



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1197008
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: _____

1197008

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
----------------	-------	---------	------------	---

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	Trek AEC, LLC
Well Name	Stice Hill Unit 1-28
Doc ID	1197008

Tops

Name	Top	Datum
Anhydrite	1830	+409
Base Anhydrite	1861	+378
Heebner	3425	-1186
Lansing	3464	-1225
Muncie Creek	3577	-1338
Stark Shale	3636	-1397
Base/KC	3660	-1421
Arbuckle	3700	-1461

P.001/005



CHARGE TO: **Trek AEC LLC**
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET 25298

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Hays Ks	1-28	Stice Hill unit	Rooks	Ks		2-28-14	
2. Ness City Ks	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.				LT	Location		
4.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
REFERRAL LOCATION	Oil	Development	5 1/2 Two Stage long string		Sec 28, Twp 6S, R20 W		
	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT	
		LOC	ACCT	DF			UM		UM		
575		1			MILEAGE #112	70	mi	6	00	420	00
579		1			Pump Charge Two Stage	1	ea	2000	00	2000	00
221		1			Liquid KCL	4	gal	25	00	100	00
281		1			Mud Flush	500	gal	1	25	625	00
290		1			D-Air	5	gal	42	00	210	00
402		1			Centralizers	7	ea	5 1/2	70	490	00
403		1			Cement Basket	1	ea	300	00	300	00
407		1			Insect float Shoe w/ Auto fill	1	ea	375	00	375	00
408		1			OV Tool + Plug Set	1	ea	3550	00	3550	00
417		1			OV latch Down Plug + Bottle	1	ea	200	00	200	00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: **2-28-14** TIME SIGNED: **1930**
 A.M.
 P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	P1	8270	00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL	6137	00
WE UNDERSTOOD AND MET YOUR NEEDS?				P2	9837	00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				subtotal	14,407	00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Rooks TAX 6.15%	608	70
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	15,015	70
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND						

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: **John Powell** APPROVAL:

Thank You!

04/01/2014/TUE 10:51AM

NO. 4417

RECEIVE:

04/01/2014 11:54

P.002/005

(FAX)

04/01/2014 11:54



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 25298

CUSTOMER: Trek AEC LLC WELL: Stice Hill Unit 1-18 DATE: 2-28-14 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY	UNIT	RATE	UNIT PRICE	AMOUNT	
		ACC	DEBIT	CREDIT								
325		2				Standard 16mint EA2	175	SKS		14.50	2537.50	50
330		2				Swift Multi-Density	200	SKS		18.50	3700.00	00
276		2				Flocele	100	lbs		2.50	250.00	00
283		2				Salt	900	lbs		20.00	1800.00	00
284		2				Calseal	8	SKS		35.00	280.00	00
292		2				Halad 322	100	lbs		8.00	800.00	00
581		2				SERVICE CHARGE				2.00	750.00	00
583		2				SERVICE CHARGE TOTAL WEIGHT 38270 LOADED MILES 70 TON MILES 1339.5				1.00	1339.50	50

COMBINATION TOTAL 9837.50

6137.00

RECEIVE: NO. 4417 04/01/2014/TUE 10:51AM

JOB LOG

SWIFT Services, Inc.

DATE 2-28-14 PAGE NO.

CUSTOMER Tricks AEC LLC WELL NO. 1-28 LEASE Stice Hill Unit JOB TYPE 5 1/2 Track stage TICKET NO. 25298

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/HR)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1930							On location
								TD 3780 SJ 37
								FP 3775 Insect 3738
								DV TOP 45 1861 5 1/2 x 15.5"
								Centralizers 2, 4, 6, 7, 9, 11, 46
								Basket 45
	2145							Start Pipe
	2345							Drop Ball Break Circulation
		4	7/4		✓		300	Plug AH 30 sks, MH 15 sks
		4	12		-		300	Start Mud Flush
		4	20		-		300	Start KLL flush
		4	32		-		200	Start cement 130 sks G-A-2
								Aux motor died Try to get started wouldn't
								Wash out Pump lines
	0215				✓			Start Displacement w/ Mud Pump
	0230		88.9		✓		500/1500	Land Plug Try to get motor started
	0330							Drop Opening Plug Try to open Doesn't open
	0430							Get another Pump truck
	0730							Try to open DV Doesn't open
								Opening Plug Not falling through mud
								Set Slips
								Run Tubing in to push Plug Down when Big moves off
	0930							Job Complete
								Thank You
								Josh, Brian, Doug



CHARGE TO: **TREK A.C.C.**
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET 25344

PAGE 1 OF 1

SERVICE LOCATIONS:
 1. **Hays, Ks**
 2. **Ness City, Ks**
 3.
 4.

WELL/PROJECT NO. **# 1-28** LEASE **Stice Hill Unit** COUNTY/PARISH **Rooks** STATE **Ks** CITY **Hays** DATE **3-5-14** OWNER **scimc**

TICKET TYPE SERVICE SALES CONTRACTOR **P.P.S.** RIG NAME/NO. SHIPPED VIA **7** DELIVERED TO **Location** ORDER NO.

WELL TYPE **oil** WELL CATEGORY **Development** JOB PURPOSE **2nd Stage** WELL PERMIT NO. WELL LOCATION

REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOG	ACCT	DF			U/M			
575		1			MILEAGE # 111	40	mi	6	00	240 00
576D		1			Pump Charge (2nd Stage)	159		1866	00	1500 00
221		1			KCL	2	gal	25	00	50 00
290		1			D-Air	2	gal	42	00	84 00
330		2			SMD Cement	200	skts	18	50	3700 00
276		2			Floccle	50	#	2	50	125 00
581		2			Cement Service Charge	200	skts	2	00	400 00
583		2			Drayage	391	TA	1	00	391 00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED **3-5-14** TIME SIGNED **1615** A.M. P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL	6490 00
TOTAL	6733 48

Rooks TAX 6.15% 243 48

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR **[Signature]** APPROVAL

Thank You!

P.004/005
 (FAX)
 04/01/2014 11:54

04/01/2014/TUE 10:51AM
 NO. 4417
 RECEIVE:

JOB LOG

SWIFT Services, Inc.

DATE 3-5-14 PAGE NO. 1

CUSTOMER TREK Acc. WELL NO. #1-28 LEASE Stice Hill JOB TYPE 2nd stage TICKET NO. 25344

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1145							on loc set up Trks
	1200							2 7/8" x 5 1/2" Tbg @ 581' Turn Hole Over Run to 1400' Turn Hole Over Run to D.V Tool Stack out lay down ljt Press up well to open D.V.
	1415					1700		D.V. open TOO H w/ Tbg Hook up to 5 1/2" start KCL flush start 200 sks SMD
	1515	4	0					End Cement + circ cont 105 bbl Drop Closing Plug Wash P+L
	1540	4	20/10					
	1550	5	0			200		Start Displacement
		4	15			250		catch Cement
	1600		45.5			450 1700		Land Plug Release Pressure D.V. Closed
								circ 90 sks to pit
								Thank you
								Nick, David E. & Sarrad



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Trek AEU, Inc
 155 N. Market STE 710
 Wichita KS, 67202
 ATTN: Aaron Young

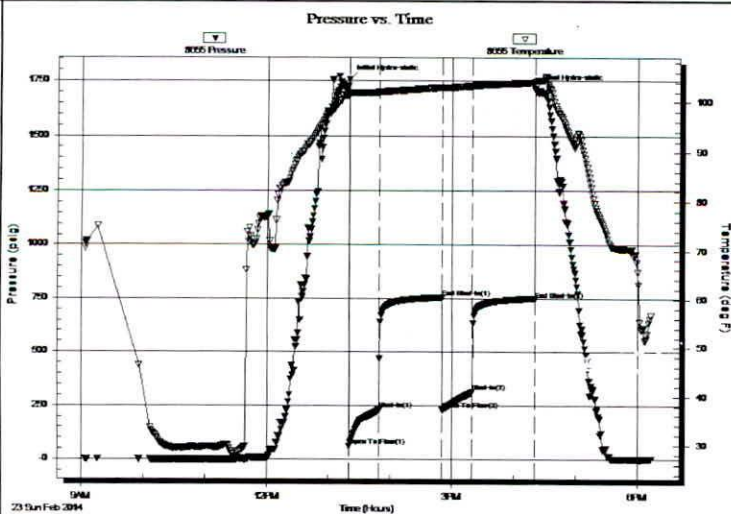
28-6s-20w Rooks KS
Stice Hill Unit 1-28
 Job Ticket: 56078 **DST#: 1**
 Test Start: 2014.02.23 @ 09:04:00

GENERAL INFORMATION:

Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:19:45
 Time Test Ended: 18:12:45
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Cody Bloedorn
 Unit No: 73
 Interval: **3353.00 ft (KB) To 3426.00 ft (KB) (TVD)**
 Total Depth: 3426.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 2239.00 ft (KB)
 2234.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8655 Outside
 Press@RunDepth: 311.87 psig @ 3421.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.23 End Date: 2014.02.23 Last Calib.: 2014.02.23
 Start Time: 09:04:05 End Time: 18:12:45 Time On Btm: 2014.02.23 @ 13:19:30
 Time Off Btm: 2014.02.23 @ 16:20:15

