



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1247227
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: _____



1247227

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
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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				

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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	BH FARMS 1-20
Doc ID	1247227

Tops

Name	Top	Datum
ANHYDRITE	673	+1192
BASE ANHYDRITE	694	+1171
HEEBNER	3122	-1257
TORONTO	3140	-1275
DOUGLAS	3154	-1289
BROWN LIME	3252	-1387
LANSING	3268	-1403
BASE KANSAS CITY	3484	-1619
VIOLA	3500	-1635
SIMPSON SHALE	3530	-1665
ARBUCKLE	3583	-1718

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	BH FARMS 1-20
Doc ID	1247227

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	372	A-CONN	175	3%CC,1/4 #Celloflake
Surface	12.25	8.625	24	372	COMMON	175	2%CC,1/4 #CF
Production	7.875	5.5	15.5	3668	AA-2	150	Salt, Celloflake
Production	7.875	5.5	15.5	3668	60/40 POZMIX	30	NA

Customer LD Drilling Inc	Lease No.	Date 1-10-15
Lease BH FAIMS	Well # 1-20	
Field Order # 11905	Station PRATT	Casing 8 5/8
Type Job CNW	8 5/8 SURFACE	Depth 377.09
	Formation	County STAFFORD
		State KS
		Legal Description 30-215-12W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acft 175 SKS	A-COM 270 CC	RATE	PRESS
Depth 377.09	Depth	From	To	Pre Pad 175 SKS	Max COMM	270 CC	ISIP 270 CC
Volume 24	Volume	From	To	Pad	Min		10 Min.
Max Press 200	Max Press	From	To	Frac	Avg		15 Min.
Well Connection PC	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 377.09	Packer Depth	From	To	Flush 22	Gas Volume		Total Load

Customer Representative LD	Station Manager Kenn Gouvier	Treater Mike Mattui
Service Units 37586	27463	19960 19860
Driver Names MATTUI	ERNSI	PERICE

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:15					ON LOCATION
8:15					RUN 8 5/8 CASINGS
9:00					CASINGS ON BOTTOM
9:10					HOOK TO CSNG / BREAK C/C W. RIG
9:18	200		3	5.5	PUMP 3 BBL WATER
9:20	200		77	5.5	MIX 175 SKS A-COM
9:33	300		37	6	MIX 175 COMM
9:45	-		-	-	RELEASE PLUG
9:47	200		-	5	START DISPLACEMENT
9:52	290		22	-	PLUG DOWN SHUT IN WELL 15 BBL TO RT
					JOB COMPLETE
					THANK YOU!
					MIKE MATTUI
					SHAWN + RUCNY



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 12156 A

20-21-12

DATE _____ TICKET NO. _____

DATE OF JOB 1-17-15 DISTRICT Pratt		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 LD Drilling INC		LEASE BH Farms 1-20 WELL NO.					
ADDRESS		COUNTY Stafford STATE KS					
CITY STATE		SERVICE CREW Josh Gibbons Joel					
AUTHORIZED BY		JOB TYPE: CNW 5 1/2 Long Stems					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE AND TIME
27467	45 min						1-17-15 0027
70959-21010	45 min						0430
92911							0915
							1000
							1100
						MILES FROM STATION TO WELL	45

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: *Dave Paul*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA2-Cement	S/S	150		2,550 00
CP 103	60/40 Poz	S/S	30		360 00
CC 102	cellulose	lb	38		140 60
CC 111	SALT	lb	816		408 00
CC 113	Gypsum	lb	705		528 75
CC 129	FLA-322	lb	113		847 50
CC 201	Gilsonite	lb	900		603 00
CF 607	Latch Down Plug	eq	1		400 00
CF 1251	Auto fill shoe	eq	1		360 00
CF 1651	Turbolizer	eq	6		660 00
CF 1901	BasSET	eq	1		290 00
CC 151	Mud flush	gal	500		750 00
E 100	Pickup mileage	mi	45		202 50
E 101	Heavy mileage	mi	90		675 00
E 113	Bulk Delivery	TM	376		939 38
CE 204	Depth Charge	4hr	1		2,160 00
CE 240	Mixing Charge	S/S	180		252 00
CE 504	Plug Con tainer	JOB	1		250 00
S 003	Supervisor	<4	4		175 00
SUB TOTAL					12,551 73

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
Discounted TOTAL		8,786 21

SERVICE REPRESENTATIVE <i>Joel Medina</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>Dave Paul</i> (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO. _____

BASIC

energy services, L.P.

