



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1190736
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: _____

1190736

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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Form	ACO1 - Well Completion
Operator	Hembree, Robert F
Well Name	Schwartzkopf 2
Doc ID	1190736

All Electric Logs Run

Dual Compensated Porosity
Dual Induction
Microresistivity
Sonic Cement Bond Log

Form	ACO1 - Well Completion
Operator	Hembree, Robert F
Well Name	Schwartzkopf 2
Doc ID	1190736

Tops

Name	Top	Datum
Anhydrite	1550	+743
Base Anhydrite	1585	+708
Heebner	3669	-1376
Toronto	3687	-1394
Lansing	3710	-1417
Base Kansas City	4002	-1709
Marmaton	4039	-1746
Pawnee	4125	-1832
Ft. Scott	4201	-1908
Cherokee Shale	4227	-1934
Mississippian	4290	-1997
Mississippi Dolomite	4295	-2002
RTD	4306	-2013
LTD	4306	-2013



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Robert F Hembree
PO Box 542
Ness City Ks 67560-0542
ATTN: Fred Hembree, Jim Mu

35-18s-24w Ness
Schwartzkopf #2
Job Ticket: 55462 **DST#: 1**
Test Start: 2013.12.18 @ 17:25:44

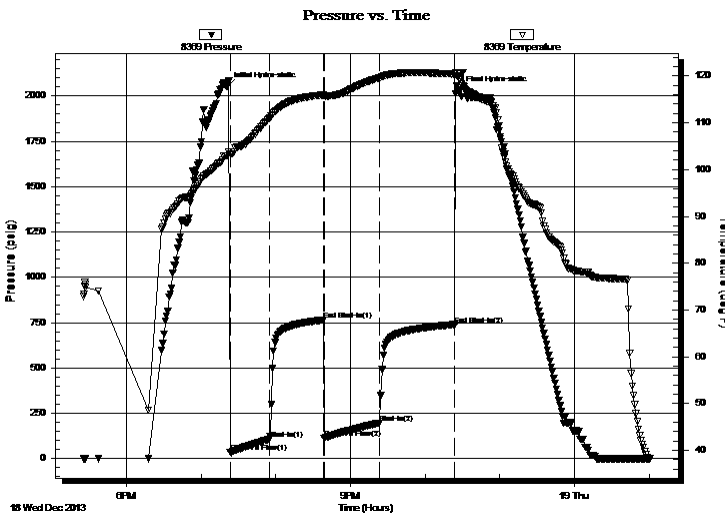
GENERAL INFORMATION:

Formation: **FT Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:23:24
Time Test Ended: 01:00:53
Interval: **4190.00 ft (KB) To 4240.00 ft (KB) (TVD)**
Total Depth: 4240.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schwager
Unit No: 70
Reference Elevations: 2293.00 ft (KB)
2286.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8369 Inside
Press @ Run Depth: 196.67 psig @ 4204.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.12.18 End Date: 2013.12.19 Last Calib.: 2013.12.19
Start Time: 17:25:44 End Time: 01:00:53 Time On Btm: 2013.12.18 @ 19:21:09
Time Off Btm: 2013.12.18 @ 22:27:53

TEST COMMENT: 30-IFP-w k to strg in 9min
45-ISIP-surface to 1/4"bl bk
45-FFP-w k to strg in 14min
60-FSIP-surface bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2049.97	103.04	Initial Hydro-static
3	34.76	103.33	Open To Flow (1)
34	108.25	111.03	Shut-In(1)
78	764.67	115.94	End Shut-In(1)
78	113.06	115.75	Open To Flow (2)
123	196.67	119.61	Shut-In(2)
183	738.42	120.41	End Shut-In(2)
187	2031.97	119.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	365'GIP	0.00
65.00	GMO 10%G15%W15%M60%O	0.91
60.00	SO&GCMW 10%G5%O35%M50%W	0.84
248.00	Water	3.48

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Robert F Hembree

35-18s-24w Ness

PO Box 542
Ness City Ks 67560-0542

Schwartzkopf #2

Job Ticket: 55462

DST#: 1

ATTN: Fred Hembree, Jim Mu

Test Start: 2013.12.18 @ 17:25:44

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 10.35 in³
Resistivity: ohm.m
Salinity: 4700.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: 80000 ppm

