



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1228023
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: _____



1228023

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> _____	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC 063951

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Great Bend

DATE <u>9-15-14</u>	SEC. <u>6</u>	TWP. <u>15</u>	RANGE <u>41</u>	CALLED OUT	ON LOCATION	JOB START <u>2:30 AM</u>	JOB FINISH <u>3 AM</u>
LEASE <u>Geibhardt</u> WELL # <u>1-6</u>		LOCATION <u>Tribune - 22W to Goose Bay Rd -</u>			COUNTY <u>Wallace</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)				<u>92 west - south into</u>			

CONTRACTOR Duke G
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D.
 CASING SIZE 8 5/8 DEPTH 436.52
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15 FT
 PERFS.
 DISPLACEMENT 26.85 bbl H2O

OWNER _____
 CEMENT
 AMOUNT ORDERED 300.00 Class A 3 1/2 cc
2 1/2 gal

EQUIPMENT

PUMP TRUCK CEMENTER Josh Isaac
 # 366 HELPER Brian Lang
 BULK TRUCK
 # 871-112 DRIVER Zeb Schwaller
 BULK TRUCK
 # DRIVER

COMMON	<u>300</u>	@	<u>17.90</u>	<u>5,370.00</u>
POZMIX		@		
GEL	<u>564</u>	@	<u>1.50</u>	<u>282.00</u>
CHLORIDE	<u>846</u>	@	<u>1.10</u>	<u>930.60</u>
ASC		@		
			<u>Materials Total</u>	<u>6,582.60</u>
			<u>Disc 20%</u>	<u>1,316.52</u>
			@	
			@	
			@	
			@	
HANDLING	<u>324.40</u>	@	<u>2.48</u>	<u>804.51</u>
MILEAGE	<u>14.81 x 70 x</u>	@	<u>2.75</u>	<u>2,850.93</u>

REMARKS:

on location - Rig up - had safety meeting
Run 8 5/8 casing - Break circulation
pump 5 bbl H2O
mix 300.00 Class A 3 1/2 cc 2 1/2 gal
Displace 26.85 bbl H2O
Shut in
Cement did circulate
Rig down

DEPTH OF JOB	<u>436</u>		
PUMP TRUCK CHARGE	<u>1512.35</u>		
EXTRA FOOTAGE		@	
MILEAGE <u>Hvm 70</u>	<u>7.70</u>	@	<u>539.00</u>
MANIFOLD		@	
<u>Hvm 70</u>	<u>4.40</u>	@	<u>308.00</u>
		@	

CHARGE TO: American Warrior
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 6,014.69
Disc 20% 1,202.94

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

0% TOTAL 0

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.

SALES TAX (If Any)	_____
TOTAL CHARGES	<u>12,547.29</u>
DISCOUNT <u>26%</u>	<u>2,519.46 (20/20/0)</u>
	<u>IF PAID IN 30 DAYS</u>
	<u>\$ 10,077.83</u>

PRINTED NAME X Emigdio Rojas
 SIGNATURE X Emigdio Rojas

ALLIED OIL & GAS SERVICES, LLC 064107

Federal Tax I.D. # 20-3651475

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

SERVICE POINT: Oakley, KS

DATE <u>8-22-14</u>	SEC. <u>6</u>	TWP. <u>15</u>	RANGE <u>41</u>	CALLED OUT	ON LOCATION <u>11:00am</u>	JOB START <u>1:30pm</u>	JOB FINISH <u>2:30pm</u>
Gobhard's LEASE		WELL# <u>1-6</u>	LOCATION <u>Sharon Springs, 85,90,</u>		COUNTY <u>Wallace</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>Sinto</u>				

CONTRACTOR Duke 9
 TYPE OF JOB PTA
 HOLE SIZE 7 7/8 T.D. 5250
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 2800'
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 32,71661

OWNER Same
 CEMENT AMOUNT ORDERED 255 SK 6940 4% gel
14 # flt - seal
 COMMON 153 SK @ 12.90 2732.70
 POZMIX 102 SK @ 9.35 953.70
 GEL 877# @ .56 438.50
 CHLORIDE _____ @ _____
 ASC _____ @ _____
flt seal 694# @ 2.97 170.08
Material Total @ 4320.98
(1000.24/25%) @ _____
 HANDLING 273.89 SK @ 2.48 629.25
 MILEAGE 11.44 hr X 70 X 2.25 2262.20

