



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1227920
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: _____



1227920

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> _____
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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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QUALITY WELL SERVICE, INC.

6145

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	05-06-14	Sec.	28	Twp.	19s	Range	09w	County	Rice	State	KS	On Location	12:30Am	Finish	500AM
Lease	Lincoln			Well No.	18			Location Chase KS, N to rd L, 1/2 E, N/1/4							
Contractor	Southwind #2							Owner Gilbert-Stewart							
Type Job	Rotary PTA							To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	7 7/8			T.D.	3350'			Charge To Gilbert-Stewart Oper. LLC							
Csg.	8 1/8 24"			Depth	Set 264'			Street 1801 Broadway Ste. #450							
Tbg. Size	4 1/2 Drill Pipe			Depth	3228"			City Denver				State Co. 80202-3599			
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.				Shoe Joint	N/A			Cement Amount Ordered 215sx60:40:4% gel							
Meas Line				Displace	Fresh & Mud										

EQUIPMENT

Pumptrk	No.	Mike B	Common	130
Bulktrk	No.	David B	Poz. Mix	85
Bulktrk	No.		Gel.	7
Pickup	No.	David F.	Calcium	

JOB SERVICES & REMARKS

Rat Hole	20sx - 7.48 Bbls Slurry	Hulls
Mouse Hole	20sx - 4.99 Bbls Slurry	Salt
Centralizers		Flowseal
Baskets		Kol-Seal
-D/V or Port Cellar	Drill Pipe at 3228' - circulating	Mud CLR 48
Pump	8 1/8 Bbls Fresh H ₂ O Spacer - Mix 35sx	CFL-117 or CD110 CAF 38
	w/ 3 Bbls Fresh H ₂ O & 40 1/2 Bbls Mud, Drill	Sand
Pipe at 1150'	load hole, Pump 8 1/8 Bbls Spacer	Handling 222
Mix 35sx cement, Disp. w/ 3 Fresh & 1 mud		Mileage 25

FLOAT EQUIPMENT

Drill Pipe at 750'	load Hole, Pump 8 1/8 spacer	Guide Shoe
Mix 35sx, Disp. w/ 3 Fresh & 1 mud, Drill		Centralizer
Pipe at 314'	load Hole, Mix 35sx, Disp w/	Baskets
2 Bbls Fresh, Plug 60' w/ 25sx = 6.235sx		AFU Inserts
Plug Rat & Mouseholes w/ 50sx = 12.575sx		Float Shoe
Cement Did Circ.		Latch Down

Service supervisor
LMV 25

THX ☺

Pumptrk Charge Rotary Plug
Mileage 25 x 2

X Signature *William Adams*

Tax	
Discount	
Total Charge	



**GILBERT-STEWART
OPERATING LLC**

Scale 1:240 Imperial

Well Name: Lincoln #18
 Surface Location: 1900' FSL and 1830' FWL
 Bottom Location:
 API: 15-159-22778-0000
 License Number:
 Spud Date: 4/28/2014 Time: 5:30 PM
 Region: Sec. 28 - T19S - R09W, Rice County
 Drilling Completed: 5/4/2014 Time: 10:30 PM
 Surface Coordinates:
 Bottom Hole Coordinates:
 Ground Elevation: 1709.00ft
 K.B. Elevation: 1718.00ft
 Logged Interval: 2350.00ft To: 3350.00ft
 Total Depth: 3350.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Gilbert-Stewart Operating, LLC
 Address: 1801 Broadway
 Suite 450
 Denver, CO 80202
 Contact Geologist: Scott Stewart
 Contact Phone Nbr: 303.596.5510
 Well Name: Lincoln #18
 Location: 1900' FSL and 1830' FWL
 Pool:
 State: Kansas
 API: 15-159-22778-0000
 Field: Chase-Silica
 Country: USA

LOGGED BY



Company: Valhalla Exploration, LLC
 Address: 8100 E. 22nd St. North
 Building 1800-2
 Wichita, KS 67226
 Phone Nbr: 316.655.3550
 Logged By: Geologist
 Name: Derek W. Patterson

REMARKS

After review of the geologic log, open hole electric logs, and negative DST results for the Lincoln #18, it was decided upon by operator to plug and abandon the well as a dry hole. Said well was plugged on May 5, 2014.

Note: DST intervals, drill time, gas curves, and lithology have all been shifted 1' shallow/higher to correspond with the electric log curves. All circulation and connection points have also been moved to match the overall shift.

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,

Derek W. Patterson

GENERAL INFORMATION

Service Companies

Drilling Contractor: Southwind Drilling - Ria #2

Drilling Fluid: Mud-Co/Service Mud Inc.

Tool Pusher: Bill Sanders
 Daylight Driller: Travis Chism
 Evening Driller: Tim Decker
 Morning Driller: Shane Decker

Engineer: Rick Hughes

Logging Company: Pioneer Energy Services
 Engineer: Robert Barnhart
 Logs Ran: DI, CDNL, Micro, Sonic

Gas Detector: Bluestem Environmental
 Engineer: Sidney Edelbrock
 Unit: 0279
 Operational By: 1100'

Testing Company: Superior Testers
 Tester: Dustin Ellis

Deviation Survey	
Depth	Survey
263'	1°
2880'	1°
3102'	1 1/4°
3350' - RTD	1°

Pipe Strap	
Depth	Pipe Strap
3102'	4.28' Short to Board

Bit Record								
Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4"	JZ	RT	RR	0'	263'	263'	1.5
2	7 7/8"	JZ	HA20Q	RR	263'	3350'	3087'	65.75

Surface Casing	
4.28.2014	Ran 6 joints of new 23#/ft 8 5/8" casing, tallying 252', set @ 263' KB. Cemented with 200 sacks Common (3%CC, 2% gel). Cement did circulate. Plug down @ 2230 hrs 4.28.14. By Basic Energy Services.

DAILY DRILLING REPORT

Date	0700 Hrs Depth	Previous 24 Hours of Operations
5.1.2014	2708'	Drilling and connections upper Pennsylvanian beds and into Topeka. Geologist Derek W. Patterson on location 2310 hrs 4.29.14. Reset Bloodhound, test system. Resume drilling and connections Topeka. Made 898' over past 24 hrs of operations. WOB: 30k RPM: 80 PP: 850 SPM: 58 DMC: \$3,072.95 CMC: \$3,431.75
5.2.2014	3078'	Drilling and connections Topeka, Heebner, Toronto, Douglas, and into Brown Lime. Stop @ 2880' for short trip. CTCH, run wireline survey (per rig's request), conduct 28 stand short trip, ream through final 3 stands back to bottom, CTCH. Resume drilling and connections Brown Lime and into Lansing-KC. Drilling and connections Lansing-KC. CFS @ 2933' (LKC 'B'). Resume drilling and connections Lansing-KC. CFS @ 2974' (LKC 'F'). Resume drilling Lansing-KC. CFS @ 2985' (LKC 'G'), CFS @ 2998' (LKC 'G'). Resume drilling and connections Lansing-KC. Made 370' over past 24 hrs of operations. WOB: 30-32k RPM: 80 PP: 850 SPM: 58 DMC: \$2,308.90 CMC: \$5,740.65
5.3.2014	3240'	Drilling and connections Lansing-KC. CFS @ 3102' (LKC 'J'). Shows warrant test. CTCH, drop survey, TOH for DST #1 1045 hrs 5.2.14. TIH with tool. Conduct DST #1, test pulled early due to lack of results, test successful. TIH with bit, CTCH. Resume drilling and connections following DST #1 1830 hrs 5.2.14. Drilling and connections Lansing-KC, Base Kansas City, Marmaton, Basal Penn Conglomerate, and into Arbuckle. CFS @ 3240' (Arb). Shows warrant test. CTCH, TOH for DST #2 0505 hrs 5.3.14. Made 162' over past 24 hrs of operations. WOB: 35k RPM: 80 PP: 800 SPM: 58 DMC: \$0.00 CMC: \$5,740.65
5.4.2014	3267'	TOH for DST #2. TIH with tool. Conduct DST #2, test successful. TIH with bit, CTCH. Resume drilling following DST #2 1530 hrs 5.3.14. Drilling Arbuckle. CFS @ 3247' (Arb). Shows warrant test. CTCH, TOH for DST #3 1735 hrs 5.3.14. TIH with tool. Conduct DST #3, test successful. TIH with bit, CTCH. Resume drilling following DST #3 0440 hrs 5.4.14. Drilling Arbuckle. CFS @ 3256' (Arb), CFS @ 3267' (Arb). Made 27' over past 24 hrs of operations. WOB: 33k RPM: 80 PP: 800 SPM: 58 DMC: \$700.60 CMC: \$6,441.25
5.5.2014	RTD - 3350' LTD - 3348'	CFS @ 3267' (Arb), CFS @ 3273' (Arb). Decision made to run test. CTCH, TOH for DST #4 0955 hrs 5.4.14. TIH with tool. Conduct DST #4, test successful. TIH with bit. Resume drilling following DST #4 1915 hrs 5.4.14. Drilling and connections Arbuckle ahead to RTD of 3350'. RTD reached 2230 hrs 5.4.14. CTCH to wait on loaders. Drop survey. TOH for open hole logging

