

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	Gulf Exploration, LLC
Well Name	CARPENTER TRUST 1-9
Doc ID	1357421

All Electric Logs Run

Dual Induction Log
Borehole Compensated Sonic Log
Dual Comp Porosity Log
Microresistivity Log

Form	ACO1 - Well Completion
Operator	Gulf Exploration, LLC
Well Name	CARPENTER TRUST 1-9
Doc ID	1357421

Tops

Name	Top	Datum
Howard	3941	-557
Topeka	4011	-627
Oread	4162	-778
Heebner	4187	-803
Lansing	4239	-855
Muncie Creek	4353	-969
Stark Shale	4432	-1048
Base KC	4512	-1128
Marmaton	4525	-1141
Pawnee	4608	-1224
Cherokee	4655	-1281
Mississippian	4857	-1473
Arbuckle	5138	-1754
Reagan Sand	5428	-2044
Pre-Cambrian	5467	-2083
TD	5503	-2119

Form	ACO1 - Well Completion
Operator	Gulf Exploration, LLC
Well Name	CARPENTER TRUST 1-9
Doc ID	1357421

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
3	4708-4711	700 Gal. 15% MCA	4708
3	4722-4725 4727-4730	700 Gal. 15% MCA & 1400 Gal 15% NEFE	4722



Remit To: BJ Services LLC
P.O. Box 733585
DALLAS, TX 75373-3585

Voice: (832) 482-3742
Fax: (832) 482-3738

INVOICE

Invoice Number: 154092
Invoice Date: Feb 25, 2017
Page: 1

Federal Tax I.D.#: 81-1373543

RECEIVED
MAR 31 2017
BY:

Bill To:
GULF EXPLORATION LLC 9701 N. BROADWAY EXT. OKLAHOMA CITY, OK 73114

Customer ID	Field Ticket #	Payment Terms	
GULF EXPLORATION	68266	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS101	Oakley	Feb 20, 2017	3/27/17

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Carpenter Trust 1-9		
1.00	CEMENT SERVICE	Pump Casing Cement 0-500 ft	1,512.25	1,512.25
336.00	CEMENT SERVICE	PHDL	2.48	833.28
465.00	CEMENT SERVICE	DRYG	2.75	1,278.75
30.00	CEMENT SERVICE	MILV	4.40	132.00
30.00	CEMENT SERVICE	MIHV	7.70	231.00
1.00	CEMENT SERVICE	Manifold	275.00	275.00
1.00	EQUIPMENT SALES	AFU Insert	447.00	447.00
1.00	EQUIPMENT SALES	Guide Shoe	460.00	460.00
3.00	EQUIPMENT SALES	Centralizers	75.00	225.00
1.00	EQUIPMENT SALES	Plug 8.625	131.00	131.00
1.00	EQUIPMENT SALES	Lock Ring	49.00	49.00
320.00	CEMENT MATERIALS	Class A Common	17.90	5,728.00
902.00	CEMENT MATERIALS	Calcium Chloride	1.10	992.20
40.00	CEMENT MATERIALS	FlowSeal	2.97	118.80
1.00	JOB DISCOUNT	Job Discount if paid within agreed terms-Cement Services	2,045.89	-2,045.89
1.00	JOB DISCOUNT	Job Discount if paid within agreed terms-Equipment	629.76	-629.76
1.00	JOB DISCOUNT	Job Discount if paid within agreed terms-Materials	3,282.72	-3,282.72
1.00	E-RYAN.ALAN	SERVICE SUPERVISOR		
1.00	E-RYAN.KEVIN	EQUIPMENT OPERATOR		
1.00	E-BROWN.CORY	MECHANIC		

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE <div style="border: 1px solid black; padding: 2px; display: inline-block;"> Mar 27, 2017 </div> 1 1/2% CHARGED THEREAFTER.	Subtotal	6,454.91
	Sales Tax	317.89
	Total Invoice Amount	6,772.80
	Payment/Credit Applied	
	TOTAL	6,772.80



Cement Service
Tax ID 81-1373543

20030
68266

SERVICE POINT:

W. Highway 14

DATE <i>2/20/17</i>	SEC <i>9</i>	TWP. <i>7</i>	RANGE <i>36</i>	CALLED OUT	ON LOCATION	JOB START <i>12:30 PM</i>	JOB FINISH <i>1:00 PM</i>
LEASE # <i>146281</i>	TASWELL # <i>1-9</i>	LOCATION <i>Brewster N 70 Rd V ETO 203</i>	COUNTY <i>Pharos</i>	STATE <i>IA</i>			
OLD OR NEW (Circle one)			<i>174 N E. 200</i>				

CONTRACTOR *Manito 7*
 TYPE OF JOB *Surface*
 HOLE SIZE *17" ID*
 CASING SIZE *8" ID*
 TUBING SIZE
 DRILL PIPE
 TOOL
 PRES. MAX
 MEAS. LINE
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT

OWNER *Sam*
 CEMENT
 AMOUNT ORDERED *220 lbm 300cc*
 COMMON *220 414 @ 12.00 5220.00*
 POZMIX
 GEL
 CHLORIDE *902 lb @ 1.20 992.40*
 ASC
 Flo Seal *4016 @ 2.22 118.82*

EQUIPMENT
 PUMP TRUCK CEMENTER *Alan Ryan*
 # *546281* HELPER *Kevin Ryan*
 BULK TRUCK
 # *830-28* DRIVER *Conroy Brown*
 BULK TRUCK
 # DRIVER

TOTAL *6,239.00*

DISCOUNT *48% 3,022.72*

REMARKS:

Drill Hole, Cement, Displacement, Replace Cement

Shut in
Cement Add Circlets 15 BBL
70 PSI
Thank You
Alan Ryan

SERVICE

HANDLING *330 15 @ 2.10 693.00*
 MILEAGE *23 miles @ 15.5 702.50*
 DEPTH OF JOB
 PUMP TRUCK CHARGE *1512.25*
 EXTRA FOOTAGE
 HV MILEAGE *30 @ 2.20 66.00*
 LV MILEAGE *30 @ 4.40 132.00*
Head o Mini Field @ 225.00

TOTAL *4,222.28*

DISCOUNT *48% 2,045.29*

CHARGE TO *Can/F Exp.*
 STREET
 CITY STATE ZIP

used 3 containers per CO. Min

PLUG & FLOAT EQUIPMENT

2 1/2" 131.00
 Contact wires *2 @ 75 150.00*
 Well log *1 @ 49 49.00*
 Tracer *@ 447.00*
 Guide Wire *@ 461.00*

TOTAL *1312.00*

DISCOUNT *48% 629.76*

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

PRINTED NAME *Danny Johnson*

SIGNATURE *Danny Johnson*

SALES TAX (If Any)
 TOTAL CHARGES *12,413.28*
 DISCOUNT *5,958.37 (48%)* IF PAID IN 30 DAYS
 NET TOTAL *6,454.90* IF PAID IN 30 DAYS

Operator Name: Gulf Exploration, LLC
 Well Name: Carpenter Trust 1-9
 January 30, 2017



Cost Estimate

8 5/8 " Surface

Operations	Qty	UoM	Unit Price	Total	Net Price
PUMP, CASING CEMENT 0-500 FT	1.00	min. 4 hr	\$1,512.25	\$1,512.25	\$786.37
CEMENTING HEAD RENTAL WITH MANIFOLD AND SWEDGE	1.00	per day	\$275.00	\$275.00	\$143.00
Subtotal:				\$1,787.25	\$929.37
Equipment Sales					
guide shoe	1.00	each	\$460.00	\$460.00	\$239.20
AFU Insert Float Valve	1.00	each	\$447.00	\$447.00	\$232.44
Centralizer	3.00	each	\$75.00	\$225.00	\$117.00
Subtotal:				\$1,132.00	\$588.64
Products					
CLASS A COMMON	210	sack	\$17.90	\$3,759.00	\$1,954.68
CALCIUM CHLORIDE, PELLETS OR FLAKE	593	pound	\$1.10	\$652.30	\$339.20
CELLOPHANE FLAKES	27	pound	\$2.97	\$80.19	\$41.70
Subtotal:				\$4,491.49	\$2,335.57
Transport					
Products handling service charge	224.00	per cu. Ft.	\$2.48	\$555.52	\$288.87
Drayage for Products	306.00	ton-mile	\$2.75	\$841.50	\$437.58
Light Vehicle Mileage	30.00	per mile	\$4.40	\$132.00	\$68.64
Heavy Vehicle Mileage	30.00	per mile	\$7.70	\$231.00	\$120.12
Subtotal:				\$1,760.02	\$915.21
TOTAL INVOICE EXCLUDING ADDITIONAL ITEMS				\$9,170.76	\$4,768.80

Additional Items	Qty	UoM	Unit Price	Total	Net Price
Additional hours, in excess of set hours	1.00	per hour	\$ 440.00	\$ 440.00	\$ 228.80
Subtotal:				\$ 440.00	\$ 228.80

The data contained in this proposal is based on the best information available at the time of writing and is subject to further analysis and testing. The prices contained in this proposal are estimates and may vary depending on the work actually performed. Pricing does not include federal, state and local taxes or royalties. This quotation is based on being awarded the work on a first call basis and may be subject to change for second or third call. This quotation is valid for thirty (30) days after listed proposal date, and may be subject to change if the work is performed more than thirty (30) days after the listed proposal date.

TERMS and CONDITIONS

Allied Oil and Gas Services' performance of services and sale of materials is expressly conditioned upon the applicability of the Terms and Conditions listed on the service ticket provided at the job site. The Terms and Conditions include, among other things, an indemnity in favor of Allied Oil and Gas Services from Customer for damage to the well bore, reservoir damage, loss of the hole, blowouts and loss of control of the well, even if caused by the negligence or other fault of Allied Oil and Gas Services. The Terms and Conditions also limit the warranties provided by Allied Oil and Gas Services and the remedies to which Customer may be entitled in the event of a breach of warranty by Allied Oil and Gas Services. For these reasons, we strongly recommend that you carefully review a copy of the Terms and Conditions.

By requesting that Allied Oil and Gas Services perform the services described herein, Customer acknowledges that such Terms and Conditions are applicable to the services. Further, by requesting the services, Customer warrants that its representative on the well location or other service site will be fully authorized to acknowledge such Terms and Conditions by executing a service ticket or other document presented by Allied Oil and Gas Services containing such Terms and Conditions.