EQUIPMENT
 PUMP TRUCK # 422 CEMENTER LaRene E Wank
 BULK TRUCK # 870/241 HELPER Wayne McElghy
 BULK TRUCK # _____ DRIVER Mario Rodarrubia (Tass)
 BULK TRUCK # _____ DRIVER _____

REMARKS:
Mix 50 SK 2800'
Mix 100 SK 1724'
Mix 50 SK 480'
Mix 10 SK 40' w/plug
Mix 15 SK M.H.
Mix 30 SK R.H.

CHARGE TO: American Warrior
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL _____
 SERVICE
 DEPTH OF JOB 2800'
 PUMP TRUCK CHARGE 2483.59
 EXTRA FOOTAGE @ _____
 MILEAGE MITH 70 @ 7.70 539.80
 MANIFOLD @ _____
MILV 70 @ 4.70 388.00
 TOTAL (1553.01/25%) 6212.01

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.

PLUG & FLOAT EQUIPMENT
3/8" loss on plug @ 110.50
 _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL 110.00

PRINTED NAME Emigdio Rojas
 SIGNATURE Emigdio Rojas

SALES TAX (If Any) _____
 TOTAL CHARGES 10,643.02
 DISCOUNT 2,633.25 (25%) IF PAID IN 30 DAYS
7,899.76 Net

ALLIED OIL & GAS SERVICES, LLC 063951

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Great Bend

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TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

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CEMENT LEFT IN CSG. 15 FT

PERFS.

DISPLACEMENT 26.85 bbl H2O

OWNER _____

CEMENT

AMOUNT ORDERED 300.00 Class A 3 1/2 cc

2 1/2 gal

EQUIPMENT

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BULK TRUCK

871-112 DRIVER Zeb Schwaller

BULK TRUCK

DRIVER

COMMON	<u>300</u>	@ <u>17.90</u>	<u>5,370.00</u>
POZMIX		@	
GEL	<u>564</u>	@ <u>1.50</u>	<u>846.00</u>
CHLORIDE	<u>846</u>	@ <u>1.10</u>	<u>930.60</u>
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Materials Total			<u>6,582.60</u>
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HANDLING <u>324.40</u>			@ <u>2.48</u> <u>804.51</u>
MILEAGE <u>14.81 x 70 x</u>			@ <u>2.75</u> <u>2,850.93</u>

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on location - Rig up - had safety meeting

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Rig down

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PUMP TRUCK CHARGE		<u>1512.35</u>	
EXTRA FOOTAGE		@	
MILEAGE <u>Hum 70</u>		@ <u>7.70</u>	<u>539.00</u>
MANIFOLD		@	
<u>Hum 70</u>		@ <u>4.40</u>	<u>308.00</u>

CHARGE TO: American Warrior

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 6,014.69

Disc 20% 1,202.94

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

0% TOTAL 0

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ALLIED OIL & GAS SERVICES, LLC 064107

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flt seal 694# @ 2.97 170.08
Material Total @ 4320.98
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Mix 10 SK 40' w/plug
Mix 15 SK M.H.
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CHARGE TO: American Warrior
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL _____
 SERVICE
 DEPTH OF JOB 2800'
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3/8" loss on plug @ 110.50
 _____ @ _____
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 _____ @ _____
 TOTAL 110.00

PRINTED NAME Emigdio Rojas
 SIGNATURE Emigdio Rojas

SALES TAX (If Any) _____
 TOTAL CHARGES 10,643.02
 DISCOUNT 2,633.25 (25%) IF PAID IN 30 DAYS
7,899.76 Net

OPERATOR

Company: American Warrior, Inc.
 Address: 3118 Cummings Rd
 PO BOX 399
 Garden City, KS 67846
 Contact Geologist: Kevin Wiles
 Contact Phone Nbr: 620-275-2963
 Well Name: Gebhards #1-6
 Location: Sec. 6 - T15S - R41W
 API: 15-199-20415-00-00
 Pool: _____ Field: _____
 State: Kansas Country: USA

