

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Indian Oil Co., Inc.
Well Name	BELL C 3
Doc ID	1466279

All Electric Logs Run

compensated density
sonic
micro
dual induction

Form	ACO1 - Well Completion
Operator	Indian Oil Co., Inc.
Well Name	BELL C 3
Doc ID	1466279

Tops

Name	Top	Datum
Heebner	3829	-1886
Toronto	3840	-1847
Douglas	3865	-1922
Brown Lime	4013	-2070
Lansing	4030	-2087
Stark	4309	-2366
Swope	4314	-2371
BKC	4422	-2479
Marmaton	4436	-2493
Kinderhook Chert	4529	-2586
Kinderhook	4546	-2603
Viola	4590	-2647
Simpson Sand	4674	-2731
Arbuckle	4762	-2819

Fracture Start Date/Time	8/6/19 10:04
Fracture End Date/Time	8/6/19 11:03
State	Kansas
County	Barber
API Number:	
Operator Number:	
Well Name:	Bell C3
Federal Well:	No
Tribal Well:	No
Longitude:	
Latitude:	
Long/Lat Projection:	NAD83
True Vertical Depth (TVD):	
Total Clean Fluid Volume* (gals)	21,588



(e.g. XX-XXX-XXXX-0000)

Total Shown Mass (Lbs)
216,759

Ingredients Section:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments	Claimant Company	Claimant First Name	Claimant Last Name	Claimant Email	Claimant Phone (nnn-nnn-nnnn)
Water	Indian Oil Company	Carrier/Base Fluid	Water	7732-18-5	100.00%	180,152	83.11174%						
30/50 Premium Sand	SPS	Propping Agent		Listed Below									
16/30 Garnet Resin Sand	SPS	Propping Agent		Listed Below									
Dry Bascide-Bio-Clear 1000	SPS	Bio Control		Listed Below									
LG-1 Liquid Gel	SPS	Gellant		Listed Below									
W-11 NE-Surfactant	SPS	NE-Surfactant		Listed Below									
Breaker LE	SPS	Liquid Enzyme Breaker		Listed Below									
KCL	SPS	Temporary Clay Stabilizer		Listed Below									
XL-B Plexbor 101	SPS	Complexer and Buffering Agent		Listed Below									
			Crystalline Silica	14808-60-7	100.00%	30,000	13.84028%						
			Crystalline Silica	14808-60-7	99.00%	4,950	2.28365%						
			2,2-Dibromo-3-Nitropropanionamide	10222-01-2	97.60%	3	0.00135%						
			Petroleum distillates	64742-47-8	50.00%	347	0.16016%						
			Organophilic Clay	71011-26-2	2.00%	14	0.00641%						
			Crystalline Silica	14808-60-7	0.06%	0	0.00019%						
			Alcohol ethoxylate	34398-01-1	1.00%	7	0.00320%						
			Guar Gum	9000-30-0	50.00%	347	0.16016%						
			Methanol	67-56-1	30.00%	102	0.04703%						
			Nonyl Phenol Ethoxylated	127087-87-0	30.00%	102	0.04703%						
			Water	7732-18-5	40.00%	136	0.06271%						
			Non-Hazardous Ingredients	Not Assigned	100.00%	46	0.02117%		Chemplex	Marvin	Misak	Marvin.Misak@solvay.com	352-573-7300
			Ethanediamine 2-hydroxy-N,N,N-trimethyl-, chloride	67-48-1	50.00%	99	0.04574%						
			Water	7732-18-5	50.00%	99	0.04574%						
			Ethylene Glycol	107-21-1	10.00%	33	0.01501%						
			Potassium Hydroxide	1310-58-3	3.15%	10	0.00475%						
			Diethylene Glycol	111-46-6	0.50%	2	0.00075%						
			Potassium Metaborate	13709-94-9	25.00%	81	0.03754%						

*Total Water Volume sources may include fresh water, produced water, and/or recycled water
 ** Information is based on the maximum potential for concentration and thus the total may be over 100%
 All component information



BASICSM

ENERGY SERVICES

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

PRESSURE PUMPING & WIRELINE

TTMH
43

FIELD SERVICE TICKET

1718 18051 A

DATE _____ TICKET NO. _____

DATE OF JOB: 6-12-19		DISTRICT: Pratt		NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:
CUSTOMER: Indian Oil Company				LEASE: B-11			WELL NO.: C3		
ADDRESS:				COUNTY: Barber		STATE: KS			
CITY:				SERVICE CREW: MARTIN MORGAN TROVING					
AUTHORIZED BY:				JOB TYPE: 2-42 13 3/8 SURV.					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
* 86779	0.5						6-11	AM	9:30
73768	0.5							AM	10:30
							6-12	AM	8:30
								AM	9:00
								AM	10:00
						MILES FROM STATION TO WELL: 2			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
Bc132	60/40 P22	SK	300		2511 01
cc109	Calcium chloride	lb	774		278 64
cc102	Cellulose	lb	75		128 00
me101	Light Veh Miles	mi	20		36 03
me102	Heavy eq Miles	mi	40		115 20
CC1	Depth charge 0-1000'	hr	1		432 00
ce240	blend + mix	SK	300		151 20
Bc143	Superior	ea	1		75 00
Bc144	Drill	ea	2		70 02

CHEMICAL / ACID DATA:			

SUB TOTAL		10,234	00
SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
TOTAL		-	01

SERVICE REPRESENTATIVE: M. Morgan

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer BASIC	Lease No.	Date 6-12-11			
Lease B 11	Well # 3				
Field Order #	Station	Casing	Depth	County	State
Type Job 2 42 135	Formation	Legal Description			

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

Customer Representative	Station Manager	Treater
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Service Units									
Driver Names									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:00					
8:10					
8:15			65		
8:20	15				
8:30			37.1		



BASICSM ENERGY SERVICES

PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET 1718 18080 A

Total Man Hours 45

6-22-19 DATE

TICKET NO.

DATE OF JOB: 6-22-19	DISTRICT: Pratt KS. 1718	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:	
CUSTOMER: Juddan Oil		LEASE: Bell C-3		WELL NO.:				
ADDRESS:		COUNTY: Barber		STATE: KS				
CITY:		STATE:		SERVICE CREW: Carl F, Eddie M, Wade B				
AUTHORIZED BY: Arthur Sarnac		JOB TYPE: Cement Longstring 2 1/2						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED: 6-21-19	DATE: 6-21-19	TIME: 9:00 AM
84950	20.20					ARRIVED AT JOB		9:00 AM
19960-19860	1.50					START OPERATION	6-22-19	5:55 AM
						FINISH OPERATION		6:45 AM
						RELEASED		7:45 AM
						MILES FROM STATION TO WELL		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Richard R. Roney
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
EC 115	2 1/2 PREPARED CEMENT	SK	15		296
EC 132	60/40 L Pz	SK	32		1112
AP 102	2-1/4 Plate	lb	39		156
EC 115	2-1/4 P	lb	73		292
CC 111	544	lb	543		1121
CC 113	Exp 5000	lb	730		730
EC 157	2-1/4	lb	88		2112
EC 201	Cilsomite	lb	930		930
MS 101	light vehicle mileage	Mi	20		100
MS 102	heavy equipment mileage	Mi	40		320
CS 504	plug container utilization charge	ea	1		250
CE 5	Depth charge 4001 - 5000'	HR	1		2500
CE 240	Bleeding + mixing charge	SK	205		287
CF 1251	Auto fill float stick	ea	1		360
CF 607	latch down plug + Raffle	ea	1		400
CF 1901	Basket	ea	2		580
CF 1651	Turbolizers	ea	10		1100
CC 151	mud flush	Gal	250		375
CC 154	liquid KCL	Gal	5		530
BE 143	Service summary charge	ea	1		75
BE 144	Drives charge	ea	2		70

SUB TOTAL 15,196.35

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL:		

SERVICE REPRESENTATIVE: <u>Carl Babel</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Richard R. Roney</u>
FIELD SERVICE ORDER NO.	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer <i>Redmond Co.</i>		Lease No.		Date <i>1/27/2014</i>	
Lease <i>111</i>		Well # <i>125</i>			
Field Order #	Station <i>111</i>	Casing <i>5 1/2</i>	Depth	County <i>Lincoln</i>	State
Type Job <i>5h Perforation</i>			Formation	Legal Description <i>T-20-1-W</i>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <i>4311</i>	Depth	From	To	Pre Pad	Max <i>110</i>		5 Min.
Volume <i>113</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>1200</i>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To <i>1100</i>		HHP Used		Annulus Pressure
Plug Depth <i>4154</i>	Packer Depth	From <i>1016</i>	To	Flush	Gas Volume		Total Load

Customer Representative <i>M. Williams</i>			Station Manager <i>Michael Williams</i>			Treater <i>But Taldin</i>		
Service Units								
Driver Names								

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					<i>Completed 7 Tracks on location 11000 pipe 621211</i>
					<i>Run 4811 with casing</i>
					<i>fracture with pig</i>
					<i>Use ball valve</i>
<i>5:45</i>					<i>Rig up for cement</i>
	<i>100</i>		<i>6</i>	<i>4</i>	<i>Start 2500</i>
			<i>43</i>	<i>4</i>	<i>Start 135 - AD - seal with cement in the annulus</i>
					<i>work down 1 hour</i>
					<i>Stop the pump</i>
<i>6:15</i>			<i>20</i>	<i>5</i>	<i>Start Displacement 5 min 1 x 315</i>
				<i>3 1/2</i>	<i>End of Displacement @ 3:15 11000</i>
	<i>125</i>		<i>90</i>	<i>3 1/2</i>	<i>Use 4000 water in 10 9000 Displacement</i>
	<i>400</i>		<i>100</i>	<i>3</i>	<i>Stop the pump</i>
	<i>575</i>		<i>110</i>	<i>2 1/2</i>	<i>Start Displacement 1 hour 1 x 315</i>
<i>6:45</i>	<i>1200</i>		<i>115</i>		<i>Stop the pump</i>
					<i>Volume pump 1 to 1000 1100</i>
			<i>125</i>		<i>Stop the pump with 1000 1100</i>

Geologic Report
Aaron L. Young

Drilling Time and Sample Log

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

Well Name: Bell C #3
API: 15-007-24352
Location: Section 5 - T30S - R13W
License Number: 31938
Spud Date: 06/11/2019
Surface Coordinates: 1400' FSL and 3300' FEL

Region: Barber Co., KS
Drilling Completed: 06/21/2019

Bottom Hole
Coordinates:
Ground Elevation (ft): 1931' K.B. Elevation (ft): 1943'
Logged Interval (ft): 3800' To: 4840' Total Depth (ft): 4840'
Formation: Arbuckle
Type of Drilling Fluid: Chemical - MudCo

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

OPERATOR

Company: Indian Oil Co., Inc
Address: PO Box 209
Medicine Lodge, KS 67104-0209

GEOLOGIST

Name: Aaron L. Young, M.S.
Company: Young Consulting LLC
Address: 100 S Main, Suite 505
Wichita, Kansas 67202

General Info

CONTRACTOR: Fossil Drilling Rig #3

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	17-2/4	Milltooth RR	16-16-16	267'	267'	5.25
2	7-7/8	SMITH 516	3x13s 3x14s	4474'	4128'	85.00
3	7-7/8	SMITH NA	3x13s 3x14s	4840'	366'	15.75

Surveys: 267'-1, 778'-.5, 1287'-.5, 1603'-1, 2108'-.5, 2614'-.25, 3248'-1, 3754'-.5, 4294'-1, 4474'-1

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 12,000-14,000 lbs. on bit and approx 110 RPM.
Running 10 stands of collars; 608.29'
Pumping approx 850-950 psi at standpipe @ 57-60 SPM

Daily Status

06/11/19 Spud @ 3:45pm
06/12/19 WOC @ 267'
06/13/19 Drilling @ 1096'
06/14/19 Drilling @ 2108'
06/15/19 Drilling @ 2614'
06/16/19 Drilling @ 3807'
06/17/19 Drilling @ 4395', DST #1
06/18/19 Drilling @ 4522', DST #2
06/19/19 TIH for DST #3, TD 4648'
06/20/19 TOH DST #4, TD 4690'
06/21/19 TOH for logs, RTD 4840'
06/22/19 Ran 115 jts of new 15.5# 5 1/2" casing set @ 4811. Cem w/ 155 sx AA-2, 30 sx in rathole, 20 sx in mouse hole, 60/40 Poz.

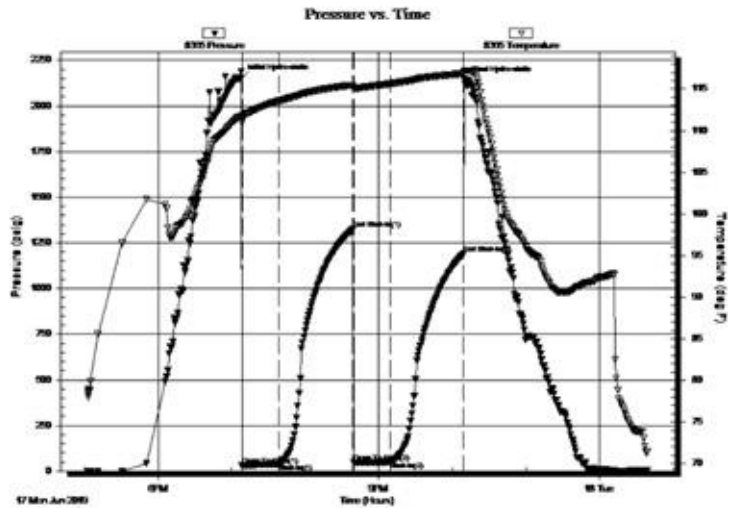
DST #1 Swope 4304'-4346'
Straddle w/ 128' tail 30-60-30-60

Bottom packer did not hold

IF: Blow built to 1.25"
ISI: No blow back
FF: Few bubbles at open then died
FSI: No blow back

Rec'd: 60' Mud w/ skim of oil (100% M)

SIP: 1326-1188#
FP: 29-41#, 47-52#
HP: 2150-2139#

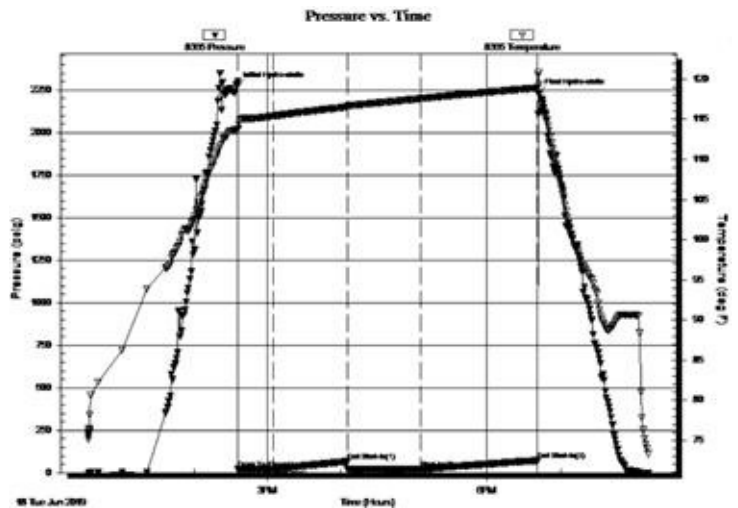


DST #2
Kinderhook Chert 4518'-4543'
30-60-60-90

IF: Blow built to 3"
ISI: No blow back
FF: Blow built to 2"
FSI: No blow back

Rec'd: 10' Mud w/ oil spots in tool (100% M)

