlyn, some large fossils, poor visible porosity, no shows noted

King Hill Shale 2751' (-867)

Shale: black carb and dark gray, blocky and hair sli show of gas on break, some pyritic, with Limestone: off white and light tan, dense tight sub-chalky matrix, micro-xlyn, poor visible porosity, few dark dead stains, no live shows noted, no odor

Geologist on location 1720 hrs 06.11.15 @ 2775'

Shale: light gray and red, blocky and hard, some calcareous, and Limestone: light gray and light tan, dense matrix, micro-fn-xlyn, some parts bioclastic, poor inter-xlyn porosity, no shows noted

Limestone: light gray and off white, dense sub-chalky matrix, micro-xlyn, few parts fossiliferous, poor to fair inter-xlyn porosity, trace light stains, no free oil or gas, no fluorescence, no odor

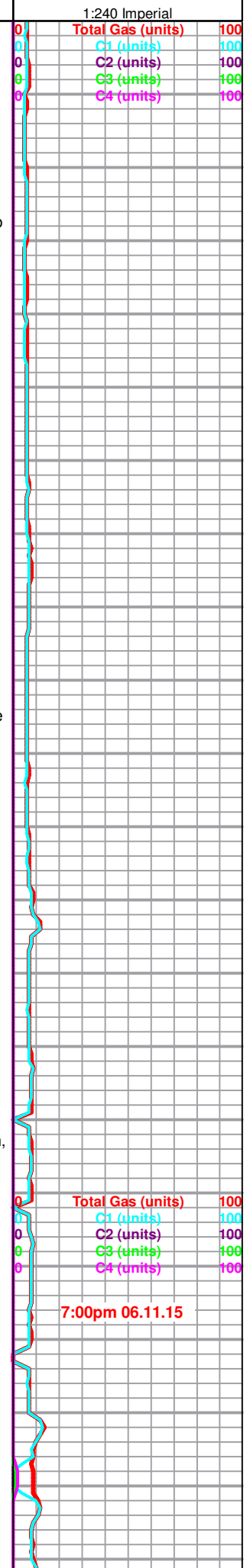
Limestone: light gray and off white, dense tight matrix, micro-xlyn, few parts fossiliferous, poor visible porosity, no shows noted

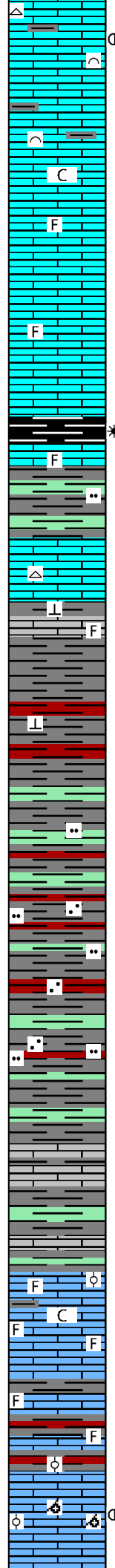
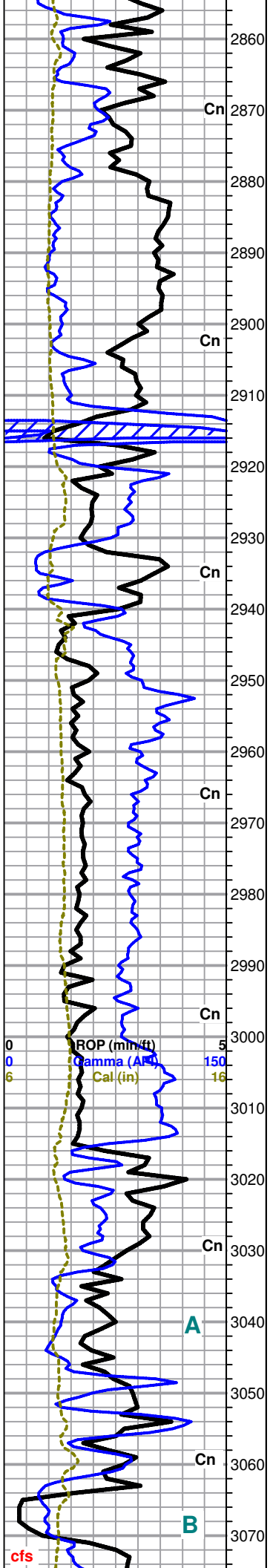
Queen Hill Shale 2828' (-944)