Scale 1:240 Imperial

Well Name: Gebhards #1-6
 Surface Location: Sec. 6 - T15S - R41W
 Bottom Location: _____
 API: 15-199-20415-00-00
 License Number: 4058
 Spud Date: 9/15/2014 Time: 7:00 PM
 Region: Wallace County
 Drilling Completed: 9/21/2014 Time: 4:00 AM
 Surface Coordinates: 2100' FNL & 1360' FEL
 Bottom Hole Coordinates: _____
 Ground Elevation: 3775.00ft
 K.B. Elevation: 3788.00ft
 Logged Interval: 4000.00ft To: 5250.00ft
 Total Depth: 5250.00ft
 Formation: Mississippian
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: _____
 Latitude: _____
 N/S Co-ord: 2100' FNL
 E/W Co-ord: 1360' 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: Logan Walker Name: Logan Walker

CONTRACTOR

Contractor: Duke Drilling Co, Inc.
 Rig #: 9
 Rig Type: mud rotary
 Spud Date: 9/15/2014 Time: 7:00 PM
 TD Date: 9/21/2014 Time: 4:00 AM
 Rig Release: _____ Time: _____

ELEVATIONS

K.B. Elevation: 3788.00ft Ground Elevation: 3775.00ft
 K.B. to Ground: 13.00ft

NOTES


@4500' changed from a PDC bit to a Button Bit
 Due to negative results of drill stem test #1 in the Morrow Sand, this well was plugged as a dry test.
 A Bloodhound gas detector operated by Bluestem Environmental was employed on this well. ROP & Gas curves were imported into this log as well as GAMMA-Caliper from E-Log suite.
 The samples from this well were saved and will be available for review at the Kansas Geological Survey well sample Library located in Wichita, KS.
 Respectfully submitted,
 Logan Walker

American Warrior, Inc.
daily drilling report

DATE	7:00 AM DEPTH	REMARKS
09/17/2014		Geologist Logan Walker on location @ 2230 hrs, 3830 ft, drilling ahead
09/18/2014	4304	drilling ahead the Lansing, TOH w/bit @4500' change PDC bit to bottun bit, TIH w/with bit, resume drilling the marmaton
09/19/2014	4693	Driling ahead the Pawnee, Cherokee
09/20/2014	4986	drilling ahead the Morrow shale and sand, cfs multiple times to look at the sand but no shows, drilling ahead Morrow Lime, Mississippian
09/21/2001	5250	Drilling ahead to TD @5250' 0400 hrs 9/21/14, TOH w/bit to log open hole Logging open hole, TIH w/tool straddle test the morrow conducting DST #1
09/22/2014	5250	Conducting and completing DST #1, successful test, TOH w/ tool geololgist offsite 9/22/14

American Warrior, Inc.
well comparison sheet

DRILLING WELL				COMPARISON WELL				COMPARISON WELL			
Gebhards #1-6 2100' FNL & 1360' FEL Sec 6-T15S-R41W				Blaesi #5-6 1179' FSL & 1523' FEL Sec 6-T15S-R41W				Blaesi #4-6 NW SW SE SE Sec 6-T15N-R41W			
3788 KB				3792 KB				3780 KB			
				Structural Relationship				Structural Relationship			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Sub-Sea	Sample	Log
Lansing	4220	-432	4219	-431	4224	-432	1	4207	-427	-5	-4
Marmaton	4570	-782	4569	-781	4570	-778	-4 -3	4558	-778	-4	-3
Pawnee	4656	-868	4658	-870	4662	-870	2	4648	-868	-2	-2
Cherokee	4720	-932	4717	-929	4730	-938	6 9	4716	-936	4	7
Morrow Shale	4944	-1156	4954	-1166	4955	-1163	7 -3	4945	-1165	9	-1
Morrow Sand	4958	-1170	4970	-1182	4968	-1176	6 -6	4958	-1178	8	-4
Morrow Lime	5054	-1266	5059	-1271	5066	-1274	8 3	5055	-1275	9	4
Mississippian	5119	-1331	5106	-1318	5130	-1338	7 20	5117	-1337	6	19
Total Depth	5250	-1462	5253	-1465	5200	-1408	-54 -57	5200	-1420	-42	-45