operations 0500 hrs 5.5.14. Rig up loggers.
 Made 83' over past 24 hrs of operations.
 WOB: 33k RPM: 80 PP: 800 SPM: 58
 DMC: \$0.00 CMC: \$6,441.25

5.6.2014

RTD - 3350'
 LTD - 3348'

Conduct open hole logging operations. Decision made to perform straddle test across the Arbuckle.
 Make up tool, TIH with tool. Geologist Derek W. Patterson off location 1345 hrs 5.5.14. Conduct
 DST #5 (straddle), test successful. Orders received to plug and abandon the Lincoln #18 as a dry
 hole. Said well was plugged on 5.5.14.
 DMC: \$1,227.65 CMC: \$7,588.90

WELL COMPARISON SHEET

Formation	Gilbert Stewart Operating - Lincoln #18 Sec. 28 - T19S - R09W 1900' FSL & 1830' FWL 1718 KB				Comparison Well Petroleum Energy - Steffen 'A' #1 Sec. 28 - T19S - R09W 130' S E/2 NE SW Oil - Arbuckle 1708 KB				Comparison Well Carl Todd - Callis #1 Sec. 28 - T19S - R09W NE NE SW Oil - Arbuckle 1707 KB				Comparison Well Hawkins Oil - Purcell 'A' #4 Sec. 28 - T19S - R09W S/2 NW SE Oil - Arbuckle 1703 KB				
	Sample	Sub-Sea	Log	Sub-Sea	Sample	Sub-Sea	Sample	Log	Sample	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	
			Structural Relationship				Structural Relationship						Structural Relationship				
Topeka	2472	-754	2471	-753					2469	-762	8	9		2456	-753	-1	0
King Hill	2570	-852	2570	-852										2556	-853	1	1
Queen Hill	2651	-933	2650	-932										2638	-935	2	3
Heebner	2742	-1024	2742	-1024	2739	-1031	7	7	2742	-1035	11	11		2729	-1026	2	2
Toronto	2763	-1045	2762	-1044	2760	-1052	7	8						2750	-1047	2	3
Douglas	2772	-1054	2770	-1052	2768	-1060	6	8						2759	-1056	2	4
Brown Lime	2870	-1152	2869	-1151	2867	-1159	7	8	2870	-1163	11	12		2858	-1155	3	4
Lansing-Kansas City	2897	-1179	2897	-1179	2891	-1183	4	4	2895	-1188	9	9		2885	-1182	3	3
LKC 'B'	2918	-1200	2918	-1200										2907	-1204	4	4
LKC 'D'	2942	-1224	2941	-1223										2928	-1225	1	2
LKC 'F'	2965	-1247	2965	-1247										2952	-1249	2	2
LKC 'G'	2978	-1260	2976	-1258										2965	-1262	2	4
Muncie Creek	3036	-1318	3035	-1317										3021	-1318	0	1
LKC 'H'	3046	-1328	3043	-1325										3029	-1326	-2	1
LKC 'I'	3064	-1346	3063	-1345										3048	-1345	-1	0
LKC 'J'	3084	-1366	3083	-1365										3067	-1364	-2	-1
Stark	3109	-1391	3110	-1392										3095	-1392	1	0
LKC 'K'	3116	-1398	3116	-1398										3102	-1399	1	1
Hushpuckney	3140	-1422	3142	-1424										3126	-1423	1	-1
LKC 'L'	3145	-1427	3148	-1430										3133	-1430	3	0
Base Kansas City	3172	-1454	3170	-1452										3158	-1455	1	3
Marmaton	3175	-1457	3174	-1456										3161	-1458	1	2
Conglomerate	3208	-1490	3206	-1488					3207	-1500	10	12		3195	-1492	2	4
Arbuckle	3231	-1513	3228	-1510	3241	-1533	20	23	3241	-1534	21	24		3225	-1522	9	12
Total Depth	3350	-1632	3348	-1630	3285	-1577	-55	-53	3257	-1550	-82	-80		3237	-1534	-98	-96

Note: DST intervals have been shifted 1' shallow/higher to correspond with the electric log curves.

ROCK TYPES

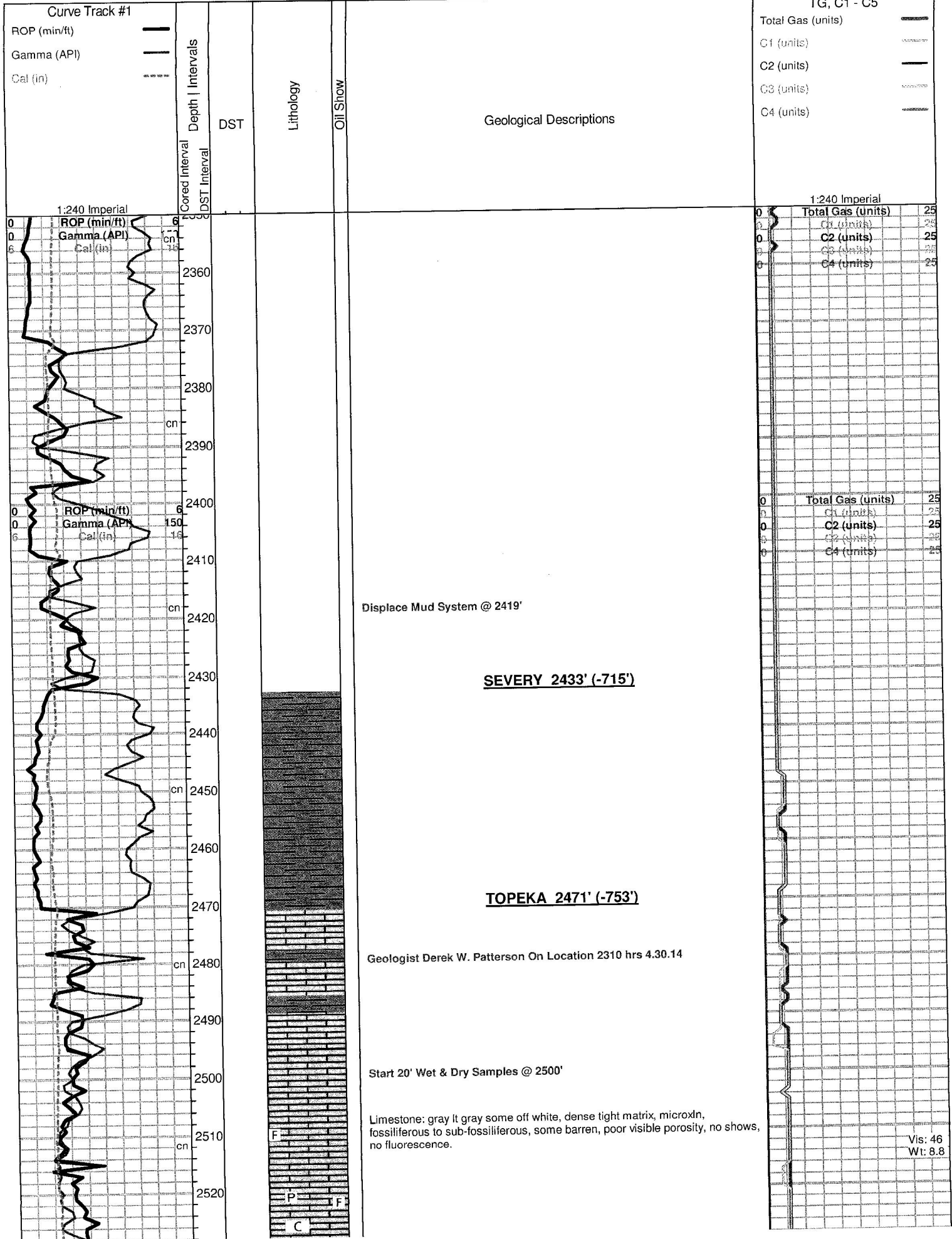
Congl	LMST2	SILTSTONE	SHALE GRN
DOL2	LMST3	SHALE BRN	SHALE GRA
LMST1	LMST4	SHALE CAR	SHALE RED