In the event that Customer and Allied Oil and Gas Services have executed a Master Services Agreement covering the work to be performed, such Master Services Agreement shall govern in place of the Terms and Conditions.



Remit To: BJ Services LLC
P.O. Box 733585
DALLAS, TX 75373-3585

INVOICE

Invoice Number: 154127
Invoice Date: Mar 4, 2017
Page: 1

Federal Tax I.D.#: 81-1373585

RECEIVED
APR 3 - 2017
BY:

Voice: (832) 482-3742
Fax: (832) 482-3738

Bill To:
GULF EXPLORATION LLC 9701 N. BROADWAY EXT. OKLAHOMA CITY, OK 73114

Customer ID	Field Ticket #	Payment Terms	
GULF EXPLORATION	68285	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS102	Oakley	Mar 4, 2017	4/3/17

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Carpenter Trust 1-9		
1.00	CEMENT SERVICE	Pump Tubing/SQZ Cement 501-1000 ft	2,765.75	2,765.75
1.00	CEMENT SERVICE	Pump Truck Charge	2,406.25	2,406.25
819.00	CEMENT SERVICE	PHDL	2.48	2,031.12
1,750.00	CEMENT SERVICE	DRYG	2.75	4,812.50
50.00	CEMENT SERVICE	MILV	4.40	220.00
50.00	CEMENT SERVICE	MIHV	7.70	385.00
1.00	EQUIPMENT SALES	AFFS 5.5	545.00	545.00
1.00	EQUIPMENT SALES	LBP 5.5	660.00	660.00
1.00	EQUIPMENT SALES	SC 5.5	5,335.00	5,335.00
2.00	EQUIPMENT SALES	CB 5.5	395.00	790.00
1.00	EQUIPMENT SALES	CSC-5.50	49.00	49.00
1.00	EQUIPMENT SALES	TLK 5.5	85.00	85.00
7.00	EQUIPMENT SALES	Turbolizers	95.00	665.00
140.00	CEMENT MATERIALS	ASC	23.50	3,290.00
20.00	CEMENT MATERIALS	HVS	58.70	1,174.00
20.00	CEMENT MATERIALS	Mud Cleanse	41.09	821.80
5.00	CEMENT MATERIALS	CCC PRO	34.40	172.00
700.00	CEMENT MATERIALS	KOL Seal	0.98	686.00
66.00	CEMENT MATERIALS	Fluid Loss Additive	23.10	1,524.60
28.00	CEMENT MATERIALS	Defoamer	3.50	98.00

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE <div style="border: 1px solid black; padding: 2px; display: inline-block;"> Apr 3, 2017 </div> 1 1/2% CHARGED THEREAFTER.	Subtotal	Continued
	Sales Tax	Continued
	Total Invoice Amount	Continued
	Payment/Credit Applied	Continued
	TOTAL	Continued



Remit To: BJ Services LLC
P.O. Box 733585
DALLAS, TX 75373-3585

INVOICE

Invoice Number: 154127
Invoice Date: Mar 4, 2017
Page: 2

Voice: (832) 482-3742
Fax: (832) 482-3738

Federal Tax I.D.#: 81-1373543

Bill To:
GULF EXPLORATION LLC 9701 N. BROADWAY EXT. OKLAHOMA CITY, OK 73114

Customer ID	Field Ticket #	Payment Terms	
GULF EXPLORATION	68285	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS102	Oakley	Mar 4, 2017	4/3/17

Quantity	Item	Description	Unit Price	Amount
600.00	CEMENT MATERIALS	FloSeal	18.92	11,352.00
1.00	JOB DISCOUNT	Job Discount if paid within agreed terms-Cement Services	6,057.89	-6,057.89
1.00	JOB DISCOUNT	Job Discount if paid within agreed terms-Equipment	3,901.92	-3,901.92
1.00	JOB DISCOUNT	Job Discount if paid within agreed terms-Materials	9,176.83	-9,176.83
1.00	E-FORSLUND.MERRELL	SERVICE SUPERVISOR		
1.00	E-RYAN.KEVIN	EQUIPMENT OPERATOR		
1.00	E-RYAN.ALAN	SERVICE SUPERVISOR		
1.00	E-MITTEN.JADE	EQUIPMENT OPERATOR		

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE <div style="border: 1px solid black; padding: 2px; display: inline-block;"> Apr 3, 2017 </div> 1 1/2% CHARGED THEREAFTER.	Subtotal	20,731.38
	Sales Tax	1,062.65
	Total Invoice Amount	21,794.03
	Payment/Credit Applied	
	TOTAL	21,794.03



Cement Service

Remit to: BJ Services LLC P.O. Box 733585 Dallas, TX 75373-3585

68285

Tax ID 81-1373543

SERVICE POINT:

Ogale

Table with columns: DATE, SEC, TWP, RANGE, CALLED OUT, ON LOCATION, JOB START, JOB FINISH, LEASE, WELL #, LOCATION, COUNTY, STATE, OLD OR NEW (Circle one)

Table with columns: CONTRACTOR, TYPE OF JOB, HOLE SIZE, CASING SIZE, TUBING SIZE, DRILL PIPE, TOOL, PRES. MAX, MEAS. LINE, CEMENT LEFT IN CSG., PERFS., DISPLACEMENT

Table with columns: OWNER, CEMENT, AMOUNT ORDERED, Hivis sweep, 140 sks ASC, 15% Fluid loss, 2" Defoamer, 5 gal, 1000 sks 20/40 4% gel, COMMON, POZMIX, GEL, CHLORIDE, ASC, mud clean, Hivis sweep, Depra 5 gal, Fluid loss, Kd-seal, DeFoamer, 20#, 20/40 4% gel

Table with columns: EQUIPMENT, PUMP TRUCK, BULK TRUCK, BULK TRUCK

TOTAL 19,118.00 DISCOUNT 48% 9,176.83

REMARKS:

Pump 20 BBL mud clean 20 BBL Hivis sweep 140 sks ASC, wash pump and line clean, Displace plug, 1000# LIFT land plug, 1400# float hole, open DV tool, plug mouse hole 15 sks rat hole 30 sks, mix 555 sks down 5/2 casing, wash pump and line clean Release plug and displace 20 BBL out Cement started circulating 40 BBL out with circulation cellar stayed full 1000# LIFT 2000# land plug cement did circulate

CHARGE TO: Gulf exploration STREET CITY STATE ZIP

SERVICE

Table with columns: HANDLING, MILEAGE, DEPTH OF JOB, PUMP TRUCK CHARGE, EXTRA FOOTAGE, HV MILEAGE, LV MILEAGE, TOTAL, DISCOUNT

PLUG & FLOAT EQUIPMENT

Table with columns: 5/2, 1 Alfa float shoe, 1 Latchdown plug Assy, 1 DV tool, 2 Baskets, 2 Turbulizers, 1 Limit camp, 1 box thread lock, TOTAL, DISCOUNT

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

PRINTED NAME Danny Johnston SIGNATURE

SALES TAX (if Any) TOTAL CHARGES 39,868.02 DISCOUNT 19,136.64 (48%) IF PAID IN 30 DAYS NET TOTAL 20,731.37 IF PAID IN 30 DAYS

Operator Name: Gulf Exploration
 Well Name: Carpenter Trust 1-9
 January 30, 2017

Cost Estimate

5 1/2 " Production

Operations	Qty	UoM	Unit Price	Total	Net Price
PUMP, CASING CEMENT 4001-5000 FT	1.00	mln. 4 hr	\$2,765.75	\$2,765.75	\$1,327.56
MULTIPLE STAGE CEMENTING - ADDITIONAL STAGE	1.00	per stage	\$2,406.25	\$2,406.25	\$1,155.00
			Subtotal:	\$5,172.00	\$2,482.56
Equipment Sales					
Latch Down Plug	1.00	each	\$660.00	\$660.00	\$316.80
AFU Flapper Float Shoe	1.00	each	\$545.00	\$545.00	\$261.60
Cement Basket	2.00	each	\$395.00	\$790.00	\$379.20
Turbolizer	12.00	each	\$95.00	\$1,140.00	\$547.20
Stage Collar Standard	1.00	each	\$5,335.00	\$5,335.00	\$2,560.80
Thread Lock	1.00	each	\$85.00	\$85.00	\$40.80
			Subtotal:	\$8,555.00	\$4,106.40
Products					
MUD CLEAN	20	bbl	\$41.09	\$821.80	\$394.46
HIVIS SWEEP	20	bbl	\$58.70	\$1,174.00	\$563.52
ALLIED SPECIAL BLEND CEMENT - CLASS A	140	sack	\$23.50	\$3,290.00	\$1,579.20
FLUID LOSS ADDITIVE - LOW DENSITY SLURRIES CFL-330	66	pound	\$23.10	\$1,524.60	\$731.81
KOL-SEAL	700	pound	\$0.98	\$686.00	\$329.28
DEFOAMER - POWDER CDF-100P	28	pound	\$3.50	\$98.00	\$47.04
ALLIED 40/60/4 POZ BLEND - CLASS A	375	sack	\$18.92	\$7,095.00	\$3,405.60
ALLIED 40/60/4 POZ BLEND - CLASS A	45	sack	\$18.92	\$851.40	\$408.67
			Subtotal:	\$15,540.80	\$7,459.58
Transport					
Products handling service charge	629.00	per cu. Ft.	\$2.48	\$1,559.92	\$748.76
Drayage for Products	1334.00	ton-mile	\$2.75	\$3,668.50	\$1,760.88
Light Vehicle Mileage	50.00	per mile	\$4.40	\$220.00	\$105.60
Heavy Vehicle Mileage	50.00	per mile	\$7.70	\$385.00	\$184.80
			Subtotal:	\$5,833.42	\$2,800.04

TOTAL INVOICE EXCLUDING ADDITIONAL ITEMS		\$35,101.22	\$16,848.59
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Additional Items	Qty	UoM	Unit Price	Total	Net Price
Additional hours, in excess of set hours	1.00	per hour	\$ 440.00	\$ 440.00	\$ 211.20
			Subtotal:	\$ 440.00	\$ 211.20

The data contained in this proposal is based on the best information available at the time of writing and is subject to further analysis and testing. The prices contained in this proposal are estimates and may vary depending on the work actually performed. Pricing does not include federal, state and local taxes or royalties. This quotation is based on being awarded the work on a first call basis and may be subject to change for second or third call. This quotation is valid for thirty (30) days after listed proposal date, and may be subject to change if the work is performed more than thirty (30) days after the listed proposal date.