Recovery Information

Recovery Table

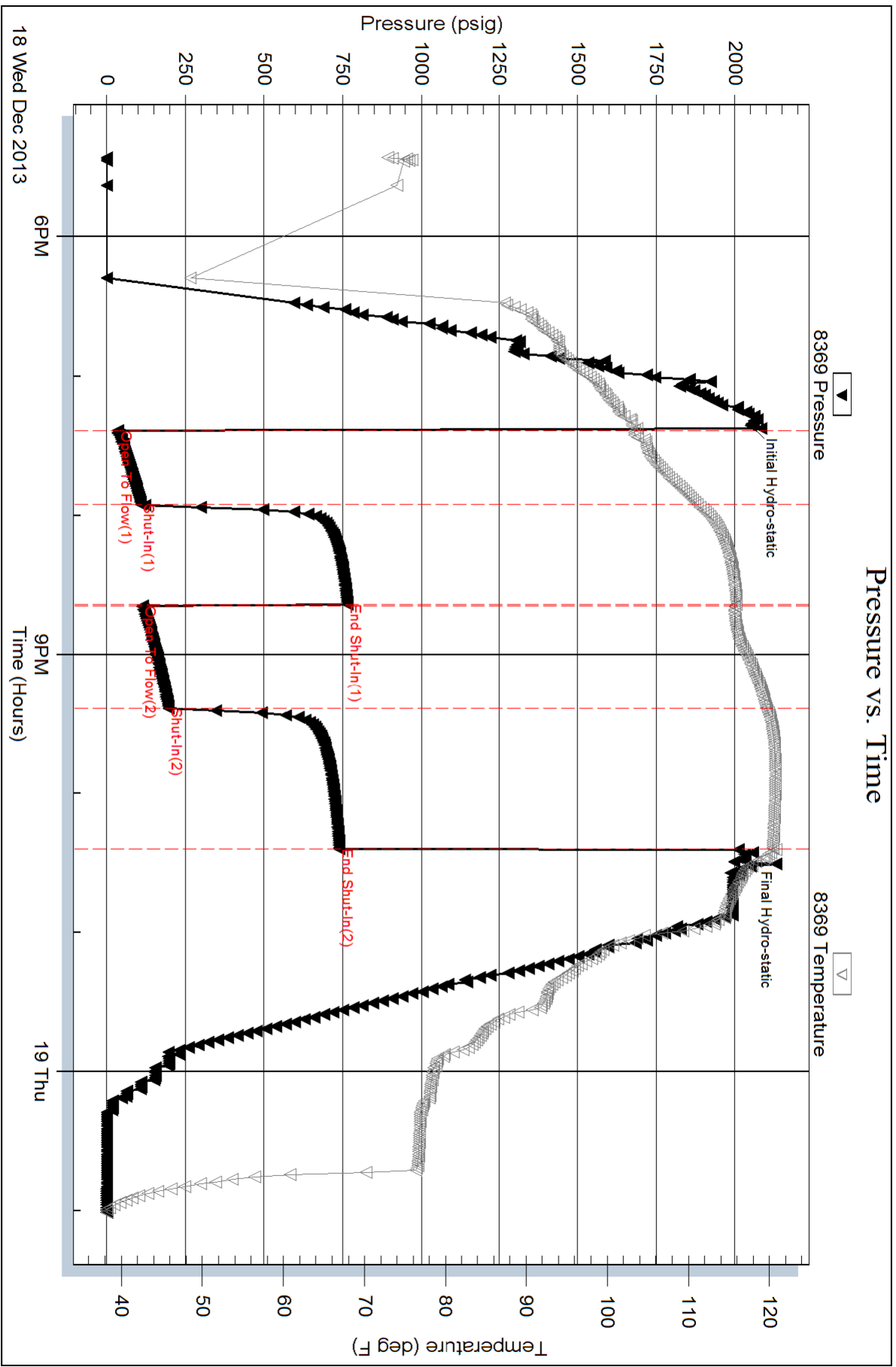
Length ft	Description	Volume bbl
0.00	365'GIP	0.000
65.00	GMO 10%G15%W15%M60%O	0.912
60.00	SO&GCMW 10%G5%O35%M50%W	0.842
248.00	Water	3.479

Total Length: 373.00 ft Total Volume: 5.233 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .11 @60F





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Robert F Hembree
PO Box 542
Ness City Ks 67560-0542
ATTN: Fred Hembree, Jim Mu

35-18s-24w Ness
Schwartzkopf #2
Job Ticket: 55464 **DST#: 2**
Test Start: 2013.12.19 @ 12:55:34

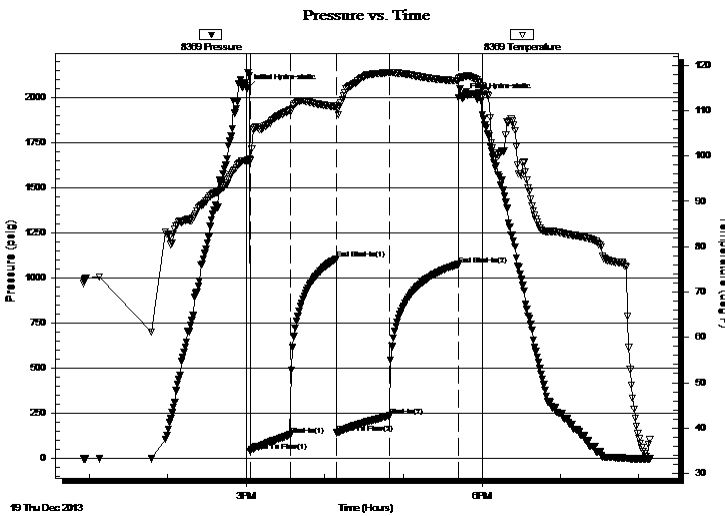
GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:02:44
Time Test Ended: 20:08:13
Interval: **4249.00 ft (KB) To 4306.00 ft (KB) (TVD)**
Total Depth: 4306.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Reference Elevations: 2293.00 ft (KB)
2286.00 ft (CF)
KB to GR/CF: 7.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schwager
Unit No: 70