Shale: black carb, blocky and firm, fair show of gas on break

Limestone: off white and light tan, dense matrix, few parts friable, fn-xlyn, bioclastic in part, poor to fair inter-xlyn porosity, no shows noted

Limestone: light gray and light tan, dense sub-xlyn matrix, fn-xlyn, few





Limestone: light gray and light tan, dense sub-xlyn matrix, fn-xlyn, few parts cherty, some fair inter-xlyn porosity, light even stain in part, trace light oil on break, faint milky forced cut, very dull yellow fluorescence, faint odor

Limestone: light gray and light tan, dense matrix, micro-fn-xlyn, sub fossiliferous to bioclastic in part, few parts chalky, poor visible porosity, no shows noted

Limestone: light tan and light gray, dense sub-grainy matrix, fn-xlyn, sub fossiliferous in part, poor visible porosity, no shows noted

Heebner 2913' (-1029)

Shale: black carb, blocky and hard, slight show of gas building, with interbedded Limestone as above, and Shale: light to dark gray and greenish gray, blocky and hard, silty in part

Limestone: off white and light tan, dense tight sub-cherty matrix, micro-xlyn, poor inter-xlyn porosity, no shows noted

Douglas 2939' (-1055)

Shale: dark gray and brick red, blocky to rounded, few parts calcareous, with interbedded Limestone: light tan, dense, fn-xlyn, mostly fossiliferous, poor visible porosity, no shows noted

Shale: light gray and greenish gray, some red, blocky to rounded, mostly firm, silty in part

Shale: dark gray, some greenish gray and red, blocky to rounded, fissile, abundant silty to sandy material

Brown Lime 3015' (-1131)

Limestone: light tan to tan, dense tight sub-grainy matrix, micro-xlyn, sub-fossiliferous, poor visible porosity, no shows noted, and Shale: light gray and gray, some greenish gray, blocky and hard

Start 10' wet & dry samples @ 3050'

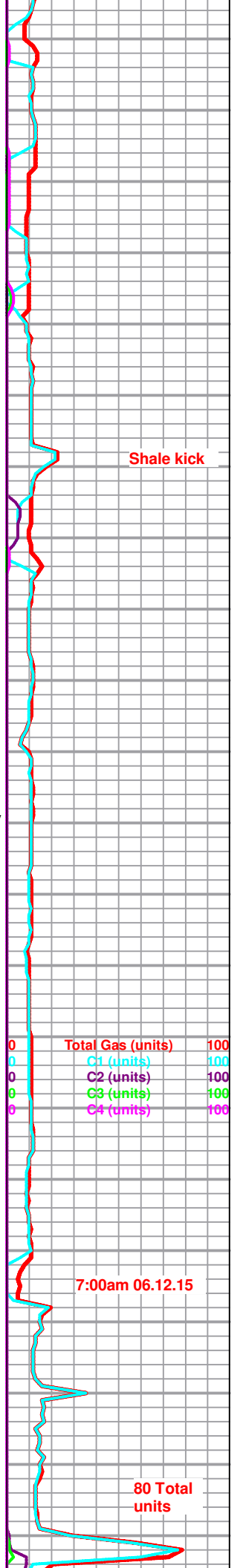
Lansing-Kansas City 3033' (-1149)