TREATMENT REPORT

Customer	L D Drilling Inc	Lease No.		Date	1-17-18
Lease	B H Farms	Well #	1-20		
Field Order #	12156	Station	Pratt	Casing	5/2
Type Job	LNW	5/2 Long string		Depth	
				County	Stassard
				State	KS
				Formation	
				Legal Description	20.21.12

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	5/2	Tubing Size		Acid	RATE	PRESS	ISIP
Depth	3674	From	To	Pre Pad	Max		5 Min.
Volume	86	From	To	Pad	Min		10 Min.
Max Press		From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative: David Roach Station Manager: Kevin Treater: Joe

Service Units	27463	70959	21010	92911				
Driver Names	Josh	Aaron	Gibbs	Joe				

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
0430					ON LOC / Safety meeting
					Run 86 JTS of 5/2 csg
					cen. on 1-3-5-7-9-11
					Basket on 4
0800					egg on bottom / circ with B/g
0915					Hookup to Pump TRK TO START JOB
0915	100		5	5.5	H2O spacer
			12	5.5	mix mud flush
			5	5.5	H2O spacer
	200		41	5.5	mix 150 SK AA2 cement @ 14.8#
			0	0	shut clear Pump & Lines
0930	100		0	6	Release Plug START H2O DISP
			50	6	LIST PSF
			76	3	SLOW RATE
1000	1000		46	0	Plug Down
					Plug RH
					JOB complete
					Thank you



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BH Farms 1-20 Dst 1

TIME ON: 05:49
TIME OFF: 14:26

Company L.D Drilling Lease & Well No. BH Farms 1-20
Contractor Petromark Drilling Charge to L.D Drilling
Elevation GL 1860/KB 1865 Formation _____ Arb Effective Pay _____ Ft. Ticket No. RR139
Date 01-15-2014 Sec. 20 Twp. 21 S Range 12 W County Stafford State KANSAS
Test Approved By Kurt Talbott Diamond Representative RICKY RAY

Formation Test No. 1 Interval Tested from 3467 ft. to 3588 ft. Total Depth 3588 ft.
Packer Depth 3462 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3467 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3449 ft. Recorder Number 0062 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3533 ft. Recorder Number 5954 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 46 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 3000 P.P.M. Drill Pipe Length 3315 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 12 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NA Reversed Out NA Anchor Length 118A (23P) ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 xh in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/4" Blow (Built to 4" in 30 mins) NOBB
2nd Open: 1" Blow (BOB in 43 mins) NOBB

Recovered 134 ft. of GIP
Recovered 93 ft. of OM 16% O 84% M
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: Tool Sample: 24% O 76% M
Diesel in Bucket _____