SIP: 66-72#
FP: 24-23#, 20-21#
HP: 2272-2231#



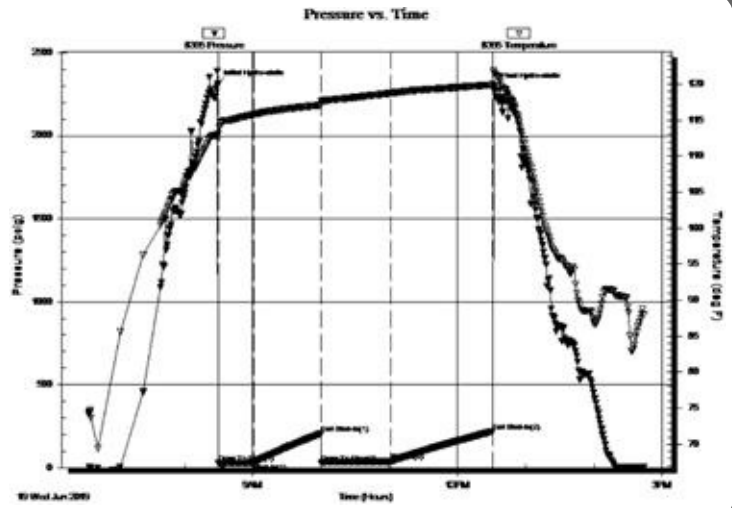
DST #3

Viola 4592'-4648'
30-60-60-90

IF: Blow built to 2.5"
ISI: No blow back
FF: Blow built to BOB in 58 min
FSI: No blow back

Rec'd: 30' (100% M), 155' GIP

SIP: 204-220#
FP: 26-31#, 29-38#
HP: 2308-2296#

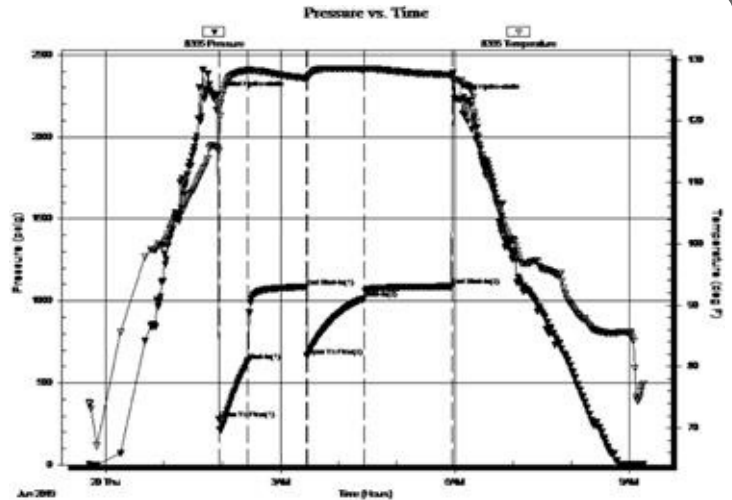


DST #4 Simpson Sand 4648'-4690'
30-60-60-90


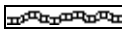
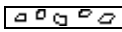
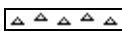
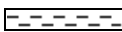


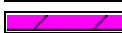
IF: BOB in 1 min/Total built 153"
ISI: Blow back BOB in 35 min
FF: BOB in 2.5 min/ Total build 132"
FSI: Blow back BOB in 49 min





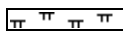

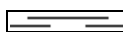
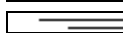
Rec'd: 1550' GSOCMW (10% G, 1% O, 5% M, 84% W),
248' GOCMW (40% G, 10% O, 10% M, 40% W), 341'
GOCMW (20% G, 10% O, 10% M, 60% W), 837' GIP

SIP: 1085-1088#
FP: 276-634#, 662-1012#
HP: 2258-2235#









ROCK TYPES

-  Anhy
-  Bent
-  Brec
-  Cht
-  Clyst
-  Coal
-  Congl
-  Dol

-  Gyp
-  Igne
-  Lmst
-  Meta
-  Mrlst
-  Salt
-  Shale
-  Shcol

-  Shgy
-  Sltst
-  Ss
-  Till
-  Carb sh
-  Dol
-  Dtd
-  Gry sh

-  Sandylms
-  Shale
-  Sltstn
-  Shlyslts
-  Sltyslts
-  Lms

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- 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
- Silty

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

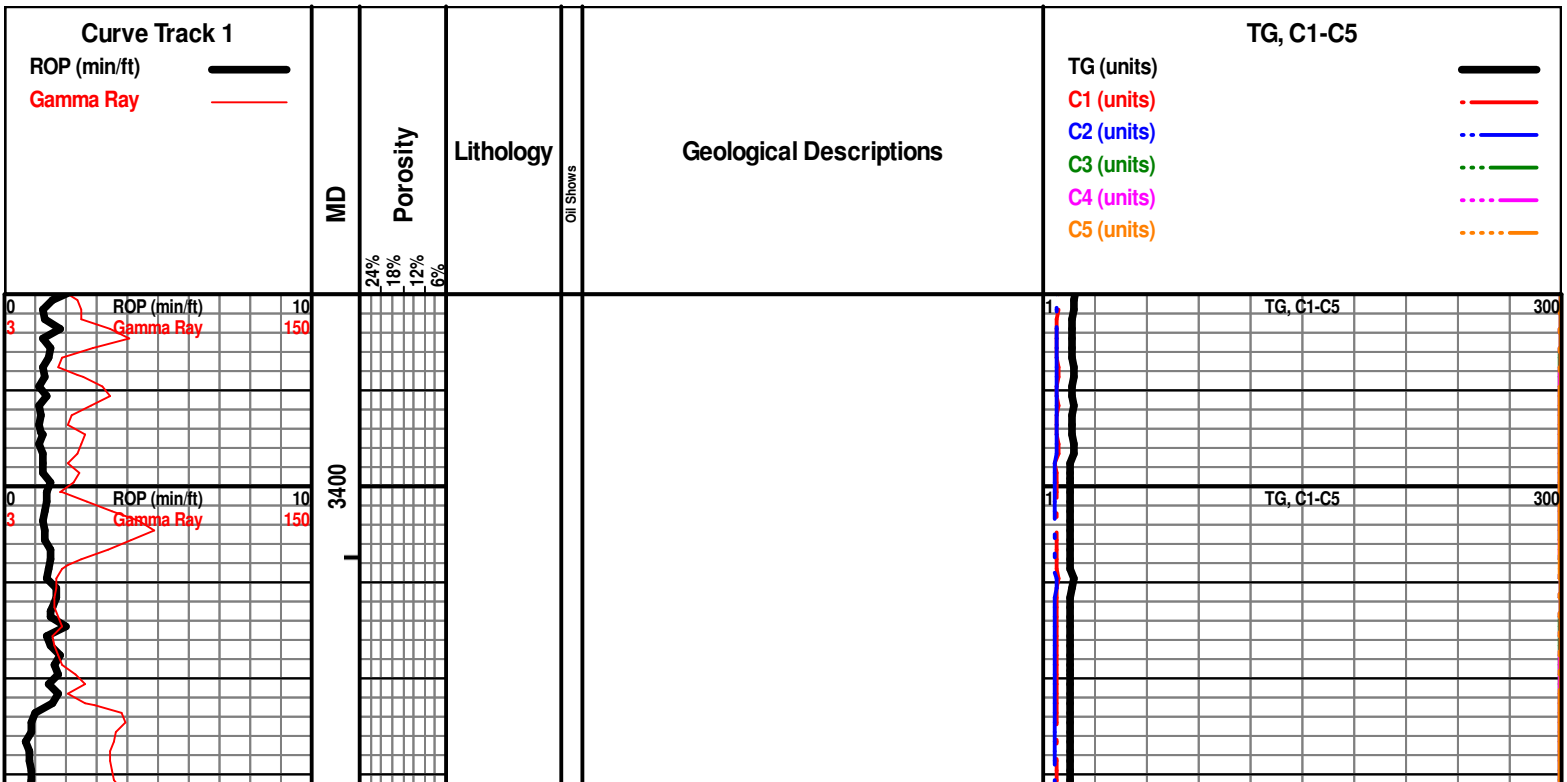
- Core
- Dst

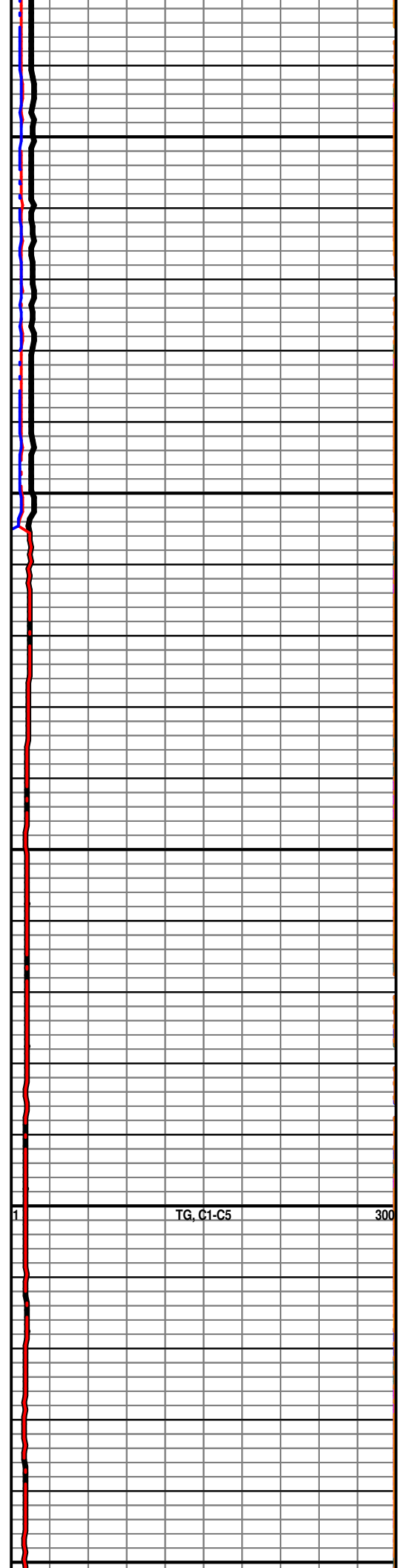
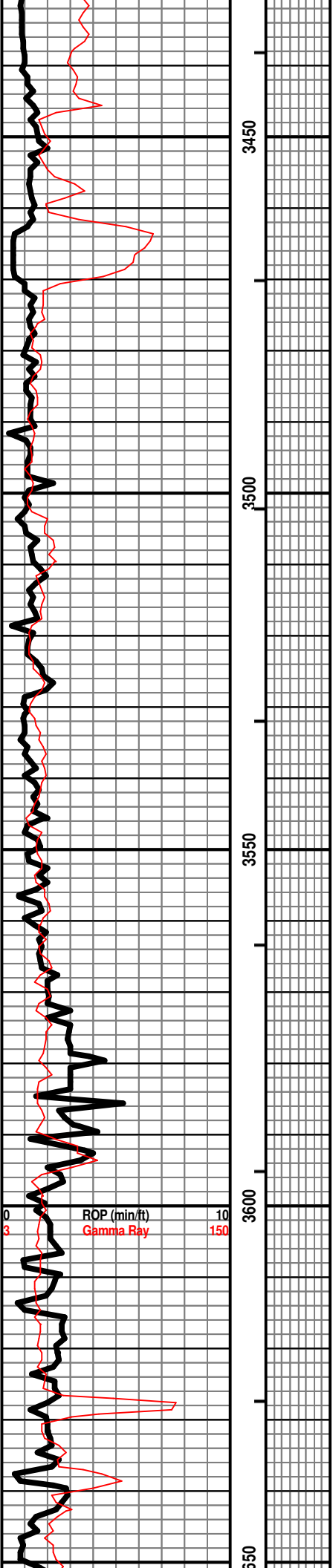


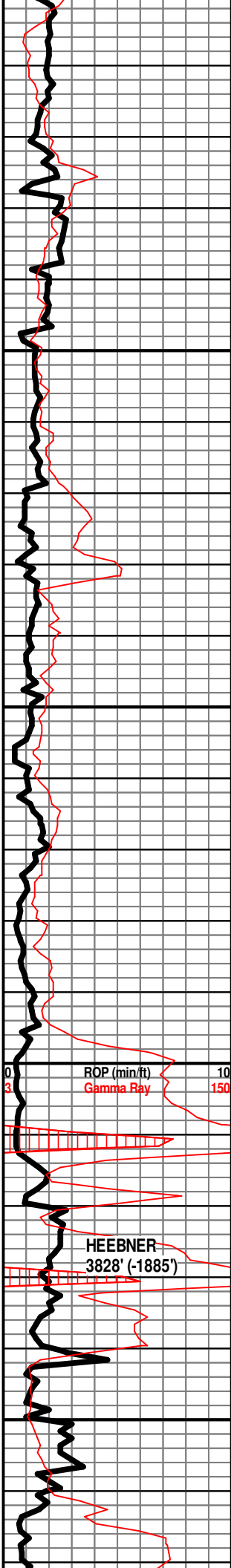
Dst

EVENTS

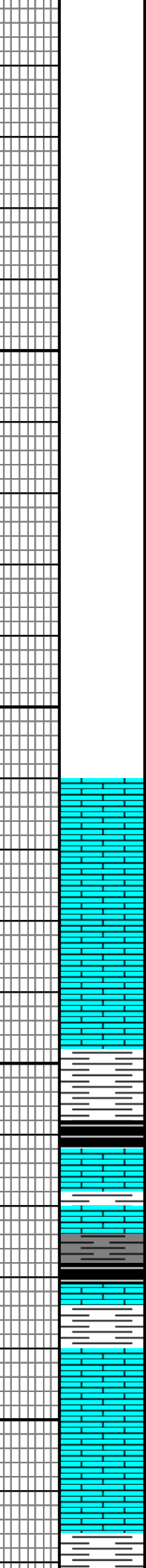
- Rft
- Sidewall
- Conn







3800
3750
3700
3650



LS - TAN / CRM, VF / F XLN, MOD DNS / SUBCHKY

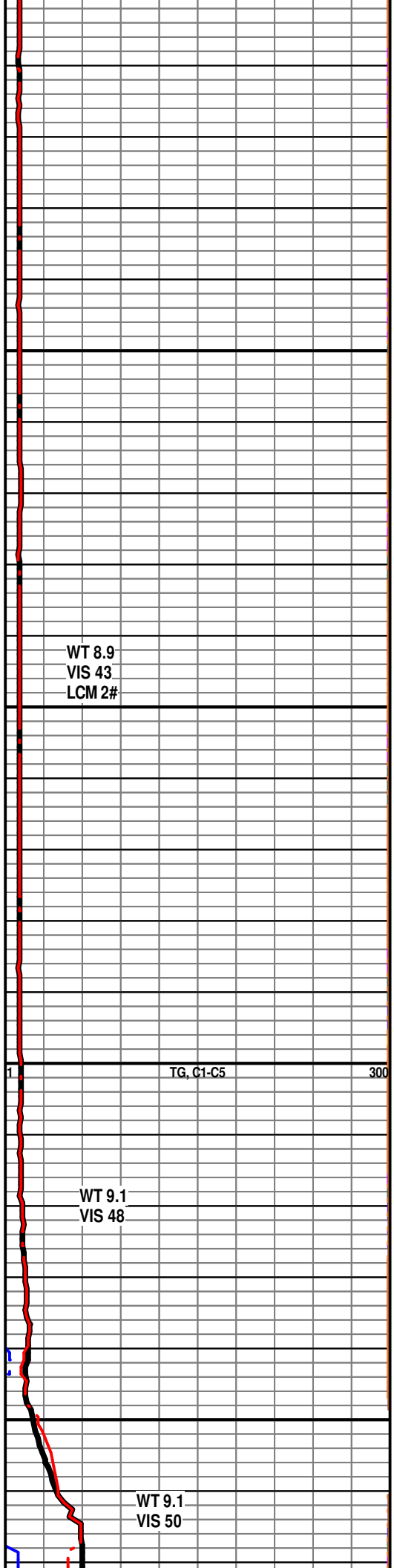
LS - CRM / TAN, VF XLN, SUBCHKY / MOD DNS