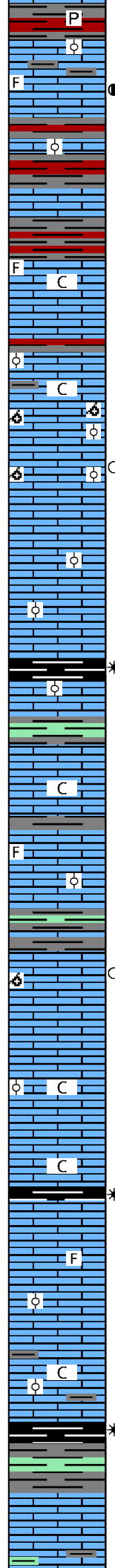
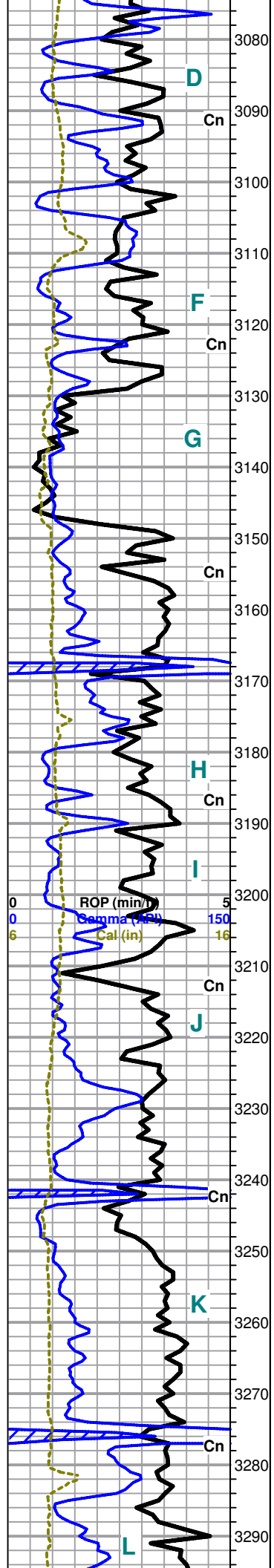
Limestone: light tan and cream white, dense tight sub-chalky matrix, micro-fn-xlyn, fossiliferous in part, trace compact oolitic, poor pinpoint porosity in part, no shows noted

Shale: light to dark gray and red, blocky and hard, with interbedded Limestone: tan and light gray, dense sub-grainy matrix, fn-xlyn, fossiliferous, poor visible porosity, no shows noted

cfs@3073' - Limestone: off white and light tan, dense, micro-fn-xlyn, some oolitic with scattered fair oomoldic dev. and assc. 2ndary-xlyn dev., some light staining, trace very light oil on break, no fluorescence, no cut, faint odor

Limestone: light tan, dense tight matrix, fn-xlyn, densely oolitic in part,





poor inter-xlyn porosity, no shows noted, and Shale as above

Limestone: light tan, dense matrix, fn-xlyn, fossiliferous with some 2ndary-xlyn dev., poor to fair inter-xlyn porosity, scattered light stains, trace pieces with good show of oil on break, very dull yellow fluorescence, very faint milky cut, faint odor, with interbedded Shale

Mostly Shale as above, with some Limestone: light gray, dense sub-grainy matrix, fn-xlyn, oolitic in part, poor visible porosity, no shows noted

Limestone: off white and light tan, dense sub-chalky matrix, micro-fn-xlyn, some fossiliferous, poor visible porosity, no shows noted

Limestone: off white and cream white, dense chalky matrix, micro-fn-xlyn, partly oolitic with some fair to good oomoldic dev. & assc. porosity, no shows noted

Limestone: light tan and cream white, dense matrix, fn-xlyn, partly oolitic with some fair oomoldic dev. & assc. porosity, very light edge staining in part (?), no free oil or gas, no fluorescence, very faint odor

Limestone: light tan and off white, dense sub-grainy matrix, micro-xlyn, few parts oolitic, poor visible porosity, no shows noted