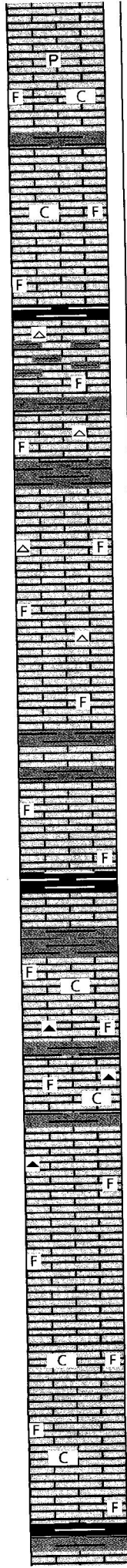
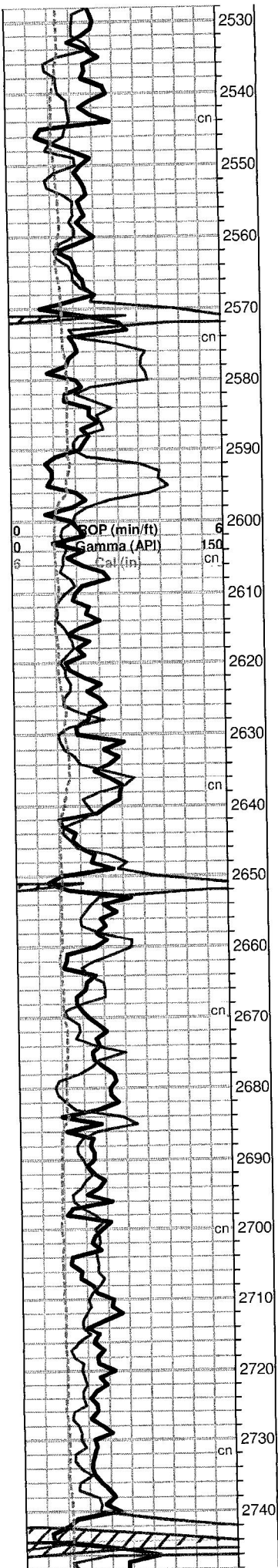
ACCESSORIES

MINERAL	FOSSIL	STRINGER	TEXTURE
▲ Chert, dark	F Fossils < 20%	Limestone2	C Chalky
P Pyrite	◊ Oolite	Shale Gray	
• Silty	◊ Oomoldic	Shale Red	
△ Chert White			

OTHER SYMBOLS

MISC	DST
Daily Report	DST1
Digital Photo	DST2
Document	DST3
Folder	Core
Link	tail pipe
Vertical Log File	
Horizontal Log File	
Core Log File	
Drill Cuttings Rpt	





Limestone: gray lt gray lt cream, dense matrix, some sub-chalky, micro-vfxln, fossiliferous to sub-fossiliferous, poor visible porosity, no shows, no fluorescence, with some loose scattered Pyrite nodules in sample.

Limestone: gray lt gray lt cream, dense matrix, some sub-chalky, micro-vfxln, fossiliferous to sub-fossiliferous, poor visible porosity, no shows, no fluorescence.

KING HILL 2570' (-852')

Shale: dk gray trace black carbonaceous, rounded, most soft, no gas show.

Limestone: cream gray, dense tight matrix, microxln, sub-fossiliferous to barren, poor visible porosity, no fluorescence, with scattered interbedded/stringers of Shale: gray dk gray, block to rounded, firm to soft and mushy, and scattered Chert: smokey gray, fresh and sharp, fossiliferous in part.

Limestone: gray lt gray cream, dense tight matrix, microxln, most fossiliferous, poor visible porosity, no shows, no fluorescence, with some continued scattered Chert as above.

Limestone: off white lt cream, dense xln matrix, vfxln, sub-fossiliferous, fair-poor interxln porosity with moderate 2ndary xln fill, no shows, no fluorescence.

QUEEN HILL 2650' (-932')

Shale: dk gray trace black carbonaceous, rounded, most soft, no gas show.

Limestone: off white lt cream, dense cherty to sub-friable chalky matrix, vfxln, most fossiliferous, fair interxln/pinpoint porosity, no shows, no fluorescence.

Limestone: cream lt cream off white lt gray, dense tight matrix, mostly sub-chalky with some dense xln, vi-microxln, scattered sub-fossiliferous, poor interxln porosity, no shows, no fluorescence, with abundant loose Chert: black, fresh and sharp.

Limestone: lt cream lt gray, dense cherty, micro-vfxln, fossiliferous, poor visible porosity, no shows, no fluorescence, with some loose scattered Chert: gray cream, fresh and sharp.

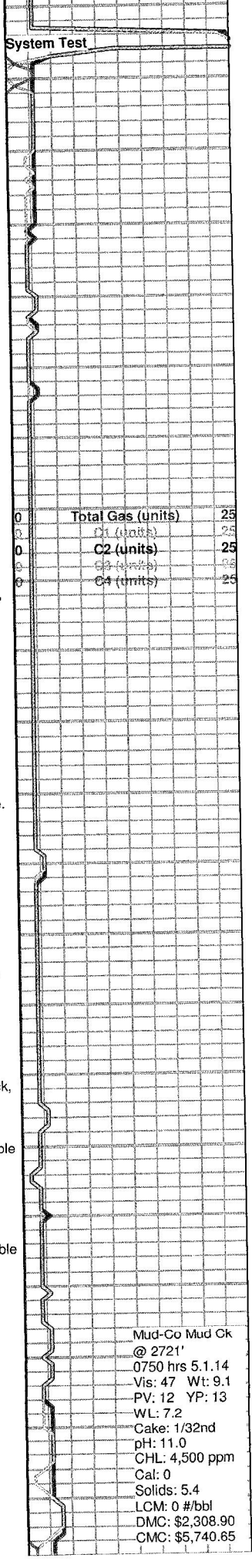
Start 10' Wet & Dry Samples @ 2700'

Limestone: lt cream lt gray, dense cherty, micro-vfxln, fossiliferous, poor visible porosity, no shows, no fluorescence, with some loose scattered Chert: gray cream, fresh and sharp.

Limestone: off white lt cream cream, dense sub-chalky to compact matrix, microxln, most sub-fossiliferous to fossiliferous, poor visible porosity, no shows, no fluorescence.