	Price Job
	Other Charges
	Insurance
	Total

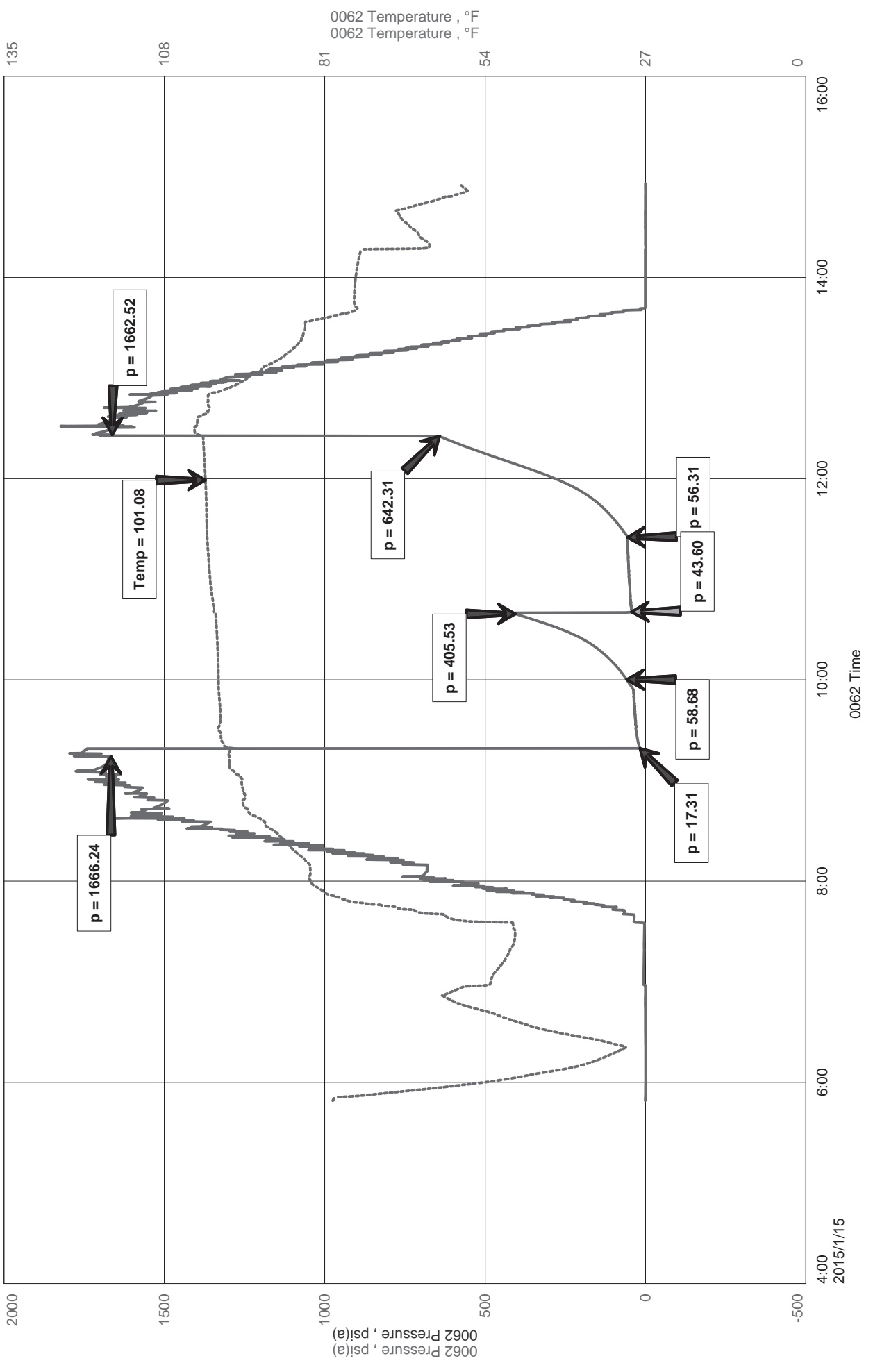
Time Set Packer(s) 8:49 AM A.M. Time Started Off Bottom 11:49 AM P.M. Maximum Temperature 101
Initial Hydrostatic Pressure..... (A) 1666 P.S.I.
Initial Flow Period..... Minutes 30 (B) 17 P.S.I. to (C) 59 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 406 P.S.I.
Final Flow Period..... Minutes 45 (E) 44 P.S.I. to (F) 56 P.S.I.
Final Closed In Period..... Minutes 60 (G) 642 P.S.I.
Final Hydrostatic Pressure..... (H) 1663 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

L.D Drilling
 Dst 1 Arbuckle (3467-3588)
 Start Test Date: 2015/01/15
 Final Test Date: 2015/01/15

BH Farms 1-20
 Formation: Dst 1 Arbuckle (3467-3588)
 Pool: Infiled
 Job Number: RR139

BH Farms 1-20





Diamond Testing LLC
 P.O. Box 157
 HoisingtonKS 67544

Ricky Ray - Tester
(620) 617-7261

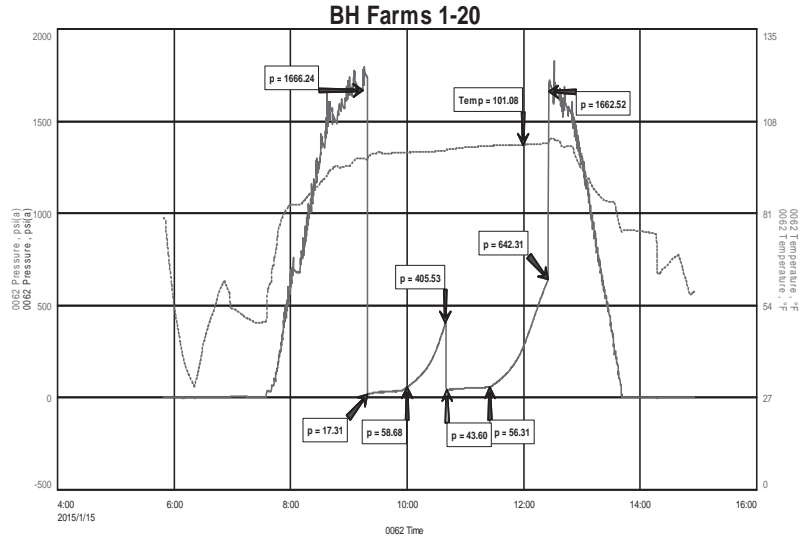
Wellsite Report

General Information

Company Name	L.D Drilling
Contact	L.D Davisq
Well Operator	L.D Drilling
Well Name	BH Farms 1-20
Surface Location	Sec: 20-21s-12r (Stafford County)
Field	Mueller
Well Type	Vertical
Pool	Infiled
Test Purpose (AEUB)	Initial Test
Qualified By	Kurt talbott
Gauge Name	0062