Muncie Creek Shale 3167' (-1283)

Shale: black carb and light greenish gray, blocky and hard, very slight show of gas on break in black shale, with interbedded Limestone: light gray and tan, dense grainy matrix, micro-xlyn, sub-oolitic in part, poor visible porosity, no shows noted

Limestone: cream white and light tan, dense chalky matrix, micro-xlyn, mostly barren, poor visible porosity, no shows noted, with interbedded Shale as above

Limestone: cream white and light tan, dense chalky matrix, micro-xlyn, sub-fossiliferous and sub-oolitic in part, poor visible porosity, no shows noted, with Shale as above

Limestone: light tan and off white, dense sub-chalky matrix, fn-xlyn, scattered poor to fair oomoldic dev. & assc. porosity, very light edge stains (?), no free oil or gas, no fluorescence, no cut, faint odor

Limestone: cream white and light tan, dense chalky matrix, micro-xlyn, some oolitic, poor visible porosity, no shows noted, with some Shale as above

Stark Shale 3241' (-1357)

Shale: black carb and gray, some greenish gray and red, blocky and hard, very slight show of gas on break

Limestone: cream white and light tan, dense tight matrix, micro-xlyn, fossiliferous to oolitic in part, poor to fair inter-xlyn porosity, no shows noted

Limestone: cream white and light tan, dense chalky matrix, micro-xlyn, some oolitic, poor inter-xlyn porosity, no shows noted

Hushpuckney Shale 3274' (-1390)

Shale: black carb, light gray and greenish gray, blocky and hard, slight show of gas on break

Limestone: cream white and light tan, dense tight sub-grainy texture, micro-fn-xlyn, mostly barren, poor visible porosity, no shows noted, with some Shale as above

Mud-Co Mud Check
 @3038'
 0630 hrs 06.12.15
 Wt: 9.2 Vis: 58
 Pv: 16 Yp: 25
 pH: 11.0 WL: 7.8
 Cake 1/32nd
 Chl: 7,000 Cal: Tr
 Sol: 6.0 LCM: 0#
 DMC: \$905.23
 CMC: \$6,080.40

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

7:00pm 06.12.15

Base Kansas City 3303' (-1419)

Shale: light to dark gray, some greenish gray and red, blocky and hard, some fissile, with interbedded Limestone: light gray and tan, dense tight sub-grainy matrix, fn-xlyn, sub-cherty in part, poor visible porosity, no shows noted

Mostly Shale with some Limestone as above

Short trip for 20 stands @ 3330'

Shale: light greenish gray and dark gray, blocky to rounded, mostly firm, sandy in part, with some Limestone as above

Arbuckle 3347' (-1463)

cfs@3353' - Dolomite: cream white and light tan, dense matrix, vf-xlyn, overall fair rhombic dev. & assoc. porosity, scattered sucrosic material, fair show of light oil on break, scattered spotted stains, bright yellow fluorescence, faint milky forced cut, good odor

cfs@3361' - Dolomite: off white and light tan, dense matrix, vf-md-xlyn, fair to scattered good rhombic dev. & assoc. porosity, few parts pyritic, fair show of light oil on break, even light staining in part, bright yellow fluorescence, faint milky cut, strong odor

cfs@3369' - Dolomite: light gray and light tan, dense matrix, vf-fn-xlyn, poor to fair rhombic dev. & assoc. porosity, few parts oolitic, few parts pyritic, light edge staining, no free oil or gas, pale yellow fluorescence, no cut, good odor, with scattered Shale: light teal green, blocky and hard

cfs@3376' - Dolomite: off white and light tan, dense sub-chalky matrix, vf-xlyn, fair rhombic dev. & assoc. porosity, cherty in part, scattered loose chalk, light edge staining, scattered fair show of light oil on break, pale yellow fluorescence, very faint milky forced cut, fair odor