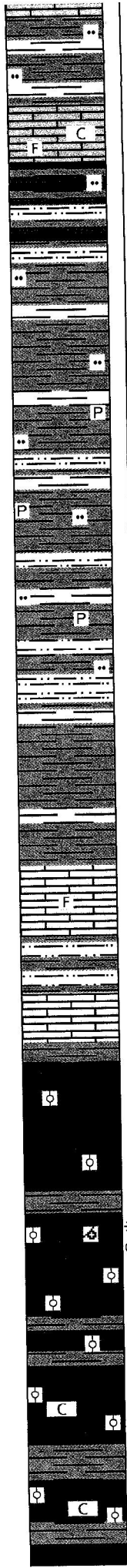
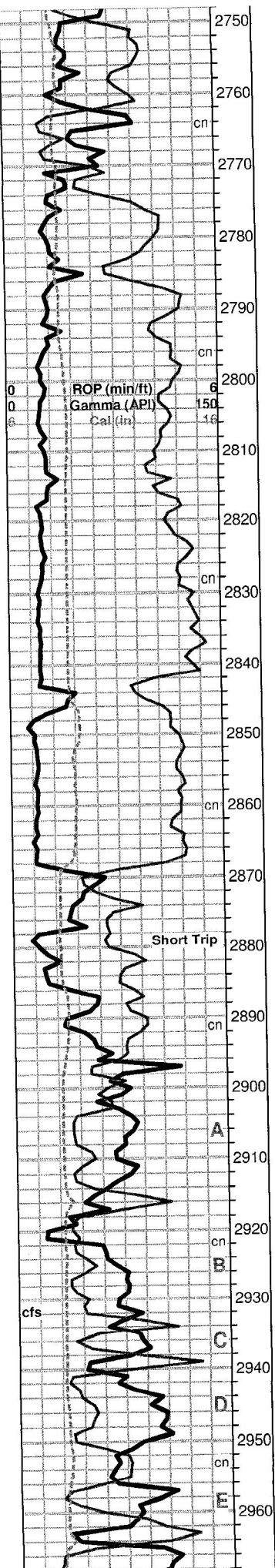
HEEBNER 2742' (-1024')

* Shale: black dk gray, carbonaceous, blocky and firm, fair show gas upon break.



System Test	Total Gas (units)	C1 (units)	C2 (units)	C3 (units)	C4 (units)
0	25	25	25	25	25
1	25	25	25	25	25
2	25	25	25	25	25
3	25	25	25	25	25
4	25	25	25	25	25

Mud-Co Mud Ck @ 2721'
 0750 hrs 5.1.14
 Vis: 47 Wt: 9.1
 PV: 12 YP: 13
 WL: 7.2
 Cake: 1/32nd
 pH: 11.0
 CHL: 4,500 ppm
 Cal: 0
 Solids: 5.4
 LCM: 0 #/bbl
 DMC: \$2,308.90
 CMC: \$5,740.65



Shale: gray dk gray dk green, mostly rounded and soft, some silty in part.

TORONTO 2762' (-1044')

Limestone: off white lt cream, mostly dense sub-chalky matrix, microxn, sub-fossiliferous to barren, poor visible porosity, no shows, no fluorescence.

DOUGLAS 2770 (-1052')

Shale: brick red dk brown some gray, blocky to rounded, soft and mushy, with scattered Siltstone: gray lt gray, dense and blocky, vfgained, heavily micaceous, sample washes dk reddish-brown.

Shale: gray dk gray some dk green, blocky to rounded, most softer to mushy, some firm, silty, sample washes dk gray.

Shale: gray dk gray some dk green, blocky to rounded, soft to firm, very silty, some pyritic, with scattered Siltstone: gray lt gray, dense and blocky, vfgained, heavily micaceous, sample washes dk gray.

Shale: gray dk gray some dk green, blocky to rounded, soft to firm, very silty, some pyritic, with scattered Siltstone: gray lt gray, dense and blocky, vfgained, heavily micaceous, sample washes dk gray.

Shale: gray lt gray trace dk green, rounded and waxy, very soft and gummy, Siltstone drops out, sample washes lt gray.

BROWN LIME 2869' (-1151')

2879' cfs - Limestone: tan brown, very dense matrix, micro-cryptoxln, blocky, some scattered fossils, no visible porosity, no shows, no fluorescence.

Shale: gray dk gray, block to rounded, hard to soft, some silty/pyritic in part, with Siltstone: dk gray, dense and blocky, vfgained, heavily micaceous.

Limestone: gray brown, dense matrix, microxn, scattered sub-fossiliferous with most barren, no visible porosity, no shows, no fluorescence.

LANSING-KANSAS CITY 2897' (-1179')

Limestone: cream tan, dense tight xln matrix, microxn, scattered sub-fossiliferous to sub-oolitic, overall poor visible porosity, no shows, no fluorescence.

2932' cfs - Limestone: cream lt cream, sub-friable to dense matrix, vfxln, heavily oolitic with oolitic development, fair oomoldic/pinpoint porosity throughout, slight golden stain, fair-good show gas with minor oil show upon break, spotty lt yellow fluorescence, faint bluish-white cut, fair gassy odor.

Limestone: cream tan gray, dense tight matrix, heavily oolitic, poor visible porosity, no shows, no fluorescence.

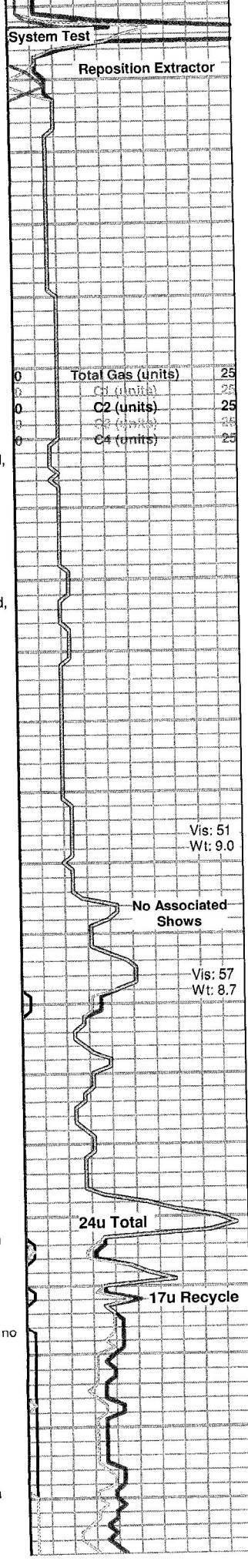
Limestone: tan gray, dense tight matrix, heavily oolitic, poor visible porosity, no shows, no fluorescence.

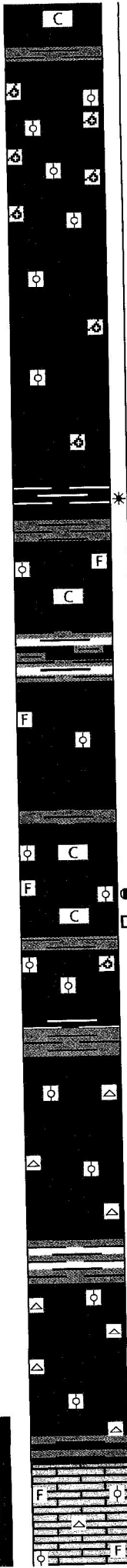
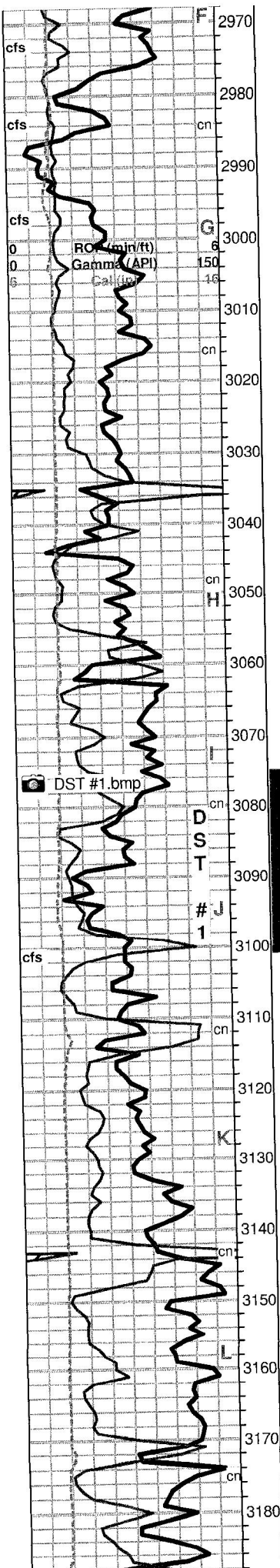
Limestone: cream tan gray, dense sub-chalky matrix, micro-vfxln, heavily oolitic, fair interoolitic porosity, no shows, no fluorescence, grading to Limestone: cream tan, dense cherty matrix, microxn, barren, no visible porosity, no shows, no fluorescence.