Serial #: 8369 **Inside**
Press @ Run Depth: 237.29 psig @ 4251.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.12.19 End Date: 2013.12.19 Last Calib.: 2013.12.19
Start Time: 12:55:34 End Time: 20:08:13 Time On Btm: 2013.12.19 @ 15:00:44
Time Off Btm: 2013.12.19 @ 17:45:43

TEST COMMENT: 30-IFP-w k to strg in 6min
30-ISIP-1/4"bl bk
45-FFP-w k to strg in 11min
60-FSIP-surface bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2049.37	98.94	Initial Hydro-static
2	39.22	98.88	Open To Flow (1)
33	131.94	110.07	Shut-In(1)
68	1107.17	110.95	End Shut-In(1)
69	143.50	110.51	Open To Flow (2)
109	237.29	118.31	Shut-In(2)
161	1075.21	116.55	End Shut-In(2)
165	1997.84	117.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	340'GIP	0.00
380.00	CO	5.33
80.00	MGO 20%G25%M55%O	1.12
186.00	MGO 20%G15%M65%O	2.61

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Robert F Hembree

35-18s-24w Ness

PO Box 542
Ness City Ks 67560-0542

Schwartzkopf #2

Job Ticket: 55464

DST#: 2

ATTN: Fred Hembree, Jim Mu

Test Start: 2013.12.19 @ 12:55:34

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.30 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	340'GIP	0.000
380.00	CO	5.330
80.00	MGO 20%G25%M55%O	1.122
186.00	MGO 20%G15%M65%O	2.609

Total Length: 646.00 ft

Total Volume: 9.061 bbl

Num Fluid Samples: 0

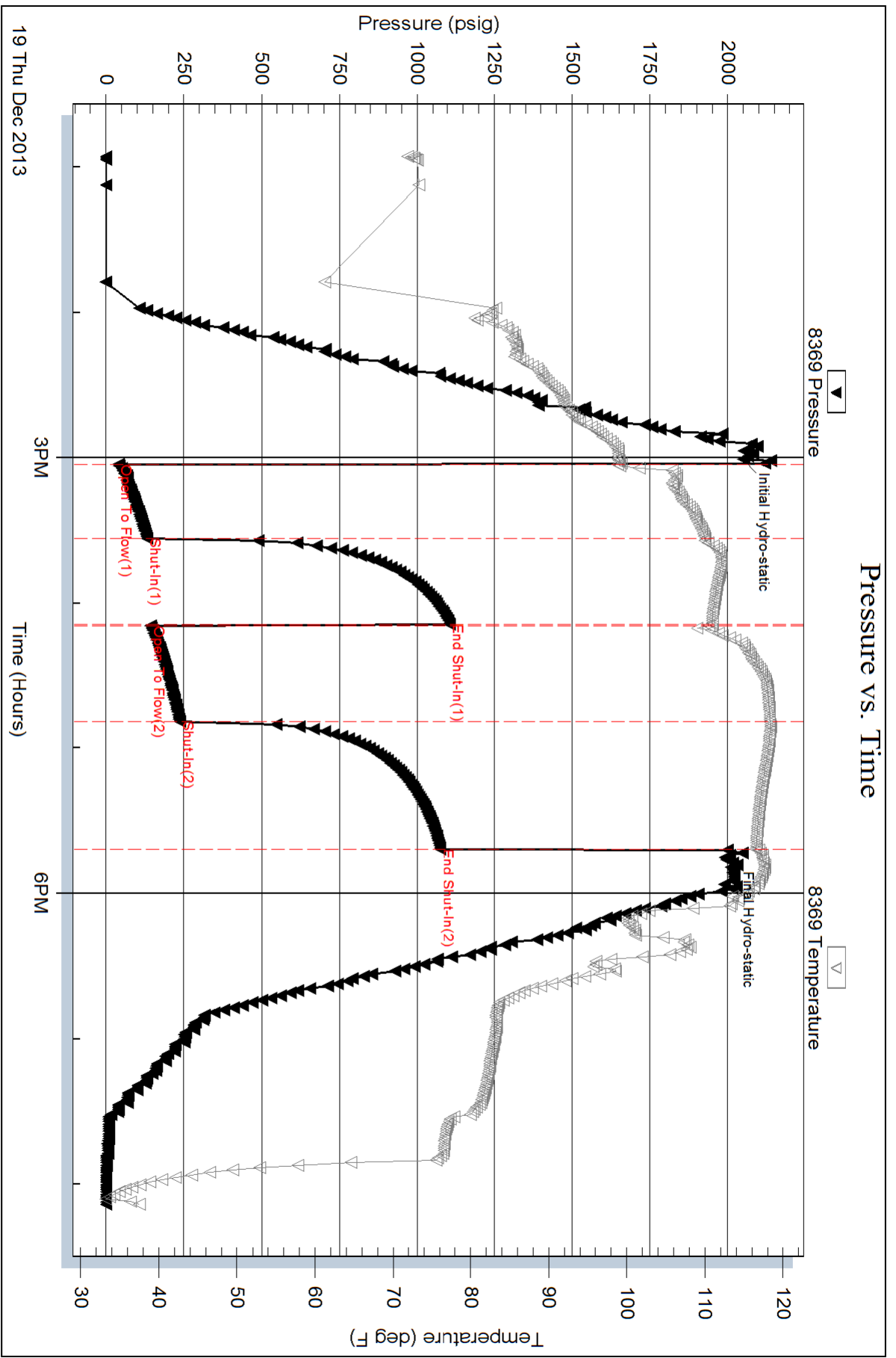
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 140284