TEST COMMENT: 30 - IF- B.O.B. in 7 minutes
 60 - ISI- No return
 30 - FF- B.O.B. in 15 minutes
 60 - FSI-Surface blow for 5 minutes and then died.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1754.65	101.71	Initial Hydro-static
1	61.53	101.40	Open To Flow (1)
29	228.54	102.01	Shut-In(1)
90	754.35	102.95	End Shut-In(1)
91	231.66	102.85	Open To Flow (2)
120	311.87	103.27	Shut-In(2)
181	745.82	104.02	End Shut-In(2)
181	12.17	104.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
403.00	MV, 50%M, 50%W	3.47
124.00	WM, 20%W, 80%M	1.74

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Trek AEU, Inc

28-6s-20w Rooks KS

155 N. Market STE 710
Wichita KS, 67202

Stice Hill Unit 1-28

Job Ticket: 56078

DST#: 1

ATTN: Aaron Young

Test Start: 2014.02.23 @ 09:04:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	30000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

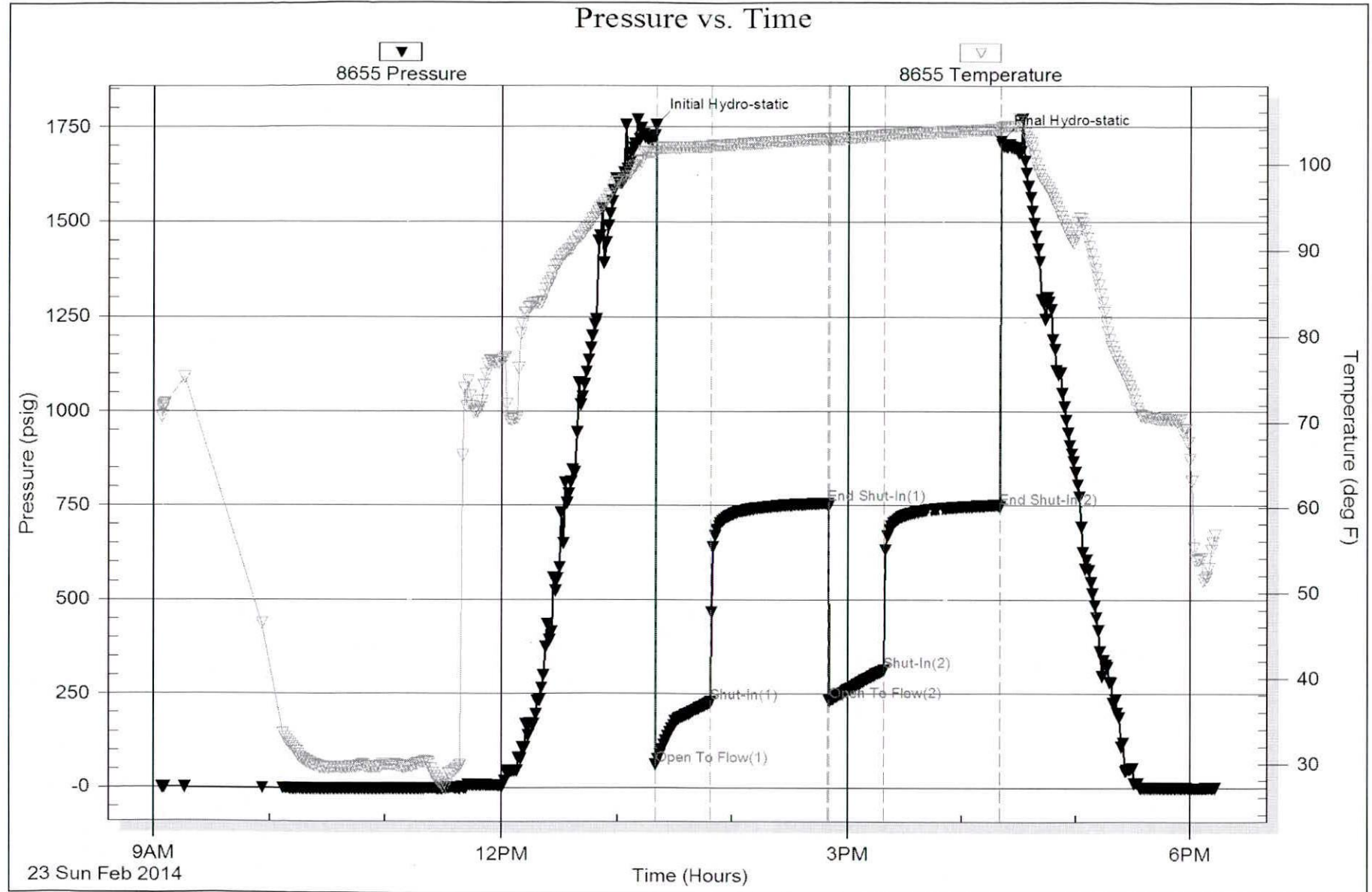
Length ft	Description	Volume bbl
403.00	MW, 50%M, 50%W	3.467
124.00	WM, 20%W, 80%M	1.739

Total Length: 527.00 ft Total Volume: 5.206 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: .45 @ 40 Degrees = 30,000 Chlorides





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Trek AEC, Inc
155 N. Market STE 710
Wichita KS, 67202
ATTN: Aaron Young

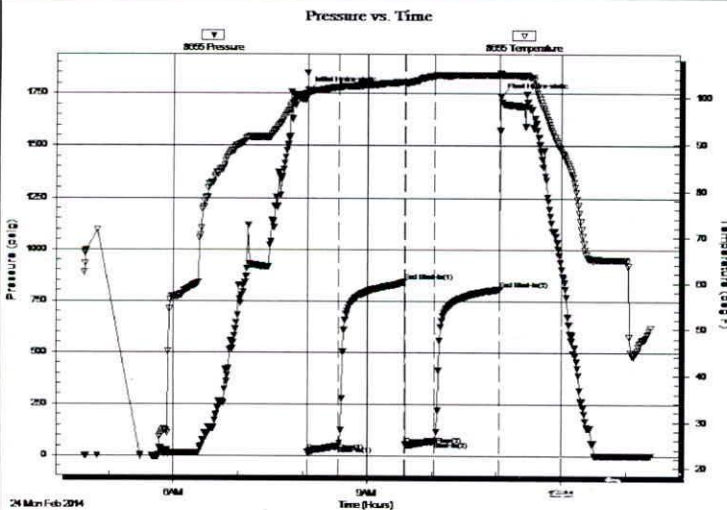
28-6s-20w Rooks KS
Stice Hill Unit 1-28
Job Ticket: 56079 **DST#: 2**
Test Start: 2014.02.24 @ 04:37:00

GENERAL INFORMATION:

Formation: **Tor - LKC "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:04:15
Time Test Ended: 13:22:45
Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 73
Interval: **3450.00 ft (KB) To 3474.00 ft (KB) (TVD)**
Reference Elevations: 2239.00 ft (KB)
Total Depth: 3474.00 ft (KB) (TVD) 2234.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8655 Outside
Press@RunDepth: 71.14 psig @ 3454.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.02.24 End Date: 2014.02.24 Last Calib.: 2014.02.24
Start Time: 04:37:05 End Time: 13:22:45 Time On Btm: 2014.02.24 @ 08:04:00
Time Off Btm: 2014.02.24 @ 11:03:15

TEST COMMENT: 30 - IF- 6 1/2" blow
60 - IS- No return
30 - FF- 4" blow
60 - FS- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.79	100.92	Initial Hydro-static
1	20.49	100.44	Open To Flow (1)
29	46.59	102.20	Shut-In(1)
90	843.45	103.28	End Shut-In(1)
91	52.38	103.11	Open To Flow (2)
118	71.14	104.63	Shut-In(2)
179	806.08	104.84	End Shut-In(2)
180	1734.32	104.97	Final Hydro-static

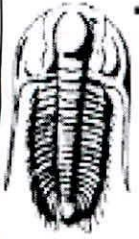
Recovery

Length (ft)	Description	Volume (bbl)
124.00	HOCM, 40%M, 60%O	0.61
31.00	GO, 10%G, 90%O	0.15
0.00	286' of G.I.P.	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Trek AEC, Inc
155 N. Market STE 710
Wichita KS, 67202
ATTN: Aaron Young

28-6s-20w Rooks KS
Stice Hill Unit 1-28
Job Ticket: 56079 **DST#: 2**
Test Start: 2014.02.24 @ 04:37:00