Test Information

Job Number	RR139
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 1 Arbuckle (3467-3588)
Start Test Date	2015/01/15 YYYY/MM/DD
Start Test Time	05:49:00 HH:mm:ss
Final Test Date	2015/01/15 YYYY/MM/DD
Final Test Time	14:26:00 HH:mm:ss



Test Results

Recovery'

134'	GIP		
93'	OM	16% O	84% M

Tool Sample: 24% O 76% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BH Farms 1-20 Dst 2

TIME ON: 23:42 01-15
TIME OFF: 09:12 01-16

Company L.D Drilling Lease & Well No. BH Farms 1-20
Contractor Petromark Drilling Charge to L.D Drilling
Elevation GL 1860/KB 1865 Formation _____ Arb Effective Pay _____ Ft. Ticket No. RR140
Date 01-16-2014 Sec. 20 Twp. _____ 21 S Range _____ 12 W County _____ Stafford State KANSAS
Test Approved By Kurt Talbott Diamond Representative RICKY RAY

Formation Test No. 2 Interval Tested from 3467 ft. to 3597 ft. Total Depth 3597 ft.

Packer Depth 3462 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3467 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3455 ft. Recorder Number _____ Cap. 5000 P.S.I.

Bottom Recorder Depth (Outside) 3566 ft. Recorder Number _____ Cap. 5000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 46 Drill Collar Length 123 ft. I.D. 2 1/4 in.

Weight 9.4 Water Loss 8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in

Chlorides 3000 P.P.M. Drill Pipe Length 3312 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 12 Test Tool Length 32 ft. Tool Size 3 1/2-IF in

Did Well Flow? NA Reversed Out NA Anchor Length 130A(37P) ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 xh in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: 1" Blow (BOB in 4 1/2 mins) 5 1/2 BB

2nd Open: 1/4" Blow (BOB in 5 1/2 mins) BBBB

Recovered 977 ft. of GIP

Recovered 263 ft. of HOM 40% O 60% M

Recovered 372 ft. of O 100% O 40 Gravity @ 60 Deg

Recovered 635 ft. of Total Fluid

Recovered _____ ft. of _____ Price Job _____

Recovered _____ ft. of _____ Other Charges _____

Remarks: Tool Sample: 100 % O Insurance _____

Diesel in Bucket _____ Total _____

Time Set Packer(s) 2:09 AM 01-16 ^{A.M.}/_{P.M.} Time Started Off Bottom 5:09 AM 01-16 ^{A.M.}/_{P.M.} Maximum Temperature 100

Initial Hydrostatic Pressure..... (A) 1667 P.S.I.

Initial Flow Period..... Minutes 30 (B) 41 P.S.I. to (C) 173 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 968 P.S.I.

Final Flow Period..... Minutes 45 (E) 178 P.S.I. to (F) 295 P.S.I.

Final Closed In Period..... Minutes 60 (G) 963 P.S.I.