Invoice Date: Dec 13, 2013

Page: 1

Bill To:
Robert F. Hembree P O Box 542 Ness City, KS 67560

Customer ID	Field Ticket #	Payment Terms	
Hem	61081	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Dec 13, 2013	1/12/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Schwartzkopf #2		
150.00	CEMENT MATERIALS	Class A Common	17.90	2,685.00
3.00	CEMENT MATERIALS	Gel	23.40	70.20
400.00	CEMENT MATERIALS	Chloride	0.80	320.00
162.09	CEMENT SERVICE	Cubic Feet Charge	2.48	401.98
22.20	CEMENT SERVICE	Ton Mileage Charge	2.60	57.72
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
3.00	CEMENT SERVICE	Pump Truck Mileage	7.70	23.10
3.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	13.20
1.00	CEMENT SUPERVISOR	Joshua Isaac		
1.00	OPERATOR ASSISTANT	Andy Fimple		
1.00	EQUIPMENT OPERATOR	Daniel Casper		

Subtotal	5,083.45
Sales Tax	189.12
Total Invoice Amount	5,272.57
Payment/Credit Applied	
TOTAL	5,272.57

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 762.52

ONLY IF PAID ON OR BEFORE
Jan 7, 2014

RECEIVED
12-23-13

CK# 4983

12-23-13

762.52
4510.05



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 140456
Invoice Date: Dec 20, 2013
Page: 1

Voice: (817) 546-7282
Fax: (817) 246-3361

Bill To:
Robert F. Hembree P O Box 542 Ness City, KS 67560

Customer ID	Field Ticket #	Payment Terms	
Hem	61875	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Great Bend	Dec 20, 2013	1/19/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Schwartzkopf #2		
18.00	CEMENT MATERIALS	Class A Common	17.90	322.20
12.00	CEMENT MATERIALS	Pozmix	9.35	112.20
1.00	CEMENT MATERIALS	Gel	23.40	23.40
150.00	CEMENT MATERIALS	ASC	20.90	3,135.00
750.00	CEMENT MATERIALS	Kol Seal	0.98	735.00
19.00	CEMENT MATERIALS	Defoamer	9.80	186.20
500.00	CEMENT MATERIALS	DV-1100	1.27	635.00
223.93	CEMENT SERVICE	Cubic Feet Charge	2.48	555.35
29.12	CEMENT SERVICE	Ton Mileage Charge	2.60	75.71
1.00	CEMENT SERVICE	Production Casing	2,765.75	2,765.75
3.00	CEMENT SERVICE	Pump Truck Mileage	7.70	23.10
1.00	CEMENT SERVICE	High Connection	600.00	600.00
3.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	13.20
10.00	EQUIPMENT SALES	5-1/2 Centralizer	57.33	573.30
2.00	EQUIPMENT SALES	5-1/2 Basket	394.29	788.58
1.00	EQUIPMENT SALES	5-1/2 Port Collar	3,042.00	3,042.00
1.00	EQUIPMENT SALES	5-1/2 Packer Shoe	2,709.72	2,709.72
1.00	EQUIPMENT SALES	5-1/2 Latch Down Plug	398.00	398.00
1.00	CEMENT SUPERVISOR	Charles Kinyon		
1.00	EQUIPMENT OPERATOR	Mike Scothorn		