TERMS and CONDITIONS

Allied OFS' performance of services and sale of materials is expressly conditioned upon the applicability of the Terms and Conditions listed on the service ticket provided at the job site. The Terms and Conditions include, among other things, an indemnity in favor of Allied OFS from Customer for damage to the well bore, reservoir damage, loss of the hole, blowouts and loss of control of the well, even if caused by the negligence or other fault of Allied OFS. The Terms and Conditions also limit the warranties provided by Allied OFS and the remedies to which Customer may be entitled in the event of a breach of warranty by Allied OFS. For these reasons, we strongly recommend that you carefully review a copy of the Terms and Conditions.

By requesting that Allied OFS perform the services described herein, Customer acknowledges that such Terms and Conditions are applicable to the services. Further, by requesting the services, Customer warrants that its representative on the well location or other service site will be fully authorized to acknowledge such Terms and Conditions by executing a service ticket or other document presented by Allied OFS containing such Terms and Conditions.

In the event that Customer and Allied OFS have executed a Master Services Agreement covering the work to be performed, such Master Services Agreement shall govern in place of the Terms and Conditions.



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept: 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE

P.O. Box 884
Chanute, KS 66720
620/431-9210, 1-800/467-8676
Fax 620/431-0012

Invoice

Invoice#

809948

Invoice Date: 03/29/17

Terms: Net 30

Page 1

GULF EXPLORATION, LLC
9701 N Broadway Ext
Oklahoma City OK 73114
USA
405-840-3371

CARPENTER TRUST 1-9

RECEIVED
APR 3 - 2017

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0451	Cement Pump Charge 1501' - 3000'	1.000	1,900.0000	30.000	1,330.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	30.000	150.15
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	30.000	462.00
CC5800A	Class A Cement - Sack	100.000	20.0000	30.000	1,400.00
CC5326	Sodium Chloride, Salt	434.000	1.0000	30.000	303.80
CE1163	Squeeze Manifold	1.000	400.0000	30.000	280.00
Subtotal					5,608.50
Discounted Amount					1,682.55
SubTotal After Discount					3,925.95
Amount Due 5,791.05 If paid after 04/28/17					
Tax:					127.79
Total:					4,053.74

BARTLESVILLE, OK
018/338-0808

EL DORADO, KS
318/322-7022

EUREKA, KS
620/583-7664

PONCA CITY, OK
880/762-2303

OAKLEY, KS
785/872-8822

OTTAWA, KS
785/242-4044

THAYER, KS
620/839-5263

GILLETTE, WY
307/668-4914

CUSHING, OK
918/225-2650



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

TICKET NUMBER 51724
LOCATION De Clef KS
FOREMAN Jerry

Invoice # 801948 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-28-17	3140	Compadre-Trust 1-9	9	175	36 W	Thomas
CUSTOMER		Gulf Exp.		Brewster N to V E to 3 1/2 N E. 24		
MAILING ADDRESS		9701 N. Broadway Ext.		TRUCK #	DRIVER	TRUCK #
CITY		STATE	ZIP CODE	731	Cory D	565
Oklahoma City		OK	73114	565	Travis W	

JOB TYPE Squeeze HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT 5 1/2
 CASING DEPTH _____ DRILL PIPE _____ TUBING 2 7/8 OTHER packer @ 4641
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sb _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 26.87 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & run upon Alliance Well Service lead hole 34661 press to 500' taking rate 3 1/2 bbl/hr @ 1000' mix 100 sks com 10% salt - sbt down wash pump line stage & press to 1800' released back & drilled up released clean with 5 bbl first write pull 20' ends & press back to 500' & station

*Thank you
Jerry & crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE23451	1	PUMP CHARGE	1900 ⁰⁰	1900 ⁰⁰
CE0002	30	MILEAGE	7.3	219.00
CE0711	4.7	don mileage deduction	660 ⁰⁰	660 ⁰⁰
CE5800A	100 sks	class A	20 ⁰⁰	2000 ⁰⁰
CE5326	431 #	salt	4.34 ⁰⁰	4394 ⁰⁰
CE1163	1	squeeze manifold	400 ⁰⁰	400 ⁰⁰
			subtotal	5609 ⁰⁰
			308	1682 ⁰⁰
			subtotal	3925 ⁰⁰
			SALES TAX	127.79
			ESTIMATED TOTAL	4053.79

Rayn 3737 AUTHORIZATION [Signature] TITLE SUP. DATE 3-28-17

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

OPERATOR

Company: Gulf Exploration, LLC
 Address: 9701 N. Broadway Extension
 Oklahoma City, OK 73114

Contact Geologist: Frank Thompson
 Contact Phone Nbr: 405-840-3371
 Well Name: Carpenter Trust #1-9
 Location: Sec. 9 - T7S - R36W
 API: 15-193-20987-0000
 Pool:
 State: Kansas

Field: Wildcat
 Country: USA

Scale 1:240 Imperial

Well Name: Carpenter Trust #1-9
 Surface Location: Sec. 9 - T7S - R36W
 Bottom Location:
 API: 15-193-20987-0000
 License Number: 35147
 Spud Date: 2/21/2017 Time: 6:00 PM
 Region: Thomas County
 Drilling Completed: 3/3/2017 Time: 9:15 AM
 Surface Coordinates: 2340' FNL & 2466' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 3379.00ft
 K.B. Elevation: 3384.00ft
 Logged Interval: 3600.00ft To: 5500.00ft
 Total Depth: 0.00ft
 Formation: Pre-Cambrian
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 Latitude:
 N/S Co-ord: 2340' FNL
 E/W Co-ord: 2466' FEL

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530

Phone Nbr: 620-617-4091
 Logged By: KLG #136

Name: Keith Reavis

CONTRACTOR

Contractor: Murfin Drilling Company
 Rig #: 7
 Rig Type: mud rotary
 Spud Date: 2/21/2017 Time: 6:00 PM
 TD Date: 3/3/2017 Time: 9:15 AM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 3384.00ft Ground Elevation: 3379.00ft
 K.B. to Ground: 5.00ft

NOTES

Due to positive results of DST #5 and DST #7, the operator ran 5 1/2" production casing to further test the Cherokee and Pawnee through perforations and stimulation.

The samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in

Wichita KS.

Respectfully submitted,
Keith Reavis

Drill Stem Test #1



Hoisington, Kansas

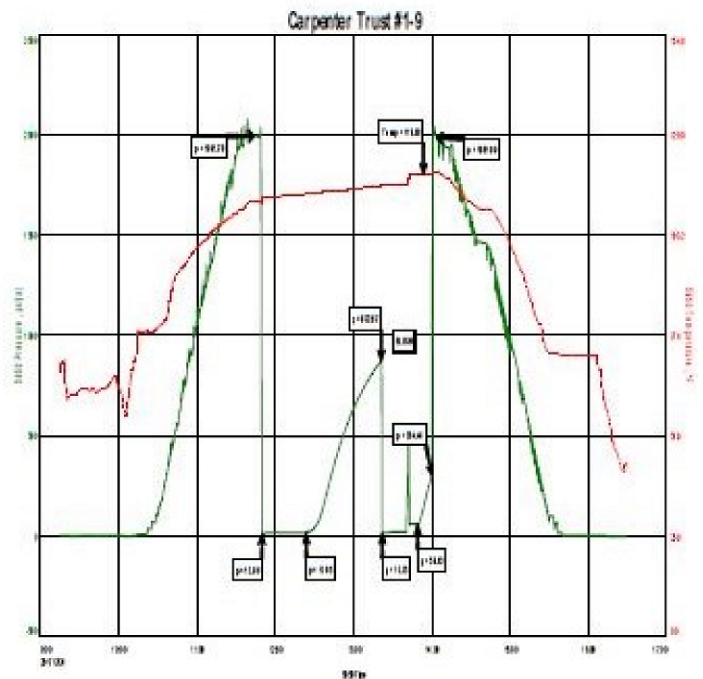
Michael Carroll
620-617-0368
carroll.dtlc@gmail.com

General Information

Company Name Gulf Exploration LLC

Contact	Pat McGraw
Well Name	Carpenter Trust #1-9
Unique Well ID	Dst #1 Topeka/Lans A 4182-4248'
Surface Location	Sec 9-7s-36w Thomas County
Field	Wildcat
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	Gulf Exploration LLC

Formation	Dst #1 Topeka/Lans A 4182-4248'
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Start Test Date	2017/02/24
Start Test Time	09:15:00
Final Test Time	16:30:00
Job Number	P0165
Report Date	2017/02/24
Prepared By	Michael Carroll



TEST RECOVERY

Remarks	Recovery:	75'	Mud	100%M
	Total Fluid:	75'		
	Sampler Recovery:	4000 ML	Mud	
	PSI:	200		

Drill Stem Test #2



Hoisington, Kansas

Michael Carroll
620-617-0368
carroll.dtlc@gmail.com

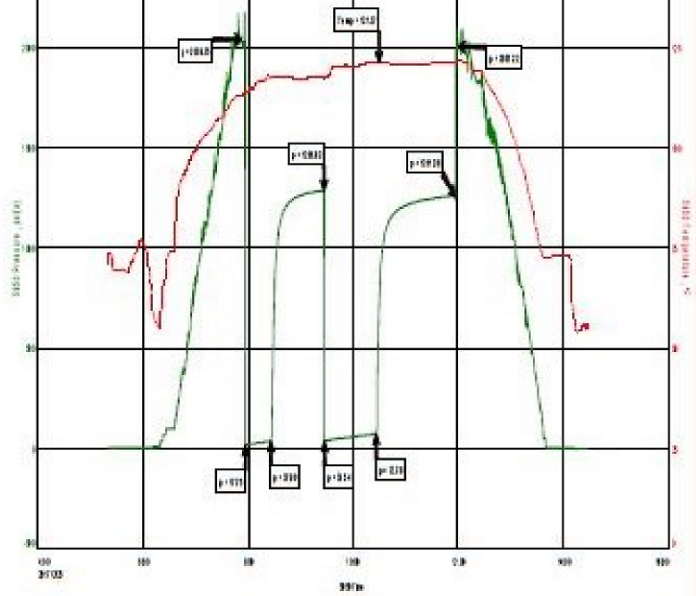


General Information

Company Name Gulf Exploration LLC

Contact Pat McGraw
 Well Name Carpenter Trust #1-9
 Unique Well ID Dst #2 Lans C-F 4248-4320'
 Surface Location Sec 9-7s-36w Thomas County
 Field Wildcat
 Well Type Vertical
 Test Type Drill Stem Test
 Well Operator Gulf Exploration LLC