SH - DK GY / BLK, CARB

SH - BLK, CARB, W/ LS - TAN / GY, PRED F XLN, VF XLN IN PT, PRED MOD DNS / DNS, SUBCHKY IN PT, W/ FEW PIECES LS - CRM / TAN, F XLN, OOLITIC, P / F OOLMOLDIC POR, NS

LS - CRM, VF XLN, SUBCHKY / MOD DNS, CHKY IN PT, W/ SH - GY

LS - CRM / TAN, F XLN, MOD DNS



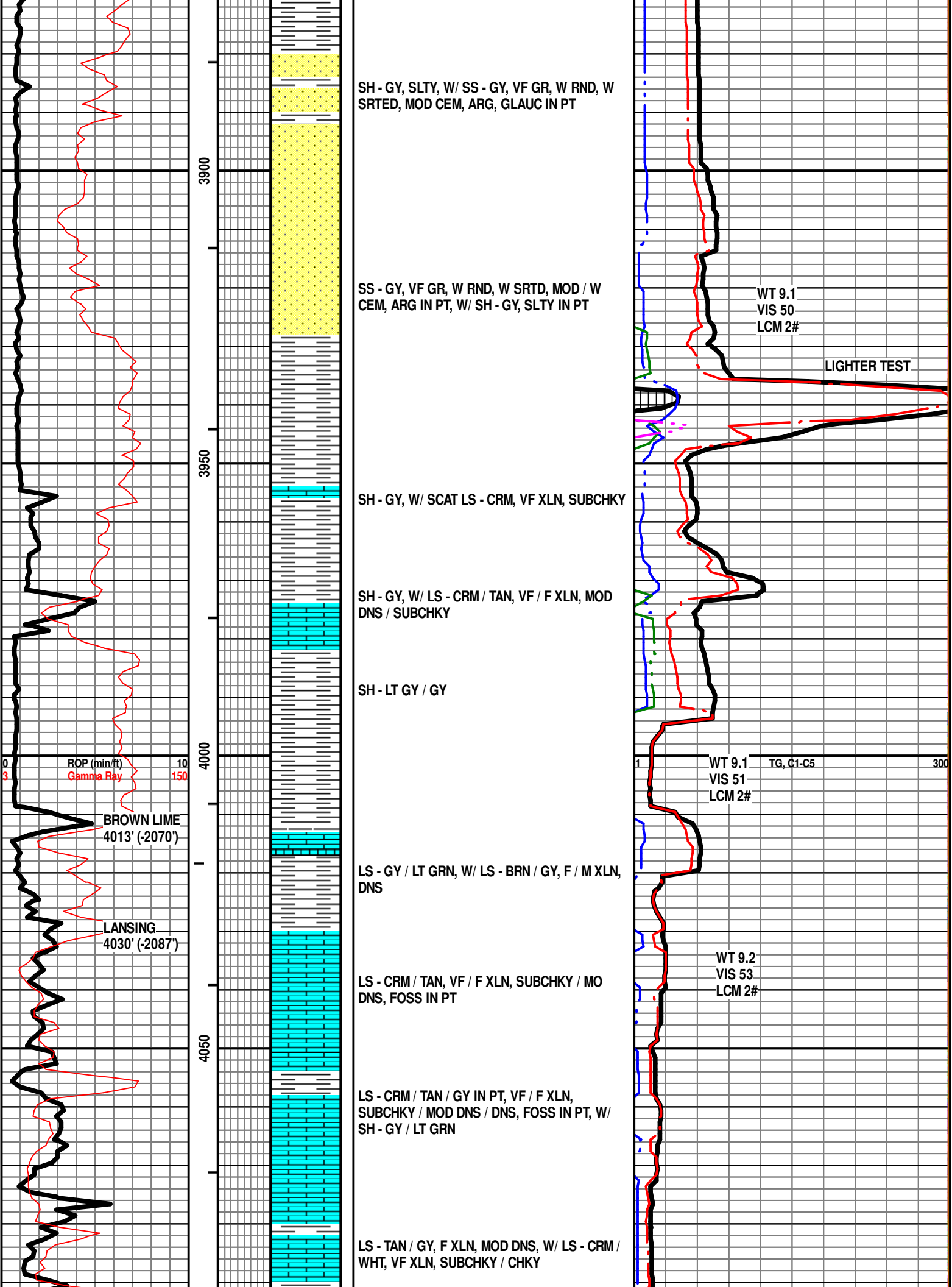
WT 8.9
VIS 43
LCM 2#

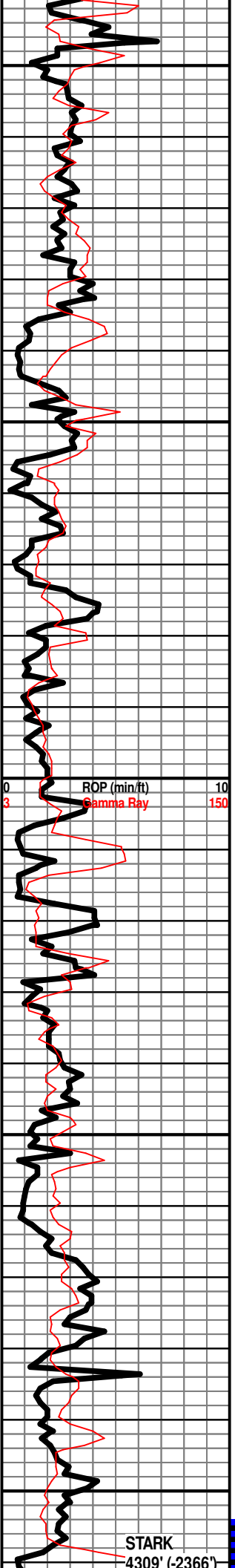
TG, C1-C5

WT 9.1
VIS 48

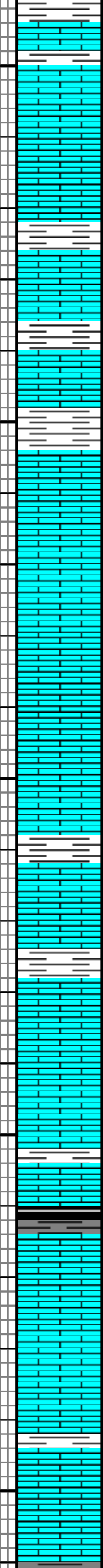
WT 9.1
VIS 50

300





4100
4150
4200
4250
4300



LS - CRM, VF / F XLN, SUBCHKY, W/ SH - GY / RD / GRN

SH - GY, W/ LS - CRM / TAN / GY IN PT, VF / F XLN, PRED SUBCHKY, MOD DNS / DNS IN PT, FOSS IN PT

LS - CRM / TAN, GY, VF / F XLN, SUBCHKY, W/ SH - RD / GRN / GY, W/ LS - CRM / WHT, VF XLN, CHKY, W/ SCAT CHT - GY, SLI TRANSLUCNT, FRSH, FOSS

SH - DK GY / BLK, SLI CARB

LS - CRM / TAN / LT BRN, VF XLN, SUBCHKY / CHKY, W/ LS - TAN, F / M XLN, DNS

LS - CRM / WHT, V CHKY

LS - BRN / GY, F XLN, MOD DNS / DNS, OOLITIC IN PT, P / F OOLMOLDIC POR, NS, NO ODOR, NO FLUOR

LS - BRN / TAN, F XLN, ABUND FOSS, F INTERXLN POR, NS, NO ODOR

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

LS - TAN / BRN, F XLN, P / F INTERXLN POR, NS, NO ODOR, FOSS, W/ SH - RD / GRN / GY

SH - GY, W/ LS - CRM / TAN / GY, F / VF XLN, PRED DNS, P VUG POR IN PT, SUBCHKY IN PT, FOSS

LS - CRM, F / VF XLN, MOD DNS / SUBCHKY

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT

LS - BRN / TAN / CRM, F XLN, PRED DNS, MOD DSN IN PT

SH - DK GY / BLK, CARB, W/ LS - CRM / TAN / GY IN PT, VF / F XLN, MOD DNS / SUBCHKY, ABUND FOSS IN PT

LS - CRM / WHT, VF XLN, SUBCHKY / CHKY IN PT, W/ LS - TAN, F / M XLN, MOD DNS

LS - CRM / TAN, F / M XLN, MOD DNS / DNS

LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY, W/ SCAT SH - GY / GRN

WT 9.3
VIS 46
LCM 2#

WT 9.2
VIS 54
LCM 2#

WT 9.2
VIS 51
LCM 2#

WT 9.2
VIS 49
LCM 2#

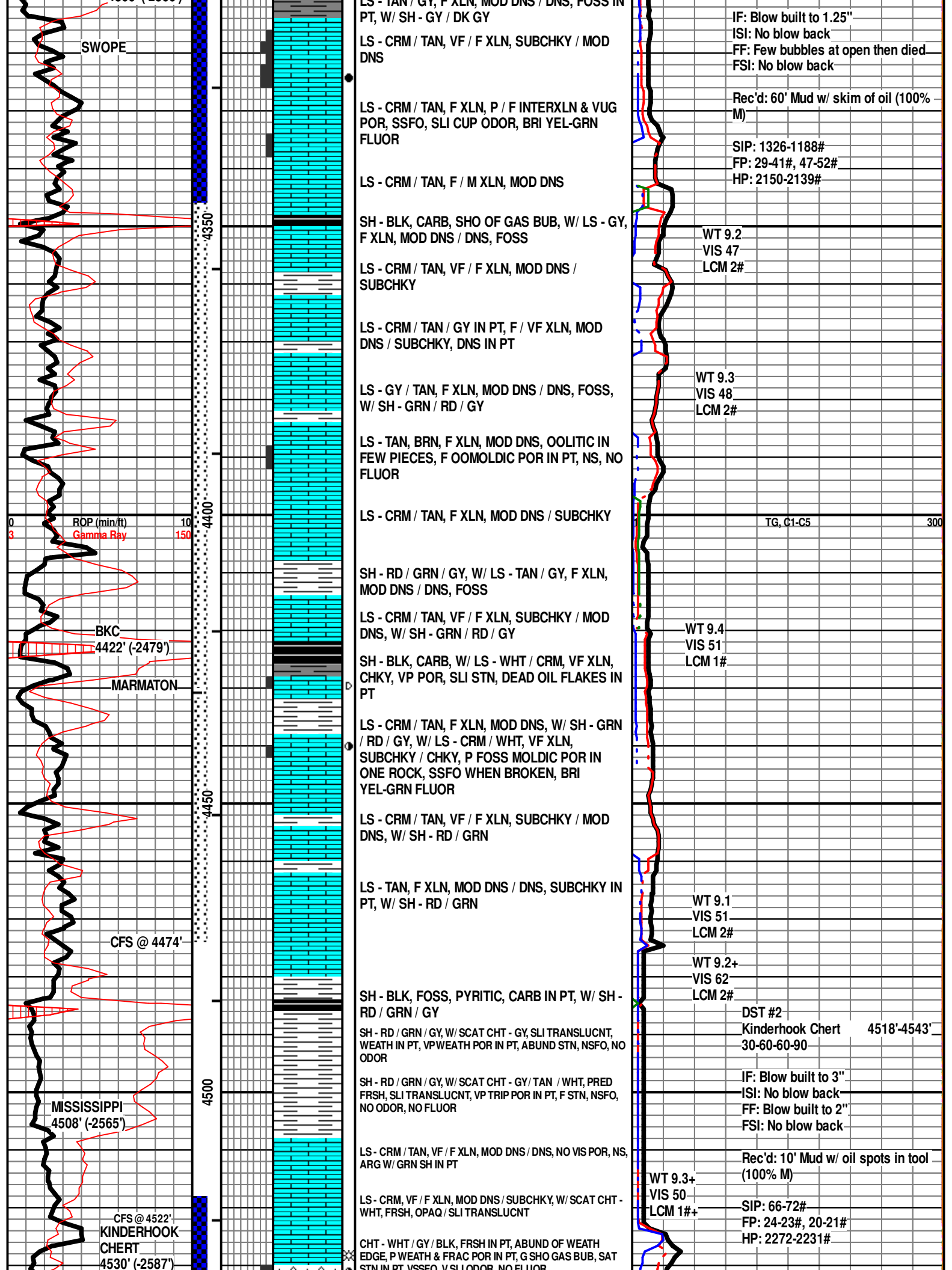
WT 9.2
VIS 47
LCM 2#

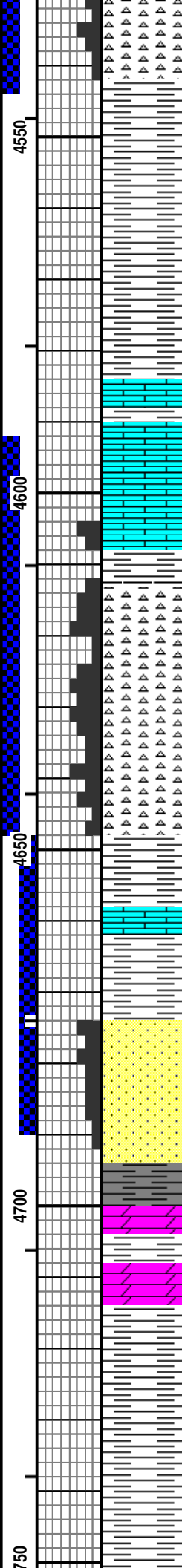
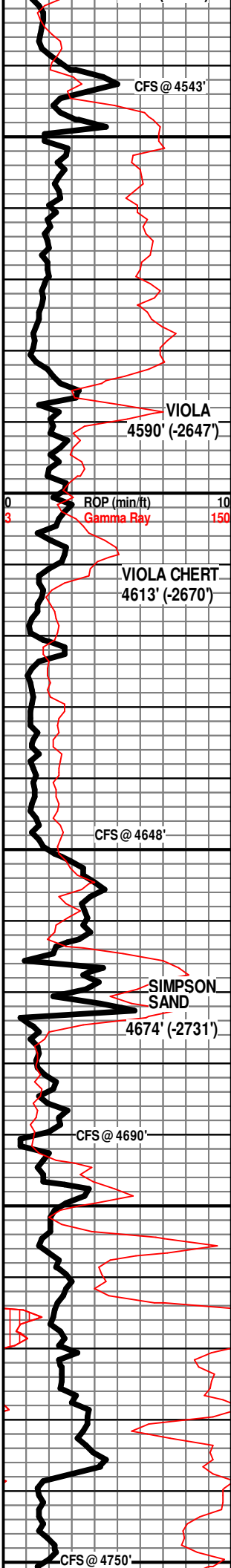
TG, C1-C5 300

STARK
4309' (-2366')