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
TOTAL	Continued

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 3,338.74

ONLY IF PAID ON OR BEFORE
Jan 14, 2014



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 140456

Invoice Date: Dec 20, 2013

Page: 2

Voice: (817) 546-7282
Fax: (817) 246-3361

Bill To:
Robert F. Hembree P O Box 542 Ness City, KS 67560

Customer ID	Field Ticket #	Payment Terms	
Hem	61875	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Great Bend	Dec 20, 2013	1/19/14

Quantity	Item	Description	Unit Price	Amount
1.00	EQUIPMENT OPERATOR	Daniel Casper		
1.00	OPERATOR ASSISTANT	Andy Fimple		

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 3,338.74

ONLY IF PAID ON OR BEFORE
Jan 14, 2014

Subtotal	16,693.71
Sales Tax	778.63
Total Invoice Amount	17,472.34
Payment/Credit Applied	
TOTAL	17,472.34

Discount - - - 3,338.74
14,133.60

ALLIED OIL & GAS SERVICES, LLC 061875

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
great Bend

DATE <u>12-20-13</u>	SEC. <u>35</u>	TWP. <u>185</u>	RANGE <u>29W</u>	CALLED OUT <u>8 am</u>	ON LOCATION <u>1 PM</u>	JOB START <u>5 pm</u>	JOB FINISH <u>6:30 pm</u>
SCHWARTZ KOPF LEASE			WELL # <u>2</u>	LOCATION <u>near city 2W</u>		COUNTY <u>Perm</u>	STATE <u>K2</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)			Sclnta				

CONTRACTOR pickell 10
 TYPE OF JOB production
 HOLE SIZE 5 7/8 T.D. 4306
 CASING SIZE 5 1/2 15.5% DEPTH 4301
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL port collar DEPTH 1560
 PRES. MAX 1500 MINIMUM 700
 MEAS. LINE _____ SHOE JOINT 39.70
 CEMENT LEFT IN CSG. 39.70
 PERFS. _____
 DISPLACEMENT H2O 101.93
 EQUIPMENT

OWNER Hembree
 CEMENT
 AMOUNT ORDERED 30 lbs 60/40 41 gal
150 lbs acc 6% gypsum 10% salt
2% gel .14% defoamer 5# Kolocal
DV 1100 500 gal
 COMMON 18 @ 17.90 322.20
 POZMIX 12 @ 9.35 112.20
 GEL 1 @ 23.40 23.40
 CHLORIDE _____ @ _____
 ASC 150 @ 20.90 3135.00
Kolocal 750 @ 9.8 735.00
DF 19 @ 9.80 186.20
DV 1100 500 @ 1.27 635.00
 HANDLING 223.93 @ 2.48 555.34
 MILEAGE 9.71 x 3.4 2.60 75.73
 TOTAL 5780.07

PUMP TRUCK CEMENTER Charles Kingon
 # 398 HELPER de Mike Northon
 BULK TRUCK
 # 871-112 DRIVER Dan Carper
 BULK TRUCK
 # _____ DRIVER andy simple

REMARKS:

Run 4301 6% Break circulator
w/ Rig mud deep ball pump
Thru 2" @ 1000 psi plug Port Hole
30 lbs 60/40 41 gal hook to head
10 BBI DV 1100 ahead min 150 lbs
acc 6% gypsum 10% salt 2% gel .14%
defoamer 5# Kolocal 1 sh shut down
wash pump & lines plug
displace 101.93 BBI 2" @ plug
landed @ 700 psi Bump to 1500
 CHARGE TO: Hembree (Robert F.) 15.

SERVICE

DEPTH OF JOB 4293
 PUMP TRUCK CHARGE 2.765.15
 EXTRA FOOTAGE @ _____
 MILEAGE HVM 3 @ 7.70 23.10
 MANIFOLD @ _____
high connection @ 6.00 600.00
LVM 3 @ 4.40 13.20
 TOTAL 3402.05

STREET _____
 CITY _____ STATE _____ ZIP _____

thank you!

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

10-5 1/2 centrifuges 57.33 573.30
2- Baskets @ 394.29 788.58
port collar @ 3042.00 3042.00
packer shoe @ 2.709.72 2.709.72
latch down plug @ 398.00 398.00
 TOTAL 7511.60

PRINTED NAME X Fred J Hembree
 SIGNATURE X Fred J Hembree

SALES TAX (If Any) _____
 TOTAL CHARGES 16,693.72
 DISCOUNT 3,338.74 IF PAID IN 30 DAYS
13,354.97



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 140609
Invoice Date: Dec 30, 2013
Page: 1