Formation Dst #2 Lans C-F 4248-4320'
 Well Fluid Type 06 Water
 Test Purpose Initial Test
 Start Test Date 2017/02/25
 Start Test Time 05:20:00
 Final Test Time 14:30:00
 Job Number P0166
 Report Date 2017/02/25
 Prepared By Michael Carroll



TEST RECOVERY

Remarks Recovery: 127' WCM 30%W 70%M

Total Fluid: 127'

Sampler Recovery: 500ML Water 3500ML Mud
 PSI: 225

Chlorides 19000 PPM
 RW .45 @ 60 Degrees
 PH 8

Drill Stem Test #3



Hoisington, Kansas

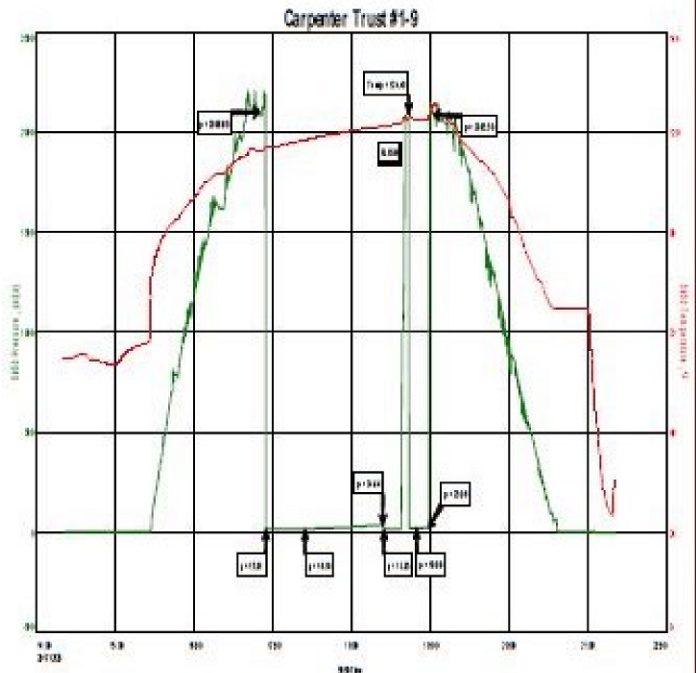
Michael Carroll
 620-617-0368
 carroll.dtlc@gmail.com

General Information

Company Name Gulf Exploration LLC

Contact Pat McGraw
 Well Name Carpenter Trust #1-9
 Unique Well ID Dst #3 Lans/KC L&M 4466-4520'
 Surface Location Sec 9-7s-36w Thomas County
 Field Wildcat
 Well Type Vertical
 Test Type Drill Stem Test
 Well Operator Gulf Exploration LLC

Formation Dst #3 Lans/KC L&M 4466-4520'
 Well Fluid Type 01 Oil
 Test Purpose Initial Test
 Start Test Date 2017/02/26
 Start Test Time 14:20:00
 Final Test Time 21:20:00
 Job Number P0167
 Report Date 2017/02/26
 Prepared By Michael Carroll



TEST RECOVERY

Remarks Recovery: 3' Mud 100%M
 Total Fluid: 3'
 Sampler Recovery: 2000ML Mud
 PSI: 0

Drill Stem Test #4



Hoisington, Kansas

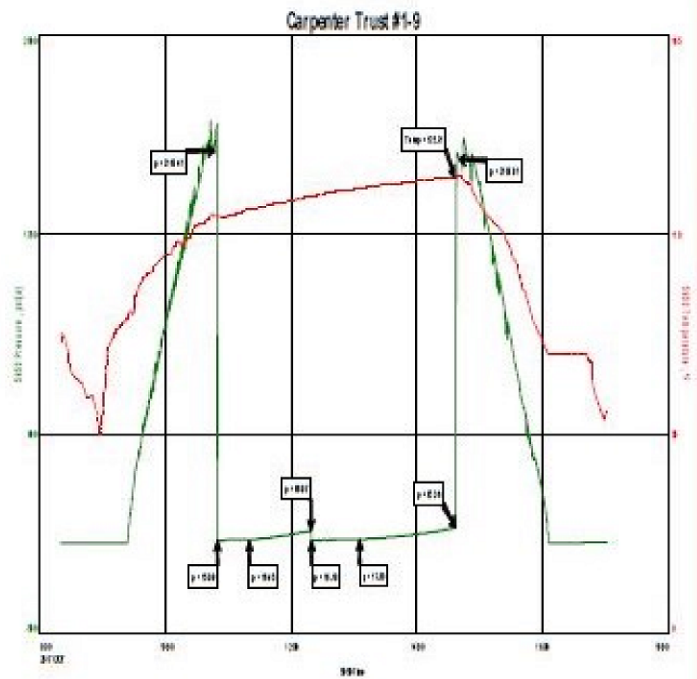
Michael Carroll
 620-617-0368
 carroll.dtlc@gmail.com

General Information

Company Name Gulf Exploration LLC

Contact Pat McGraw
 Well Name Carpenter Trust #1-9
 Unique Well ID Dst #4 Marmaton 4538-4570'
 Surface Location Sec 9-7s-36w Thomas County
 Field Wildcat
 Well Type Vertical
 Test Type Drill Stem Test
 Well Operator Gulf Exploration LLC

Formation Dst #4 Marmaton 4538-4570'
 Well Fluid Type 01 Oil
 Test Purpose Initial Test
 Start Test Date 2017/02/27
 Start Test Time 08:20:00
 Final Test Time 17:02:00
 Job Number P0168
 Report Date 2017/02/27
 Prepared By Michael Carroll



TEST RECOVERY

Remarks Recovery: 5' OCM 25%O 75%M
 Total Fluid: 5'
 Sampler Recovery: 500ML Oil 3500ML Mud
 PSI: 25

Drill Stem Test #5



Hoisington, Kansas

Michael Carroll
 620-617-0368
 carroll.dtlc@gmail.com

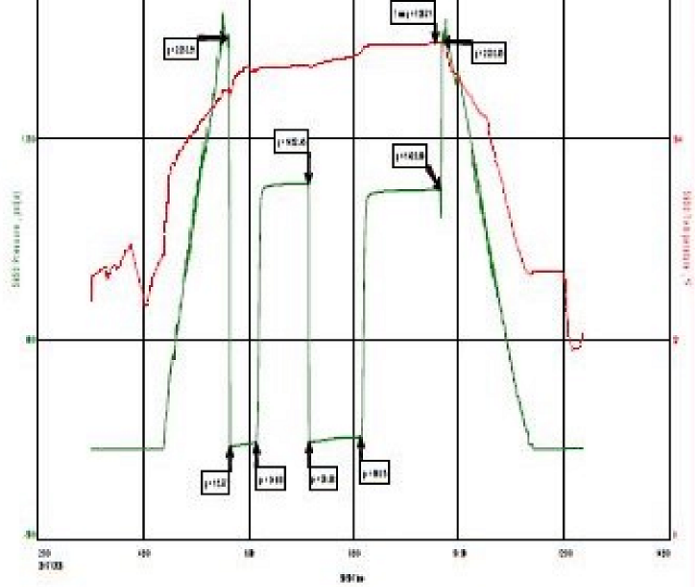


General Information

Company Name Gulf Exploration LLC

Contact Pat McGraw
 Well Name Carpenter Trust #1-9
 Unique Well ID Dst #5 Pawnee 4598-4636'
 Surface Location Sec 9-7s-36w Thomas County
 Field Wildcat
 Well Type Vertical
 Test Type Drill Stem Test
 Well Operator Gulf Exploration LLC

Formation Dst #5 Pawnee 4598-4636'
 Well Fluid Type 01 Oil
 Test Purpose Initial Test
 Start Test Date 2017/02/28
 Start Test Time 03:00:00
 Final Test Time 12:25:00
 Job Number P0169
 Report Date 2017/02/28
 Prepared By Michael Carroll



TEST RECOVERY

Remarks Recovery: 219' Gas In Pipe
 120' Clean Oil Gravity 26 @ 60 Degrees
 37' GCHOCM 11%G 39%O 50%M
 Total Fluid: 157'
 Sampler Recovery: 2000ML Oil 2000ML Mud
 PSI: 300

Drill Stem Test #6



Hoisington, Kansas

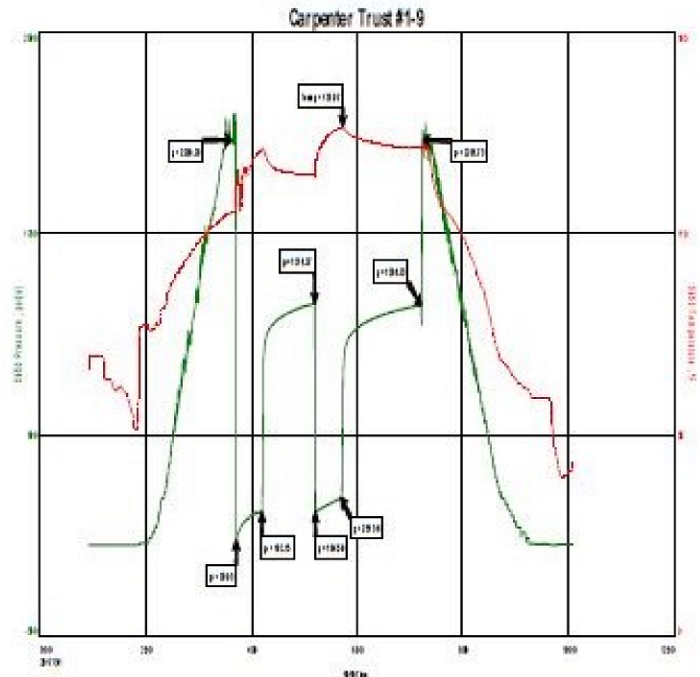
Michael Carroll
 620-617-0368
 carroll.dtlc@gmail.com