Mud and Cushion Information

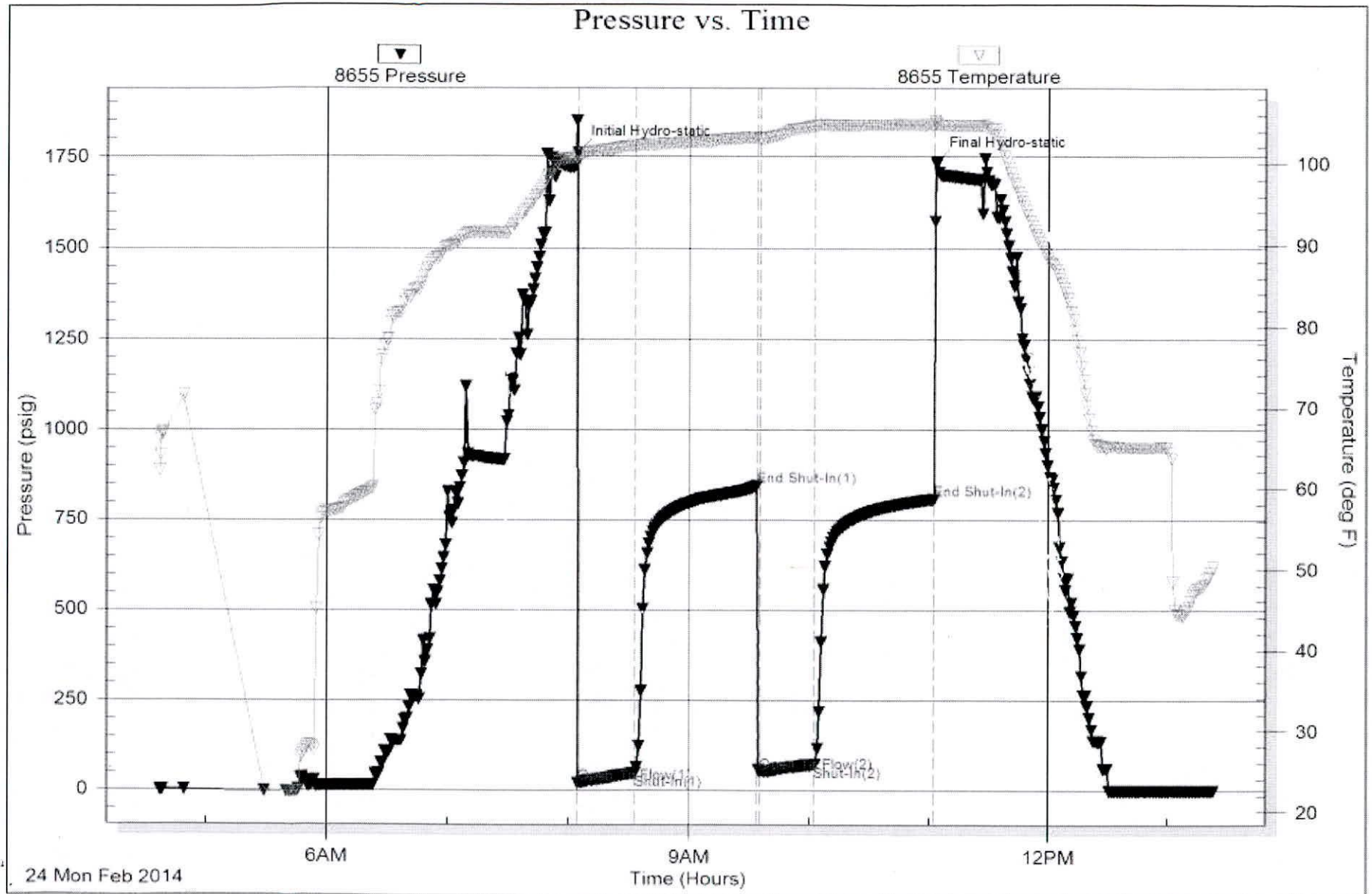
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	HOCM, 40%M, 60%O	0.610
31.00	GO, 10%G, 90%O	0.152
0.00	286' of G.I.P.	0.000

Total Length: 155.00 ft Total Volume: 0.762 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Trek AEC, Inc
 155 N. Market STE 710
 Wichita KS, 67202
 ATTN: Aaron Young

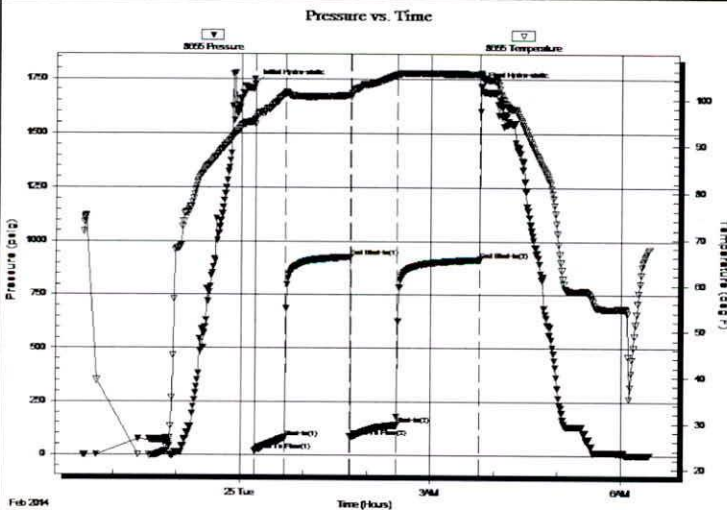
28-6s-20w Rooks KS
Stice Hill Unit 1-28
 Job Ticket: 56080 **DST#: 3**
 Test Start: 2014.02.24 @ 21:32:00

GENERAL INFORMATION:

Formation: **Lansing "C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:13:15
 Time Test Ended: 06:27:30
 Interval: **3487.00 ft (KB) To 3508.00 ft (KB) (TVD)**
 Total Depth: 3508.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 73
 Reference Elevations: 2239.00 ft (KB)
 2234.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8655 Outside
 Press@RunDepth: 140.67 psig @ 3488.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.24 End Date: 2014.02.25 Last Calib.: 2014.02.25
 Start Time: 21:32:05 End Time: 06:27:30 Time On Btm: 2014.02.25 @ 00:13:00
 Time Off Btm: 2014.02.25 @ 03:47:15

TEST COMMENT: 30 - IF- 6" blow
 60 - IS- Surface return, died in 35 minutes
 45 - FF- 8" blow
 90 - FS- Surface return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1725.94	95.56	Initial Hydro-static
1	17.43	94.67	Open To Flow (1)
29	80.02	101.10	Shut-In(1)
91	927.10	100.77	End Shut-In(1)
91	84.37	100.44	Open To Flow (2)
135	140.67	105.19	Shut-In(2)
214	915.32	105.36	End Shut-In(2)
215	1715.80	105.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	WM, 40%W, 60%M	0.00
186.00	MV - with oil spots, 30%M, 70%W	0.99
5.00	Free Oil, 100%O	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Trek AEC, Inc
155 N. Market STE 710
Wichita KS, 67202
ATTN: Aaron Young

28-6s-20w Rooks KS
Stice Hill Unit 1-28
Job Ticket: 56080 **DST#: 3**
Test Start: 2014.02.24 @ 21:32:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	36000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

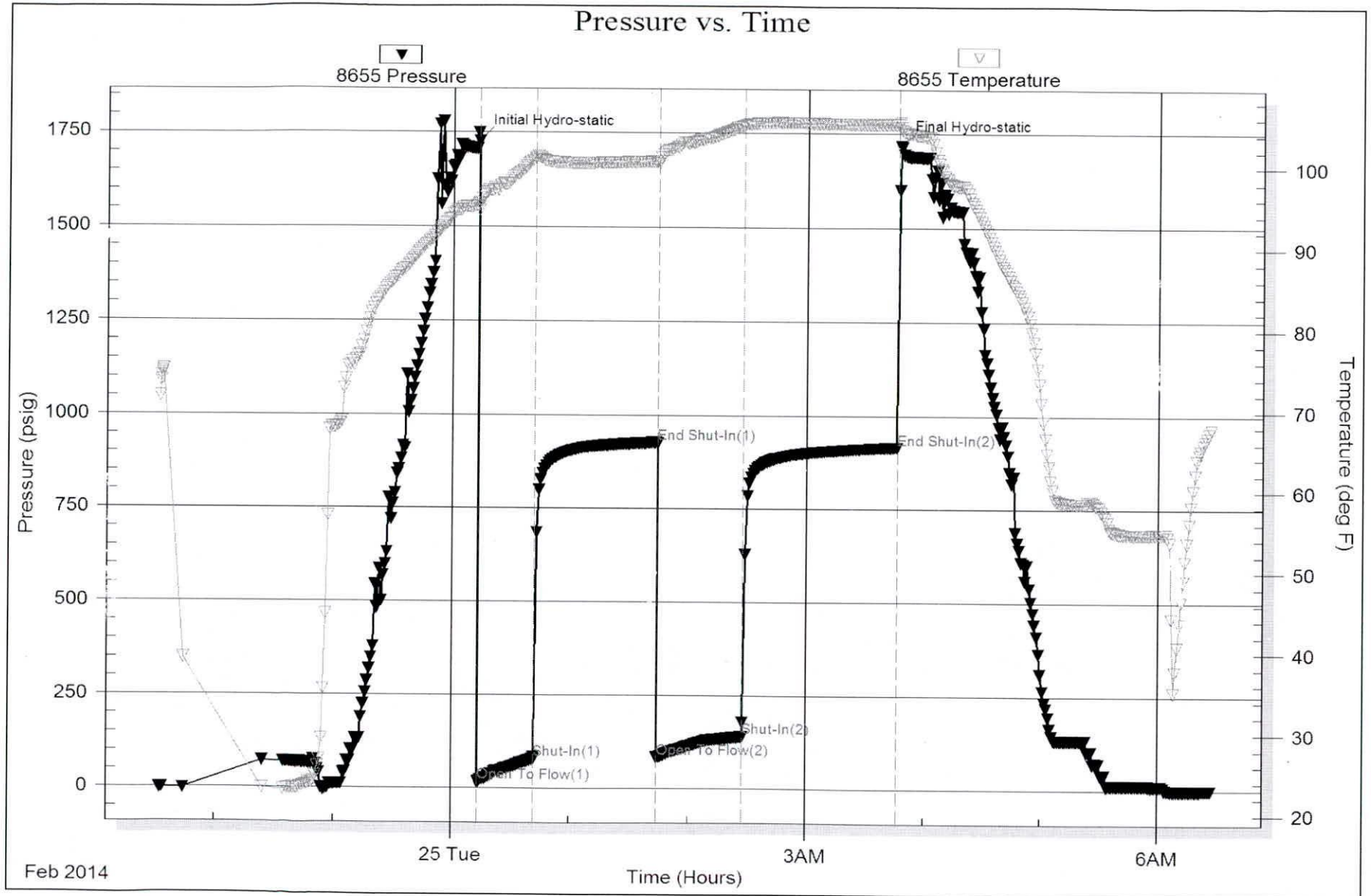
Length ft	Description	Volume bbl
62.00	WM, 40%W, 60%M	0.305
186.00	MV - w ith oil spots, 30%M, 70%W	0.988
5.00	Free Oil, 100%O	0.070

Total Length: 253.00 ft Total Volume: 1.363 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Chlorides: .34 @ 41 Degrees = 36000





TRILOBITE TESTING, INC.