Bill To:
Robert F. Hembree P O Box 542 Ness City, KS 67560

Customer ID	Field Ticket #	Payment Terms	
Hem	62602	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Great Bend	Dec 30, 2013	1/29/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Schwartzkopf #2		
222.00	CEMENT MATERIALS	Class A Common	17.90	3,973.80
148.00	CEMENT MATERIALS	Pozmix	9.35	1,383.80
19.00	CEMENT MATERIALS	Gel	23.40	444.60
93.00	CEMENT MATERIALS	Flo Seal	2.97	276.21
407.98	CEMENT SERVICE	Cubic Feet Charge	2.48	1,011.79
50.70	CEMENT SERVICE	Ton Mileage Charge	2.60	131.82
1.00	CEMENT SERVICE	Port Collar	2,213.75	2,213.75
3.00	CEMENT SERVICE	Pump Truck Mileage	7.70	23.10
3.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	13.20
1.00	EQUIPMENT OPERATOR	Charles Kinyon		
1.00	EQUIPMENT OPERATOR	Kevin Eddy		
1.00	CEMENT SUPERVISOR	Tim Dickson		

Subtotal	9,472.07
Sales Tax	373.82
Total Invoice Amount	9,845.89
Payment/Credit Applied	
TOTAL	9,845.89

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 1,894.43

ONLY IF PAID ON OR BEFORE
Jan 24, 2014

- 1,894.43
7,951.46

ALLIED OIL & GAS SERVICES, LLC 062602

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
great Bend

DATE <u>12-30-13</u>	SEC. <u>35</u>	TWP. <u>18S</u>	RANGE <u>29W</u>	CALLED OUT <u>10 AM</u>	ON LOCATION <u>3 PM</u>	JOB START <u>3:30</u>	JOB FINISH <u>5 PM</u>
LEASE <u>schuatzhoff</u>		WELL # <u>2</u>		LOCATION <u>Near city 2 west</u>		COUNTY <u>Nen</u>	STATE <u>KO</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)				<u>south data</u>			

CONTRACTOR steves well service

TYPE OF JOB port collar @ 1523'

HOLE SIZE 7 7/8 T.D.

CASING SIZE 5 1/2 DEPTH

TUBING SIZE 2 3/4 4.6# DEPTH 1523

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. ~~XXXX~~

PERFS.

DISPLACEMENT H2O 5BBI

OWNER same

CEMENT AMOUNT ORDERED 370 lbs 60190

6 1/2 gel 7/8 # floreal 1 lb

COMMON	<u>222</u>	@ <u>17.90</u>	<u>3,973.80</u>
POZMIX	<u>148</u>	@ <u>9.35</u>	<u>1,383.90</u>
GEL	<u>19</u>	@ <u>23.40</u>	<u>444.60</u>
CHLORIDE		@	
ASC		@	
<u>floreal</u>	<u>93</u>	@ <u>2.97</u>	<u>276.21</u>
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>407.98</u>	@ <u>2.48</u>	<u>1,011.79</u>
MILEAGE	<u>16.90 x 3x</u>	<u>2.60</u>	<u>131.82</u>
			TOTAL <u>7,222.12</u>

EQUIPMENT

PUMP TRUCK CEMENTER Charles Kingon

366 HELPER Kevin eddy

BULK TRUCK

610-170 DRIVER Thomas Tijerina

BULK TRUCK

DRIVER Tim dickson

REMARKS:

port collar @ 1523' load hole
pressure tubing to 1000# & held
release open port collar 5BBI H2O
Mixed 370 lbs 60190 6 1/2 gel 7/8 # flo
1 lb cement circulated displace
5BBI H2O closed port collar &
prepared to 1000# & held release
pressure Run 5 joints of tubing
Reversed tubing clean

CHARGE TO: Robert F Hembree oil

STREET _____

CITY _____ STATE _____ ZIP _____

Thank you!

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

PRINTED NAME X Fred J Hembree

SIGNATURE X Fred J Hembree

SERVICE

DEPTH OF JOB	<u>1523</u>		
PUMP TRUCK CHARGE		<u>2213.75</u>	
EXTRA FOOTAGE	@		
MILEAGE	<u>Hum 3</u>	@ <u>7.70</u>	<u>23.10</u>
MANIFOLD	@		
	<u>Hum 3</u>	@ <u>4.40</u>	<u>13.20</u>
	@		

TOTAL 2,250.05

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES 9,472.17

DISCOUNT 1,894.42 IF PAID IN 30 DAYS

7,577.75



Office (620) 588-4250 212 Main St. • P.O. Box 215 • Clarifin, KS 67525 (620) 587-3444 Home

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Robert F. Hembree ELEVATIONS

LEASE Schwartzkopf #2 KB 2293

FIELD _____ DF _____

LOCATION SW-NE-NW-NW (380' FUL 280' FUL) GL 2286
 SEC 35 TWP 18 S RGE 24 W Measurements Are All From -KB-

COUNTY Neos STATE Kansas

CONTRACTOR Pickrell Drilling Co. (rig #10) SURFACE CASING 8 5/8" @ 211'
 SPUD 12/12/13 COMP 12/19/2013 PRODUCTION 5 1/2" @ 4296'