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior **6-15s-41w Wallace Co. KS**
 Gebhards #1-6
 P.O. Box 399 Garden City KS. 67846
 Job Ticket: 57732 DST#: 1
 ATTN: Logan Walker Test Start: 2014.09.21 @ 15:24:00

GENERAL INFORMATION:

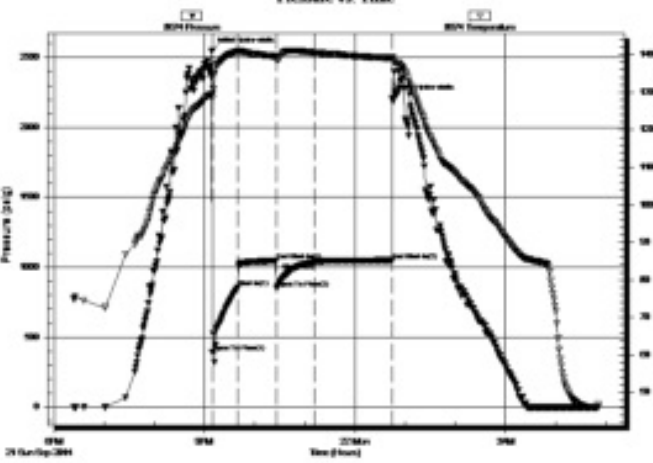
Formation: **Morrow Sand**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 21:09:25
 Time Test Ended: 04:51:25
 Test Type: Conventional Straddle (Initial)
 Tester: Will MacLean
 Unit No: 71
 Interval: 4920.00 ft (KB) To 5064.00 ft (KB) (TVD)
 Reference Elevations: 3788.00 ft (KB)
 Total Depth: 5253.00 ft (KB) (TVD) 3775.00 ft (CF)
 Hole Diameter: 7.85 inches Hole Condition: Good KB to GR/CF: 13.00 ft

Serial #: 8674 Inside

Press@RunDepth: 1034.17 psig @ 4922.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.09.21 End Date: 2014.09.22 Last Calb.: 2014.09.22
 Start Time: 15:24:00 End Time: 04:51:25 Time On Btrr: 2014.09.21 @ 21:09:10
 Time Off Btrr: 2014.09.22 @ 00:44:54

TEST COMMENT: F- Surface Blow Built to BOB in 1 1/2min
 IS- Weak Surface Blow in 7 1/2min Built to 5"
 FF- Surface Blow Built to BOB in 3min
 FSI- No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2545.95	129.39	Initial Hydro-static
1	391.27	128.34	Open To Flow (1)
31	553.14	140.66	Shut-In(1)
77	1046.01	139.57	End Shut-In(1)
77	551.66	139.45	Open To Flow (2)
123	1034.17	140.51	Shut-In(2)
215	1049.38	139.08	End Shut-In(2)
216	2211.45	139.32	Final Hydro-static

Recovery			Gas Rates		
Length (ft)	Description	Volume (bbl)	Chde (inches)	Pressure (psig)	Gas Rate (Mcf/d)
870.00	GMCW 6%g 9%lm 85%w	10.59			
882.00	GMCW 5%g 39%lm 53%w	12.37			
189.00	GWCM 5%g 35%w 57%lm	2.65			
283.00	WCM 26%w 74%lm	3.97			

ROCK TYPES

Lmst fw<7 shale, grn Carbon Sh Ss
 Lmst fw> shale, gry shale, red Sltst

OTHER SYMBOLS

- Good Show
 - Fair Show
 - Poor Show
 - Spotted or Trace
 - Questionable Strn
 - Dead Oil Strn
 - Fluorescence
 - * Gas
- DST Int
 - DST alt
 - Core
 - tail pipe