Shale: gray dk gray, blocky to rounded, softer.

Limestone: cream tan, dense chalky matrix, vfxln, heavily oolitic, fair interxn porosity, no shows, no fluorescence.

2973' cfs - Limestone: off white lt cream, dense tight sub-chalky to cherty





matrix, micro-cryptoxln, barren, no visible porosity, no shows, poor dull white mineral fluorescence, no cut.

2984' cfs - Limestone: tan lt brown, dense sub-friable matrix, vixln, oolitic with scattered fair oomoldic development and associated porosity, some 2ndary xln fill in porosity, no shows, no fluorescence

2997' cfs - Limestone: tan lt brown, dense sub-friable matrix, vixln, oolitic with good-excellent oomoldic development and associated porosity, fair amount of 2ndary xln within porosity, no shows, no fluorescence.

Limestone: tan cream, dense tight matrix, microxln, mostly barren with some scattered sub-oolitic, overall poor visible porosity with occasional poor vuggy/oomoldic porosity, no shows, no fluorescence.

Limestone: tan cream, dense tight matrix, microxln, mostly barren with some scattered sub-oolitic, overall poor visible porosity with occasional poor vuggy/oomoldic porosity, no shows, no fluorescence.

MUNCIE CREEK 3035' (-1317')

Shale: black, carbonaceous, blocky and firm, some waxy, poor-fair show gas upon break.

Shale: gray dk gray, blocky to rounded, mostly soft.

Limestone: cream lt cream lt tan, dense sub-chalky matrix, micro-vixln, fossiliferous in part with some sub-oolitic, overall poor interxln porosity, no shows, little-no mineral fluorescence, no cut.

Predominately Shale: gray dk gray pale green, blocky and firm, splintery to fissile, with some interbedded/stringers of Limestone.

Limestone: off white cream tan, dense matrix, microxln, scattered sub-fossiliferous to mostly barren, sub-oolitic in part, trace poor micro vug porosity with overall poor visible porosity, no shows, no fluorescence.

Limestone: off white cream tan, dense matrix, microxln, most barren, poor-no visible porosity, no shows, no fluorescence.

3101' cfs - Limestone: off white lt cream, dense to sub-friable chalky matrix, micro-vixln, most fossiliferous/bioclastic, fair-good vuggy/interfossiliferous porosity in most, very heavy dk brown oil saturation, some dead staining along edges and within porosity, fair-good show heavy dk stringy oil upon break, even spotty-even bright lt yellow fluorescence, streaming milky-white cut, no odor, with some loose Chalk in sample.

STARK 3110' (-1392')

Shale: trace black dk gray gray, some carbonaceous, blocky, firm, splintery to fissile, no gas show.

Limestone: lt cream cream tan, dense tight cherty xln matrix, microxln, most barren with trace sub-oolitic, some 2ndary xln along edges, overall poor-no visible porosity, no shows, no fluorescence.

Limestone: as above, no shows, with scattered Chert: cream tan, fresh and sharp, barren.

HUSHPUCKNEY 3142' (-1424')

Shale: gray dk gray trace dk green, blocky and firm, fissile to splintery.

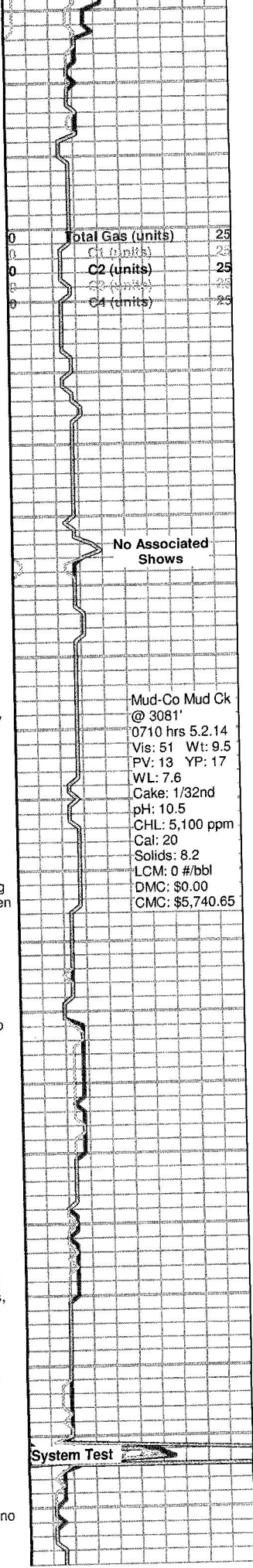
Limestone: cream lt cream tan, dense tight cherty xln matrix, microxln, most barren with occasional sub-oolitic, overall poor-no visible porosity, no shows, no fluorescence, with scattered Chert: cream lt cream, fresh and sharp, barren.

Limestone: cream lt off white cream, dense tight cherty xln matrix, microxln, most barren with occasional sub-oolitic, overall poor-no visible porosity, no shows, no fluorescence, with scattered Chert as above.

BASE KANSAS CITY 3170' (-1452')

MARMATON 3174' (-1456')

Limestone: gray lt gray cream lt cream, dense tight matrix, micro-vixln, fossiliferous/oolitic to barren, some cherty, poor visible porosity, no shows, no fluorescence.

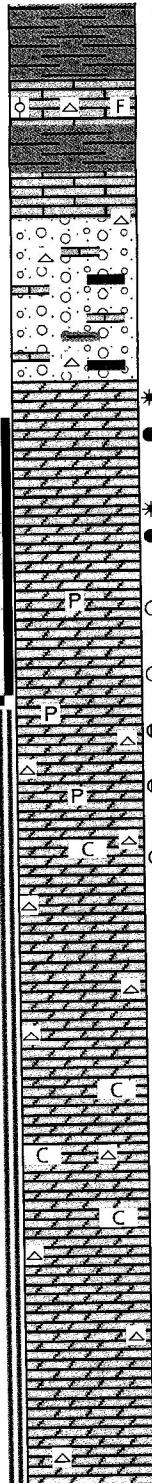
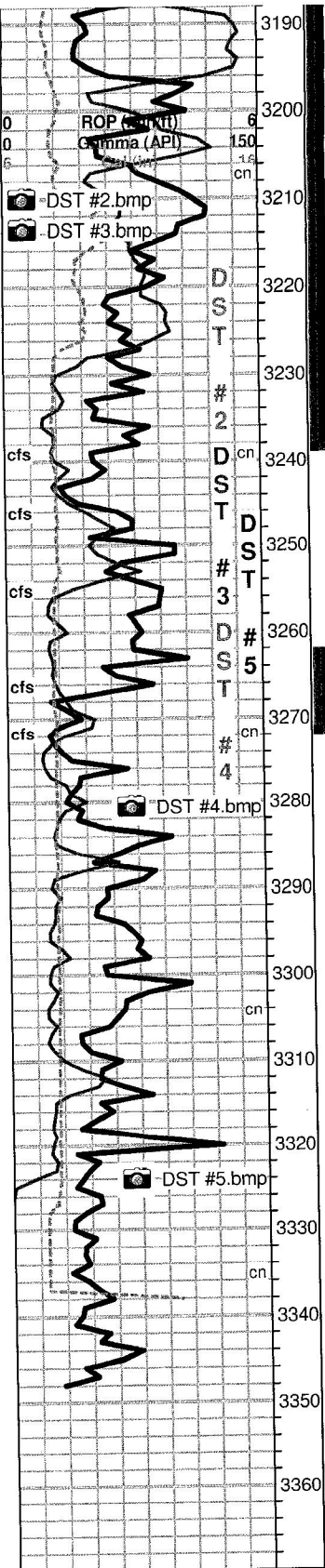