General Information

Company Name Gulf Exploration LLC

Contact Pat McGraw
 Well Name Carpenter Trust #1-9
 Unique Well ID Dst #6 Ft.Scott/Chero 4635-4695'
 Surface Location Sec 9-7s-36w Thomas County
 Field Wildcat
 Well Type Vertical
 Test Type Drill Stem Test
 Well Operator Gulf Exploration LLC

Formation Dst#6 Ft.Scott/Chero 4635-4695'
 Well Fluid Type 01 Oil
 Test Purpose Initial Test
 Start Test Date 2017/03/01
 Start Test Time 00:55:00
 Final Test Time 10:05:00
 Job Number P0170
 Report Date 2017/03/01
 Prepared By Michael Carroll



TEST RECOVERY

Remarks Recovery: 98' Gas In Pipe
 10' Clean Oil Gravity 25 @ 60 Degrees
 20' WCHOCM 40%O 10%W 50%M
 189' GCOCWM 4%G 16%O 20%W 60%M
 63' SLGCOCMW 2%G 8%O 50%W 40%M
 250' SLOCMCW 2%O 94%W 4%M

Total Fluid: 532'

Sampler Recovery: 1500ML Oil 2500ML Water
 PSI: 260

Chlorides 54000 PPM
 RW .26 @ 40 Degrees
 PH 7

Drill Stem Test #7



Hoisington, Kansas

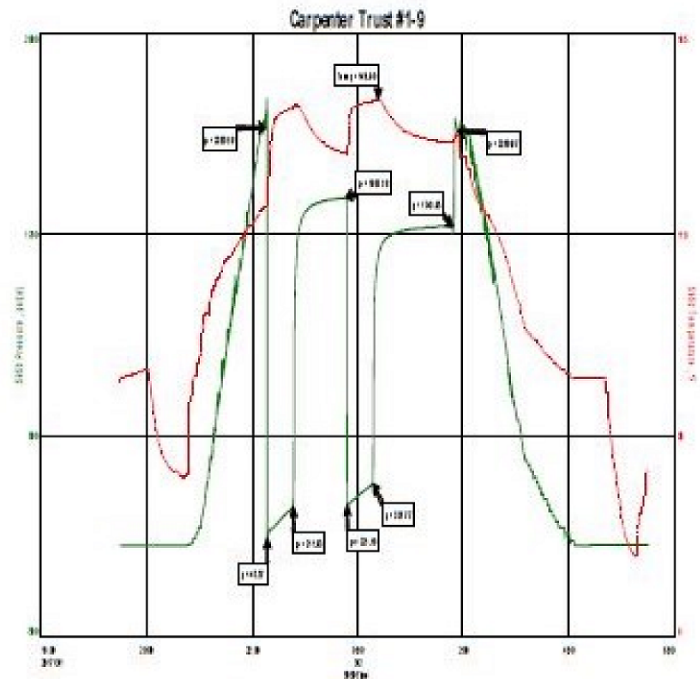
Michael Carroll
 620-617-0368
 carroll.dtlc@gmail.com

General Information

Company Name Gulf Exploration LLC

Contact Pat McGraw
 Well Name Carpenter Trust #1-9
 Unique Well ID Dst #7 Cherokee 4700-4752'
 Surface Location Sec 9-7s-36w Thomas County
 Field Wildcat
 Well Type Vertical
 Test Type Drill Stem Test
 Well Operator Gulf Exploration LLC

Formation Dst #7 Cherokee 4700-4752'
 Well Fluid Type Oil
 Test Purpose Initial Test
 Start Test Date 2017/03/01
 Start Test Time 19:30:00
 Final Test Time 05:30:00
 Job Number P0171
 Report Date 2017/03/01
 Prepared By Michael Carroll



TEST RECOVERY

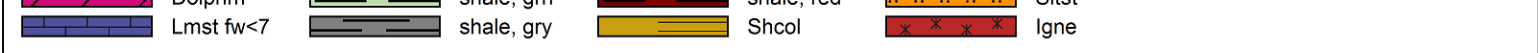
Remarks Recovery: 441' Gas In Pipe
 880' Clean Oil Gravity 27 @ 60 Degrees
 63' GCMCO 15%G 70%O 15%M

Total Fluid: 943'

Sampler Recovery: 4000ML Gassy Oil
 PSI: 380

ROCK TYPES

- Cht
- Lmst fw> shale grn
- Carbon Sh shale red
- Ss
- Sltst



ACCESSORIES

MINERAL

- Argillaceous
- ⊂ Breccia, fragment
- ⊥ Calcareous
- ▲ Chert, dark
- ⊠ Chert, tripolitic
- ⊥ Dolomitic
- ∞ Glauconite
- P Pyrite
- Sandy
- Silty
- △ Chert White
- M_c Mica
- + Feldspar

FOSSIL

- ∩ Bioclastic or Fragment
- ∩ Coral
- F Fossils < 20%
- ⊕ Oolite
- ⊕ Pellets

STRINGER

- ▨ Dolomite
- Sandstone
- Siltstone
- ▬ Shale
- ▬ green shale
- ▬ red shale

TEXTURE

- C Chalky
- L Lithogr

OTHER SYMBOLS

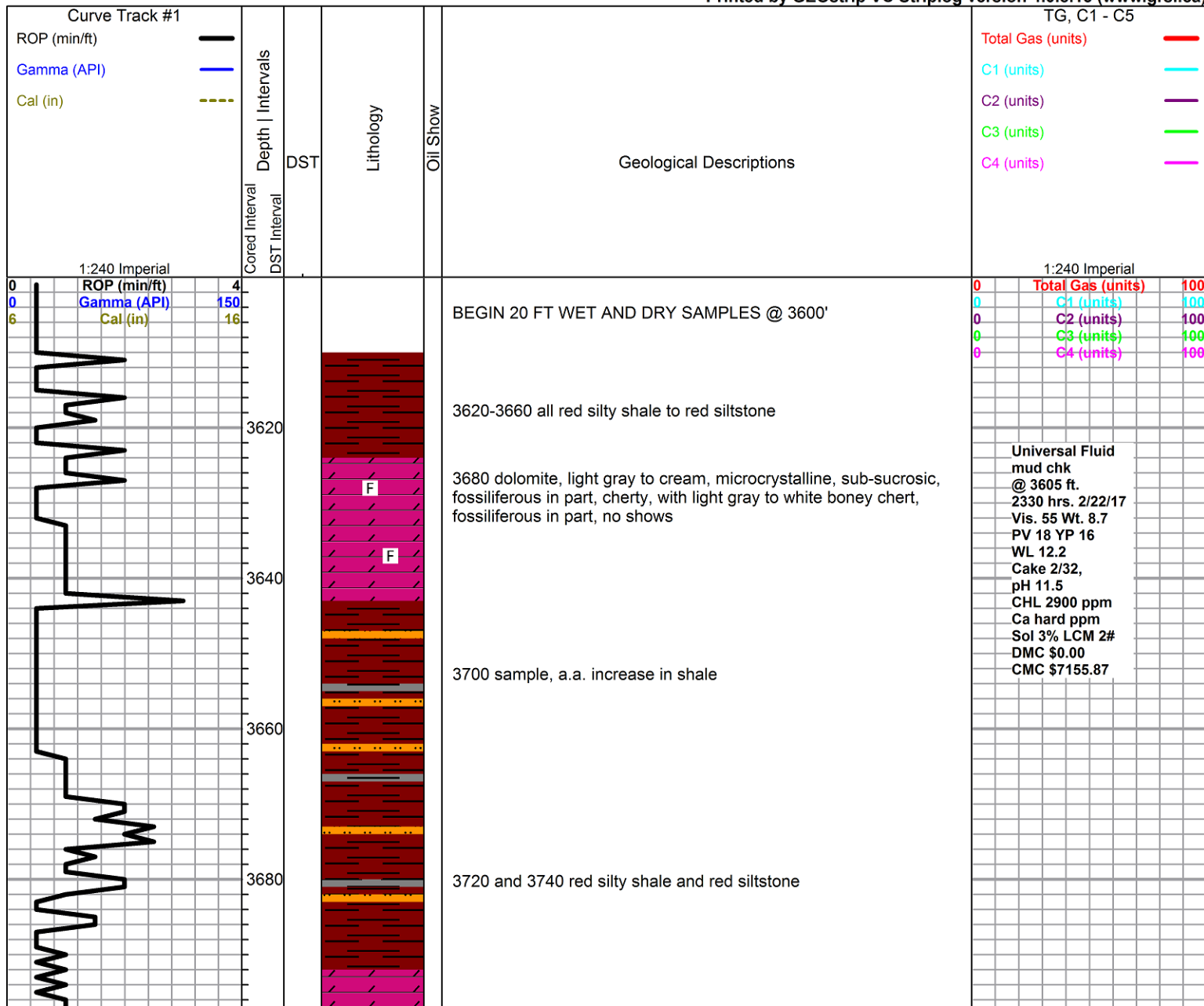
Oil Show

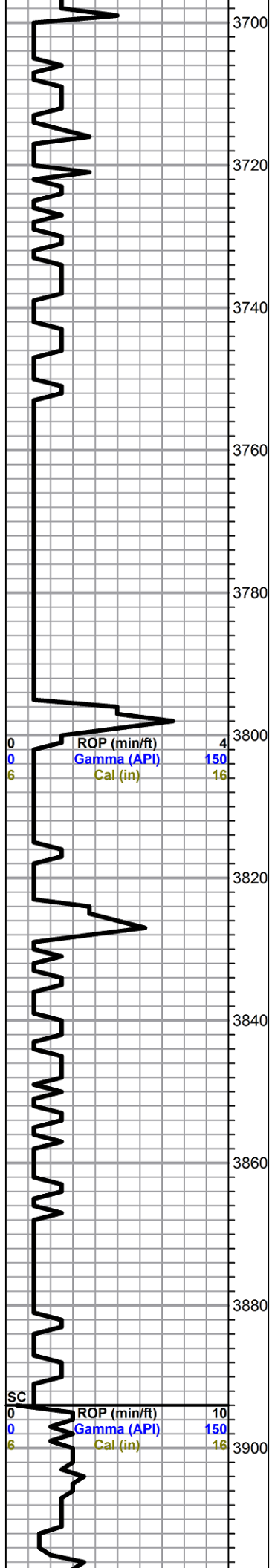
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Str
- D Dead Oil Str
- Fluorescence
- * Gas