RTD 4306 LTD 4306 ELECTRICAL SURVEYS
 MUD UP 3600' TYPE MUD chemical displaced By Pioneer Energy Services, DILL/CUL/COL, Micro

SAMPLES SAVED FROM 3600 TO RTD
 DRILLING TIME KEPT FROM 3600 TO _____
 SAMPLES EXAMINED FROM 3600 TO _____
 GEOLOGICAL SUPERVISION FROM 3900 TO _____

GEOLOGIST ON WELL Jim Musgrove

FORMATION TOPS LOG SAMPLES

Anhydrite 1550 +743 Miss. Dolomite 4295-2002

Base Anhydrite 1585 +708

Heebner 3669 -1376

Toronto 3687 -1394

Uansing 3710 -1417

Base Kansas City 4002 -1709

Marmaton 4039 -1746

Fawnie 4125 -1832

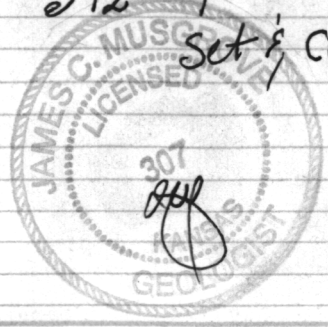
F. Scoot 4201 -1908

Cherokee Shale 4227 -1934

Mississippian 4290 -1997

REMARKS

5 1/2" Production Casing was set & cemented on the Schwartzkopf #2.



Respectfully Submitted,
 James C. Musgrove
 Petroleum Geologist

LEGEND

Anhydrite	Salt	Sandstone	Shale	Carb sh	Limestone	Ool. Lime	Chert	Dolomite

LITHOLOGY

DEPTH

DRILLING TIME
(Logarithmic Scale)

5 1 2 3 4 5 10 15 20 30

SAMPLE DESCRIPTIONS

REMARKS

20

40

60

80

3700

20

40

60

80

ls, tan, (x4) foss,
gran; fr^o n/s

32

aa.

gr. gry A

~ blk carb. sh.

Heebner
3668
(-1375)

~ gry/guish green sh

Toronto

ls. gry; gran; chiky
||| + wh. chik

Wansing
3713
(-1420)

ls, wh/gry; f med x4
dense + wh A

ls, gry-wh; chiky - Poor^o

32

ls, aa, few foss
dense

ls. tan, foss; scott^d
n/s

~ blk carb. sh.

3800

20

40

60

80

3900

20

40

60

80

LS, wh/yellow, fxt, foss
sparry calcite cement
poor o; m/s

LS, tan, foss; poorly
dev. fossil / o; m/s

LS, tan, brown, cherty / Ghky
/ m/s (dense)

32

LS, all poor vis o;
(dense)

blk carb. sh

LS, tan, fxt, ool, sparry
calcite cement; questionable
discoloration
no stn / n.f. -
no odor.

LS, grey, wh; fxt, few foss
cherty, dr grey / o; m/s

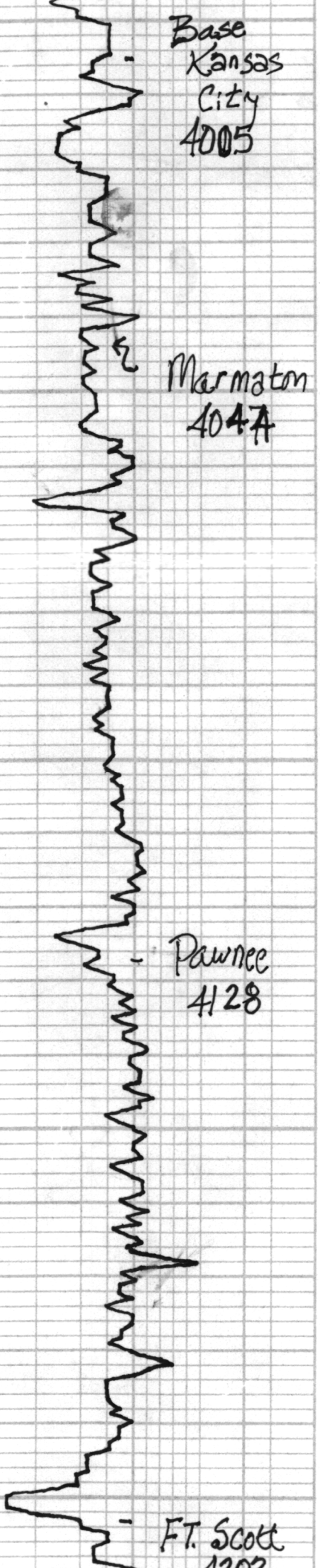
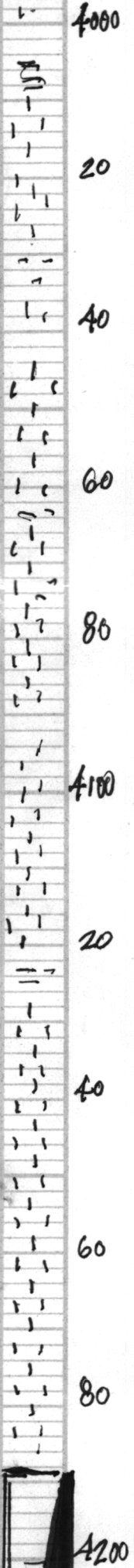
grey / blk green st.