DST #1
Swope 4304'-4346'
Straddle w/ 128' tail
30-60-30-60

Bottom packer did not hold





GRN IN PT, VSSFO, V SLI ODOR, NO FLUOR

CHT - WHT / GY / BLK, P / F WEATH POR, G SHO GAS BUB, ABUND SAT STN, VSSFO, V SLI ODOR, NO FLUOR

LS - CRM, VF / FXLN, SUBCHKY

SH - RD-ORNG / MAR / GRN / GY

SH - MAR / GRN / GY

SH - GRN / GY / MAR

LS - CRM, VF / F XLN, MOD DNS / SUBCHKY, VP INTERXLN & VUG POR IN PT, NS, ODOR

LS - CRM / WHT, VF XLN, SUBCHKY, VP INTERXLN POR IN PT, SLI STN, NSFO, NO ODOR

CHT - WHT / GY, 70% WEATH, 30% FRSH IN PT, P / F / G WEATH POR, SSFO, G SHO OF GAS BUB, G CUP ODOR, COMP SAT IN PT, F OIL SHEEN, BRI YEL-GRN FLUOR, W/ FEW PIECE OF CHTY LS - CRM, VF / F XLN, P / F INTERXLN POR, SSFO

CHT - WHT, 60% WEATH, 40% FRSH, P / F / G WEATH POR, FSFO, G SHO GAS BUB, PIECES BLEEDING OIL, LT BRN OIL,

CHT - WHT, 70% FRSH, 30% WEATH, F / G WEATH POR, GSFO, BLEEDING OIL, G ODOR, BRI YEL-GRN FLUOR

CHT - WHT, PRED FRSH, WEATH IN PT, F / G WEATH POR, GSFO, G ODOR, BRI YEL-GRN FLUOR

SH - RD / TURQ / GY

SH - RD GRN / GY, W/ LS - CRM, DOLOMITIC, F XLN, MOD DNS

SS - CLR, F / M GR, SUB-ANG / SUB-RND, P SRTD, MOD CEM, FRI IN PT, P / F INTERGR POR, G INTERGR POR IN FEW PIECES, F CUP ODOR, FSFO, G SHO GAS BUB, ABUND OIL SHEEN, BRI YEL- GRN FLUOR

SS - CLR, F GR, SUB-RND, W SRTD, F INTERPGR POR, NSFO, NO ODOR, DULL FLUOR

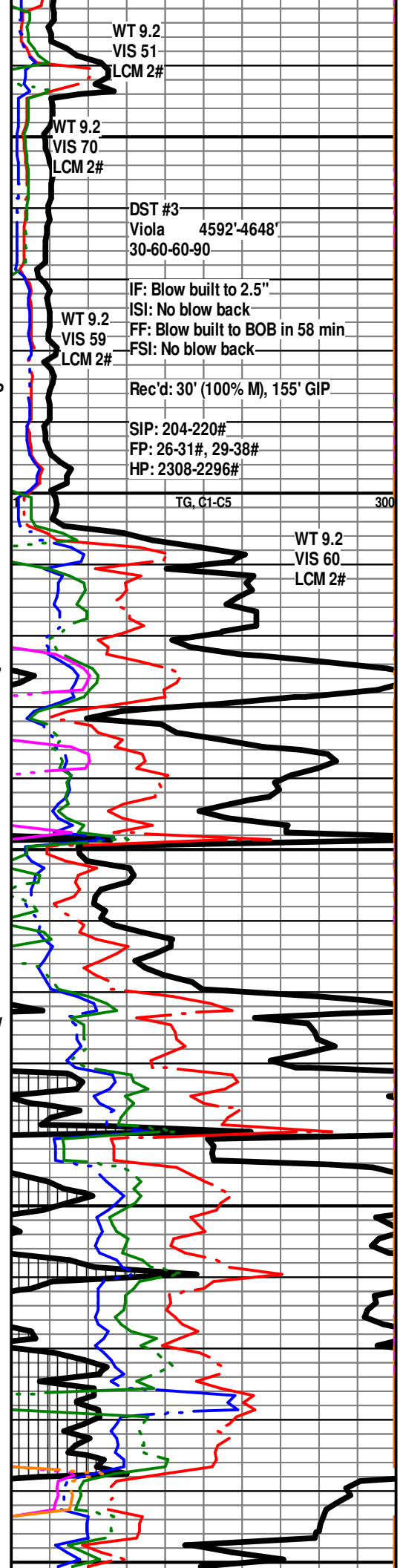
SH - DK GY / BLK, SNDY

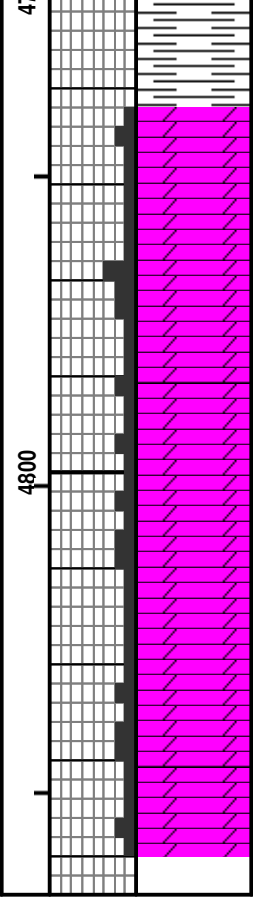
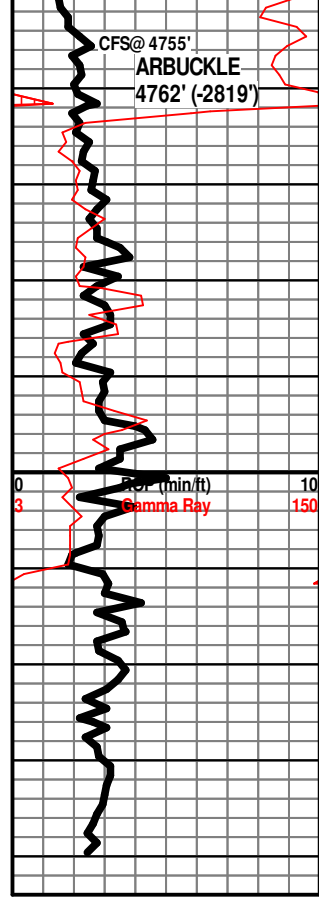
SH - GR / GRN / RD, W/ DOLO - CRM / TAN / GY, F XLN, MOD DNS

SH - PRED LT GRN / LT GY, RD / RD-ORNG IN PT

SH - GRN / GY / RD IN PT

SH - GRN / GY / RD





DOLO - TAN / WHT, F XLN, P FRAC POR IN PT, VSSFO WHEN BRKN, NO ODOR, DULL YEL-GRN FLUOR, W/ DOLO - WHT, V CHKY

DOLO - TAN / BRN, F XLN, MOD DNS, P INTERXLN POR IN PT, NS

DOLO - TAN / BRN, F XLN, MOD DNS, P / F INTERXLN POR IN PT, NS, NO ODOR, DULL YEL-GRN FLUOR

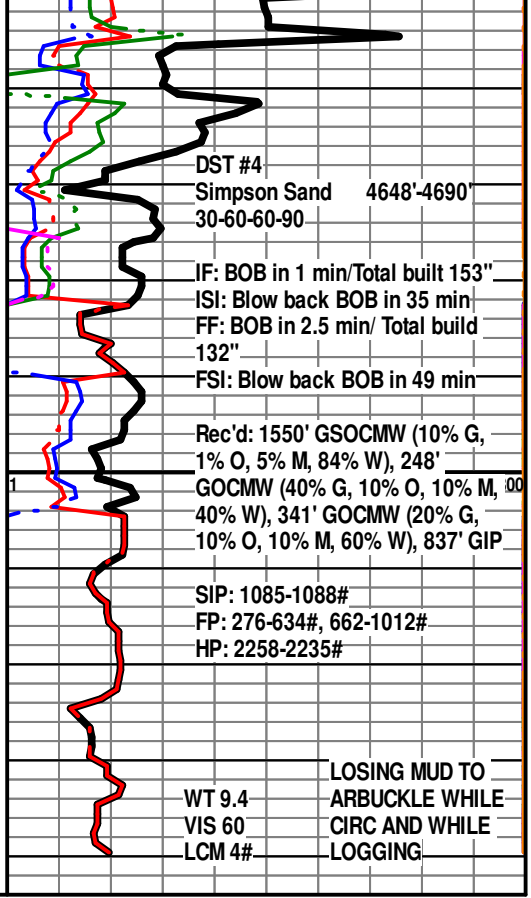
DOLO - TAN, F / M XLN, MOD DNS / DNS, P INTERXLN POR, NS, NO ODOR

DOLO - TAN / GY IN PT, P INTERXLN POR, NS, NO ODOR

DOLO - TAN, F XLN XLN, P INTERXLN POR IN PT, NS, NO ODOR

DOLO - TAN, F XLN, P INTERXLN POR, NS, NO ODOR

RTD 4840'





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Indian Oil Co. Inc
PO Box 209
Medicine Lodge, Kansas
67104+0209
ATTN: Aaron Young

5/30S/13W/Barber

Bell C #3

Job Ticket: 65674

DST#: 1

Test Start: 2019.06.17 @ 17:03:00

GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:08:17

Time Test Ended: 00:39:02

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 72 Pratt/ 38

Interval: 4304.00 ft (KB) To 4346.00 ft (KB) (TVD)

Reference Elevations: 1943.00 ft (KB)

Total Depth: 4474.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8365 Inside

Press@RunDepth: 51.53 psig @ 4304.00 ft (KB)

Capacity: psig

Start Date: 2019.06.17 End Date: 2019.06.18

Last Calib.: 2019.06.18

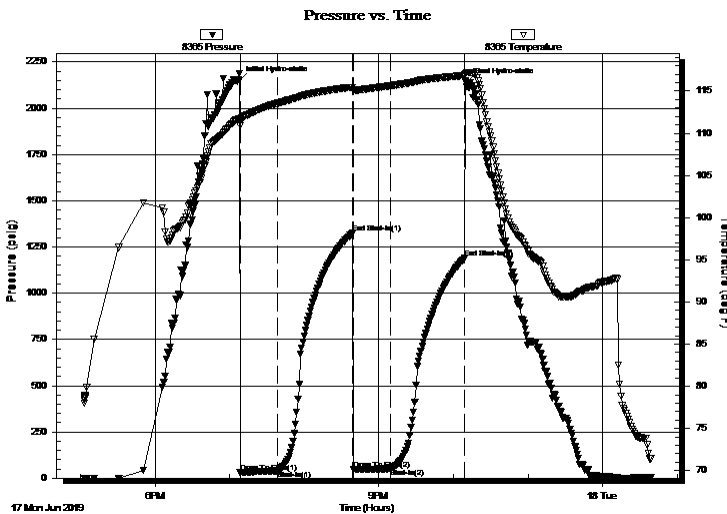
Start Time: 17:03:01 End Time: 00:39:02

Time On Btm: 2019.06.17 @ 19:07:17

Time Off Btm: 2019.06.17 @ 22:10:02

TEST COMMENT: IF 30 Minutes/ Blow built to 1 1/4 inch
ISI 60 Minutes/ No blow back
FF 30 Minutes/ Few bubbles at open then dead
FSI 60 Minutes/ No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.93	111.71	Initial Hydro-static
1	28.75	110.92	Open To Flow (1)
31	41.00	113.57	Shut-In(1)
92	1325.50	115.44	End Shut-In(1)
93	46.99	115.18	Open To Flow (2)
122	51.53	115.63	Shut-In(2)
182	1188.33	116.88	End Shut-In(2)
183	2139.14	117.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud w /skim of oil/ M 100%	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Indian Oil Co. Inc
PO Box 209
Medicine Lodge, Kansas
67104+0209
ATTN: Aaron Young

5/30S/13W/Barber

Bell C #3

Job Ticket: 65674

DST#: 1

Test Start: 2019.06.17 @ 17:03:00

GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:08:17

Time Test Ended: 00:39:02

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 72 Pratt/ 38

Interval: 4304.00 ft (KB) To 4346.00 ft (KB) (TVD)

Reference Elevations: 1943.00 ft (KB)

Total Depth: 4474.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6755

Outside

Press@RunDepth: 1187.52 psig @ 4304.00 ft (KB)

Capacity: psig

Start Date: 2019.06.17

End Date:

2019.06.18

Last Calib.:

2019.06.18

Start Time: 17:03:01

End Time:

00:39:02

Time On Btm:

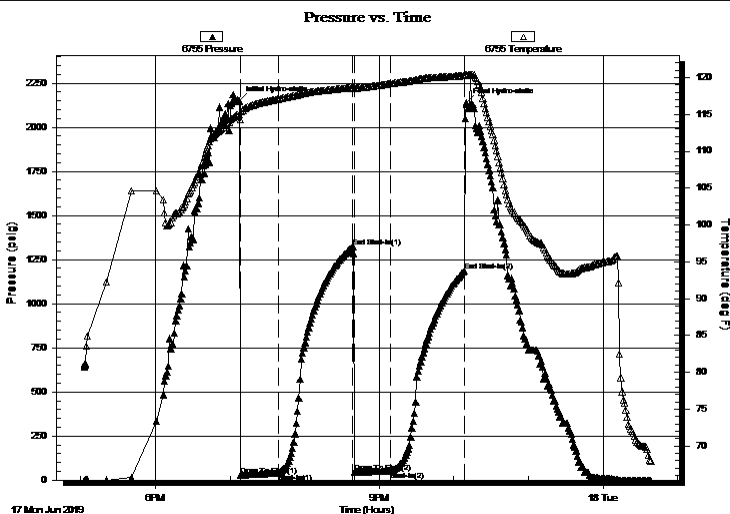
2019.06.17 @ 19:07:17

Time Off Btm:

2019.06.17 @ 22:10:02

TEST COMMENT: IF 30 Minutes/ Blow built to 1 1/4 inch
ISI 60 Minutes/ No blow back
FF 30 Minutes/ Few bubbles at open then dead
FSI 60 Minutes/ No blow back

PRESSURE SUMMARY



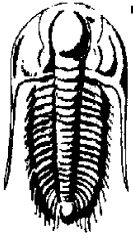
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2148.62	115.00	Initial Hydro-static
1	28.81	114.33	Open To Flow (1)
32	39.47	117.10	Shut-In(1)
92	1324.23	118.65	End Shut-In(1)
93	46.51	118.50	Open To Flow (2)
122	50.79	119.18	Shut-In(2)
182	1187.52	120.28	End Shut-In(2)
183	2138.85	120.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud w /skim of oil/ M 100%	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Indian Oil Co. Inc
PO Box 209
Medicine Lodge, Kansas
67104+0209
ATTN: Aaron Young

5/30S/13W/Barber

Bell C #3

Job Ticket: 65674

DST#: 1

Test Start: 2019.06.17 @ 17:03:00

GENERAL INFORMATION:

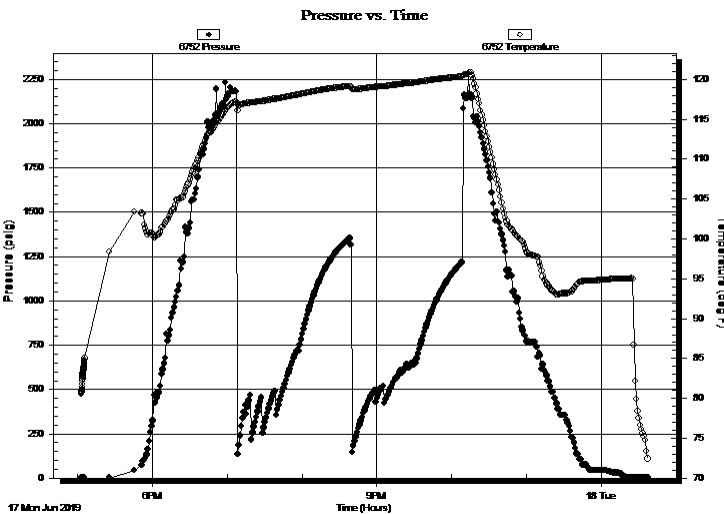
Formation: **Swope**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:08:17
Time Test Ended: 00:39:02
Interval: 4304.00 ft (KB) To 4346.00 ft (KB) (TVD)
Total Depth: 4474.00 ft (KB) (TVD)
Hole Diameter: 7.80 inchesHole Condition: Fair