(3377-88') Dolomite: light tan, dense matrix, fn-md-xlyn, fair to good rhombic dev. & assoc. porosity, some light edge staining, no free oil or gas, pale green yellow fluorescence, no cut, good odor

(3389-95') Dolomite: light gray and light tan, dense tight matrix, poor rhombic dev. & assoc. porosity, sub-oolitic in part, no visible shows noted, fair odor

(3396-3403') Dolomite: light tan, dense tight matrix, fn-md-xlyn, poor to fair rhombic dev. & poor porosity, some scattered fair vuggy porosity, no visible shows noted, fair odor

(3404-13') Dolomite: light tan, dense matrix, fn-md-xlyn, fair rhombic dev. & assoc. porosity, few parts pyritic, scattered fair show of oil on break and assoc. light edge staining, pale green yellow fluor., no cut, good odor

Rotary Total Depth 3450' (-1566)

Sample descriptions continued:

(3414-27') Dolomite: light tan, dense matrix, fn-md-xlyn, fair rhombic dev. & assoc. porosity, no visible shows noted, fair odor

(3428-39') Dolomite: light tan and tan, dense matrix, fn-md-xlyn, fair rhombic dev. & poor porosity, few parts cherty, no visible shows noted, faint odor

(3440-50') Dolomite: light tan and tan, dense matrix, fn-xlyn, fair rhombic dev. & assoc. porosity, oolitic in part, scattered fair vuggy porosity, no shows noted

Orders received to run 5 1/2" production casing

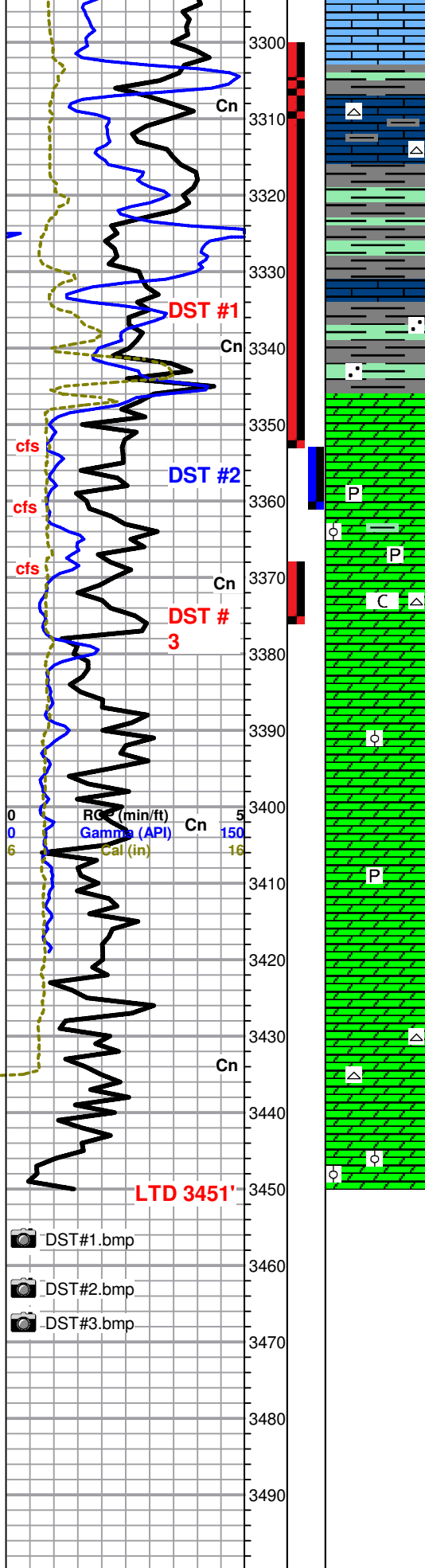
Respectfully submitted,
Adam G. Nighswonger