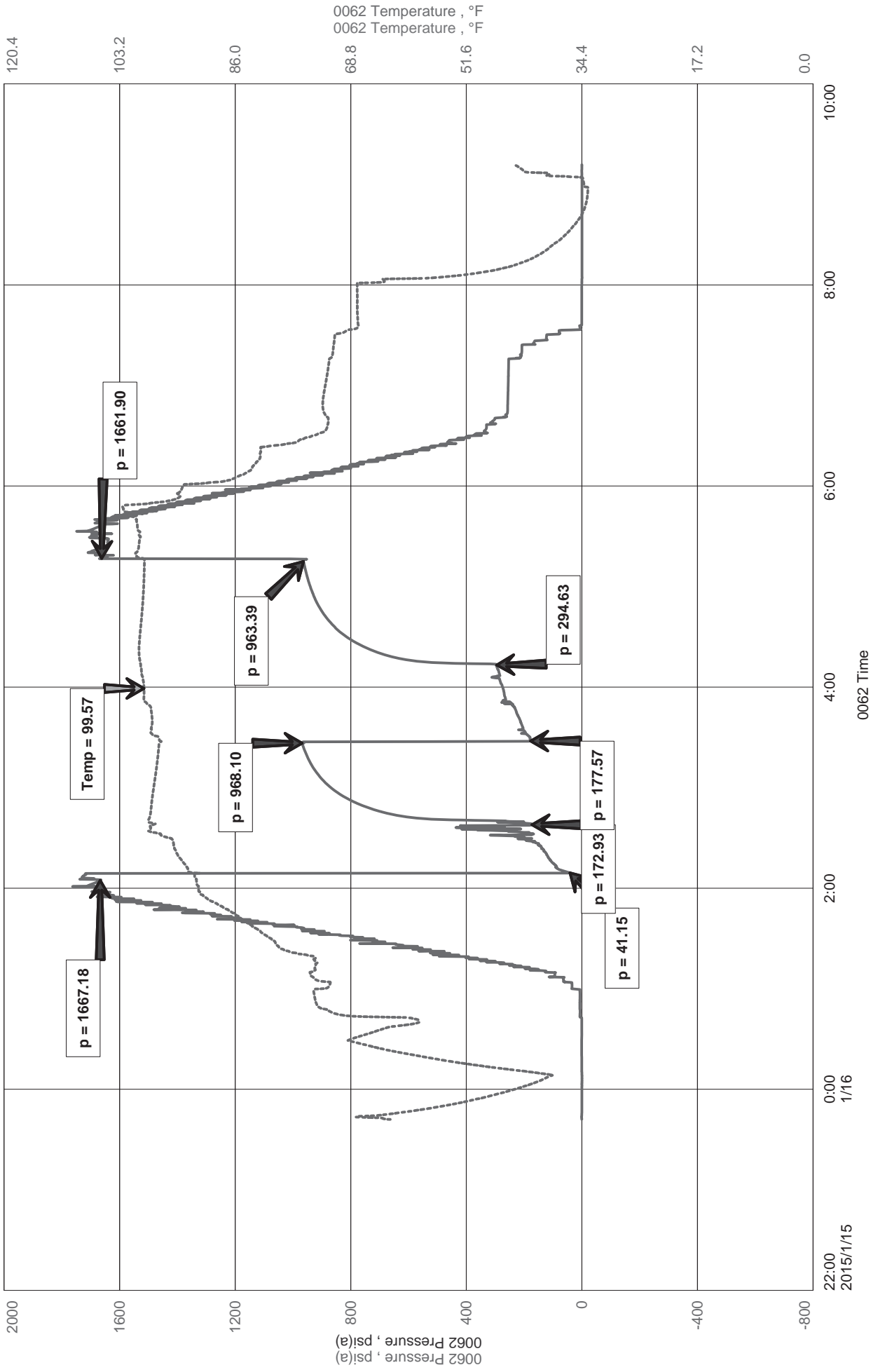
Final Hydrostatic Pressure..... (H) 1662 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

LD Drilling
Dst 2 Arbuckel (3467-3597)
Start Test Date: 2015/01/15
Final Test Date: 2015/01/16

BH Farms 1-20
Formation: Dst 2 Arbuckel (3467-3597)
Pool: Infield
Job Number: RR140

BH Farms 1-20





Diamond Testing LLC
 P.O. Box 157
 HoisingtonKS 67544

Ricky Ray - Tester
 (620) 617-7261

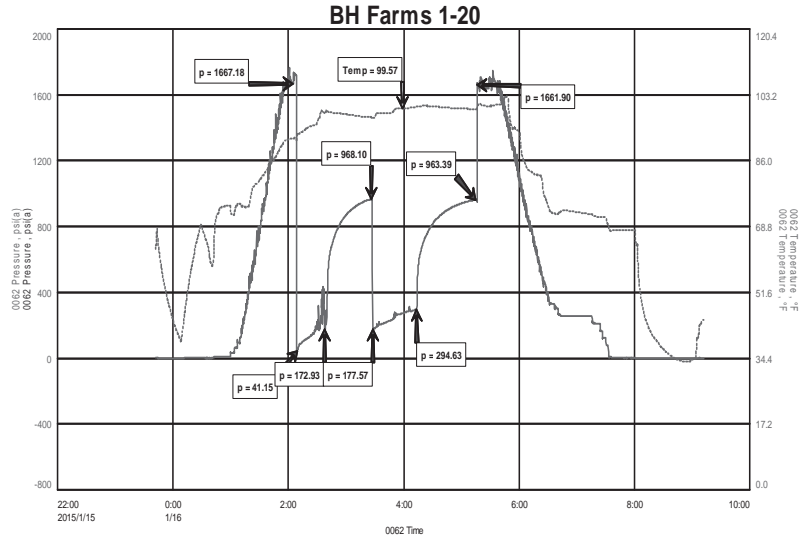
Wellsite Report

General Information

Company Name	LD Drilling
Contact	LD Davis
Well Operator	LD Drilling
Well Name	BH Farms 1-20
Surface Location	Sec: 20-21s-12w (Stafford County)
Field	Mueller
Well Type	Vertical
Pool	Infield
Test Purpose (AEUB)	Initial Test
Qualified By	Kurt Talbott
Gauge Name	0062

Test Information

Job Number	RR140
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 2 Arbuckel (3467-3597)
Start Test Date	2015/01/15 YYYY/MM/DD
Start Test Time	23:42:00 HH:mm:ss
Final Test Date	2015/01/16 YYYY/MM/DD
Final Test Time	09:12:00 HH:mm:ss