Total Gas (units)	25
C1 (units)	25
C2 (units)	25
C3 (units)	25
C4 (units)	25

No Associated Shows

Mud-Co Mud Ck @ 3081'
 0710 hrs 5.2.14
 Vis: 51 Wt: 9.5
 PV: 13 YP: 17
 WL: 7.6
 Cake: 1/32nd
 pH: 10.5
 CHL: 5,100 ppm
 Cal: 20
 Solids: 8.2
 LCM: 0 #/bbl
 DMC: \$0.00
 CMC: \$5,740.65

System Test



Shale: gray lt gray, blocky to slightly rounded, most soft/brittle.

Limestone: gray tan, dense tight matrix, micro-vfxln, fossiliferous/oolitic to barren, some cherty, poor visible porosity, no shows, no fluorescence.

BASAL PENN CONGLOMERATE 3206' (-1488')

Limestone: cream tan gray, dense tight matrix, vi-microxln, some scattered lithographic non-descript, fossiliferous/oolitic to barren, poor-no visible porosity, no shows, no fluorescence.

Conglomerate: mixed Limestone: as above, no shows, with Shale: gray dk gray brick red, mostly rounded and soft, some loose Clay, and scattered Chert: orange tan, opaque to translucent, fresh and sharp, barren, sample washes brownish-red.

ARBUCKLE 3228' (-1510')

3239' cfs (3228'-3239') - Dolomite: It cream lt tan, dense to sub-friable matrix, vf-fxln trace coarsexln, poor-good rhombic dev and associated porosity, ~50% carrying fair-good micro-vug/interxln porosity, spotty golden saturated stain, fair-good show golden brown oil and gas from porosity with increase under lamp, even bright whitish-yellow fluorescence, streaming milky-white cut, strong odor.

3246' cfs (3240'-3246') - Dolomite: It cream off white cream, sub-friable to friable matrix, vf-fxln, mixed sucrosic to sub-rhombic development, overall fair-good interxln porosity with scattered excellent vuggy porosity, spotty golden stain, fair-good show golden brown oil and gas upon break with increase under lamp, even bright whitish-yellow fluorescence, streaming milky-white cut, strong odor.

3255' cfs (3247'-3255') - Dolomite: cream lt cream, dense tight matrix, micro-vfxln, overall poor xln development and associated porosity, some Pyrite inclusions, few pieces with poor show golden brown oil upon break, even whitish-yellow fluorescence, very poor-no cut, strong odor.

3266' cfs (3256'-3266') - Dolomite: It cream tan, dense to scattered sub-friable matrix, vf-fxln, increase in xln development, overall fair-poor interxln porosity, increase in show rocks with about 5% carrying fair-good show golden brown oil upon break with increase under lamp, even whitish-yellow fluorescence, milky-white cut in show rocks, strong-moderate odor.

3272' cfs (3267'-3272') - Dolomite: cream lt cream, dense and tight as above grading to sub-friable matrix, vf-fxln, fair-good rhombic development and associated porosity, some vuggy porosity, scattered golden stain, fair-good show lt brown oil from porosity with increase upon break/under lamp, even bright-dull whitish fluorescence, milky-white cut in show rocks, strong odor, with influx Chert: white gray, opaque to translucent, fresh and sharp.

(3273'-3283') - Dolomite: as above, increase in chalk fill and pyrite inclusions, still carrying fair show lt brown oil in most pieces upon break, even lt-pale yellow fluorescence, bluish-white to white cut, strong odor, with scattered Chert as above.

(3284'-3301') - Dolomite: gray tan, dense tight matrix, microxln, most very poor xln development and associated porosity, no shows, even pale yellow mineral fluorescence, no cut, moderate odor, with continued scattered Chert.

(3302'-3319') - Dolomite: gray tan, dense tight matrix, vfxln, most very poor xln development and associated porosity, no shows, even pale yellow mineral fluorescence, no cut, moderate odor, with scattered Chert, and fair amount of loose Chalk.

(3320'-3337') - Dolomite: It cream cream, mostly dense matrix with some sub-friable, vf-fxln, fair rhombic development throughout, fair-poor interxln porosity, no shows, even pale yellow mineral fluorescence, no cut, moderate odor, with Chert: white gray cream, opaque to translucent, fresh and sharp, and continued loose Chalk.

(3338'-3348') - Dolomite: gray tan, dense matrix, micro-fxln, mixed poor-fair xln development and associated porosity, no shows, even pale yellow mineral fluorescence, no cut, fair odor, with continued Chert and Chalk.

LTD 3348' (-1630')

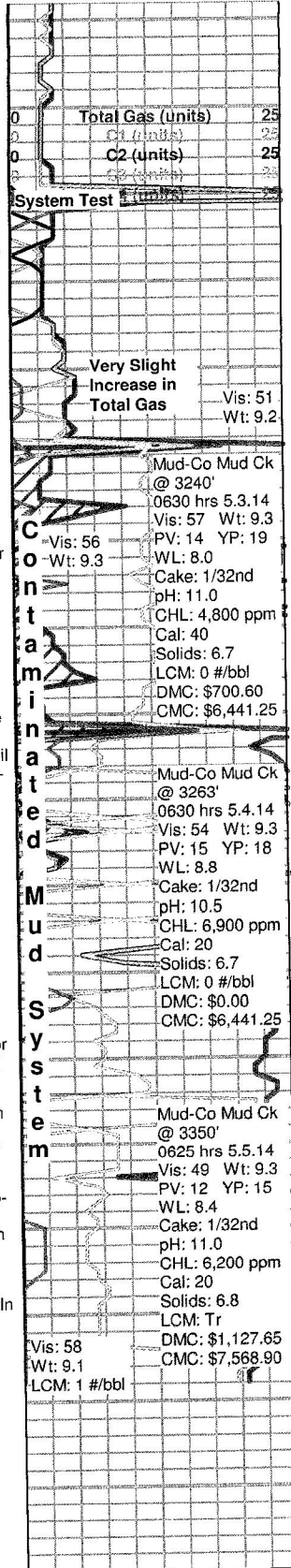
RTD 3350' (-1632')

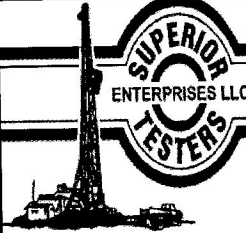
Geologist Derek W. Patterson Off Location 1345 hrs 5.5.14

Orders Received to Plug and Abandon Well As A Dry Hole

Respectfully Submitted,

Derek W. Patterson



	DRILL STEM TEST REPORT	
	Gilbert-Stewart Operating 1801 Broadway Ste 450 Denver Colorado 80202 ATTN: Derek Patterson	28-19s-9w-Rice Lincoln #18 Job Ticket: 18318 DST#: 1 Test Start: 2014.05.02 @ 12:27:00