Mud-Co Mud Check
@3353'
0600 hrs 06.13.15
Wt: 9.4 Vis: 46
Pv: 19 Yp: 18
pH: 10.5 WL: 8.8
Cake 1/32nd
Chl: 7,400 Cal: 20
Sol: 7.4 LCM: Nil
DMC: \$1,300.26
CMC: \$7,380.66

Mud-Co Mud Check
@3361'
0635 hrs 06.14.15
Wt: 9.5 Vis: 51
Pv: 16 Yp: 23
pH: 10.5 WL: 8.0
Cake 1/32nd
Chl: 7,100 Cal: Tr
Sol: 8.1 LCM: 1#
DMC: \$160.33
CMC: \$7,540.99

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

Mud-Co Mud Check
@3450'
0640 hrs 06.15.15
Wt: 9.5 Vis: 56
Pv: 18 Yp: 25
pH: 10.0 WL: 8.8
Cake 1/32nd
Chl: 7,000 Cal: 20
Sol: 8.1 LCM: 2#
DMC: \$333.80
CMC: \$7,874.79



DST#1.bmp

DST#2.bmp

DST#3.bmp

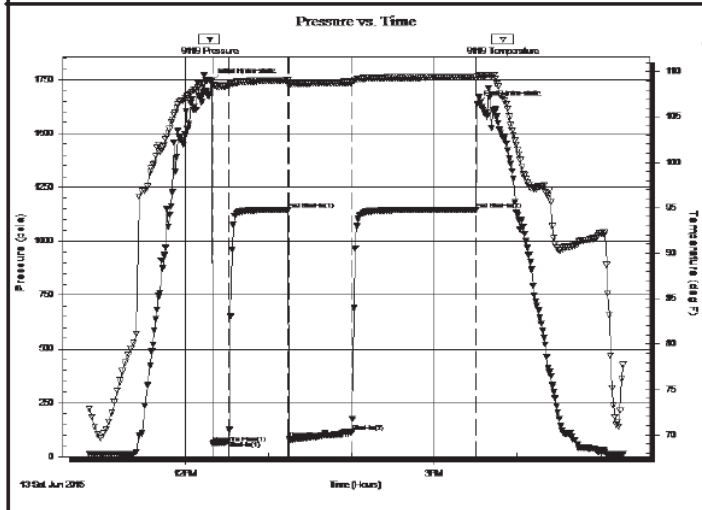
 <p>Eagle Testers Great Bend, Kansas</p>	DRILL STEM TEST REPORT
	Valhalla Exploration llc 6-16s-10w Ellsworth 8100 East 22nd Street North Building 1800-2 Boye 1-16 Wichita, Kansas 67226 Job Ticket: 01037 DST#: 1 ATTN: Adam Nighswonger Test Start: 2015.06.13 @ 00:00:00

GENERAL INFORMATION:

Formation: Arbuckle	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Gene Budig
Time Tool Opened: 00:00:00	Unit No: 70
Time Test Ended: 00:00:00	Reference Elevations: 1884.00 ft (KB)
Interval: 3300.00 ft (KB) To 3353.00 ft (KB) (TVD)	1874.00 ft (CF)
Total Depth: 3553.00 ft (KB) (TVD)	KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair	

Serial #: 9119	Inside	Capacity: 5000.00 psia
Press@RunDepth: 1145.56 psia @ 3347.34 ft (KB)		Last Calib.: 1899.12.30
Start Date: 2015.06.13	End Date: 2015.06.13	Time On Btm: 2015.06.13 @ 12:19:30
Start Time: 10:51:00	End Time: 17:16:00	Time Off Btm: 2015.06.13 @ 15:31:00

TEST COMMENT: 1ST OPENING 10 MINUTES WEAK BLOW BUILT TO 4 INCHES INTO THE WATER
 1ST SHUT-IN 45 MINUTES-NO BLOW BACK
 2ND OPENING 45 MINUTES FAIR BLOW BUILT TO THE BOTTOM OF 5 GALLON BUCKET IN 22 MINUTES
 2ND SHUT-IN 90 MINUTES-NO BLOW BACK