Test Type: Conventional Straddle (Initial)
Tester: Ken Swinney
Unit No: 72 Pratt/ 38
Reference Elevations: 1943.00 ft (KB)
1931.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6752 Below (Straddle)

Press@RunDepth: psig @ 4372.52 ft (KB)
Start Date: 2019.06.17 End Date: 2019.06.18
Start Time: 17:03:01 End Time: 00:38:02
Capacity: psig
Last Calib.: 2019.06.18
Time On Btm:
Time Off Btm:

TEST COMMENT: IF 30 Minutes/ Blow built to 1 1/4 inch
 ISI 60 Minutes/ No blow back
 FF 30 Minutes/ Few bubbles at open then dead
 FSI 60 Minutes/ No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud w /skim of oil/ M 100%	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Indian Oil Co. Inc
PO Box 209
Medicine Lodge, Kansas
67104+0209
ATTN: Aaron Young

5/30S/13W/Barber
Bell C #3
Job Ticket: 65674 **DST#: 1**
Test Start: 2019.06.17 @ 17:03:00

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud w /skim of oil/ M 100%	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8365

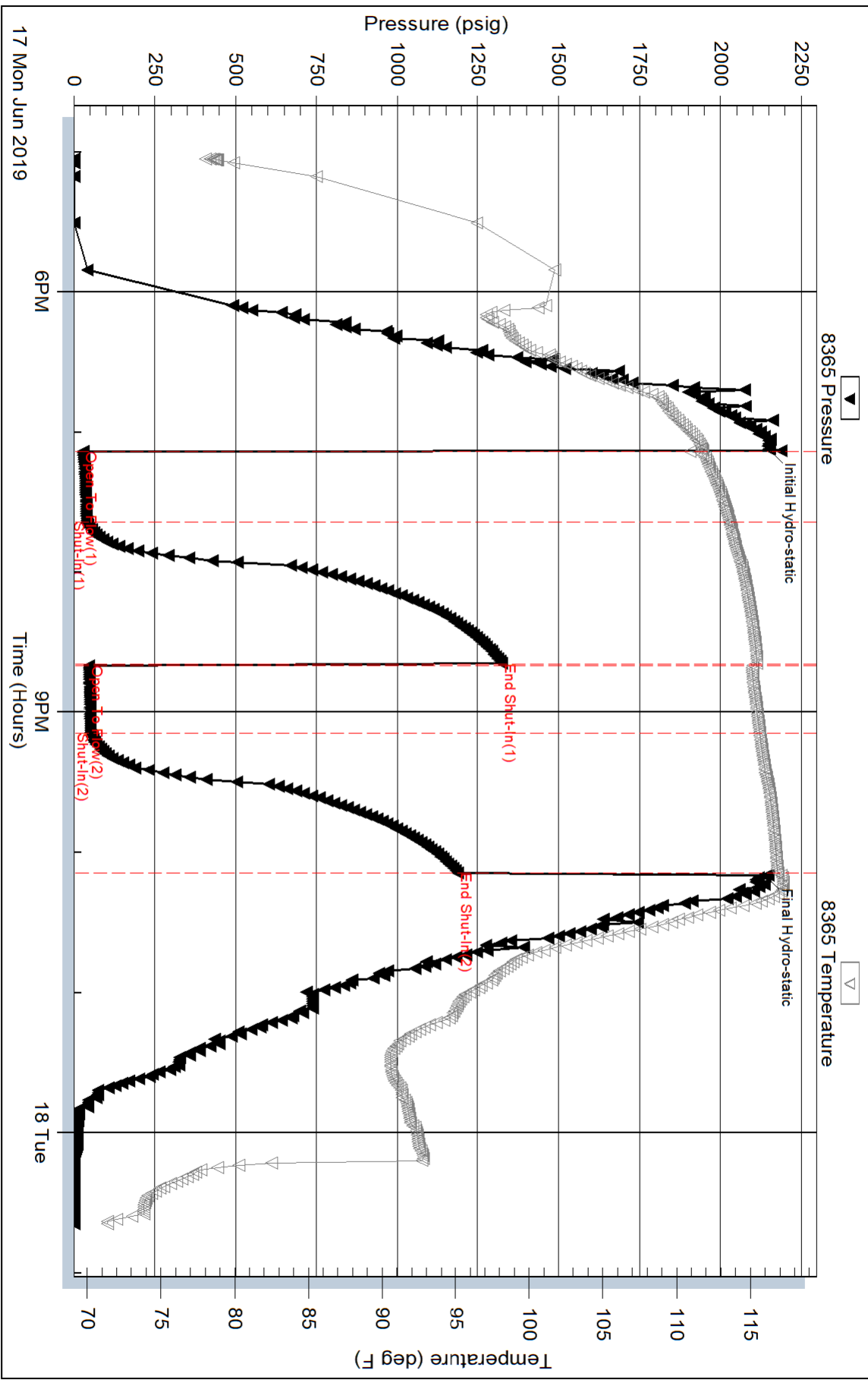
Inside

Indian Oil Co. Inc

Bell C#3

DST Test Number: 1

Pressure vs. Time

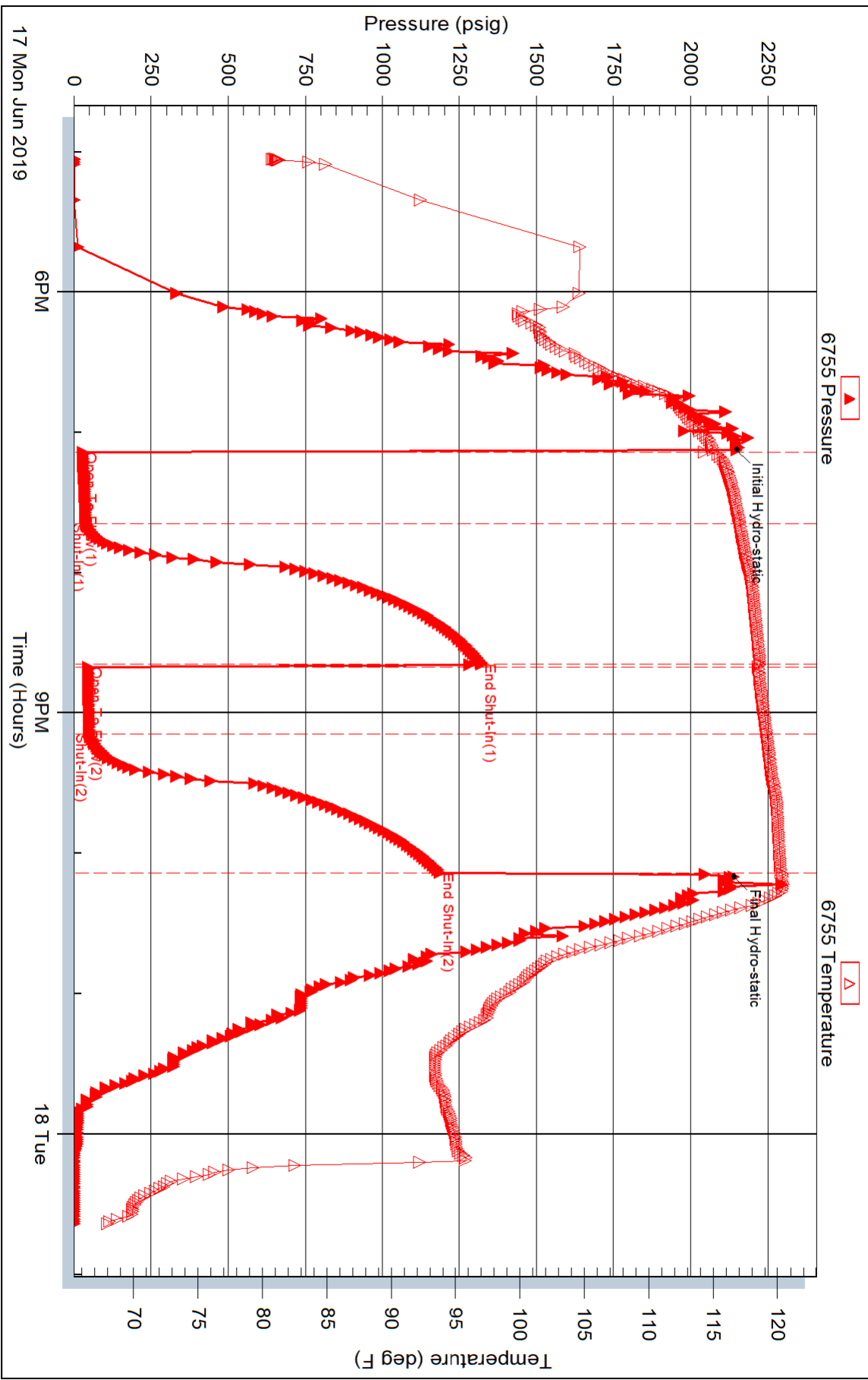


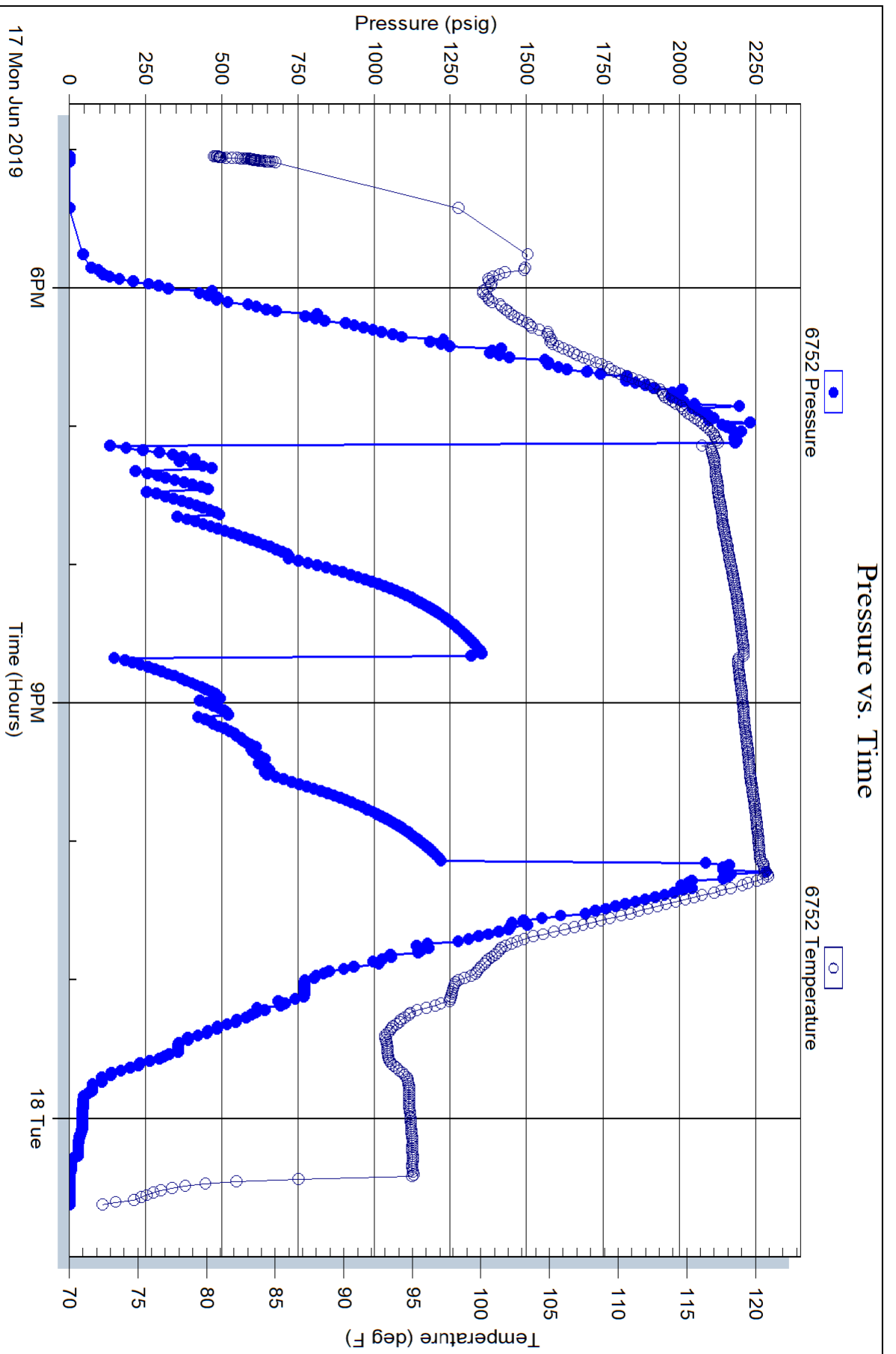
Triobite Testing, Inc

Ref. No: 65674

Printed: 2019.06.18 @ 08:13:35

Pressure vs. Time







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Indian Oil Co. Inc
 PO Box 209
 Medicine Lodge, Kansas
 67104+0209
 ATTN: Aaron Young

5/30S/13W/Barber

Bell C #3

Job Ticket: 65675

DST#: 2

Test Start: 2019.06.18 @ 12:34:00

GENERAL INFORMATION:

Formation: **Kinderhook Chert**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:36:17

Time Test Ended: 20:12:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Pratt/ 38

Interval: **4518.00 ft (KB) To 4543.00 ft (KB) (TVD)**

Reference Elevations: 1943.00 ft (KB)

Total Depth: 4543.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8365

Inside

Press@RunDepth: 21.17 psig @ 4519.00 ft (KB)

Capacity: psig

Start Date: 2019.06.18

End Date:

2019.06.18

Last Calib.:

2019.06.18

Start Time: 12:34:01

End Time:

20:12:02

Time On Btm:

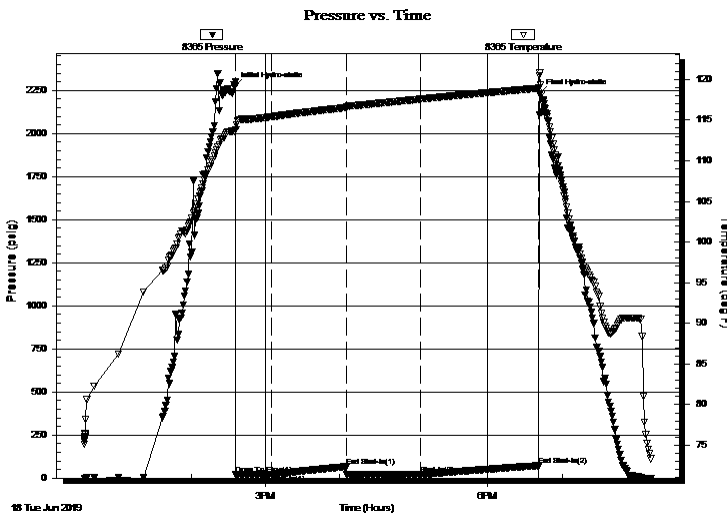
2019.06.18 @ 14:35:32

Time Off Btm:

2019.06.18 @ 18:42:02

TEST COMMENT: IF 30 Minutes/ Blow built to 3 inches
 ISI 60 Minutes/ No blow back
 FF 60 Minutes/ Blow built to 2 inches
 FSI 90 Minutes/ No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2271.53	113.60	Initial Hydro-static
1	23.70	113.85	Open To Flow (1)
30	23.01	115.41	Shut-In(1)
90	66.00	116.56	End Shut-In(1)
91	20.02	116.61	Open To Flow (2)
151	21.17	117.58	Shut-In(2)
246	72.20	118.94	End Shut-In(2)
247	2230.78	120.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w /light oil spot in tool/ M 100%	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Indian Oil Co. Inc
PO Box 209
Medicine Lodge, Kansas
67104+0209
ATTN: Aaron Young

5/30S/13W/Barber

Bell C #3

Job Ticket: 65675

DST#: 2

Test Start: 2019.06.18 @ 12:34:00

GENERAL INFORMATION:

Formation: **Kinderhook Chert**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:36:17

Time Test Ended: 20:12:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Pratt/ 38

Interval: 4518.00 ft (KB) To 4543.00 ft (KB) (TVD)

Reference Elevations: 1943.00 ft (KB)

Total Depth: 4543.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6755 Outside

Press@RunDepth: 72.59 psig @ 4520.00 ft (KB)

Capacity: psig

Start Date: 2019.06.18 End Date: 2019.06.18

Last Calib.: 2019.06.18

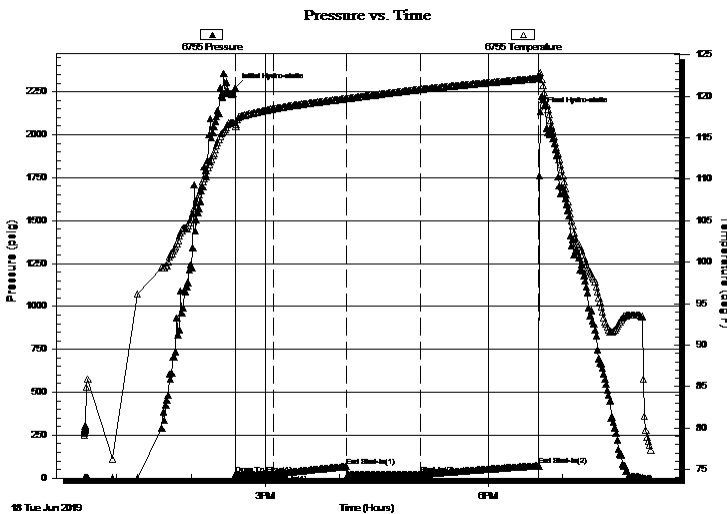
Start Time: 12:34:01 End Time: 20:12:02

Time On Btm: 2019.06.18 @ 14:35:32

Time Off Btm: 2019.06.18 @ 18:42:32

TEST COMMENT: IF 30 Minutes/ Blow built to 3 inches
ISI 60 Minutes/ No blow back
FF 60 Minutes/ Blow built to 2 inches
FSI 90 Minutes/ No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.05	116.81	Initial Hydro-static
1	23.03	116.40	Open To Flow (1)
31	21.91	118.50	Shut-In(1)
90	67.40	119.72	End Shut-In(1)
150	20.91	120.84	Shut-In(2)
246	72.59	122.20	End Shut-In(2)
247	2133.96	122.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w /light oil spot in tool/ M 100%	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Indian Oil Co. Inc
PO Box 209
Medicine Lodge, Kansas
67104+0209
ATTN: Aaron Young

5/30S/13W/Barber
Bell C #3
Job Ticket: 65675 **DST#: 2**
Test Start: 2019.06.18 @ 12:34:00

Mud and Cushion Information

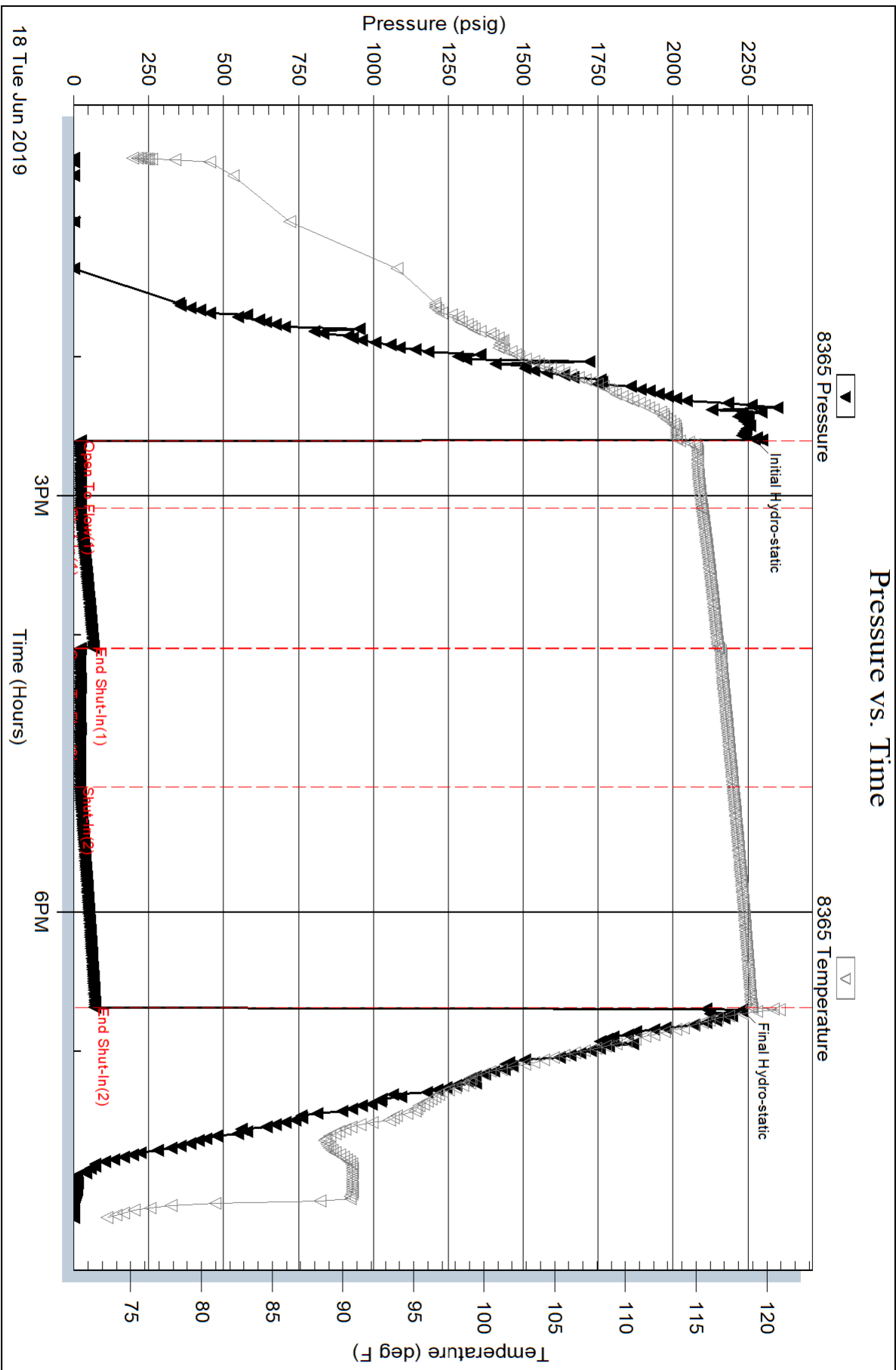
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

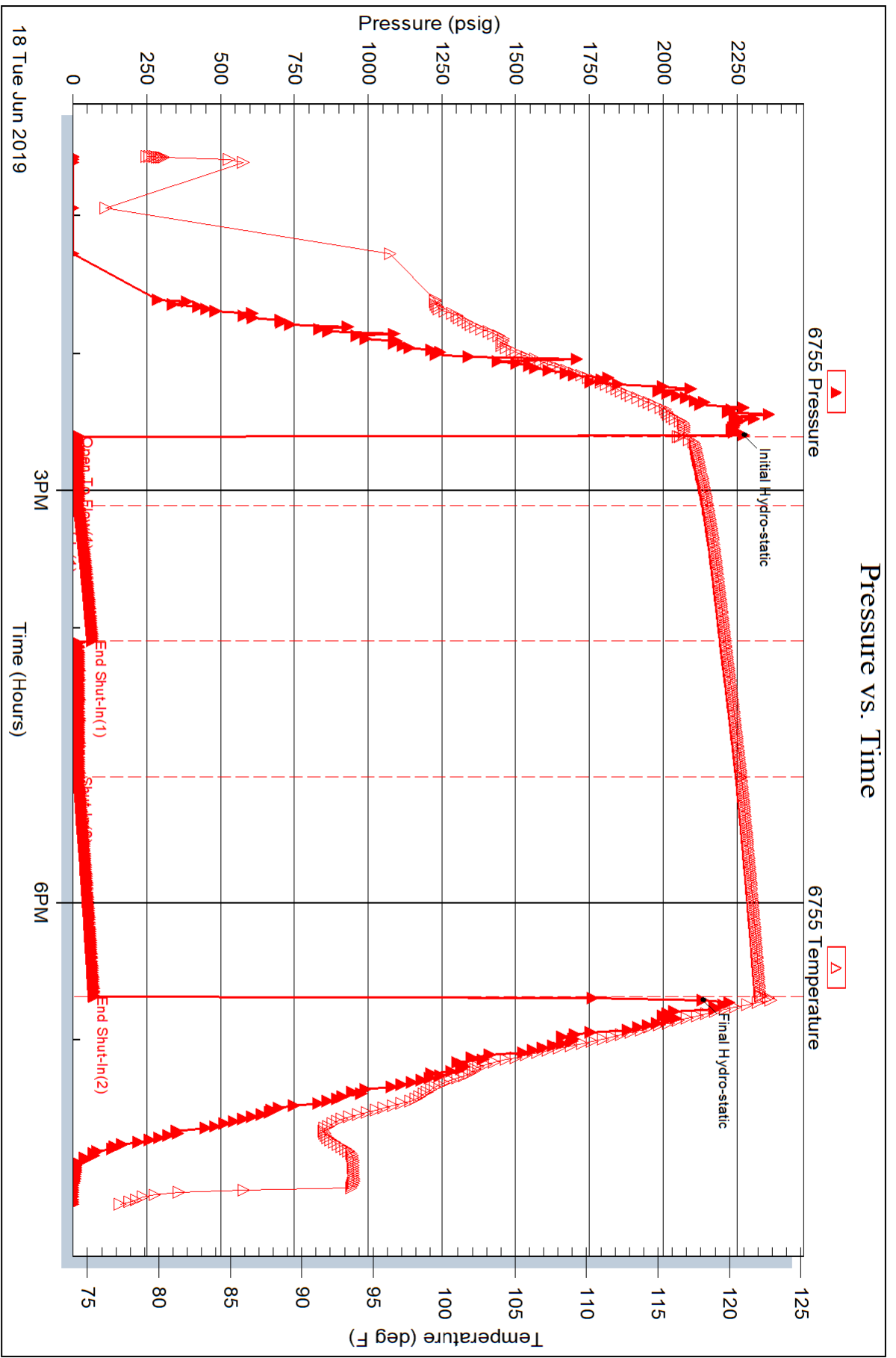
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w /light oil spot in tool/ M 100%	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Indian Oil Co. Inc
PO Box 209
Medicine Lodge, Kansas
67104+0209
ATTN: Aaron Young

5/30S/13W/Barber

Bell C #3

Job Ticket: 66276

DST#: 3

Test Start: 2019.06.19 @ 06:36:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:29:32
 Time Test Ended: 14:44:02
 Interval: **4592.00 ft (KB) To 4648.00 ft (KB) (TVD)**
 Total Depth: 4648.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72 Pratt/ 38
 Reference Elevations: 1943.00 ft (KB)
 1931.00 ft (CF)
 KB to GR/CF: 12.00 ft

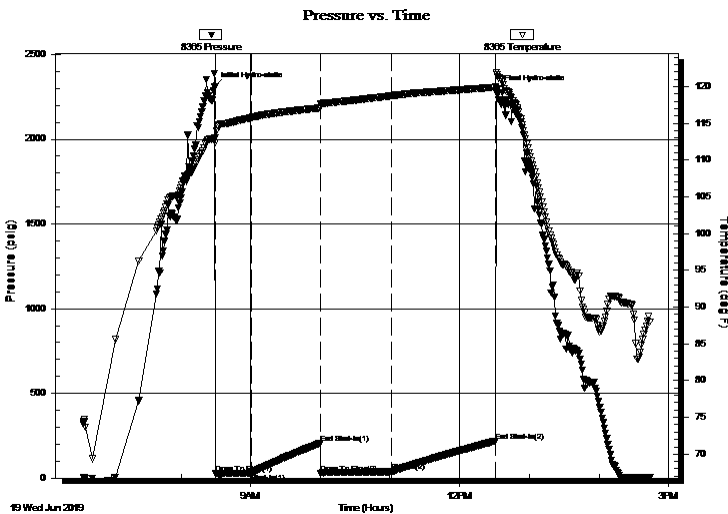
Serial #: 8365

Inside

Press@RunDepth: 37.67 psig @ 4593.00 ft (KB) Capacity: psig
 Start Date: 2019.06.19 End Date: 2019.06.19 Last Calib.: 2019.06.19
 Start Time: 06:36:01 End Time: 14:44:02 Time On Btm: 2019.06.19 @ 08:29:02
 Time Off Btm: 2019.06.19 @ 12:32:17

TEST COMMENT: IF 30 Minutes/ Blow built to 2 1/2 inches
 ISI 60 Mintues/ No blow back
 FF 60 Minutes/ Blow to BOB in 58 minutes
 FSI 90 Minutes/ No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2307.74	112.94	Initial Hydro-static
1	25.55	112.33	Open To Flow (1)
32	30.96	115.78	Shut-In(1)
91	204.21	117.12	End Shut-In(1)
92	29.16	117.58	Open To Flow (2)
153	37.67	118.73	Shut-In(2)
242	219.83	119.93	End Shut-In(2)
244	2296.11	121.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.15
0.00	155 feet GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Indian Oil Co. Inc
 PO Box 209
 Medicine Lodge, Kansas
 67104+0209
 ATTN: Aaron Young

5/30S/13W/Barber

Bell C #3

Job Ticket: 66276

DST#: 3

Test Start: 2019.06.19 @ 06:36:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:29:32
 Time Test Ended: 14:44:02
 Interval: **4592.00 ft (KB) To 4648.00 ft (KB) (TVD)**
 Total Depth: 4648.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72 Pratt/ 38
 Reference Elevations: 1943.00 ft (KB)
 1931.00 ft (CF)
 KB to GR/CF: 12.00 ft