Curve Track #1

ROP (min/ft) ———

Gamma (API) ———

Cal (in) - - - - -

Depth | Intervals

Cored Interval

DST Interval

Lithology

Oil Show

Geological Descriptions

TG, C1 - C5

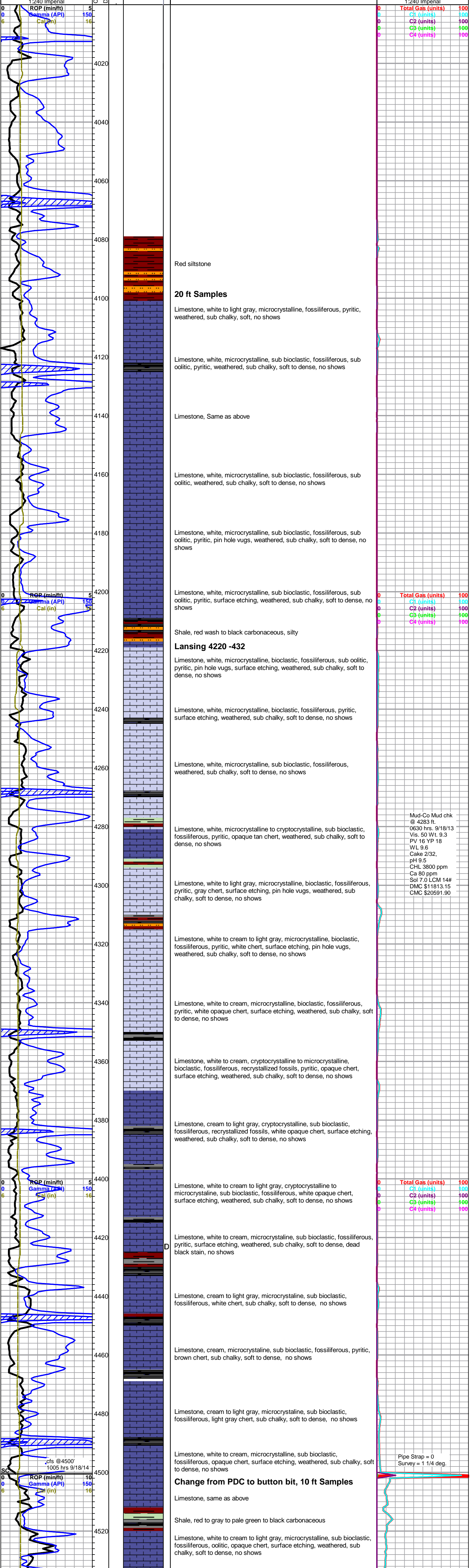
Total Gas (units) ———

C1 (units) ———

C2 (units) ———

C3 (units) ———

C4 (units) ———



Mud-Co Mud chk
 @ 4283 ft.
 0630 hrs. 9/18/13
 Vis. 50 Wt. 9.3
 PV 16 YP 18
 WL 9.6
 Cake 2/32,
 pH 9.5
 CHL 3800 ppm
 Ca 80 ppm
 Sol 7.0 LCM 14#
 DMC \$11813.15
 CMC \$20591.90

Pipe Strap = 0
 Survey = 1 1/4 deg.

20 ft Samples

Lansing 4220 -432

Change from PDC to button bit, 10 ft Samples

Red siltstone

Limestone, white to light gray, microcrystalline, fossiliferous, pyritic, weathered, sub chalky, soft, no shows

Limestone, white, microcrystalline, sub bioclastic, fossiliferous, sub oolitic, pyritic, weathered, sub chalky, soft to dense, no shows

Limestone, Same as above

Limestone, white, microcrystalline, sub bioclastic, fossiliferous, sub oolitic, weathered, sub chalky, soft to dense, no shows

Limestone, white, microcrystalline, sub bioclastic, fossiliferous, sub oolitic, pyritic, pin hole vugs, weathered, sub chalky, soft to dense, no shows

Limestone, white, microcrystalline, sub bioclastic, fossiliferous, sub oolitic, pyritic, surface etching, weathered, sub chalky, soft to dense, no shows

Shale, red wash to black carbonaceous, silty

Limestone, white, microcrystalline, bioclastic, fossiliferous, sub oolitic, pyritic, pin hole vugs, surface etching, weathered, sub chalky, soft to dense, no shows

Limestone, white, microcrystalline, bioclastic, fossiliferous, pyritic, surface etching, weathered, sub chalky, soft to dense, no shows