DST

- DST Int
- DST alt
- Core
- tail pipe

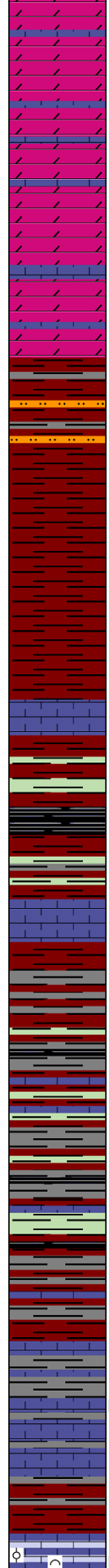
Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





0 ROP (min/ft) 4
 0 Gamma (API) 150
 6 Cal (in) 16

SC
 0 ROP (min/ft) 10
 0 Gamma (API) 150
 6 Cal (in) 16



3760 and 80 dolomite and limestone, mixed gray, cream, maroon and pink, grainy, arenaceous, more dolomite than limestone, poor visible porosity, no shows

3800 - 3820 a.a. with red shale and silt

3840 flood red silty shale and siltstone

3860 shale, black, limey, blocky, dense, some green silty shale, limestone, gray, microcrystalline, fossiliferous, chalky, poor visible porosity, no shows

3880 and 94, limestone a.a. with mixed shales, appx 50/50, 3894 sample influx dark gray/black limestone, cryptocrystalline, dense, some argillaceous

cfs sample, mostly soft mushy to silty gray shales, limestone streaks w/limestones a.a.

begin 10 ft wet and dry samples

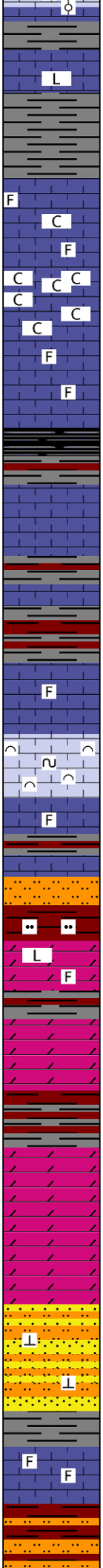
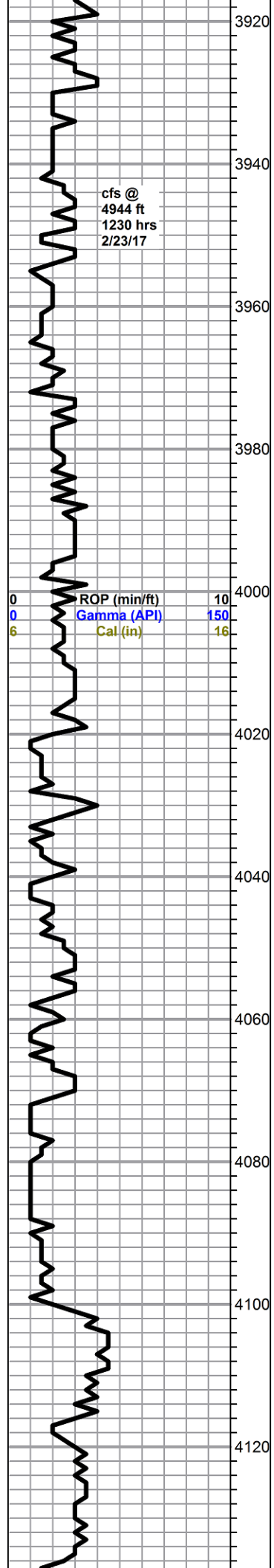
D limestone, mixed, cherty gray to light gray, dense, white and chalky, with weathered black/black stained limestones, weathered, some small solutions vugs, mostly dead stain, few pieces with tarry clingy oil, no free oil, no odor, faint fluorescence, no cut

D limestone, light gray to cream, oolitic, with: grainy to sucrosic bioclastic, poor visible porosity, even black speckled dead stain, no

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

**bit trip @ 3894 ft,
out with PDC in
with button bit**

deviation survey 1 deg
pipe strap 1.78' long to board



show free oil, no odor, faint fluorescence, slow milky cut

limestone, light gray, micro/cryptocrystalline, sub-lithographic, dense, no shows

Howard 3942 -558

limestone, white and light gray, fossiliferous, grainy, dense to chalky, poor visible porosity, no shows, abundant chalk

a.a., flood chalk, 50%+

chalk drops out

limestone, gray to dark brown, cryptocrystalline, slightly fossiliferous to lithographic, some arenaceous to sucrosic, dense, no shows

Topeka 4010 -626

limestone, variable gray, microcrystalline, sucrosic texture, slightly fossiliferous, dense

limestone, light gray, spongy bioclastic, good interclast and pinpoint porosity, glauconitic in part, no shows

limestone as from 4010-4020

siltstone, red, with some sandstone, light gray, pink, very fine grain, well rounded and sorted, well cemented, poor visible porosity, barren

dolomite, cream to light gray, cryptocrystalline lithographic to microcrystalline sub-sucrosic fossiliferous, some porosity, no shows

dolomite, cream to light gray, microcrystalline, sucrosic, some pinpoint porosity, fair green mineral fluorescence, no shows

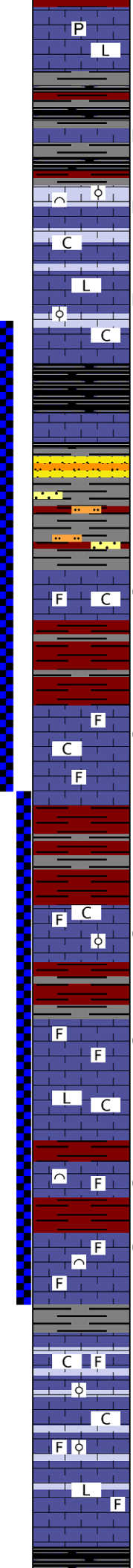
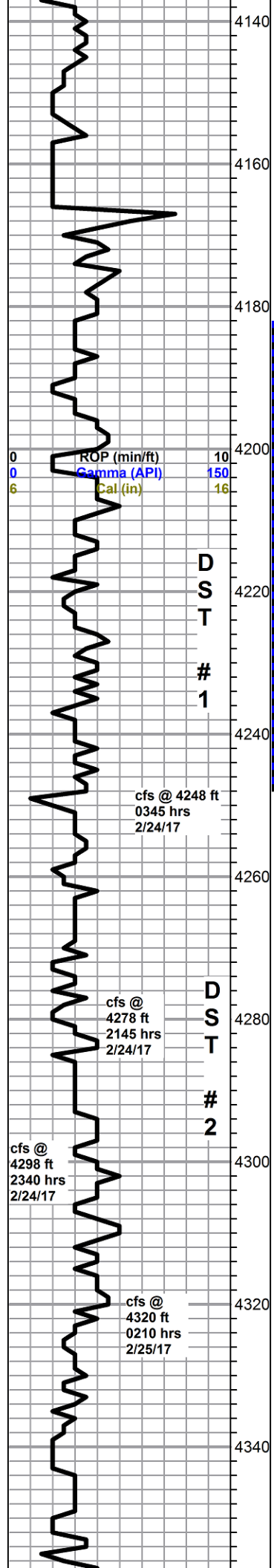
dolomite a.a. with pinpoint vugs and fractures, abundant chalk, no shows

siltstone, gray, sandstone, gray, very fine grain, well sorted and rounded, well cemented, calcareous, both sands and silt micaceous in part, no visible porosity, no shows

limestone, cream, microcrystalline, some secondary calcite streaks, very fine grainy texture, scattered clasts, poor visible porosity, spotty to fair black dead stain, no free oil, no odor, poor fluorescence, good cut

red silty shale and siltstone, heavy red wash

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



limestone, gray, cryptocrystalline, lithographic, cherty, dense, with: some limestone, gray to white, grainy, chalky, slightly pyritic, no shows

shales, gray, black, red

Oread 4163 -779
limestone, mixed, light gray, light tan and white, variable size oolitic, some weathered bioclastic, some lithographic, scattered interclast and interoolite porosity, spotty black dead flakey stain, no free oil or odor, poor fluorescence with some streaky orange fluorescence, no cut

Heebner 4188 -804
lithographic and oolitic facies a.a., some dense fossiliferous, oolitic facies still carrying dead show a.a., some chalk in samples

siltstone, gray, and sandstone, gray, very fine grain, silty, well rounded and sorted, fair calcareous cementing, poor visible porosity, no shows

Toronto 4216 -832
limestone, white to pale green/gray, microcrystalline, fossiliferous, some chalky and weathered, some small vugs, with tarry black stain, show stringy heavy free oil, questionable odor, poor fluorescence, good cut

Lansing 4236 -852
limestone, light gray to white, micro-cryptocrystalline, fossiliferous, some cherty recrystallized, some chalky, fair solution vug porosity, fair black to brown staining, fair show heavy oil, fleeting odor, light fluorescence, good cut

limestone, white, weathered, fossiliferous, some oolitic, secondary calcite xtals, chalky, scattered vugs and interclast porosity, spotty to fair black speckled staining, trace free oil, no odor, scattered good fluorescence, fair cut

limestone, white, weathered, fossiliferous, chalky to recrystallized cherty, scattered vugs and interclast porosity, spotty to fair black speckled staining, no free oil, show heavy oil on break, no odor, scattered good fluorescence, good cut with halo, grades to: mostly gray cryptocrystalline lithographic, no show, with chalk

E & F zones, both similar limestone, light gray to cream, microcrystalline, grainy dense fossiliferous/bioclastic, some cherty with large recrystallized clasts, poor overall porosity with few vugs, appx. 50% sample gray/black saturated staining, trace tarry residue, no free oil, trace oil droplets on break, no odor, some fair scattered fluorescence, fair cut