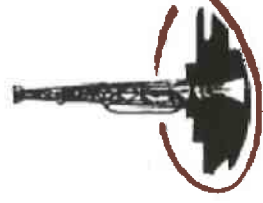


Test Results

Recovery:

977'	GIP		
263'	HOM	40% O	60% M
372'	O	100% O	40 Gravity @ 60 Deg
635'	Total Fluid		

Tool Sample: 100% O



Petroleum Geology
212 Main Street, Claflin KS

Geologist's Report

Company: L.D. Drilling, Inc.
 Lease: BH Farms #1-20
 Field: Mueller
 Surface Location: SW-NW-NE-SW (2052' FSL & 1552' FWL)
 Sec: 20 Twp: 21S Rge: 12W
 County: Stafford State: Kansas
 GL: 1860' KB: 1865'

Contractor: Petromark Drilling Rig #2
 Spud: 1/10/15 Comp: 1/16/15
 RTD: 3675' LTD: 3674'
 Mud Up: +/- 2700' Mud Type: Chemical Displaced

Drilling Time Kept From: 2900' to RTD
 Samples Saved From: 2900' to RTD
 Samples Examined: 2900' to RTD
 Geological Supervision: 3150' to RTD
 Geologist on Well: Kurt Talbott

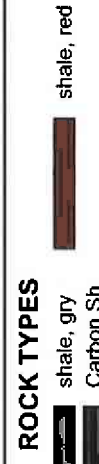
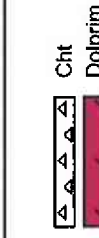
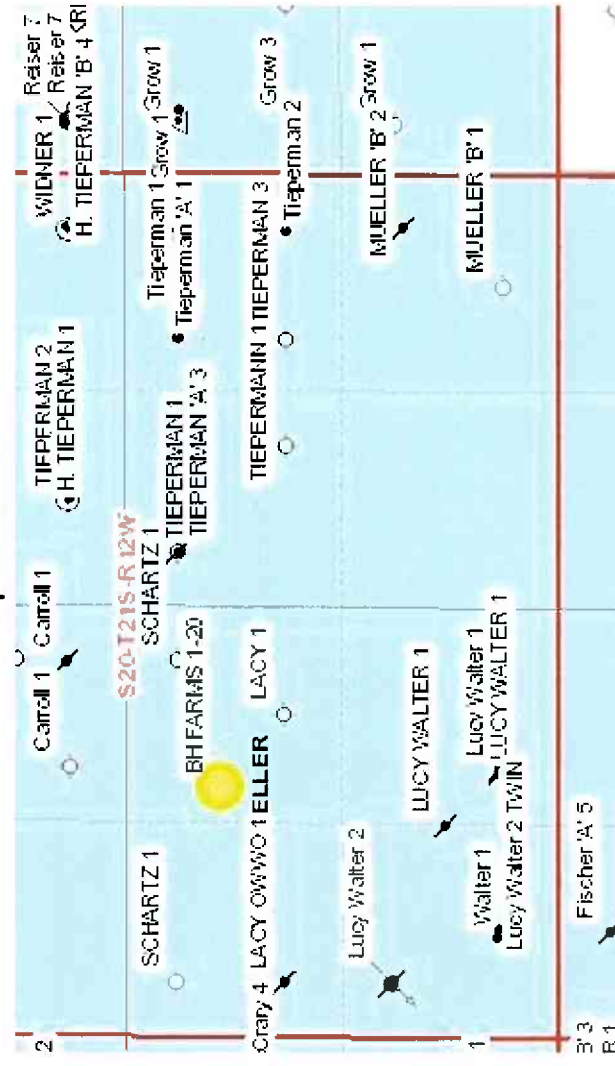
Surface Casing: 8 5/8" @ 372'
 Production Casing: 5 1/2" @

Wireline Logs: By Nabors: CNL/CDL, DIL, MEL

Well Comparison

FORMATION		WELL BEING DRILLED		OFFSET	
		LD DRILLING		SAGE	
		BH FARMS #1-20		#1 LUCY WALTER	
		1865 KB		1870 KB	
FORMATION	LD	LD	SS	LD	SS
ANHYDRITE	673			677	1193
BASE ANHYDRITE	694				
HEEBNER	3122	-1257		3118	-1248
TORONTO	3140	-1275		3138	-1268
DOUGLAS	3154	-1289		3152	-1282
BROWN LIME	3252	-1387		3249	-1379
LANSING	3268	-1403		3265	-1395
BASE KC	3484	-1619		3484	-1614
VIOLA	3500	-1635		3504	-1634
SIMPSON SHALE	3530	-1665		3521	-1651
ARBUCKLE	3583	-1718		3579	-1709
TOTAL DEPTH	3674	-1809		3680	-1810