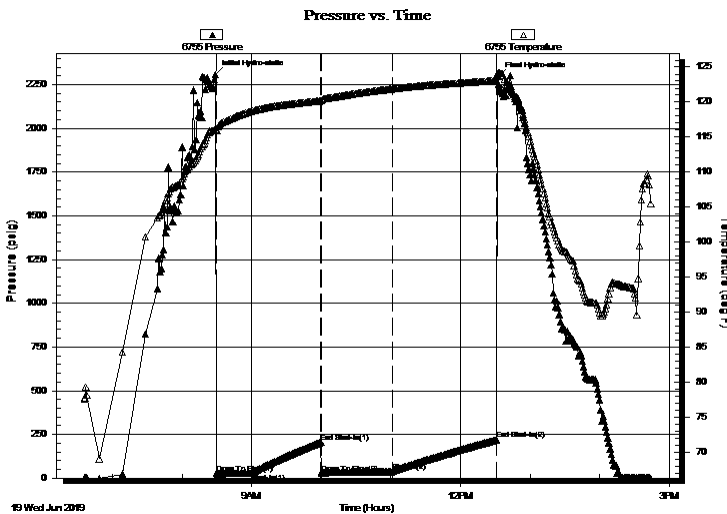
Serial #: 6755

Outside

Press@RunDepth: 219.85 psig @ 4594.00 ft (KB) Capacity: psig
 Start Date: 2019.06.19 End Date: 2019.06.19 Last Calib.: 2019.06.19
 Start Time: 06:36:01 End Time: 14:44:02 Time On Btm: 2019.06.19 @ 08:29:02
 Time Off Btm: 2019.06.19 @ 12:32:17

TEST COMMENT: IF 30 Minutes/ Blow built to 2 1/2 inches
 ISI 60 Minutes/ No blow back
 FF 60 Minutes/ Blow to BOB in 58 minutes
 FSI 90 Minutes/ No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2306.84	116.13	Initial Hydro-static
1	25.83	115.92	Open To Flow (1)
32	29.91	118.71	Shut-In(1)
91	206.20	120.20	End Shut-In(1)
92	29.05	120.24	Open To Flow (2)
152	37.84	121.89	Shut-In(2)
242	219.85	123.11	End Shut-In(2)
244	2296.96	124.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.15
0.00	155 feet GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Indian Oil Co. Inc
PO Box 209
Medicine Lodge, Kansas
67104+0209
ATTN: Aaron Young

5/30S/13W/Barber
Bell C #3
Job Ticket: 66276 **DST#: 3**
Test Start: 2019.06.19 @ 06:36:00

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100%	0.148
0.00	155 feet GIP	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

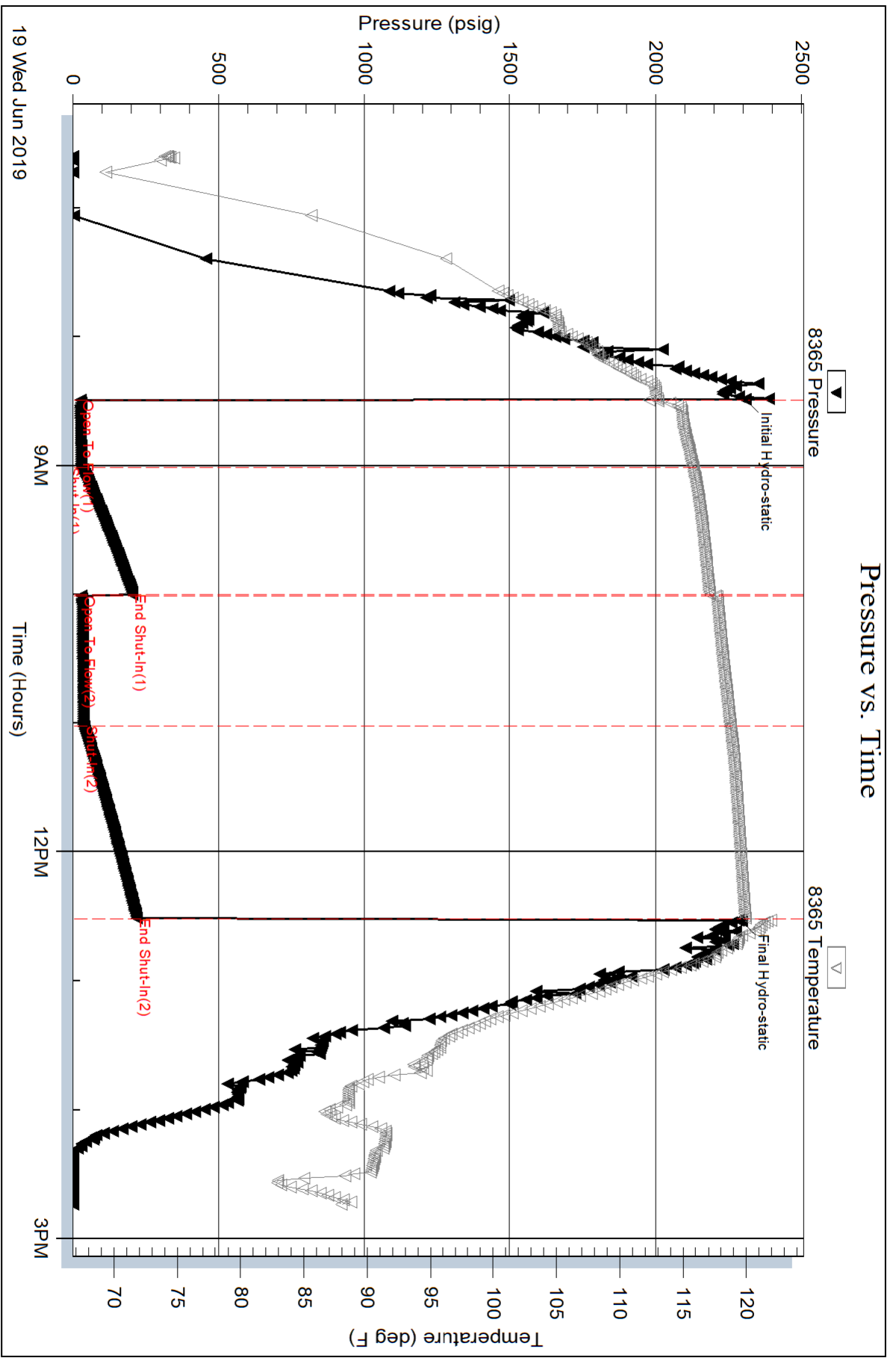
Serial #: 8365

Inside

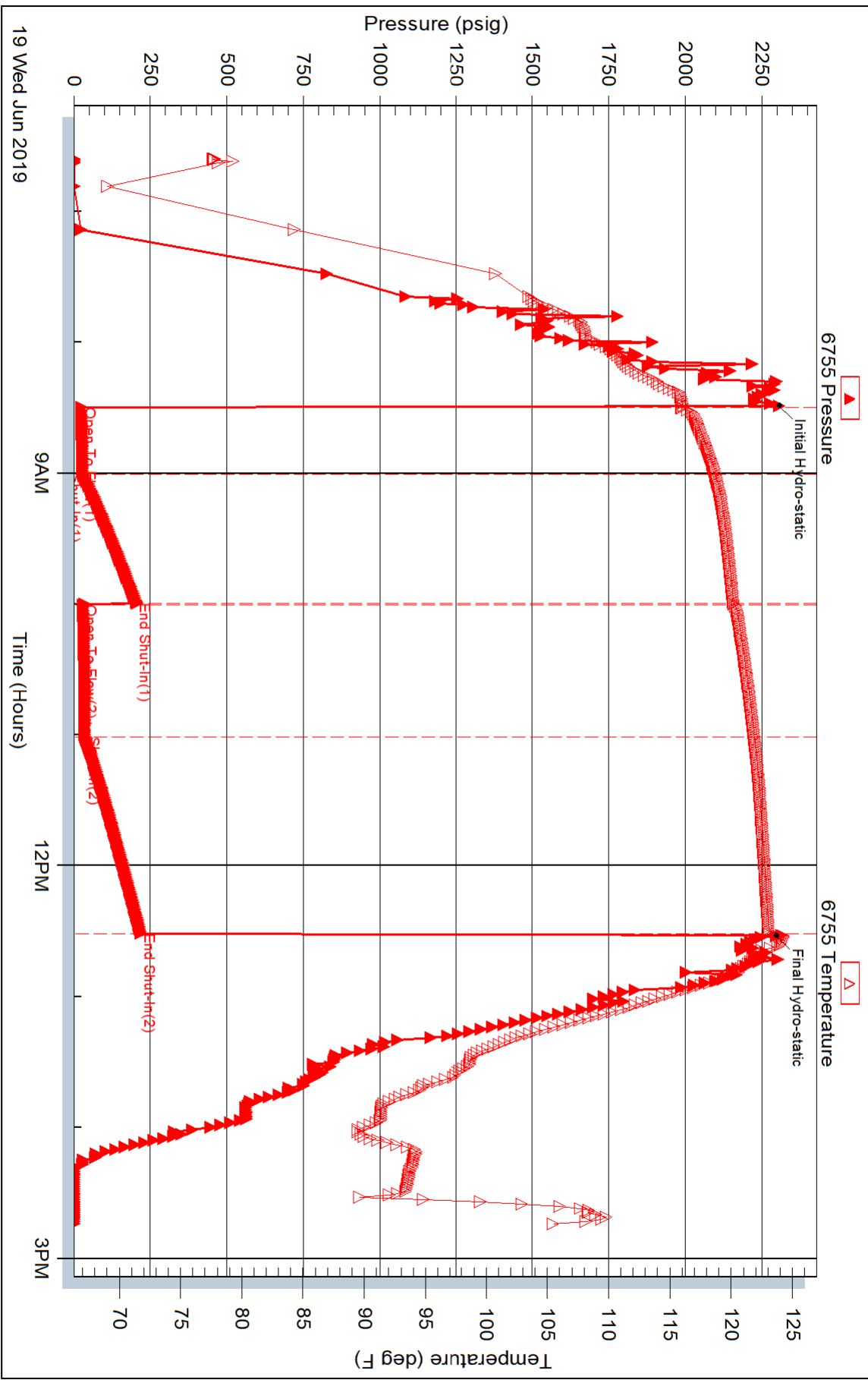
Indian Oil Co. Inc

Bell C#3

DST Test Number: 3



Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Indian Oil Co. Inc
 PO Box 209
 Medicine Lodge, Kansas
 67104+0209
 ATTN: Aaron Young

5/30S/13W/Barber

Bell C #3

Job Ticket: 66277

DST#: 4

Test Start: 2019.06.19 @ 23:43:00

GENERAL INFORMATION:

Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:56:32
 Time Test Ended: 09:14:47
 Interval: **4648.00 ft (KB) To 4690.00 ft (KB) (TVD)**
 Total Depth: 4690.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72 Pratt/ 38
 Reference Elevations: 1943.00 ft (KB)
 1931.00 ft (CF)
 KB to GR/CF: 12.00 ft

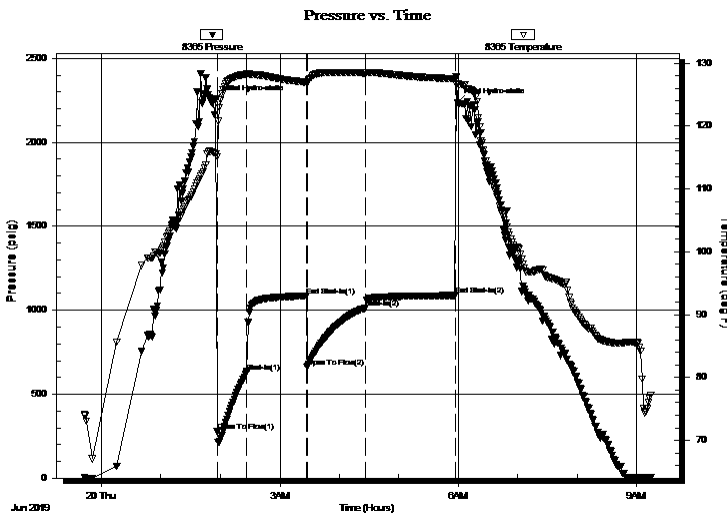
Serial #: 8365

Inside

Press@RunDepth: 1012.18 psig @ 4649.00 ft (KB) Capacity: psig
 Start Date: 2019.06.19 End Date: 2019.06.20 Last Calib.: 2019.06.20
 Start Time: 23:43:01 End Time: 09:14:47 Time On Btm: 2019.06.20 @ 01:55:17
 Time Off Btm: 2019.06.20 @ 05:59:02

TEST COMMENT: IF 30 Minutes/ Blow to BOB in 1 min/ Total build 153 inches
 ISI 60 Minutes/ Blow back to BOB in 35 min
 FF 60 Minutes/ Blow to BOB in 2 1/2 min/ Total build 132 inches
 FSI 90 Minutes/ Blow back to BOB in 49 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2257.67	115.65	Initial Hydro-static
2	276.46	115.12	Open To Flow (1)
32	634.26	128.28	Shut-In(1)
92	1084.69	126.92	End Shut-In(1)
92	662.35	126.70	Open To Flow (2)
152	1012.18	128.43	Shut-In(2)
242	1088.25	127.49	End Shut-In(2)
244	2235.00	126.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1550.00	GSOCMW/ G10% O1% M5% W 84%	20.65
248.00	GOCMW/ G 40% O 10% M10% W40%	3.48
341.00	GOCMW/ G 20% O 10% M10% W60%	4.78
0.00	837 feet GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Indian Oil Co. Inc
 PO Box 209
 Medicine Lodge, Kansas
 67104+0209
 ATTN: Aaron Young

5/30S/13W/Barber

Bell C #3

Job Ticket: 66277

DST#: 4

Test Start: 2019.06.19 @ 23:43:00

GENERAL INFORMATION:

Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:56:32
 Time Test Ended: 09:14:47
 Interval: **4648.00 ft (KB) To 4690.00 ft (KB) (TVD)**
 Total Depth: 4690.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72 Pratt/ 38
 Reference Elevations: 1943.00 ft (KB)
 1931.00 ft (CF)
 KB to GR/CF: 12.00 ft

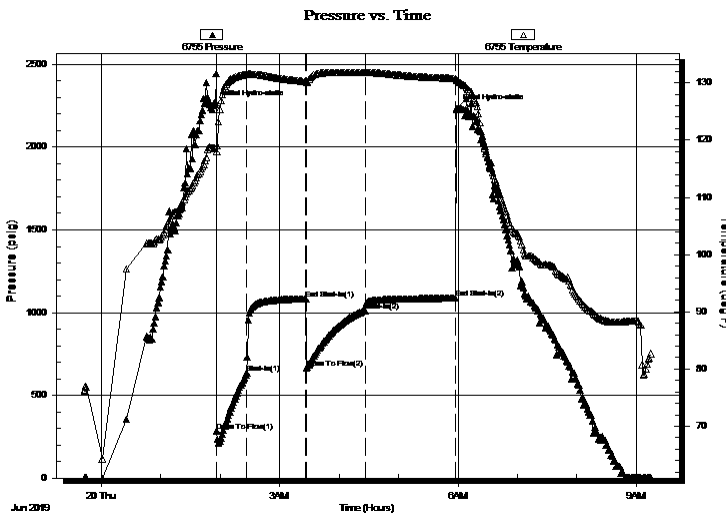
Serial #: 6755

Outside

Press@RunDepth: 1087.38 psig @ 4650.00 ft (KB) Capacity: psig
 Start Date: 2019.06.19 End Date: 2019.06.20 Last Calib.: 2019.06.20
 Start Time: 23:43:01 End Time: 09:14:47 Time On Btm: 2019.06.20 @ 01:55:17
 Time Off Btm: 2019.06.20 @ 05:58:32