G zone - limestone, gray to white, microcrystalline, grainy fossiliferous to micro-oolitic, chalky, abundant chalk, poor visible porosity, no shows

a.a. with some limestone, light gray, cryptocrystalline, recrystallized fossiliferous, some nice solution vugs, barren

a.a., influx cryptocrystalline lithographic

Muncie Creek 4354 -970
black carbonaceous shale

Universal Fluid
mud chk
@ 4210 ft.
0230 hrs. 2/24/17
Vis. 61 Wt. 9.0
PV 18 YP 15
WL 9.4
Cake 2/32,
pH 10.5
CHL 2200 ppm
Ca 60 ppm
Sol 4.4% LCM 3#
DMC \$7155.87
CMC \$7155.87

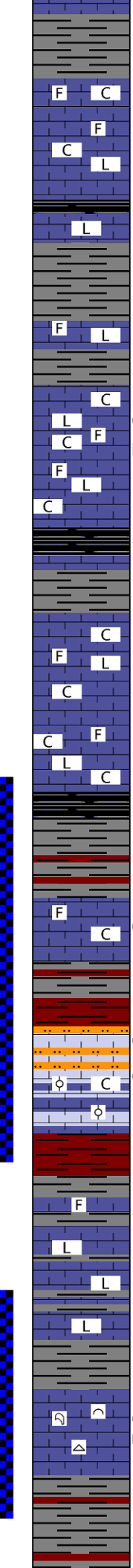
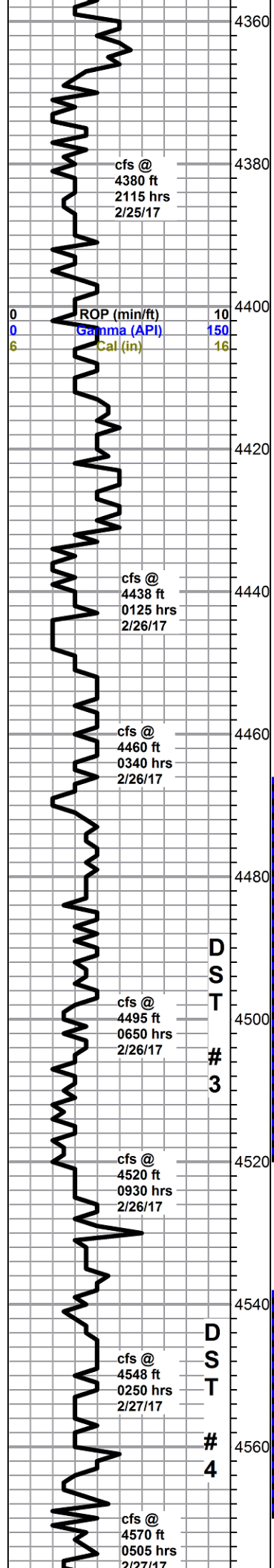
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

Drill Stem Test #1
4182 - 4248 ft.
30-60-28-10
rec. 75' mud
IFP 14-18#
FFP 18-60#
ISIP 873#
FSIP 304#
HSH 1992-1982#
BHT 119 deg F

deviation survey 1/2 deg

Drill Stem Test #2
4248 - 4320 ft.
30-60-60-90
rec. 127' WCM
IFP 18-37#
FFP 40-74#
ISIP 1287#
FSIP 1261#
HSH 2040-2005#
BHT 121 deg F

Universal Fluid
mud chk
@ 4305 ft.
0100 hrs. 2/25/17
Vis. 59 Wt. 9.1
PV 6 YP 12
WL 8.9
Cake 2/32,
pH 8.5
CHL 2800 ppm
Ca 80 ppm
Sol 5.2% LCM 2#
DMC \$1316.91
CMC \$8472.78



mostly gray silty shales

H zone - limestone, white, microcrystalline, rounded grainstone to fossiliferous, poor visible porosity, grading to limestone, gray, cryptocrystalline, mostly dense lithographic, abundant chalk, no shows

limestone, light gray, cryptocrystalline, fossiliferous to lithographic, dense, no shows

J zone - limestone, light gray, cryptocrystalline, dense lithographic with: white, very chalky, fossiliferous, few scattered specimens with pin-point porosity and light black speckled stain, no free oil, slight sheen and some stringy heavy oil on break, no odor, poor fluorescence, faint cut with halo, abundant chalk

Stark Shale 4431 -1047

black carbonaceous shale
limestone, dark gray to brown, cryptocrystalline, fossiliferous to lithographic, dense, no show

K zone - limestone, light gray, cryptocrystalline, fossiliferous to lithographic, dense to chalky, poor visible porosity, no shows, abundant chalk

a.a.

Hushpuckney

black and gray shale, some lavender and red

L zone - limestone, light gray to white, micro-cryptocrystalline, some secondary calcite, fossiliferous to recrystallized, fairly dense to chalky, some pin-point porosity, overall poor porosity, spotty to wormy interclast stain, slight show free oil, fair show oil on break, fleeting odor, fair even fluorescence, slow fair cut

M zone - siltstone, gray, light brown scattered stain, no oil, good cut with: limestone, light gray, oolitic, some scattered inter-oolite porosity, good inter-oolite stain, slight show oil on break, with: chalky white weathered oolitic, black dead stain, trace free oil in tray, questionable odor in wet cup, faint fluorescence, good cut - cfs samples: some re-xtalzd foss with stain

Base Kansas City 4516 -1132

Marmaton 4525 -1141

4540 samp - red silty shale, with limestone, gray with purple cast, grainy, fossiliferous, fairly dense, no shows

4548 samp - dark purple limey shale and limestone, smooth, lithographic, with limestone, mixed gray, grainy to arenaceous, dense, light gray limey dense shales, no shows

cfs samples - grades to limestone, dark gray, cryptocrystalline, lithographic, with dark gray to maroon/lavender dense limey shales

limestone, gray to white, grainy bioclastic with some fair interclast porosity, fair saturated stain, some cherty recrystallized with good solution vugs, staining in vugs, abundant loose coral fan clasts, some rocks slow bleeding, fair show free oil, good odor, fair fluorescence, slow streaming milky cut

deviation survey 1/2 deg

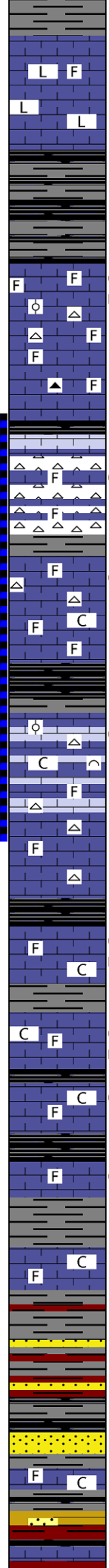
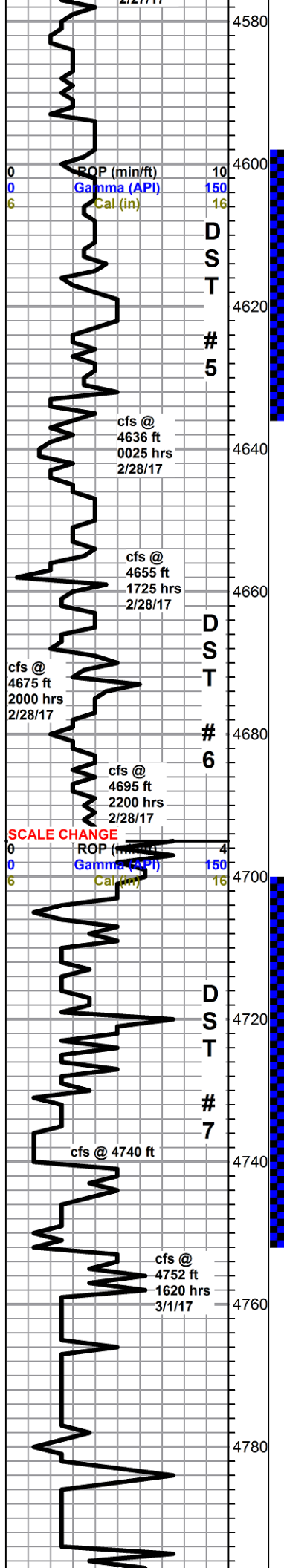
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

Universal Fluid
mud chk
@ 4460 ft.
0515 hrs. 2/26/17
Vis. 57 Wt. 9.0
PV 7 YP 16
WL 8.7
Cake 2/32,
pH 8.5
CHL 2700 ppm
Ca 80 ppm
Sol 4.3% LCM 3#
DMC \$1512.06
CMC \$9984.76

Drill Stem Test #3
4466 - 4520 ft.
30-60-25-10
rec. 3' mud
IFP 16-16#
FFP 18-19#
ISIP 34#
FSIP 25#
HSH 2099-2086#
BHT 124 deg F

Drill Stem Test #4
4538 - 4570 ft.
30-60-45-90
rec. 5' HOCM
IFP 15-16#
FFP 16-18#
ISIP 67#
FSIP 85#
HSH 2160-2110#
BHT 126 deg F

Universal Fluid
mud chk



limestone, light gray to gray, mostly cryptocrystalline, fossiliferous to arenaceous and sub-lithographic, with: limestone, dark gray, brown and tan, cryptocrystalline, dense compact lithographic, no shows

black and dark gray shales

Pawnee 4614 -1230

limestone, light gray, cryptocrystalline, some microcrystalline, mostly cherty recrystallized fossiliferous, some cherty oolitic, some vuggy interclast and solution porosity, wormy dark stain, bleeding free oil, good odor, fair mineral fluorescence, excellent cut, light gray to frosted fossiliferous cherts

lower part of bench, limestone, brown, mottled, microcrystalline, fossiliferous, some large clasts and ammonites, dense, with: chert, tan to brown, fossiliferous, show drops out

4655 sample, white chalky grainy limestone with chalk and shale

30 cfs samples - chert, gray mottled, fossiliferous to oolitic, sharp, fresh, with limestone, tan, microcrystalline, cherty and gritty, fossiliferous, some secondary calcite, scattered wormy stain, few vugs, no free oil, some scaly sheen and oil droplets on break, fleeting odor in wet cup, poor fluorescence, fair slow streaming cut - 60 cfs influx brown cherty fossiliferous limestone

4670 sample - limestone, tan, microcrystalline, cherty and gritty, fossiliferous, some recrystallized, fair vuggy porosity, fair wormy stain, slow bleeding oil, good odor in wet cup, poor fluorescence, fair slow streaming cut, with scattered chert

grades to limestone: cream chalky fossiliferous and tan cherty cryptocrystalline, dense, fossiliferous, no shows