WELL STEM TEST REPORT

Trek AEC, Inc
 155 N. Market STE 710
 Wichita KS, 67202
 ATTN: Aaron Young

28-6s-20w Rooks KS
Stice Hill Unit 1-28
 Job Ticket: 56081 DST#: 4
 Test Start: 2014.02.25 @ 22:44:00

GENERAL INFORMATION:

Formation: **LKC "H-I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:26:45
 Time Test Ended: 08:51:15
Interval: 3592.00 ft (KB) To 3618.00 ft (KB) (TVD)
 Total Depth: 3618.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 73
 Reference Elevations: 2239.00 ft (KB)
 2234.00 ft (CF)
 KB to GR/CF: 5.00 ft

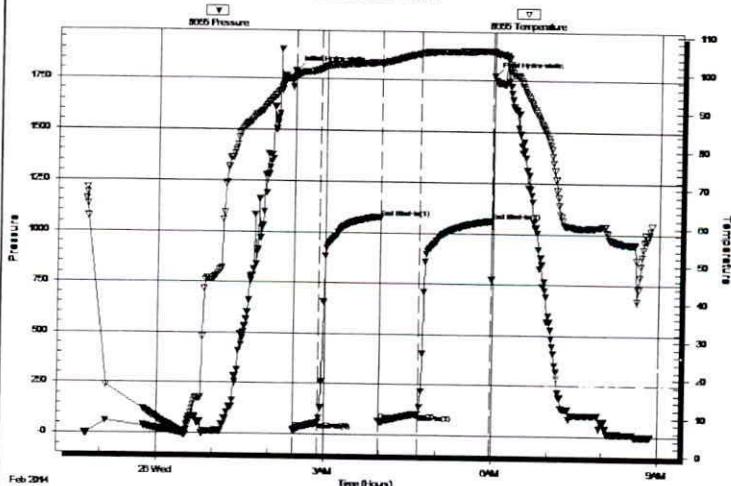
Serial #: 8655

Outside

Press@RunDepth: 105.88 psig @ 3596.00 ft (KB)
 Start Date: 2014.02.25 End Date: 2014.02.26
 Start Time: 22:44:05 End Time: 08:51:15
 Capacity: 8000.00 psig
 Last Calib.: 2014.02.26
 Time On Btm: 2014.02.26 @ 02:26:30
 Time Off Btm: 2014.02.26 @ 06:00:00

TEST COMMENT: 30 - IF- 7" blow
 60 - IS- No return
 45 - FF- B.O.B. in 28 minutes
 75 - FS- 1/4" return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.48	98.93	Initial Hydro-static
1	19.44	98.56	Open To Flow (1)
28	59.43	100.90	Shut-In(1)
93	1073.35	102.86	End Shut-In(1)
93	69.59	102.41	Open To Flow (2)
135	105.88	105.22	Shut-In(2)
212	1063.90	106.04	End Shut-In(2)
214	1770.90	105.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OCM, 25%O, 75%M	0.30
186.00	GO, 30%G, 70%O	0.99
0.00	186' of G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

WELL STEM TEST REPORT

FLUID SUMMARY

Trek AEC, Inc
155 N. Market STE 710
Wichita KS, 67202
ATTN: Aaron Young

28-6s-20w Rooks KS
Stice Hill Unit 1-28
Job Ticket: 56081 DST#: 4
Test Start: 2014.02.25 @ 22:44:00

Mud and Cushion Information

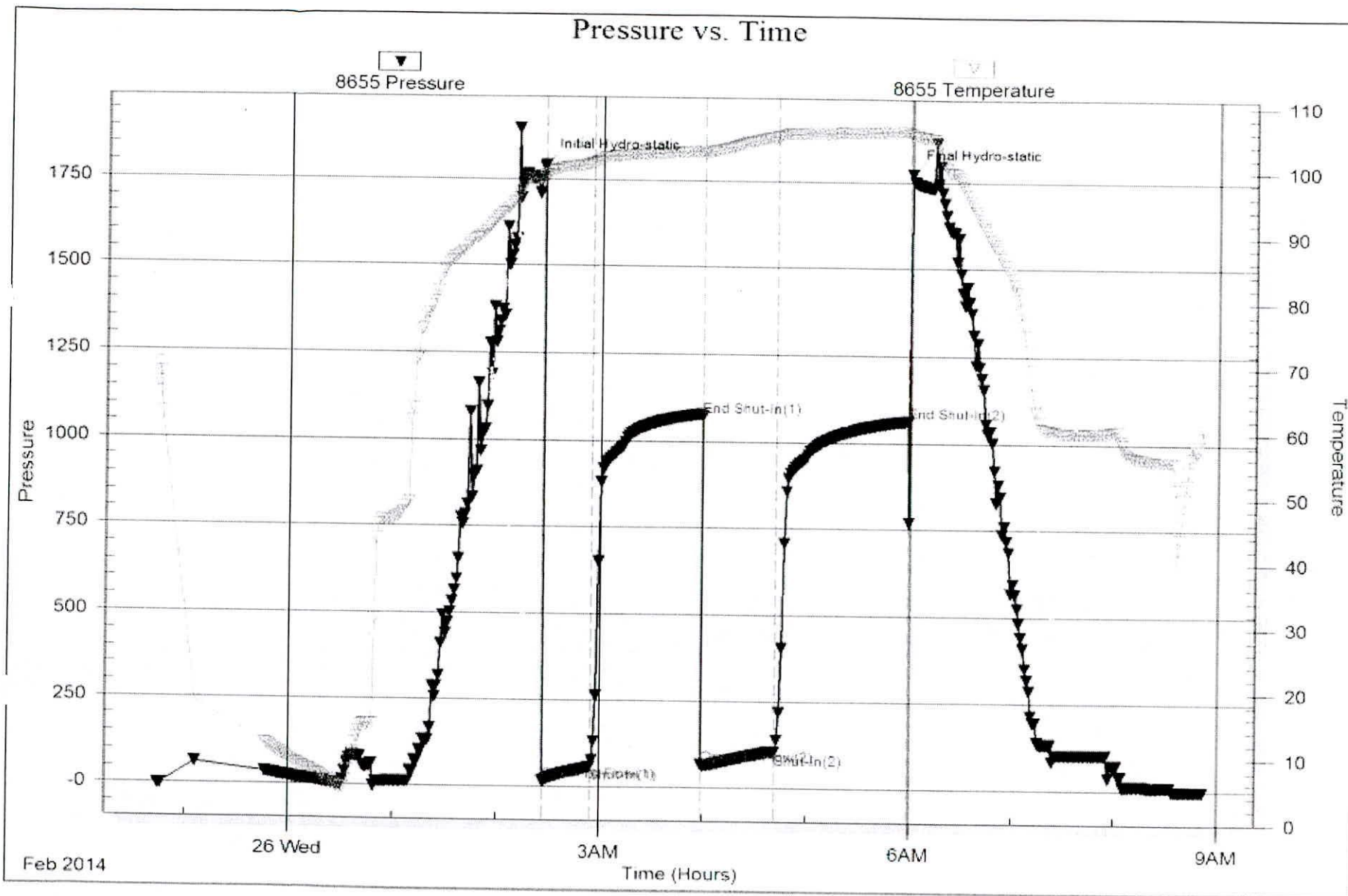
Mud Type: Gel Chem	Cushion Type:	Oil API:	32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

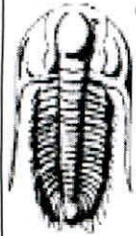
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	OCM, 25%O, 75%M	0.305
186.00	GO, 30%G, 70%O	0.988
0.00	186' of G.I.P.	0.000

Total Length: 248.00 ft Total Volume: 1.293 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 30 @ 40 Degrees = 32 Gravity





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Trek AEC, Inc
155 N. Market STE 710
Wichita KS, 67202
ATTN: Aaron Young

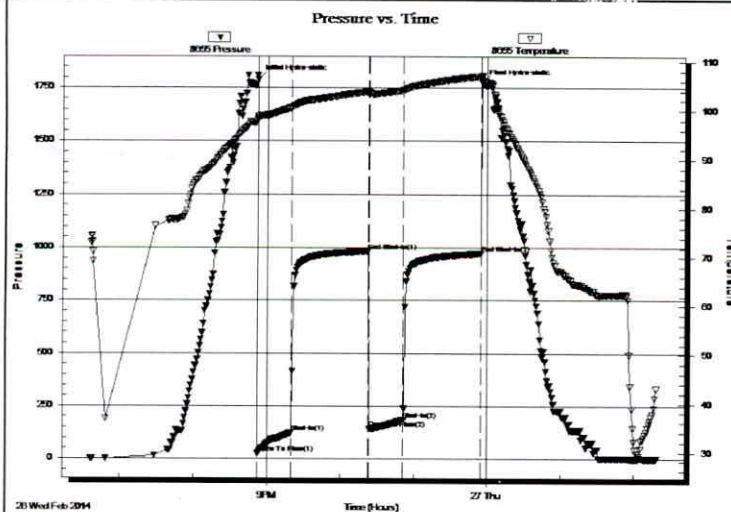
28-6s-20w Rooks KS
Stice Hill Unit 1-28
Job Ticket: 56082 **DST#: 5**
Test Start: 2014.02.26 @ 18:36:00