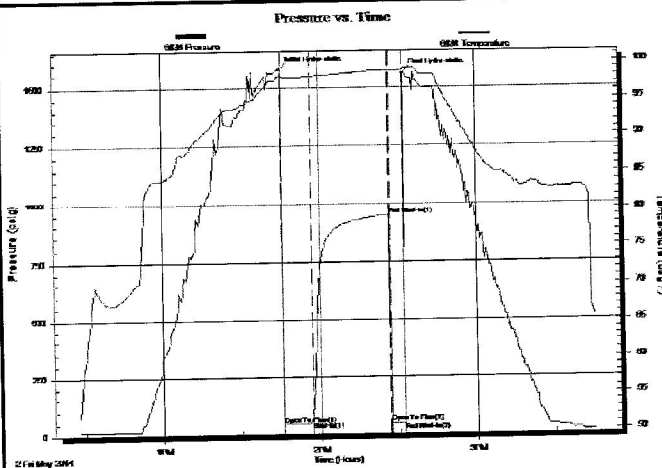
GENERAL INFORMATION:

Formation: Lansing KC J	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Dustin Ellis
Time Tool Opened: 13:46:00	Unit No: 3315-Great Bend-52
Time Test Ended: 15:45:00	Reference Elevations: 1718.00 ft (KB)
Interval: 3076.00 ft (KB) To 3102.00 ft (KB) (TVD)	1709.00 ft (CF)
Total Depth: 3102.00 ft (KB) (TVD)	KB to GR/CF: 9.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair	

Serial #: 6838

Press@RunDepth: 52.59 psig @ ft (KB)	Capacity: 5000.00 psig
Start Date: 2014.05.02	End Date: 2014.05.02
Start Time: 12:27:00	End Time: 15:45:00
	Last Calib.: 2014.05.02
	Time On Btm: 2014.05.02 @ 13:45:30
	Time Off Btm: 2014.05.02 @ 14:32:30

TEST COMMENT: 1st Open 10 minutes Very very weak surface blow through out.
 1st Shut in 30 minutes No blow back.
 2nd Open 10 minutes Dead -Pulled tool
 2nd Shut in N-A



PRESSURE SUMMARY

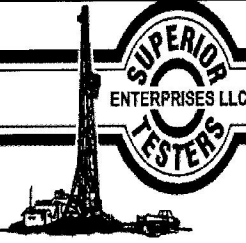
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1580.10	98.00	Initial Hydro-static
1	43.84	97.83	Open To Flow (1)
11	52.59	97.87	Shut-In(1)
41	945.37	98.75	End Shut-In(1)
42	47.01	98.66	Open To Flow (2)
47	47.76	98.70	End Shut-In(2)
47	1561.53	98.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Slightly oil spect mud Mud 100%	0.06

Gas Rates

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

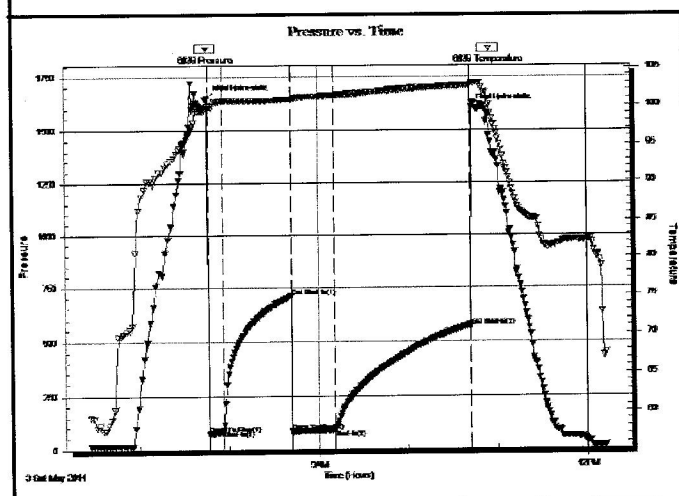
	DRILL STEM TEST REPORT	
	Gilbert-Stewart Operating 1801 Broadway Ste 450 Denver Colorado 80202 ATTN: Derek Patterson	28-19s-9w-Rice Lincoln #18 Job Ticket: 18319 DST#: 2 Test Start: 2014.05.03 @ 06:26:00

GENERAL INFORMATION:

Formation: Arbuckle	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Dustin Ellis
Time Tool Opened: 07:46:30	Unit No: 3315-Great Bend-52
Time Test Ended: 12:13:00	Reference Elevations: 1718.00 ft (KB)
Interval: 3170.00 ft (KB) To 3240.00 ft (KB) (TVD)	1709.00 ft (CF)
Total Depth: 3240.00 ft (KB) (TVD)	KB to GR/CF: 9.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair	

Serial #: 6839	Outside	Capacity: 5000.00 psig
Press@RunDepth: 87.70 psig @ 3235.74 ft (KB)		Last Calib.: 2014.05.03
Start Date: 2014.05.03	End Date: 2014.05.03	Time On Btm: 2014.05.03 @ 07:45:30
Start Time: 06:27:00	End Time: 12:13:00	Time Off Btm: 2014.05.03 @ 10:42:30

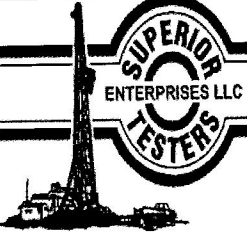
TEST COMMENT: 1st Open 10 minutes Weak building blow built to 5 inches into a 5 gallon bucket of water.
 1st Shut in 45 minutes No blow
 2nd Open 30 minutes Weak building blow built to the bottom of the bucket in 26 minutes.
 2nd Shut in 90 minutes Yes blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1647.45	99.90	Initial Hydro-static
1	71.61	99.67	Open To Flow (1)
11	88.65	100.60	Shut-In(1)
56	708.04	100.84	End Shut-In(1)
57	85.31	100.68	Open To Flow (2)
85	87.70	101.31	Shut-In(2)
177	568.31	102.63	End Shut-In(2)
177	1604.49	102.81	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
12.00	Clean gassy oil 100%	0.17
63.00	Gassy mud cut oil	0.88
0.00	Mud 50% Oil 15% Gas 35%	0.00
0.00	189 Gas in pipe	0.00

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

	<h2 style="margin:0;">DRILL STEM TEST REPORT</h2>
Gilbert-Stewart Operating 1801 Broadway Ste 450 Denver Colorado 80202 ATTN: Derek Patterson	28-19s-9w-Rice Lincoln #18 Job Ticket: 18320 DST#: 3 Test Start: 2014.05.03 @ 07:02:00

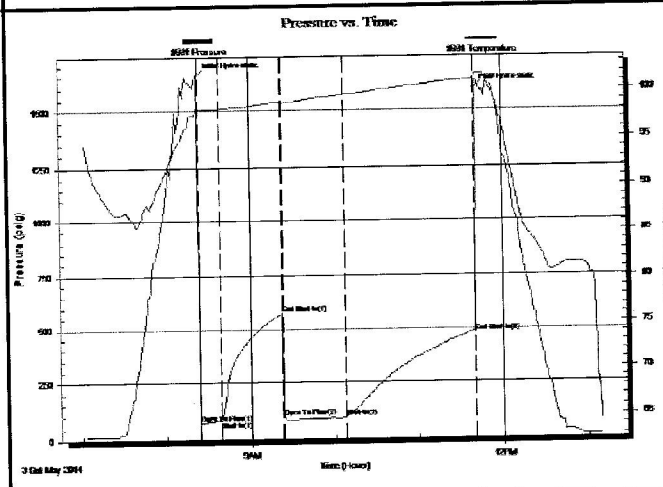
GENERAL INFORMATION:

Formation: Arbuckle	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Dustin Ellis
Time Tool Opened: 08:24:00	Unit No: 3315-Great Bend-52
Time Test Ended: 13:10:00	Reference Elevations: 1718.00 ft (KB)
Interval: 3168.00 ft (KB) To 3247.00 ft (KB) (TVD)	1709.00 ft (CF)
Total Depth: 3247.00 ft (KB) (TVD)	KB to GR/CF: 9.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair	

Serial #: 8931 Outside

Press@RunDepth: 92.68 psig @ 3242.66 ft (KB)	Capacity: 5000.00 psig
Start Date: 2014.05.03 End Date: 2014.05.03	Last Calib.: 2014.05.04
Start Time: 07:02:00 End Time: 13:10:00	Time On Btm: 2014.05.03 @ 08:23:30
	Time Off Btm: 2014.05.03 @ 11:40:30