TEST COMMENT: IF 30 Minutes/ Blow to BOB in 1 min/ Total build 153 inches
 ISI 60 Minutes/ Blow back to BOB in 35 min
 FF 60 Minutes/ Blow to BOB in 2 1/2 min/ Total build 132 inches
 FSI 90 Minutes/ Blow back to BOB in 49 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2258.30	118.54	Initial Hydro-static
2	282.48	117.97	Open To Flow (1)
32	633.04	131.50	Shut-In(1)
91	1083.49	130.20	End Shut-In(1)
92	663.64	130.11	Open To Flow (2)
152	1011.13	131.74	Shut-In(2)
242	1087.38	130.78	End Shut-In(2)
244	2234.27	130.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1550.00	GSOCMW/ G10% O1% M5% W 84%	20.65
248.00	GOCMW/ G 40% O 10% M10% W40%	3.48
341.00	GOCMW/ G 20% O 10% M10% W60%	4.78
0.00	837 feet GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Indian Oil Co. Inc
PO Box 209
Medicine Lodge, Kansas
67104+0209
ATTN: Aaron Young

5/30S/13W/Barber
Bell C #3
Job Ticket: 66277 **DST#: 4**
Test Start: 2019.06.19 @ 23:43:00

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:	22000 ppm
Viscosity: 68.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

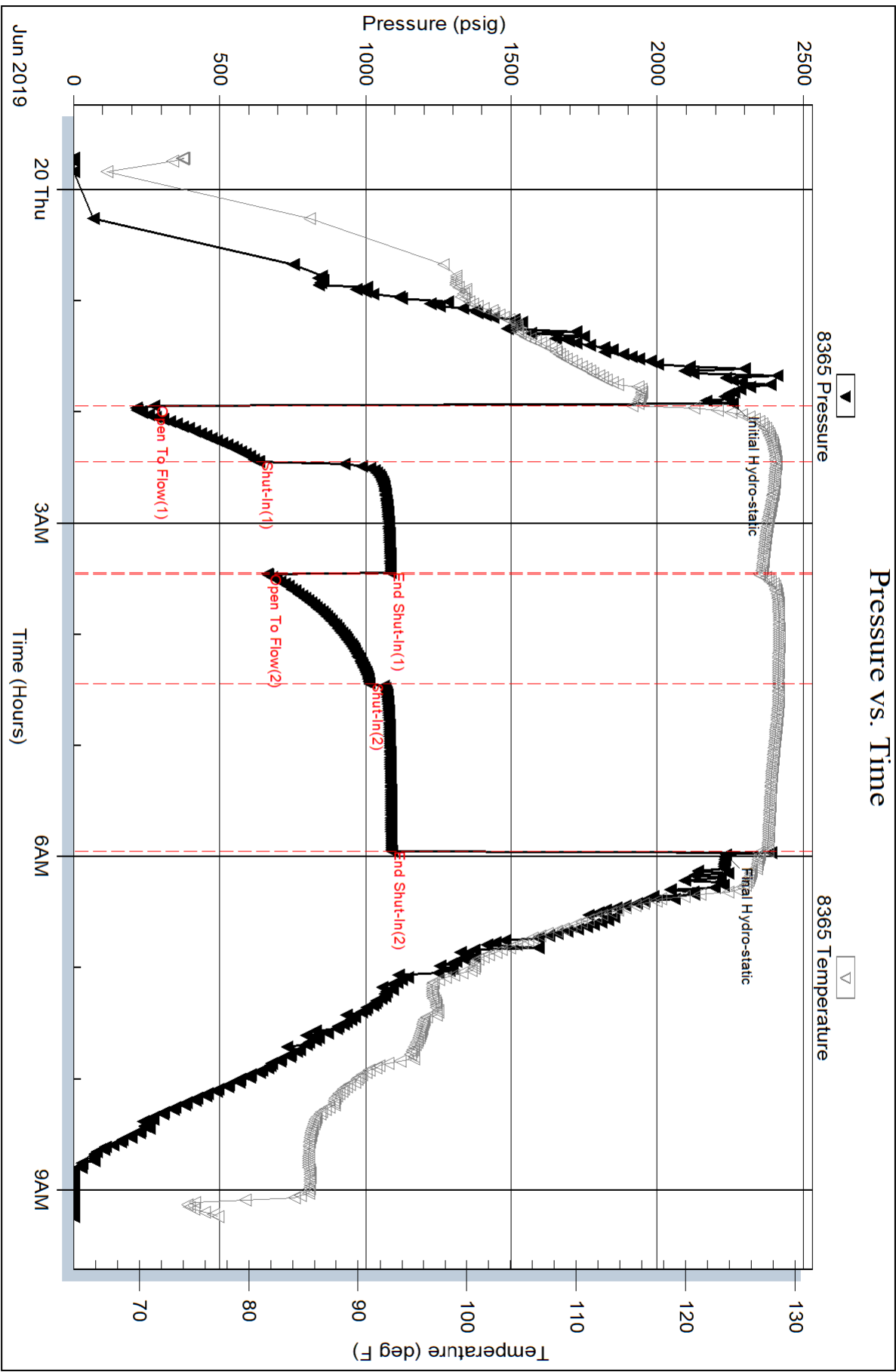
Length ft	Description	Volume bbl
1550.00	GSOCMW/ G10% O1% M5% W 84%	20.649
248.00	GOCMW/ G 40% O 10% M10% W40%	3.479
341.00	GOCMW/ G 20% O 10% M10% W60%	4.783
0.00	837 feet GIP	0.000

Total Length: 2139.00 ft Total Volume: 28.911 bbl

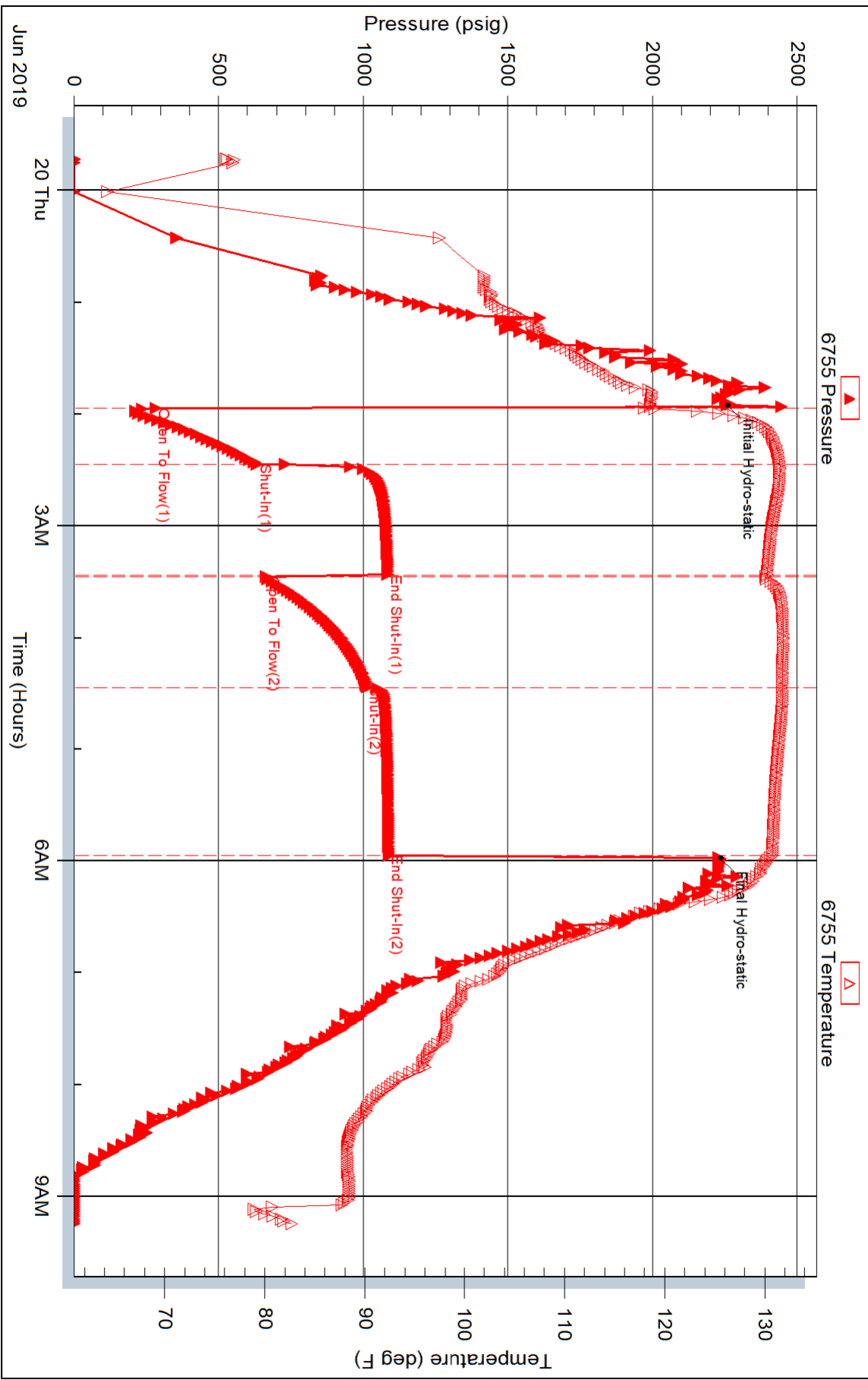
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Recovery Resistivity .245 ohms @ 83 deg



Pressure vs. Time





BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

TTMH
43

FIELD SERVICE TICKET
1718 18051 A

DATE _____ TICKET NO. _____

DATE OF JOB: 6-12-19 DISTRICT: PRATT				NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:					
CUSTOMER: INDIAN OIL COMPANY				LEASE: B-11		WELL NO.: C3			
ADDRESS:				COUNTY: BAIBOO		STATE: KS			
CITY: _____ STATE: _____				SERVICE CREW: MATT McGUIRE TRUING					
AUTHORIZED BY: _____				JOB TYPE: 2-42 13 3/8 5/8					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
* 86779	0.5						6-11		9:00
						ARRIVED AT JOB			10:30
						START OPERATION	6-12		8:30
						FINISH OPERATION			9:00
						RELEASED			10:00
						MILES FROM STATION TO WELL: 20			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *[Signature]*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
B-132	60/40 P22	SK	300		2511 00
CC 109	Calcium chloride	lb	774		278 64
CC 102	CELLULOSIC	lb	75		128 00
M-101	Light Veh Miles	mi	20		36 00
M-102	Heavy eq Miles	mi	40		115 20
CC 1	Depth charge 0-1000'	hr	1		432 00
CC 240	blend + mix	SK	300		151 20
B-143	Supercut	ea	1		75 00
B-144	Drill	ea	2		70 00
SUB TOTAL					10,234 00

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	

SERVICE REPRESENTATIVE: *M. de Mattia*

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____



energy services, L.P.

TREATMENT REPORT

Customer <i>Adrian... Co.</i>	Lease No.	Date <i>6-12-14</i>	
Lease <i>Bell</i>	Well # <i>C-3</i>		
Field Order #	Station <i>Pratt</i>	Casing <i>13 3/8</i>	Depth <i>207'</i>
Type Job <i>2-42 13 3/8</i>	Formation	County <i>OSAGE</i>	State <i>KS</i>
		Legal Description <i>S. 30, 13W</i>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid <i>300 60/100/100/12</i>	RATE	PRESS	ISIP
Depth <i>207'</i>	Depth	From	To	Pre Pad <i>32 1/2"</i>	Max		5 Min.
Volume	Volume	From	To	Pad <i>10 1/2"</i>	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush <i>371</i>	Gas Volume		Total Load

Customer Representative <i>Adrian...</i>	Station Manager <i>WESTERN...</i>	Treater <i>MATT...</i>
Service Units <i>8335</i>	<i>73</i>	<i>8677</i>
Driver Names <i>MTA</i>	<i>M...</i>	<i>T...</i>

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>10:00</i>					<i>On track of summary...</i>
<i>7:00</i>					<i>Run 13 3/8...</i>
<i>8:10</i>					<i>Casing...</i>
<i>8:15</i>					<i>11.00...</i>
<i>8:30</i>	<i>100</i>		<i>65</i>	<i>5</i>	<i>Run...</i>
<i>8:50</i>	<i>150</i>			<i>3</i>	<i>...</i>
<i>9:00</i>	<i>220</i>		<i>37.1</i>		<i>Pre Pad / Summary...</i>
					<i>...</i>
					<i>...</i>
					<i>...</i>
					<i>...</i>
					<i>...</i>
					<i>...</i>
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					<i>...</i>
					<i>...</i>



BASICSM
ENERGY SERVICES

PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 18080 A

Total man hours 45

6-22-19 DATE

TICKET NO.

DATE OF JOB: 6-22-19	DISTRICT: Pratt KS	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER: Indian Oil		LEASE: Bell		WELL NO.:					
ADDRESS:		COUNTY: Barber	STATE: KS						
CITY:		SERVICE CREW: Carl R, Eddie M, Wade B							
AUTHORIZED BY: Anthony Lamm		JOB TYPE: Cement Longstring 242							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED: 6-21-19	DATE: 6-21-19	AM/PM	TIME
84950 (2920)	.75					ARRIVED AT JOB		AM/PM	9:00
19960-19860	-50					START OPERATION	6-22-19	AM/PM	5:55
						FINISH OPERATION		AM/PM	6:45
						RELEASED		AM/PM	7:45
MILES FROM STATION TO WELL									

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Richard R. Boney
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
BC 115	77.2 Premium Cement	SK	152		296
BC 132	60/40 Poz	SK	39		1162
CC 102	cellulose flake	lb	73		136
CC 105	C-40 P	lb	543		292
CC 111	541T	lb	730		421
CC 113	Evilsum	lb	730		130
CC 134	2517	lb	88		2112
CC 201	Bilsmite	lb	930		930
MS 101	light vehicle mileage	mi	20		100
MS 102	heavy equipment mileage	mi	40		320
CE 504	plug container utilization charge	ea	1		250
CE 5	Depth charge 4001 - 5000'	HR	1		2500
CE 240	Blending + mixing charge	SK	205		287
CF 1251	Auto fill float shoe	ea	1		360
CF 607	latch down plug + Baffle	ea	1		400
CF 1901	BASKET	ea	2		580
CF 1651	Turbolizers	ea	10		1100
CC 131	mud flush	Gal	250		375
CC 184	liquid KCL	Gal	5		530
BS 143	Service supervisor charge	ea	1		75
BS 144	Driver charge	ea	2		70

SUB TOTAL 15,696.35

CHEMICAL / ACID DATA:

SERVICE & EQUIPMENT %TAX ON \$
MATERIALS %TAX ON \$

SERVICE REPRESENTATIVE: Carl Bubb

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Richard R. Boney

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

TREATMENT REPORT

Customer: *Energy Services* Lease No.: _____ Date: *6-22-2019*
 Lease: *Ball* Well #: *R-3*
 Field Order #: _____ Station: *Pratt No. 1818* Casing: *5 1/2* Depth: _____ County: *Pratt* State: _____
 Type Job: *5 1/2 Production* Formation: _____ Legal Description: _____

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

Customer Representative: _____ Station Manager: *Tracy Williams* Treater: *Paul Faldin*
 Service Units: _____ Driver Names: _____

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					Arrived at Trucks on location 10:00 am 6/21/2019
					Run 4811 5 1/2 casing
					Fracs were located with Rig
					Drop ball & circulate
					Rig up for cement
			6	4	start 250 rate
			43	4	start 155 x AA-2 cement
					amount in shoe
					wash Rig + Fracs
					Release plug
15			20	5	start Displacement 5000 1 in Bbls
				3 1/2	shut in
	125		90	3 1/2	see shift pressure @ 90 Bbls Displacement
	400		100	3 1/2	shut in
	575		110	2 1/2	shut in
15	1200		113		shut in
					Release pressure + Fracs 11:00
			125		Plug RT + mouse with se @ 10:40 AM