GENERAL INFORMATION:

Formation: **LKC "J-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:52:30
Time Test Ended: 02:17:45
Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 73
Interval: **3624.00 ft (KB) To 3654.00 ft (KB) (TVD)**
Reference Elevations: 2239.00 ft (KB)
Total Depth: 3654.00 ft (KB) (TVD) 2234.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8655 Outside
Press@RunDepth: 184.47 psig @ 3628.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.02.26 End Date: 2014.02.27 Last Calib.: 2014.02.27
Start Time: 18:36:05 End Time: 02:17:44 Time On Btm: 2014.02.26 @ 20:52:15
Time Off Btm: 2014.02.26 @ 23:55:30

TEST COMMENT: 30 - IF- B.O.B. in 5 minutes
60 - IS- B.O.B. in 27 minutes
30 - FF- B.O.B. instantly
60 - FS- 8" return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1786.78	98.85	Initial Hydro-static
1	23.84	98.28	Open To Flow (1)
28	121.97	100.66	Shut-In(1)
91	983.28	103.85	End Shut-In(1)
91	140.93	103.63	Open To Flow (2)
120	184.47	104.21	Shut-In(2)
183	972.08	107.04	End Shut-In(2)
184	1772.20	107.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	GHOCM, 20%G, 30%O, 50%M	0.15
434.00	GO, 30%G, 70%O	4.18
0.00	465' of G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Trek AEC, Inc
155 N. Market STE 710
Wichita KS, 67202
ATTN: Aaron Young

28-6s-20w Rooks KS
Stice Hill Unit 1-28
Job Ticket: 56082 **DST#: 5**
Test Start: 2014.02.26 @ 18:36:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
31.00	GHOCM, 20%G, 30%O, 50%M	0.152
434.00	GO, 30%G, 70%O	4.184
0.00	465' of G.I.P.	0.000

Total Length: 465.00 ft Total Volume: 4,336 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 30 @ 50 Degrees = 31 Gravity



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Trek AEC, Inc
 155 N. Market STE 710
 Wichita KS, 67202
 ATTN: Aaron Young

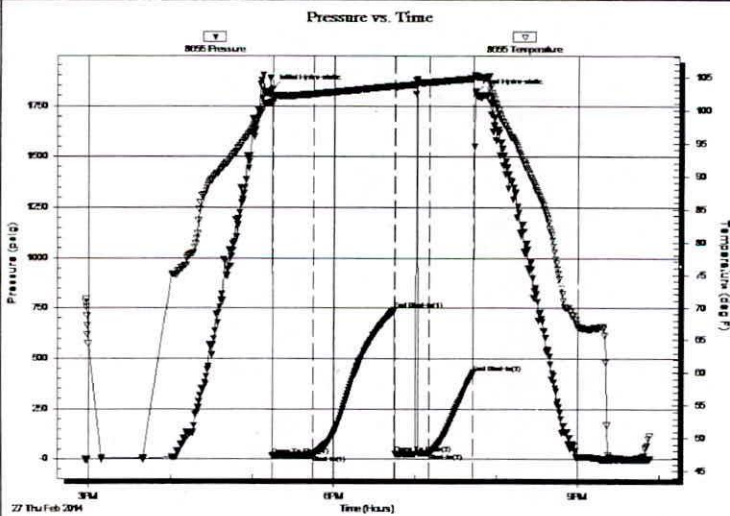
28-6s-20w Rooks KS
Stice Hill Unit 1-28
 Job Ticket: 56083 **DST#: 6**
 Test Start: 2014.02.27 @ 14:58:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:14:45
 Time Test Ended: 21:53:15
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 73
 Interval: **3684.00 ft (KB) To 3708.00 ft (KB) (TVD)**
 Total Depth: 3708.00 ft (KB) (TVD)
 Reference Elevations: 2239.00 ft (KB)
 2234.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8655 Outside
 Press@RunDepth: 31.30 psig @ 3685.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.27 End Date: 2014.02.27 Last Calib.: 2014.02.27
 Start Time: 14:58:05 End Time: 21:53:14 Time On Btm: 2014.02.27 @ 17:14:30
 Time Off Btm: 2014.02.27 @ 19:43:30

TEST COMMENT: 30 - IF- 1 3/4" blow
 60 - ISI- No return
 30 - FF- No blow for 20 minutes, flushed tool, surged and died
 30 - FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1830.59	101.93	Initial Hydro-static
1	17.62	101.05	Open To Flow (1)
30	22.04	102.40	Shut-In(1)
90	739.60	103.64	End Shut-In(1)
91	26.92	103.40	Open To Flow (2)
116	31.30	104.24	Shut-In(2)
148	427.54	104.79	End Shut-In(2)
149	1813.67	105.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM, 20%O, 80%M	0.07

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Trek AEC, Inc.
155 N. Market STE 710
Wichita KS, 67202
ATTN: Aaron Young

28-6s-20w Rooks KS
Stice Hill Unit 1-28
Job Ticket: 56083 **DST#: 6**
Test Start: 2014.02.27 @ 14:58:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.00 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

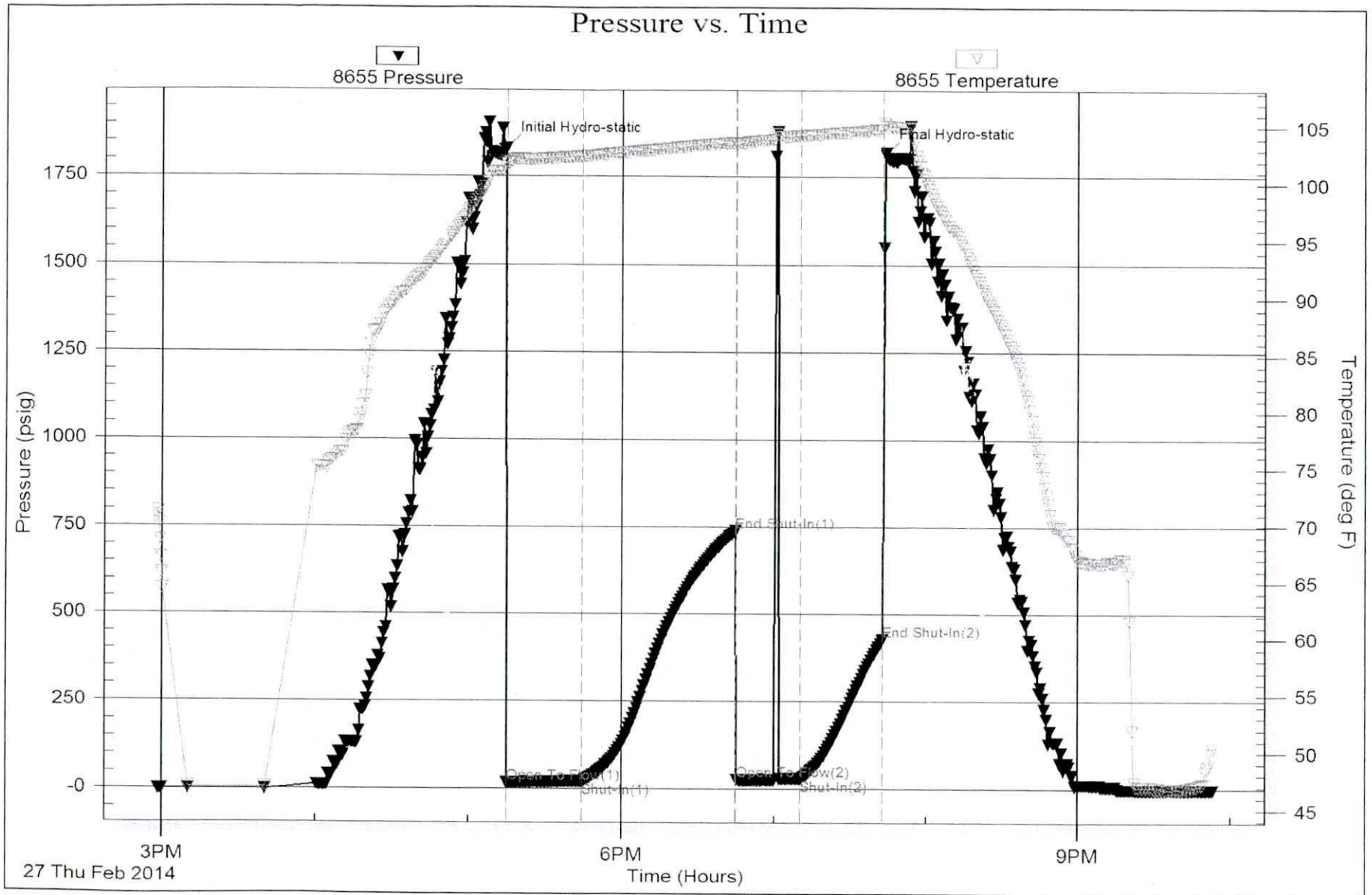
Length ft	Description	Volume bbl
15.00	OCM, 20%O, 80%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: NOT enough oil to check gravity.