Spot Location



ROCK TYPES

OTHER SYMBOLS

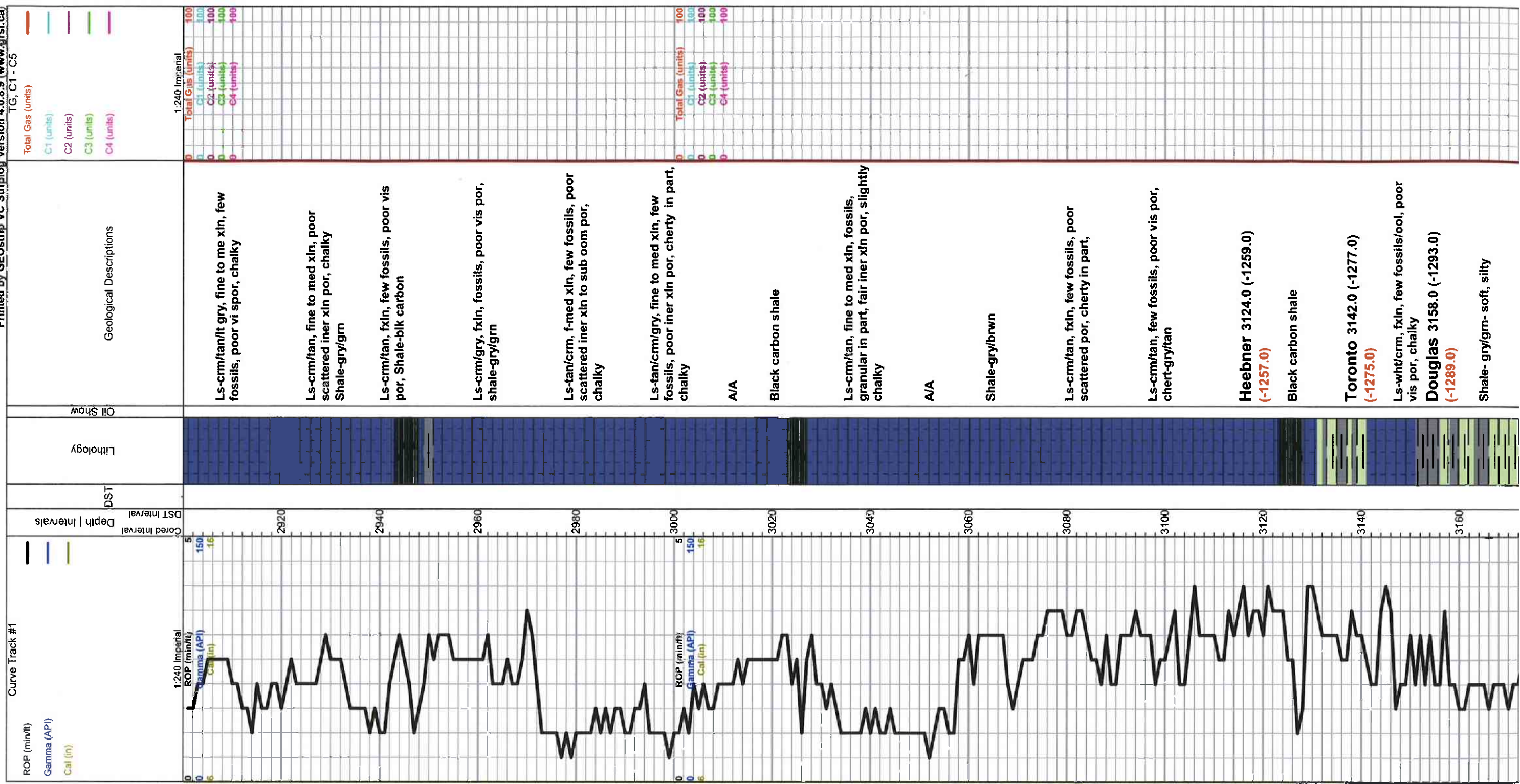
INTERVALS

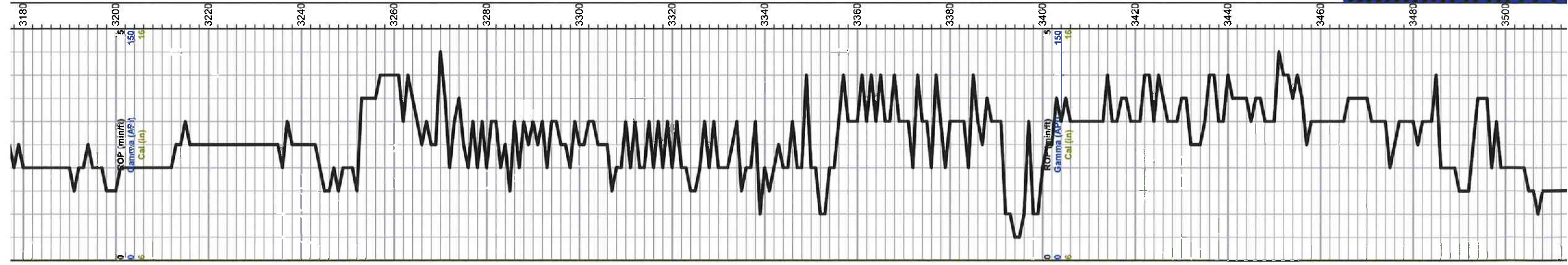
- JL Casing Shoe
- RTF
- ▲ Sidewall
- ▲ Left Casing Shoe
- ▲ Right Casing Shoe

DST

- DST int
- DST alt

Printed by GEOstrip VC Striplog version 4.0.8.9 (www.grsi.ca)
 TG, C1 - C5





A/A

Shale-gry/grm, soft, mica, silty,

A/A

Brown Lime 3253.0 (-1288.0)
(-1387.0)

Ls-tan/buff, fxln, poor vis por, cherty in part,

Lansing 3269.0 (-1404.0)
(-1403.0)

Ls-crm/tan/lt gyr, fxln, ool, poor scattered iner xln por, chalky

Ls-crm/tan, fxln, slightly ool in part, trace dark brown stains, NSFO, no odor, chalky,
Shale-brown/grey

Ls- A/A

Ls-crm/gry, fxln, scattered iner xln por, cherty in part, slightly chalky, Trace stains, NSFO,

Ls-crm/lt gry, fxln, ool, poor iner xln to iner ool por, dark brown stains, NSFO, chalky

Ls-crm/tan, fxln, ool, poor scattered iner ool to sub oom por, trace black stains, NSFO, chalky
Shale-gry/grm

Ls-crm/lt gry, fxln, ool, poor scattered iner ool por, chalky, chert-crm/tan,

Ls-crm/wht, fxln, ool, oom por, chalky, spotty stains, NSFO, shale-gry/grm/brwn

Ls-wht/lt gry, fxln, poor vis por, cherty, chalky

Ls-wht/lt gry, slightly ool, fxln, poor scattered iner xln por, cherty in part,

Ls-crm/lt gry/wht, fxln, fossil,s poor vis por, chertyin part,
Shale-gry/grm abundant

Ls-crm/wht, fxln, dense, poor vi spor, cherty in part, slightly chalky

Base KC 3486.0 (-1621.0)
(-1619.0)

Shale-brown/green/grey

Viola 3496.0 (-1631.0)