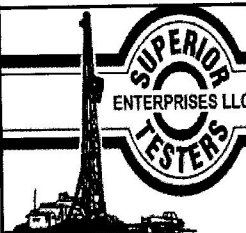
TEST COMMENT: 1st Open 15 minutes Weak building blow built to 6 inches into a 5 gallon bucket of water.
 1st Shur in 45 minutes No blow back
 2nd Open 45 minutes Weak building blow built to 10.5 inches into a 5 gallon bucket of water.
 2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.72	98.25	Initial Hydro-static
1	72.06	97.90	Open To Flow (1)
15	81.30	98.02	Shut-In(1)
60	576.11	98.77	End Shut-In(1)
60	96.18	98.48	Open To Flow (2)
104	92.68	99.48	Shut-In(2)
197	480.13	101.14	End Shut-In(2)
197	1597.03	101.42	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
4.00	Clean gassy oil 100%	0.06
63.00	Gassy mud cut oil	0.88
0.00	Mud 60% Oil 20% Gas 20%	0.00
0.00	180 Gas in pipe	0.00

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

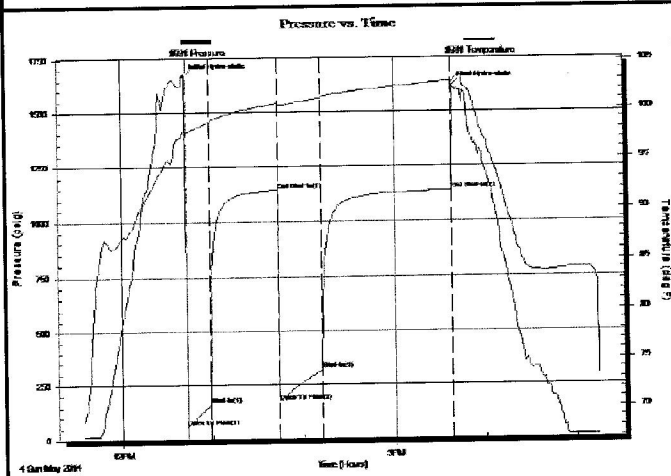
	<h2 style="margin: 0;">DRILL STEM TEST REPORT</h2>
Gilbert-Stewart Operating 1801 Broadway Ste 450 Denver Colorado 80202 ATTN: Derek Patterson	28-19s-9w-Rice Lincoln #18 Job Ticket: 18321 DST#: 4 Test Start: 2014.05.04 @ 11:34:00

GENERAL INFORMATION:

Formation: Arbuckle	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Dustin Ellis
Time Tool Opened: 12:42:30	Unit No: 3315-Great Bend-52
Time Test Ended: 17:15:00	Reference Elevations: 1718.00 ft (KB)
Interval: 3263.00 ft (KB) To 3273.00 ft (KB) (TVD)	1709.00 ft (CF)
Total Depth: 3273.00 ft (KB) (TVD)	KB to GR/CF: 9.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair	

Serial #: 8931	Inside	Capacity: 5000.00 psig
Press@RunDepth: 320.60 psig @ 3268.00 ft (KB)		Last Calib.: 2014.05.04
Start Date: 2014.05.04	End Date: 2014.05.04	Time On Btm: 2014.05.04 @ 12:42:00
Start Time: 11:34:00	End Time: 17:15:00	Time Off Btm: 2014.05.04 @ 15:38:30

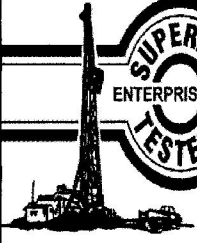
TEST COMMENT: 1st Open 15 minutes Strong building blow buit to the bottom of a 5 gallon bucket of w ater in 4 minutes.
 1st Shut in 45 minutes No blow back
 2nd Open 30 minutes Strong building blow buit to the bottom of a 5 gallon bucket of w ater in 6 minutes.
 2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1669.98	97.82	Initial Hydro-static
1	57.47	97.30	Open To Flow (1)
17	161.29	98.60	Shut-In(1)
62	1144.38	100.54	End Shut-In(1)
62	172.76	100.31	Open To Flow (2)
90	320.60	101.03	Shut-In(2)
176	1141.78	102.76	End Shut-In(2)
177	1619.58	102.84	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
2.00	Clean oil 100%	0.03
189.00	Muddy water mud 10% w ater90%	2.65
519.00	Water 100%	7.28
0.00	Chlorides 43,000 .3ohms@56degrees	0.00

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

	DRILL STEM TEST REPORT	
	Gilbert-Stewart Operating 1801 Broadway Ste 450 Denver Colorado 80202 ATTN: Derek Patterson	28-19s-9w-Rice Lincoln #18 Job Ticket: 18322 DST#: 5 Test Start: 2014.05.05 @ 12:11:00

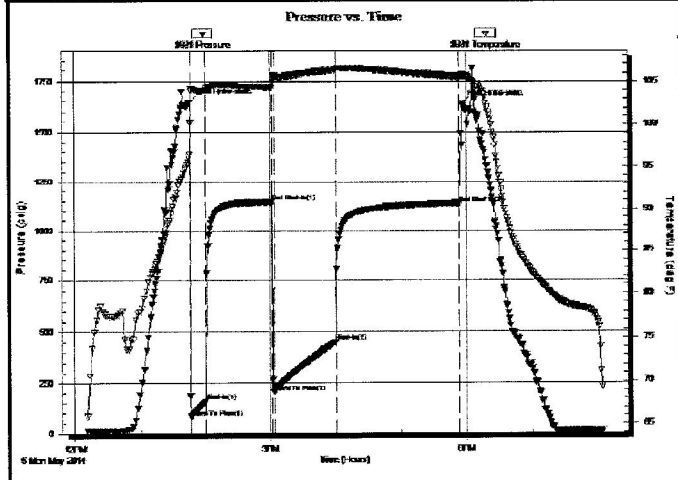
GENERAL INFORMATION:

Formation: Arbuckle	Test Type: Conventional Straddle (Initial)
Deviated: No Whipstock ft (KB)	Tester: Dustin Ellis
Time Tool Opened: 13:47:00	Unit No: 3315-Great Bend-52
Time Test Ended: 20:04:30	Reference Elevations: 1718.00 ft (KB)
Interval: 3232.00 ft (KB) To 3263.00 ft (KB) (TVD)	1709.00 ft (CF)
Total Depth: 3348.00 ft (KB) (TVD)	KB to GR/CF: 9.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair	

Serial #: 8931

Press@RunDepth: 450.31 psig @ ft (KB)	Capacity: 5000.00 psig
Start Date: 2014.05.05 End Date: 2014.05.05	Last Calib.: 2014.05.05
Start Time: 12:11:00 End Time: 20:04:30	Time On Btm: 2014.05.05 @ 13:46:00
	Time Off Btm: 2014.05.05 @ 17:56:00

TEST COMMENT: 1st Open 15 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 3 minutes.
 1st Shut in 60 minutes No blow back
 2nd Open 60 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 2 minutes.
 2nd Shut in 120 minutes Yes blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1648.26	96.46	Initial Hydro-static
1	82.00	103.80	Open To Flow (1)
15	161.70	104.03	Shut-In(1)
76	1148.12	104.31	End Shut-In(1)
77	206.09	105.49	Open To Flow (2)
134	450.31	106.31	Shut-In(2)
248	1139.06	105.54	End Shut-In(2)
250	1640.19	105.71	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Free clean oil 100%	0.07
504.00	Oil cut mud 10%Oil 90% Mud	7.07
126.00	Oil cut mud with oil cut water	1.77
0.00	Oil 1% Mud69% Water30%	0.00
315.00	Water 99%water 1%Oil	4.42
0.00	126 gas in pipe	0.00

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