LS, wh / grey; fxt, cherty,
few foss.

blk sh

32

LS, grey / wh, cherty;



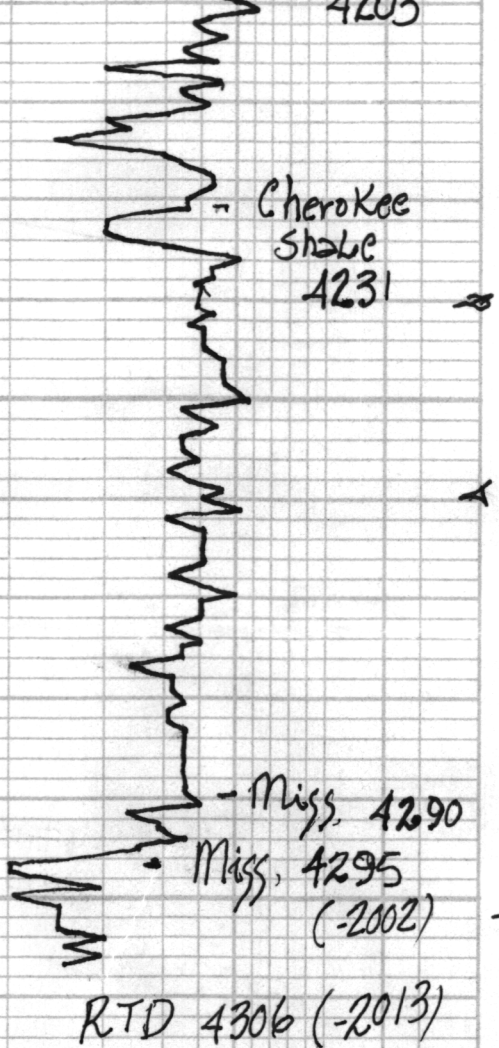
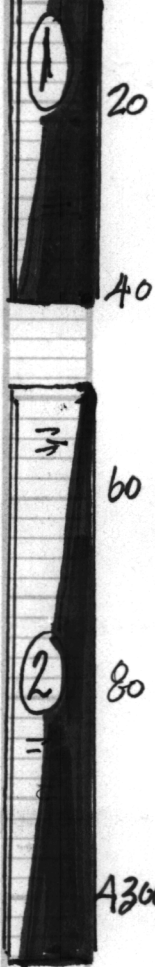
Base
Kansas
City
4005

Marmaton
4047

Pawnee
4128

FT. Scott
1200

poor of
gry/green sh
ls, gry/wh, f x h
+ gry opaque Δ
2293-
KB-
??
ls; gry; tan (f x h) few
foss ch illy
+ tan/gry Δ
??? odor; no sth/no od -
??
ls; gry/wh/tan; ch illy
(dense)
??
ls; wh/gry; conky - dense
??
ls; gry/wh; f x h; shaly
poor of
??
slug black carb. sh.
DST #1 4190
-4240
3-15-15 60



ls; tan, foss; soft. vuggy
 brown/golden brown str, sfo,
 ft. odor.

ls; wh, ool; chiky; Jr
 brown str, sfo

blk carb sh

ls; tan/chiky,
 Jr. foss

blk carb sh

Jr gy/yell dr A' ls; wa
 ??? str

v.c. sh, blk sh

ls; wh/gm, f.xh, dolmitic
 dense

dol; tan, f-med xly sup;
 good vuggy type, good
 str/sst, sfo, odor

Blow, wear to string
 (BOB 9 mins)

2nd opening; wear-string
 (BOB 14 mins)

Recovery; 365' gas in pipe

65' gassy muddy
 oil
 (10% gas; 60% oil;
 15% water, 15% mud)

60' slightly oil cut
 muddy water
 (10% gas; 57% oil;
 50% water, 35% mud)

pressures; Isip 176 ps
 Isip 1738
 Ffp 34-108
 Ffp 113-196
 HSH
 2049
 -2031 ps

20

(-2013)

DST # 2
 4249-4306

30-30-45-60

Blow; string (BOB 6")

2nd opening; string
 (BOB 11")

Recovery; 340' gas in pipe

380' clean gassy oil
 80' muddy gassy oil
 (20% gas; 55% oil;
 25% mud)

186' muddy gassy
 oil
 (20% gas; 65% oil;
 15% mud)

pressures; Isip 1107 ps
 Isip 1075
 Ffp 39-131
 Ffp 143
 HSH -237
 2049
 -1997 ps