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1742.06	109.00	Initial Hydro-static
1	60.60	108.56	Open To Flow (1)
12	72.82	108.44	Shut-In(1)
55	1145.37	109.02	End Shut-In(1)
56	82.92	108.39	Open To Flow (2)
101	113.15	108.83	Shut-In(2)
191	1145.56	109.38	End Shut-In(2)
192	1634.20	109.51	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	120 GAS IN THE PIPE	0.00
140.00	CLEAN GASSY OIL 40 GAS 60 OIL	1.96
40.00	OIL AND GAS CUT MUD	0.56
0.00	10 GAS 20 OIL 70 MUD	0.00
0.00	GRAVITY 44 CORRECTED	0.00

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



DRILL STEM TEST REPORT

Valhalla Exploration llc
 8100 East 22nd Street North Building 1800-2
 Wichita, Kansas 67226
 A T T N : Adam Nighswonger

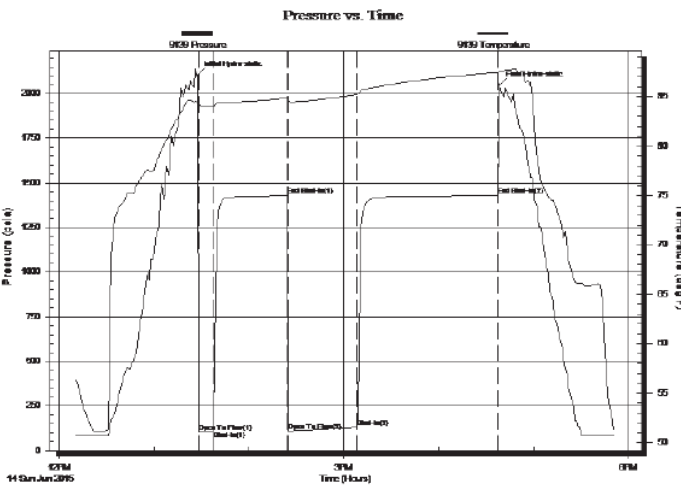
16-16s-10w Ellsworth
Boye 1-16
 Job Ticket: 01038 **DST#: 2**
 Test Start: 2015.06.14 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No:
Interval: 3353.00 ft (KB) To 3361.00 ft (KB) (TVD)
 Reference Elevations: 1884.00 ft (KB)
 Total Depth: 3361.00 ft (KB) (TVD) 1874.00 ft (CF)
 Hole Diameter: 7.88 inches -hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 9139 Outside
 Press@RunDepth: 1427.50 psia @ 3356.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.06.14 End Date: 2015.06.14 Last Calib.: 2015.06.14
 Start Time: 12:10:00 End Time: 17:51:30 Time On Btm: 2015.06.14 @ 13:27:30
 Time Off Btm: 2015.06.14 @ 16:38:00

TEST COMMENT: 1st Opening 10 Minutes weak surface blow through out
 1st Shut-in 45 Minutes
 2nd Opening 45 Minutes-no blow for 7 minutes then very weak surface blow through out
 2nd Shut-in 90 Minutes



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2103.39	84.39	Initial Hydro-static
1	105.81	83.90	Open To Flow (1)
10	109.08	84.01	Shut-In(1)
57	1427.35	84.85	End Shut-In(1)
57	110.07	84.50	Open To Flow (2)
101	129.59	85.23	Shut-In(2)
190	1427.50	87.44	End Shut-In(2)
191	2048.89	87.61	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	thick heavy mud	0.07
10.00	muddy water 20% mud 80% Water	0.14
	chlorides 12000	