Geologic Report
Aaron L. Young

Drilling Time and Sample Log

**Scale 1:240 (5"=100') Imperial
Measured Depth Log**

Well Name: Stice-Hill Unit #1-28
Location: Section 28 - T6S - R20W
License Number: API: 15-163-24165
Spud Date: 2 / 19 / 2014
Surface Coordinates: 150' FSL and 1950 FEL
Approx. SW - SE - SW - SE
Region: Rooks Co., KS
Drilling Completed: 2 / 28 / 2014
Bottom Hole Coordinates:
Ground Elevation (ft): 2234' K.B. Elevation (ft): 2239'
Logged Interval (ft): 3300' To: 3780' Total Depth (ft): 3780'
Formation: Arbuckle
Type of Drilling Fluid: Chemical - Mud-Co

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Trek AEC, LLC
Address: 155 N Market, Suite 710
Wichita, KS 67202

GEOLOGIST

Name: Aaron L. Young
Company:
Address: 155 N. Market, Suite 710
Wichita, Kansas 67202

General Info

CONTRACTOR: Mallard Drilling, Rig #1

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	RR	-----	248	243	12.04
2	7-7/8	Smith F27	14-14-14	4780	4532	60

SURVEYS: 248'-.75, 3780'-1

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 35,000 lbs. on bit and approx 60 RPM.
Running 8 stands of collars; 537.04'
Pumping approx 800-900 psi at standpipe.

Daily Status

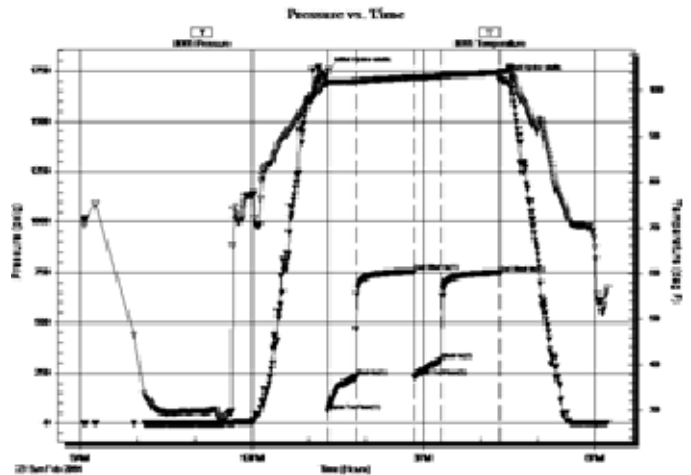
2/19/14 - Spud
 2/20/14 - @ 248' WOC
 2/21/14 - Drilling @ 2107'
 2/22/14 - Drilling @ 2880'
 2/23/14 - DST #1 3353'-3426'
 2/24/14 - DST #2 3450'-4474'
 2/25/14 - DST #3 3487'-3508'
 2/26/14 - DST #4 3592'-3618'
 2/27/14 - DST #5 3524'-3654'
 2/28/14 - DST #6 3684'-3708', Reached TD @ 3780', Logged, Set casing

DST #1 Topeka 3,353'-3,426'
30"-60"-30"-60"

IF: BOB in 7min
ISI: No blow
FF: BOB in 15min
FSI: Surface Blow for 5min and then died

Rec': 403' ft MW (50% M, 50% W), 124' WM (20% W, 80% M)

SIP: 754-746; **FP:** 62-229, 232-312; **HP:** 1755-1712

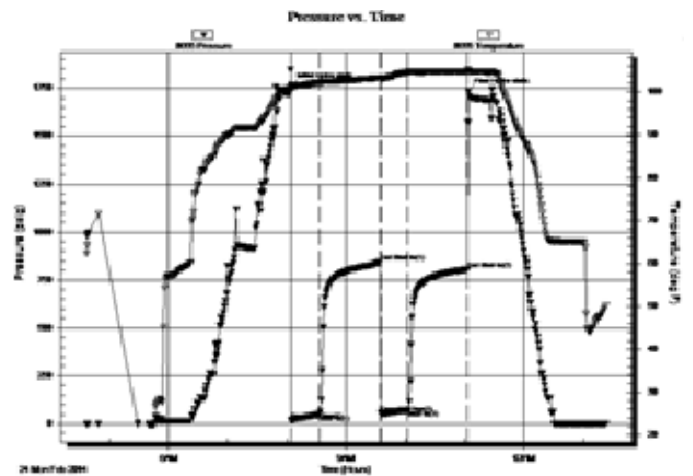


DST #2 Toronto / LKC "A" 3,450'-3,474'
30"-60"-30"-60"

IF: 6.5" blow
ISI: No return
FF: 4" blow
FSI: No return

Rec': 124' ft HOCM (40% M, 60% O), 31' GO (10% G, 90% O), 286' GIP

SIP: 843-846; **FP:** 20-47, 52-71; **HP:** 1762-1734

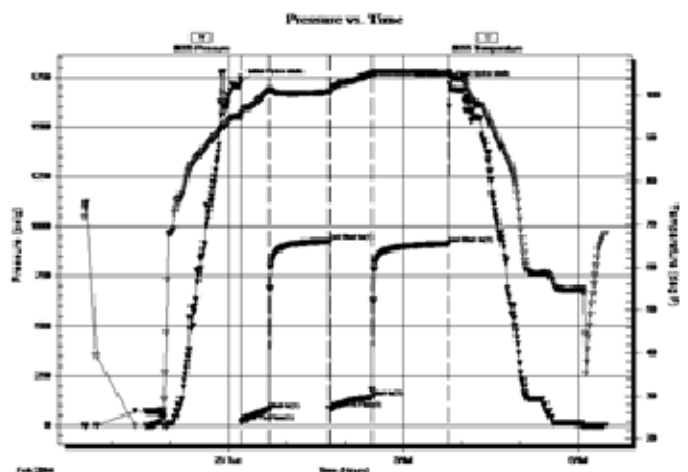


DST #3 LKC "C" 3,487'-3,508'
30"-60"-45"-75"

IF: 6" blow
ISI: Surface return, died in 35min
FF: 8" blow
FSI: Surface return

Rec': 62' WM (40% W, 60% M), 186' MW w/ oil spots (30% M, 70% W), 5' Free Oil (100% O)

SIP: 927-915; **FP:** 17-80, 84-141; **HP:** 1726-1716

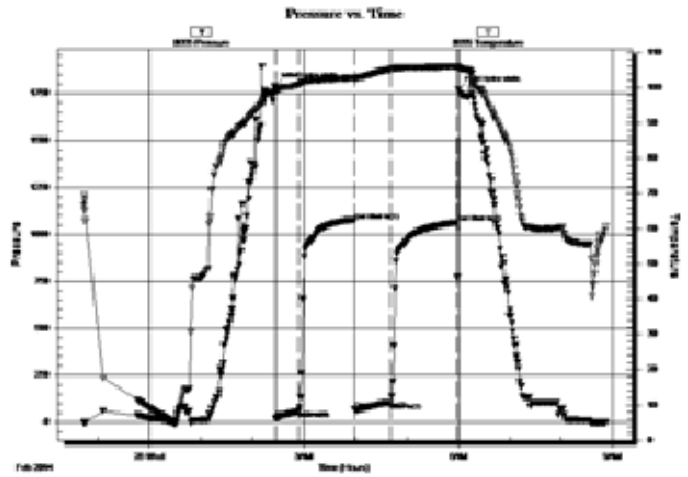


DST #4 LKC "H" & "I" 3,592'-3,618'
30"-60"-45"-75"

IF: 7" blow
ISI: No return
FF: BOB in 28 min
FSI: 1/4" return

Rec': 62' OCM (25% O, 75% M), 186' GO (30% G, 70% O), 186' GIP

SIP: 1073-1064; FP: 19-59, 70-106; HP 1791-1771

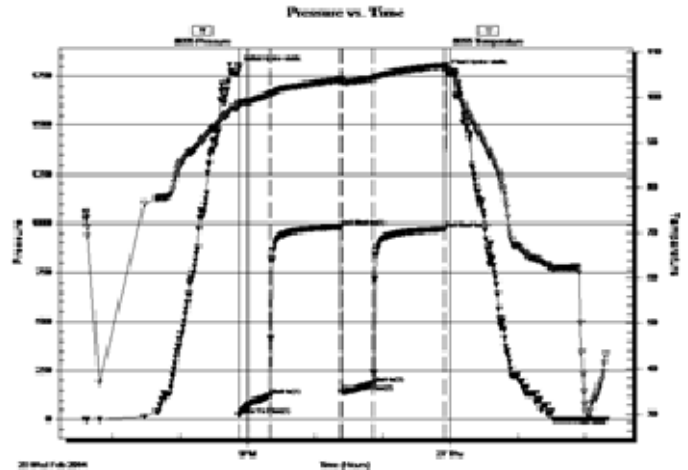


DST #5 LKC "J" & "K" 3,624'-3,654'
30"-60"-30"-60"