Limestone, white, microcrystalline, sub bioclastic, fossiliferous, weathered, sub chalky, soft to dense, no shows

Limestone, white, microcrystalline to cryptocrystalline, sub bioclastic, fossiliferous, pyritic, opaque tan chert, weathered, sub chalky, soft to dense, no shows

Limestone, white to light gray, microcrystalline, bioclastic, fossiliferous, pyritic, gray chert, surface etching, pin hole vugs, weathered, sub chalky, soft to dense, no shows

Limestone, white to cream to light gray, microcrystalline, bioclastic, fossiliferous, pyritic, white chert, surface etching, pin hole vugs, weathered, sub chalky, soft to dense, no shows

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, pyritic, white opaque chert, surface etching, weathered, sub chalky, soft to dense, no shows

Limestone, white to cream, cryptocrystalline to microcrystalline, bioclastic, fossiliferous, recrystallized fossils, pyritic, opaque chert, surface etching, weathered, sub chalky, soft to dense, no shows

Limestone, cream to light gray, cryptocrystalline, sub bioclastic, fossiliferous, recrystallized fossils, white opaque chert, surface etching, weathered, sub chalky, soft to dense, no shows

Limestone, white to cream to light gray, cryptocrystalline to microcrystalline, sub bioclastic, fossiliferous, white opaque chert, surface etching, weathered, sub chalky, soft to dense, no shows

Limestone, white to cream, microcrystalline, sub bioclastic, fossiliferous, pyritic, surface etching, weathered, sub chalky, soft to dense, dead black stain, no shows

Limestone, cream to light gray, microcrystalline, sub bioclastic, fossiliferous, white chert, sub chalky, soft to dense, no shows

Limestone, cream, microcrystalline, sub bioclastic, fossiliferous, pyritic, brown chert, sub chalky, soft to dense, no shows

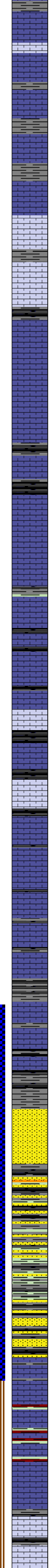
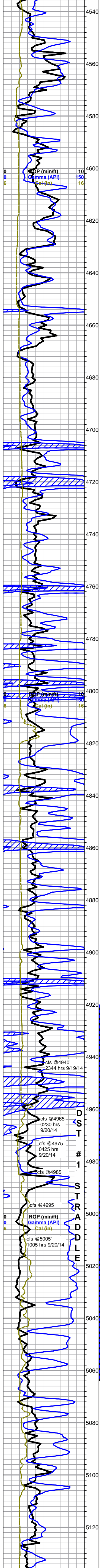
Limestone, cream to light gray, microcrystalline, sub bioclastic, fossiliferous, light gray chert, sub chalky, soft to dense, no shows

Limestone, white to cream, microcrystalline, sub bioclastic, fossiliferous, opaque chert, surface etching, weathered, sub chalky, soft to dense, no shows

Limestone, same as above

Shale, red to gray to pale green to black carbonaceous

Limestone, white to cream to light gray, microcrystalline, sub bioclastic, fossiliferous, oolitic, opaque chert, surface etching, weathered, sub chalky, soft to dense, no shows



Limestone, white to cream to light gray, microcrystalline, sub bioclastic, fossiliferous, oolitic, salmon chert, surface etching, pin hole vugs, sub chalky, soft to dense, no shows

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, oolitic, surface etching, sub chalky, dense, no shows

Limestone, white to cream, microcrystalline, sub bioclastic, fossiliferous, opaque to brown chert, surface etching, sub chalky, soft to dense, no shows

Marmaton 4570 -782
Limestone, white to cream, microcrystalline, sub bioclastic, fossiliferous, white chert, surface etching, sub chalky, soft to dense, no shows

Limestone, white to cream, microcrystalline, sub bioclastic, fossiliferous, opaque chert, surface etching, sub chalky, soft to dense, no shows

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, oolitic, opaque to white chert, surface etching, pin hole vugs, weathered, sub chalky, soft to dense, no shows

Limestone, white to cream to light gray, microcrystalline, bioclastic, fossiliferous, oolitic, opaque chert, surface etching, pin hole vugs, weathered, sub chalky, soft to dense, no shows