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

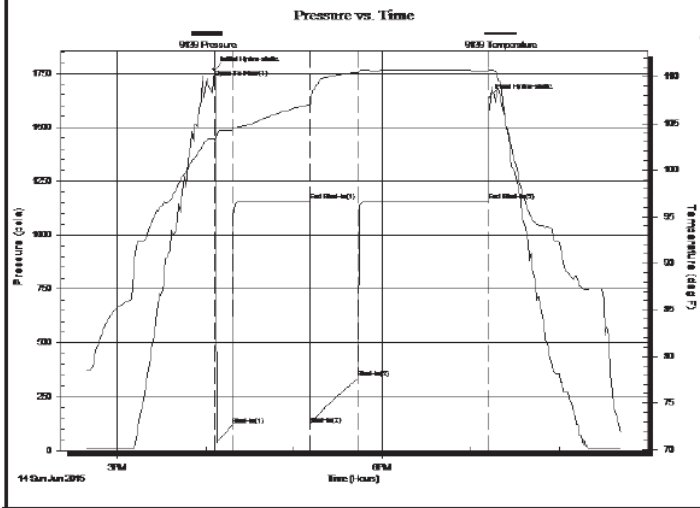
 <p>Eagle Testers Great Bend, Kansas</p>	DRILL STEM TEST REPORT							
	<table style="width:100%;"> <tr> <td style="width:50%;">Valhalla Exploration llc</td> <td style="width:50%; text-align: right;">16-16s-10w Ellsworth</td> </tr> <tr> <td>8100 East 22nd Street North Building 1800-2 Wichita, Kansas 67226</td> <td style="text-align: right;">Boye 1-16</td> </tr> <tr> <td>ATTN: Adam Nighswonger</td> <td style="text-align: right;">Job Ticket: 01034 DST#: 3</td> </tr> <tr> <td></td> <td style="text-align: right;">Test Start: 2015.06.14 @ 00:00:00</td> </tr> </table>	Valhalla Exploration llc	16-16s-10w Ellsworth	8100 East 22nd Street North Building 1800-2 Wichita, Kansas 67226	Boye 1-16	ATTN: Adam Nighswonger	Job Ticket: 01034 DST#: 3	
Valhalla Exploration llc	16-16s-10w Ellsworth							
8100 East 22nd Street North Building 1800-2 Wichita, Kansas 67226	Boye 1-16							
ATTN: Adam Nighswonger	Job Ticket: 01034 DST#: 3							
	Test Start: 2015.06.14 @ 00:00:00							

GENERAL INFORMATION:

Formation: Arbuckle	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: GENE BUDIG
Time Tool Opened: 00:00:00	Unit No:
Time Test Ended: 00:00:00	
Interval: 3368.00 ft (KB) To 3376.00 ft (KB) (TVD)	Reference Elevations: 1884.00 ft (KB)
Total Depth: 3376.00 ft (KB) (TVD)	1874.00 ft (CF)
Hole Diameter: 7.88 inches -hole Condition: Fair	KB to GR/CF: 10.00 ft

Serial #: 9139	Outside				
Press@RunDepth: 1156.90 psia @ 3371.00 ft (KB)	Capacity: 5000.00 psia				
Start Date: 2015.06.14	End Date: 2015.06.14	Last Calib.: 2015.06.14			
Start Time: 14:39:45	End Time: 20:41:45	Time On Btm: 2015.06.14 @ 16:05:45			
		Time Off Btm: 2015.06.14 @ 19:12:15			

TEST COMMENT: 1ST Opening 10 Minutes fair blow built to the bottom of a 5 gallon bucket in 5 minutes
 1st Shut-In 45 Minutes-No blow back
 2nd Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 7 minutes
 2nd Shut-In 90 Minutes-no blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1767.41	103.33	Initial Hydro-static
1	1731.48	103.29	Open To Flow (1)
13	118.10	104.26	Shut-In(1)
65	1156.67	107.00	End Shut-In(1)
65	122.65	106.82	Shut-In(2)
98	333.90	110.43	Shut-In(3)
186	1156.90	110.66	End Shut-In(2)
187	1637.93	110.85	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
675.00	water chlorides 12000	9.47

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