IF: BOB in 5min
ISI: BOB in 27min
FF: BOB in instantly
FSI: 8" return

Rec': 31' GHOCM (20% G, 30% O, 50% M), 434' GO (30% G, 70% O), 465' GIP

SIP: 983-972, FP: 24-122, 141-184; HP: 1787-1772

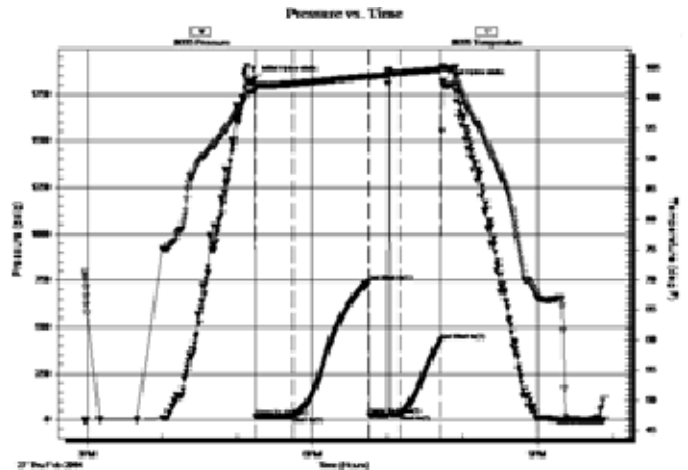


DST #6 Arbuckle 3,684'-3,708'
30"-60"-30"-30"

IF: 1 3/4" blow
ISI: No return
FF: No blow, waited 20" & flushed, surged and died
FSI: No return

Rec': 15' OCM (20% O, 80% M)

SIP: 740-428; FP: 18-22, 27-31; HP: 1831-1814



Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol

Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol

ROCK TYPES

Shgy
Sltst
Ss
Till
Carb sh
Dol
Dtd
Gry sh

Sandylms
Shale
Sltstn
Shlyslts
SltysH
Lms

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brefracg
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr



- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Slty

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram



- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh



- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

INTERVALS

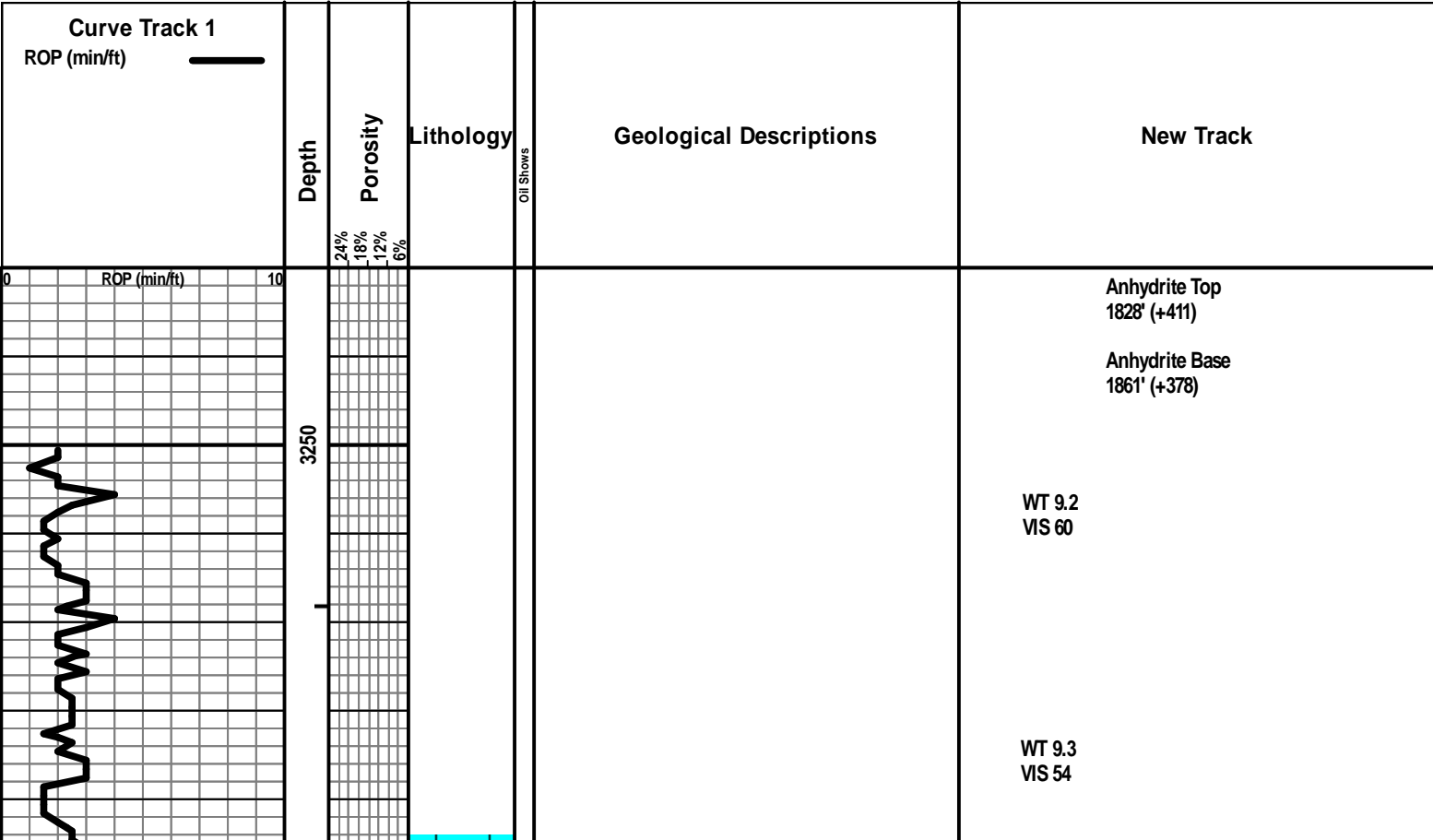
- Core
- Dst

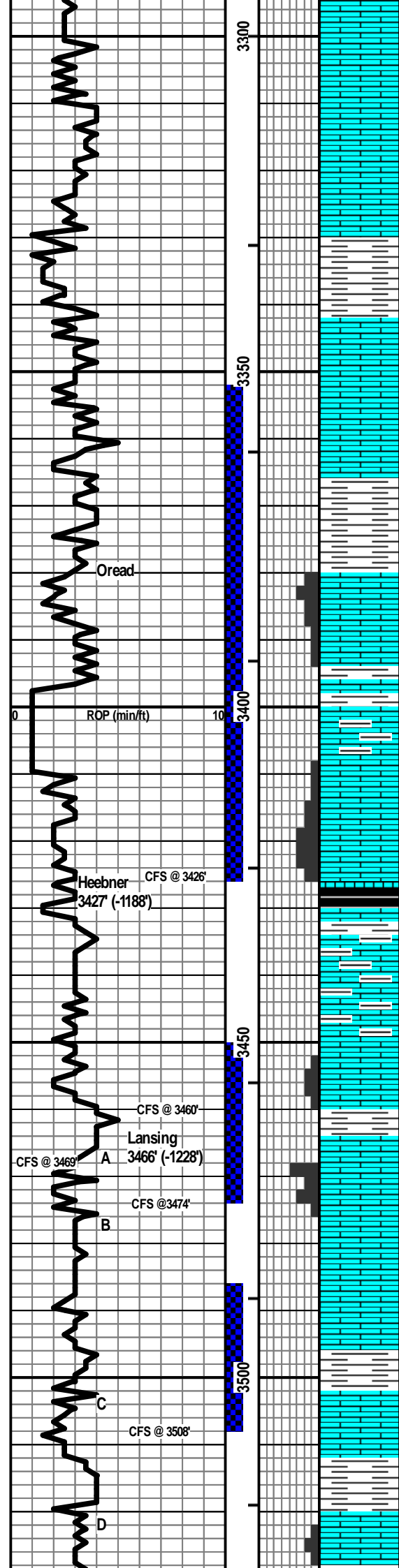


Dst

EVENTS

- Rft
- Sidewall
- Conn





LS - CRM / TAN, VF / F XLN, PRED MOD DNS, SUBSHCKY IN PT, W CHT - BRN OPQ

LS - CRM / TAN, VF XLN, SUBCHKY / CHKY

LS - TAN / GY, VF XLN, DNS, FOSS (CRI), STYLOLITIZED

LS - TAN, F XLN, DNS, FOSS (FUSUL, BRYZO), W SH - GRN / GY

SH - RD, W LS - TAN, F XLN, DNS, PYRITIZED IN PT

LS - WHT / CRM, VF XLN, CHKY

LS - CRM / TAN, F XLN, DNS, FOSS (FUSUL)