Pawnee 4656 -868
Limestone, same as above, recrystallized fossils, pyritic

Limestone, cream to light gray, microcrystalline, sub bioclastic fossiliferous, white chert, surface etching, sub chalky, sharp, dense, no shows

Limestone, cream to light gray, microcrystalline, fossiliferous, pyritic, opaque to salmon chert, sub chalky, sharp, dense, no shows

Shale, black carbonaceous

Limestone, cream to tan to light gray, microcrystalline, fossiliferous, pyritic, sub chalky, sharp, dense, no shows

Cherokee 4720 -932
Limestone, cream to light gray, microcrystalline, sub bioclastic, fossiliferous, pyritic, sub chalky, sharp, soft to dense, no shows

Limestone, same as above, brown chert

Limestone, cream to light gray, microcrystalline, sub bioclastic, fossiliferous, oolitic, pyritic, sub chalky, sharp, soft to dense, no shows

Limestone, cream to tan to light gray, cryptocrystalline, sub bioclastic, fossiliferous, pyritic, brown opaque chert, sub chalky, sharp, soft to dense, no shows

Limestone, cream, cryptocrystalline, bioclastic, fossiliferous, gauconite, pyritic, opaque chert, sub chalky, soft to dense, no shows

Limestone, cream to tan to light gray, cryptocrystalline, sub bioclastic, fossiliferous, pyritic, brown opaque chert, sub chalky, sharp, soft to dense, no shows

Limestone, cream, cryptocrystalline, bioclastic, fossiliferous, pyritic, opaque chert, sub chalky, soft to dense, no shows

Limestone, cream to tan to light gray, cryptocrystalline, sub bioclastic, fossiliferous, oolitic, gauconite, pyritic, brown chert, sub chalky, sharp, soft to dense, no shows

Limestone, cream to tan to light gray, microcrystalline, sub bioclastic, fossiliferous, oolitic, pyritic, brown chert, sub chalky, sharp, dense, no shows

Limestone, same as above

Limestone, same as above, white chert

Limestone, cream to tan to light gray, microcrystalline, sub bioclastic, fossiliferous,, pyritic, brown chert, sub chalky, sharp, dense, no shows

Morrow Shale 4944 -1156
Mud-Co Mud chk @ 4965 ft. 0330 hrs. 9/20/13 Vis. 53 Wt. 9.2 PV 16 YP 19 WL 8.0 pH 10.0 CHL 5000 ppm Ca 40 ppm Sol 6.0 LCM 8# DMC \$4479.30 CMC \$28158.95

sand, cloudy to clear, sub rounded, sub angular, fine grain, poor cemented, fair sorting, glauconite, pyritic, no shows

Sand, same as above

carrying sand, same as above well cemented, hard, one gas bubble

sand, cloudy to clear, sub rounded, sub angular, fine grain, well cemented, fair sorting, glauconite, pyritic, sub chalky on sand, no shows

Shale, abundant gray, black carbonaceous,

sand, cloudy to clear, sub rounded, sub angular, fine grain, well cemented, fair sorting, glauconite, pyritic, sub chalky, no shows

Morrow Lime 5054 -1266
Limestone, oolitic, microcrystalline to cryptocrystalline, sub bioclastic, fossiliferous, oolitic, pyritic, glauconite, weathered, sharp, chalky, soft to dens, no shows

Limestone, same as aboe

Limestone, cream to tan, microcrystalline to cryptocrystalline, sub bioclastic, fossiliferous, oolitic, pyritic, glauconite, opaque brown chert, weathered, sharp, sub chalky, soft to dens, no shows, mixed shales, red to pale green, to gray, silty

computer restarted

Limestone, same as above

Mississippian Lime 5119 -1331 (log 5106 - 1318)
Limestone, cream to tan light gray, microcrystalline to cryptocrystalline, bioclastic, fossiliferous, pyritic, brown chert, sharp, sub chalky, soft to dens, no shows

Limestone, cream to light gray, microcrystalline, bioclastic, fossiliferous, pyritic, opaque to salmon chert, sub chalky, sharp, soft to dense, no shows

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

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