(-1635.0)

Chert-boney wht/crm, semi trip in part, Trace dark brown to black stains, NSFO, faint odor,

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

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

DST-#1 3467-3588

30-45-45-60

HF: Built to 4"

ISI: No Return

Recovery:

134" GIP

93" OC#4

(160-84m)

Pressures:

ISIP 406 psi

FSIP 642 psi

IFP 17-59 psi

EEP 44-56 psi

ISH 1666-1663 psi

DST-#2 3467-3597

30-45-45-60

HF: BOB 4 1/2 min

ISI: 5 1/2" Return

Recovery:
 9777' GIP
 263' HOCM
 (400' 50m)
 372' OH

Pressures:
 ISIP 968 psi
 FSHP 963 psi
 IEP 41-173 psi
 FFP 178-295 psi
 HSH 1667-1662 psi

Chert- A/A Trace black stains, NSFO,
 Shale- black carbon

Simpson 3531.0 (-1666.0)
 (-1665.0)

Shale-brwn/aqua green/grey

Shale-maroon/ A/A

A/A

Arbuckle 3582.0 (-1717.0)
 (-1718.0)

Dol-crm/tan, f-med xln, rhomb xln, poor
 iner xln por, dark brown staisn, SFO,
 good odor,

Dol-crm/tan, sucrosic, fine to med xln,
 few rhomb xln, poor to fair iner xln por,
 spotty dark brown staisn, TrSFO, faint
 odor

Dol-wht/crm, med xln, iner xln por,
 spotty dark brown stains, SFO, faint
 odor, chert- tan/crm

Dol-crm/tan, fine to med xln, poor iner
 xln to scattered vug por, Trace dark
 brown stains, Weak SFO, faint odor,
 chert-tan/crm

Dol-crm/tan, sucrosic, fine to med xln,
 poor iner xln por with scattered vug por,
 Trace dark brown to black stains, Trace
 Weak SFO, chert-crm/tan

Total Depth 3675.0 (-1810.0)
 (-1809.0)

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