SH - GY / GRN / RD

LS - CRM / TAN, F XLN, F / G INTXLN POR, FSFO, SLI ODOR, LT BRN OIL, OIL SHEEN, SLI YEL FLUOR

LS - TAN, F XLN, P / F INTXLN POR, NS
SH - GRN, LMY, W LS - TAN / GY, F XLN, DNS, FOSS

LS - TAN, F XLN, P INTXLN + VUG POR, FSFO, SLI ODOR, LT BRN OIL, OIL SHEEN, SLI YEL FLUOR

LS - TAN, F XLN, DNS, FOSS, NS

LS - TAN, F XLN, F / G INTXLN POR, SLI SFO, V SLI ODOR, LT BRN OIL, OIL SHEEN, V G YEL FLUOR

SH - BLK, CARB W SH - GY, GRN, MAR, ORNG-RD, W LS - WHT / CRM / GY, VF XLN, V CHKY

LS - WHT / CRM / GY, VF XLN, V CHKY, SHLY

SH - GRN, MAR, RD

LS - TAN / BRN, F XLN, P / F INTXLN POR, FSFO, LT BRN OIL, FOSS, SLI ODOR, SLI YEL FLUOR

LS - WHT / CRM, F XLN, F / G INTXLN + VUG POR, GSFO, LT BRN OIL, SLI YEL FLUOR

LS - CRM, VF XLN, SUBCHKY / CHKY, NS

LS - CRM / TAN, F XLN, PRED DNS, SUBCHKY IN PT, NS

SH - GY / GRN / RD, LMY IN PT

LS - CRM / TAN, F XLN, P / F / G INTXLN + VUG POR, GSFO, LT BRN OIL, OOL IN PT, SLI ODOR, G YEL FLUOR

60" LS - CRM / TAN, F XLN, DNS, NS, NO ODOR

SH - GY / GRN / RD

SH - RD

LS - CRM / TAN, F XLN, P / F INTXLN + VUG POR, FSFO, SLI ODOR, NO FLUOR

Drilling with 8 stands of collars and 35,000# of WOB @ 60 RPM with approx. 800-900 psi at standpipe

WT 9.1
VIS 52
LCM 1#

DST #1
Topeka
3353'-3426'
30" -60" -30" -60"

IF: BOB in 7min
ISI: No blow
FF: BOB in 15min
FSI: Surface Blow for 5min and then died

Rec': 403' ft MW (50% M, 50% W), 124' WM (20% W, 80% M)

IH: 1755#
IF: 62#-229#
ISI: 754#
FF: 232#-312#
FSI: 746#
FH: 1712#

WT 9.1
VIS 52
LCM 1#

DST #2
Toronto / LKC "A"
3450'-3474'
30" -60" -30" -60"

IF: 6.5" blow
ISI: No return
FF: 4" blow
FSI: No return

Rec': 124' ft HOCM (40% M, 60% O), 31' GO (10% G, 90% O), 286' GIP

IH: 1762#
IF: 20#-47#
ISI: 843#
FF: 52#-71#
FSI: 806#
FH: 1734#

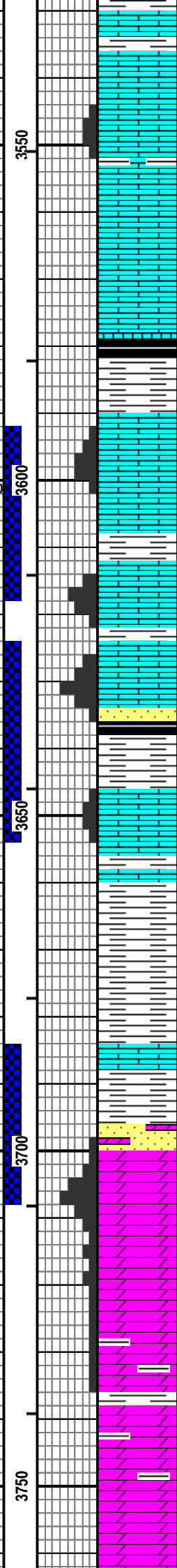
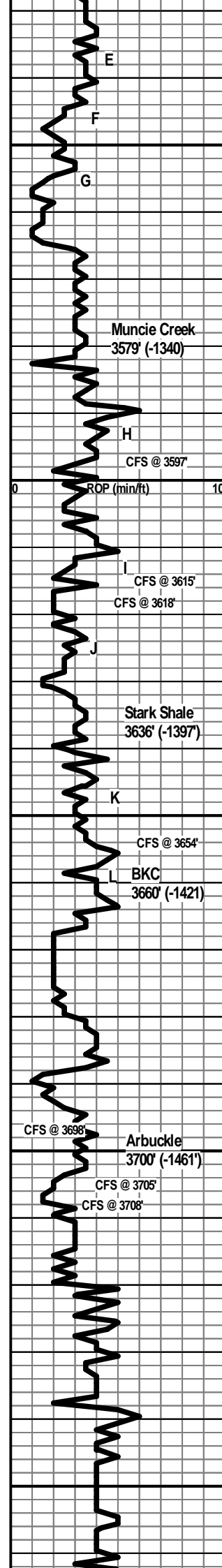
WT 9.1
VIS 50
LCM 1#

DST #3
LKC "C"
3487'-3508'
30" -60" -45" -75"

IF: 6" blow
ISI: Surface return, died in 35min
FF: 8" blow
FSI: Surface return

Rec': 62' WM (40% W, 60% M), 186' MW w/ oil spots (30% M, 70% W), 5' Free Oil (100% O)

IH: 1726#
IF: 17#-80#
ISI: 927#
FF: 84#-141#
FSI: 915#



LS - CRM / TAN, F XLN, DNS, FOSS, NS
 LS - CRM, VF / F XLN, P / F INTXN POR IN PT, SUBCHKY IN PT, SLI SFO, SLI ODOR, YEL FLUOR IN PT
 LS - WHT / CRM, VF XLN, V CHKY, NS, NO ODOR
 LS - TAN / GY, F XLN, DNS, ABUND FOSS (BRACH, CRI)
 SH - BLK, CARB, W/LS - GY / LT BRN, VF / F XLN, SHLY
 LS - CRM / TAN, F XLN, F / G INTXN POR, FSFO, LT BRN OIL, G STN, YEL FLUOR
 LS - CRM / TAN, F XLN, DNS, NS
 SH - BLK / GY / GRN / MAR / RD
 LS - CRM / TAN, F XLN, P / F / G INTXN + VUG POR, XLCNT INTXN POR IN PT, GSFO, G SAT, LT BRN OIL, G SAT, F ODOR, G YEL-GRN FLUOR
 SH - GY / GRN, LMY
 LS - WHT / CRM, VF XLN, CHKY
 LS - TAN / LT BRN, F XLN, F / G / XLCNT POR, GSFO, COMP SAT, DK BRN OIL, V SLI YEL FLUOR
 SS - F QTZ GR, W RND, LOOSE GR, NO SIGN OF CEMENT, ALL LOOSLY CONSOLIDATED
 SH - BLK CARB, W SH - GY / GRN / RD
 LS - CRM / TAN / LT GY, F XLN, P / F INTXN POR IN PT, FSFO, F ODOR, NO FLUOR
 LS - CRM / TAN, VF / F XLN, SUBCHKY IN PT, ABUND FOSS IN PT, NS
 SH - GY / GRN / RD
 LS - CRM / TAN, VF / F XLN, PRED DNS, FOSS, SUBCHKY IN PT
 SS - CLR, VF / F GR, W SRTD, W RND, DOLOMITIC IN PT, GLAUC IN PT
 DOLO, TAN / LT BRN, F XLN, SNDY IN PT, DNS IN PT, P / F INTXN POR IN PT, GSFO, SLI YEL FLUOR, F ODOR
 3708' - DOLO, TAN / LT BRN, F XLN, SLI RHOMBIC IN PT, PRED SUC, G / XLCNT INTXN POR, VGSFO, COMP OIL SAT, DK BRN OIL, G ODOR, SLI YEL FLUOR
 DOLO - WHT / CRM / TAN, PRED DNS, P / F INTXN POR IN PT, FSFO, SPTY STN, V SLI ODOR, SLI YEL FLUOR
 DOLO - CRM / TAN / GY, F XLN, DNS, SLI SPTY STN IN PT, NSFO, NO ODOR
 SH - RD, DOLOMITIC IN PT
 DOLO - CRM / TAN, F XLN, DNS, NS, NO ODOR

FH: 1716# WT 9.0
 VIS 48
 LCM 1#

DST #4
 LKC "H" & "I"
 3592'-3618'
 30"-60"-45"-75"
 IF: 7" blow
 ISI: No return
 FF: BOB in 28 min
 FSI: 1/4" return
 Rec: 62' OCM (25% O, 75% M), 186' GO (30% G, 70% O), 186' GIP

IH: 1791#
 IF: 19#-59#
 ISI: 1073#
 FF: 70#-106#
 FSI: 1064#
 FH: 1771#

WT 9.2
 VIS 47
 LCM 1#

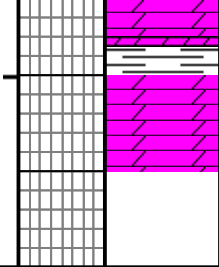
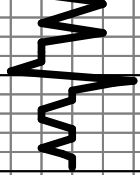
DST #5
 LKC "J" & "K"
 3624'-3654'
 30"-60"-30"-60"
 IF: BOB in 5min
 ISI: BOB in 27min
 FF: BOB in instantly
 FSI: 8" return
 Rec: 31' GHOCM (20% G, 30% O, 50% M), 434' GO (30% G, 70% O), 465' GIP

IH: 1787#
 IF: 24#-122#
 ISI: 983#
 FF: 141#-184#
 FSI: 972#
 FH: 1772#

WT 9.0
 VIS 51
 LCM 1#

DST #6
 Arbuckle
 3684'-3708'
 30"-60"-30"-30"
 IF: 1 3/4" blow
 ISI: No return
 FF: No blow, waited 20" & flushed, surged and died
 FSI: No return
 Rec: 15' OCM (20% O, 80% M)

IH: 1831#
 IF: 18#-22#
 ISI: 740#
 FF: 27#-31#
 FSI: 428#
 FH: 1814#



DOLO - YEL-TAN, F XLN, DNS, NS, W/SH - GY / GRN

RTD 3780'

WT 9.3
VIS 57
LCM 1#