Cherokee (field pick) 4670 -1286

shale, black carbonaceous

limestone, tan and gray, microcrystalline, recrystallized bioclast-fossiliferous, cherty and brittle to dense and hard, scattered pinpoint porosity with surface etching, light staining, slight show free oil, fair show heavy oil on break, faint odor, poor fluorescence, fair slow streaming cut - abundant gray frosted fossiliferous chert

30 min sample - a.a. show marked decrease from above

True Cherokee

4730 sample limestone, light gray, cryptocrystalline, recrystallized, slightly fossiliferous, some crystal lined solution vugs and fractures, light stain, trace free oil in tray and on break, fleeting odor, light fluorescence, good milky cut with halo - with: limestone described below

4740 sample, flood limestone, white to light gray, chalky to very chalky, slightly fossiliferous, no shows in this facies

4740 cfs, limestone a.a. with: limestone, gray to brown, cryptocrystalline, recrystallized, slightly fossiliferous, fair crystal lined solution vugs with black wormy stain, trace free oil in tray and on break, fleeting odor, poor fluorescence, excellent milky cut

limestone, a.a. except heavier tarry staining with streaming sheen in tray, with slightly better show free oil

limestone, white to light gray, chalky to very chalky, slightly fossiliferous, no shows

shales, mixed, gray, purple, lavender, red and black, few scattered dirty sandstone, clusters, white to gray, mixed grain, mostly friable, no shows

4790 sample, sandstone, white to gray, fine to very fine grain, clean, to shaley, some pyritic, well rounded, fair sorting, fairly friable, no shows, 4800 sample sand a.a. with scattered sandstone, larger grain and less mature, some chert inclusions, well cemented, no shows

limestone, white to light gray, fossiliferous, chalky to very chalky, slightly fossiliferous, abundant chalk, no shows

4820 and 30 samples - shales a.a. with flood mustard yellow shale and ochre, weathered to limey, scattered sandstone, green to near black (not stained), very fine grain, poor sorted, well cemented, no shows

@ 4568 ft.
0325 hrs. 2/27/17
Vis. 60 Wt. 9.0
PV 18 YP 16
WL 8.1
Cake 2/32,
pH 9.5
CHL 1900 ppm
Ca 40 ppm
Sol 3.9% LCM 4#
DMC \$705.21
CMC \$10689.97

C2 (units)
C3 (units)
Drill Stem Test #5
4598 - 4636 ft.
30-60-60-90
rec. 219' GIP
120' clean oil
37' WCHOCM
IFP 16-35#
FFP 39-66#
ISIP 1452#
FSIP 1421#
HSH 2254-2234#
BHT 129 deg F

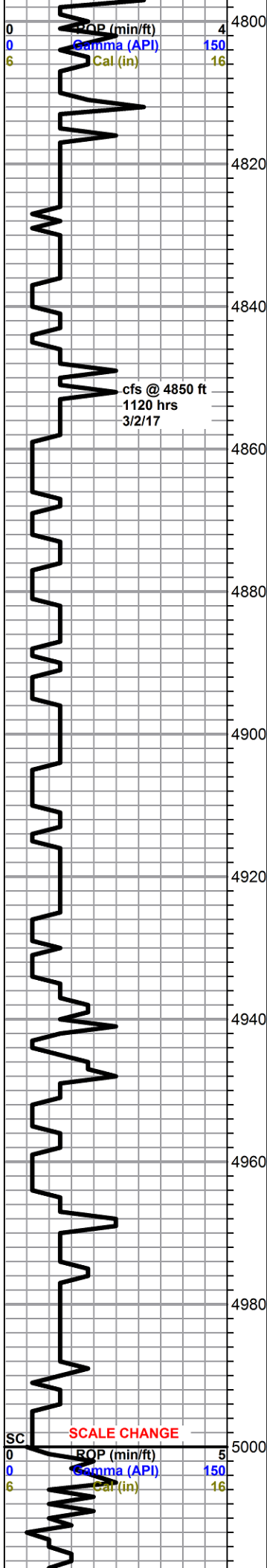
Drill Stem Test #6
4635 - 4695 ft.
30-60-30-90
rec. 98' GIP, 10' clean
oil, 20' WCHOCM, 189'
GCOCWM, 63'
SLGCOCMW, 250'
SLOCMW
IFP 30-183#
FFP 185-256#
ISIP 1316#
FSIP 1307#
HSH 2209-2207#
BHT 139 deg F

after DST # 6 replace
button bit with PDC bit

Universal Fluid
mud chk
@ 4665 ft.
2100 hrs. 2/29/17
Vis. 57 Wt. 9.1
PV 10 YP 12
WL 9.8
Cake 2/32,
pH 10
CHL 3100 ppm
Ca 20 ppm
Sol 5.2% LCM 3#
DMC \$1026.20
CMC \$11716.17

Drill Stem Test #7
4700 -4752 ft.
30-60-30-90
rec. 441' GIP,
880' clean oil 27 grav.
63' GMCO
IFP 46-212#
FFP 221-337#
ISIP 1900#
FSIP 1744#
HSH 2283-2261#
BHT 147 deg F

Universal Fluid
mud chk
@ 4752 ft.
2300 hrs. 3/1/17
Vis. 56 Wt. 9.1
PV 9 YP 14
WL 8.8
Cake 2/32,
pH 10
CHL 4200 ppm
Ca 20 ppm



show

4840 sample, limestone, white to light gray, fossiliferous, chalky to very chalky, slightly fossiliferous, abundant chalk, no shows

4850 sample shales a.a. with limestone, a.a., decreasing yellow shale, scattered mixed sandstone, some pyrite

30 min sample, flood sandstone, white to gray and lavender, very fine to medium grain, mostly rounded to well rounded, poor to fair sorted, siliceous cement, friable to dense, poor visible porosity, dirty to clean, glauconitic, abundant pyrite nodules, barren

60 min sample, shales a.a., sand drops out, influx light gray limestone, cryptocrystalline, lithographic, slightly chalky, no porosity or shows

Mississippian 4858 -1474

4880 sample getting orange chert

4900 sample, dolomites, yellow/gray, microcrystalline, sandy, slightly fossiliferous, dolomite gray, micro-cryptocrystalline, sandy to sub-lithographic, with some very chalky flattened oolitic limestone, some orange chert

4920 dolomite, gray, microcrystalline, arenaceous/argillaceous, some fossiliferous, gray limey shales, some pale yellow recrystallized oolitic, abundant chalk, no shows

4940-60, dolomite, gray arenaceous a.a., gray microcrystalline sub-sucrosic, with gray mottled recrystallized fossiliferous, micro-fine crystalline, dense, no shows

4980 a.a. with abundant gray limey shale and white dolomite, microcrystalline, sucrosic, dense to soft, no shows

5000-5020, dolomite, gray, microcrystalline, arenaceous/argillaceous, gritty, dense

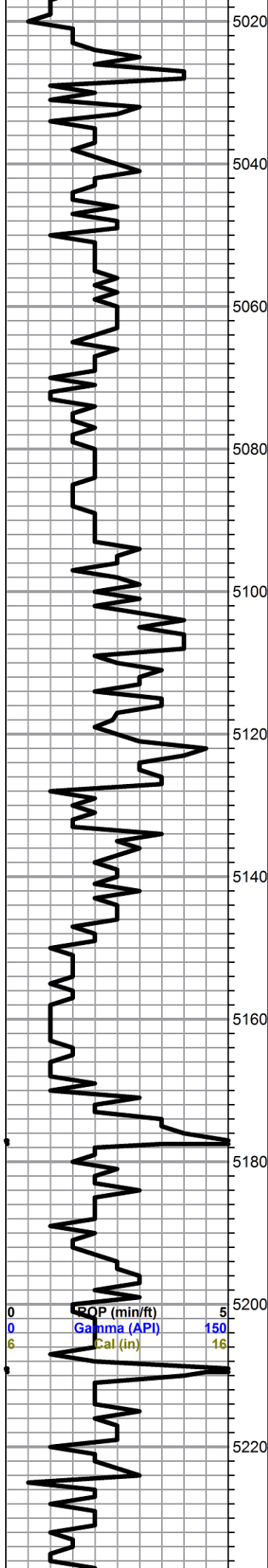
dolomite, white to light gray and tan, microcrystalline, sub-sucrosic to mottled fossiliferous, some weathered and chalky, with: chert, appx. 20-30%, white boney to frosted gray, some fossiliferous, sharp, fresh, with white chert, sub-tripolitic, moderate chalk in samples, no shows

0	SoI 5.2% LCM 3#	100
0	DMC \$32.79	100
0	CMC \$11748.96	100
0	C2 (units)	100
0	C3 (units)	100
0	G4 (units)	100

begin 20 ft wet and dry samples

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	G4 (units)	100

resume 10 ft wet and dry samples @ 5020'



5070 limestone, gray to tan, cryptocrystalline, dense lithographic, with: gray to cream flattened oolitic to pelletal, very chalky, weathered, some interbedded white sub-sucrosic dolomite

5100 - 5130 chalk, white chalky limestone, fossiliferous to oolitic, soft, with cherts, gray to white, fossiliferous, mostly sharp, fresh, no shows

5140 - 50 sample - flood shale, almost all shale in samples, red and maroon and gray and green, mottled, fairly dense, siliceous

Arbuckle 5134 -1750

5160 sample - dolomite, gray, some white, micro-fine crystalline, sub-sucrosice to sub-rhombic, some gray dense cryptocrystalline, some associated chalk and scattered chert

dolomite a.a., good solution vugs and porosity, no shows

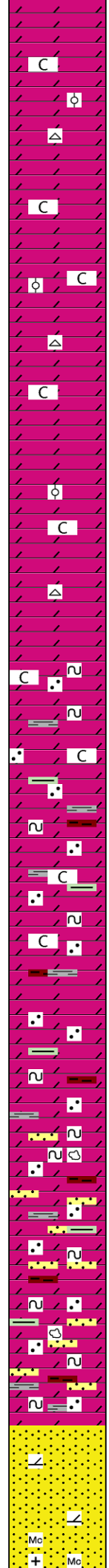
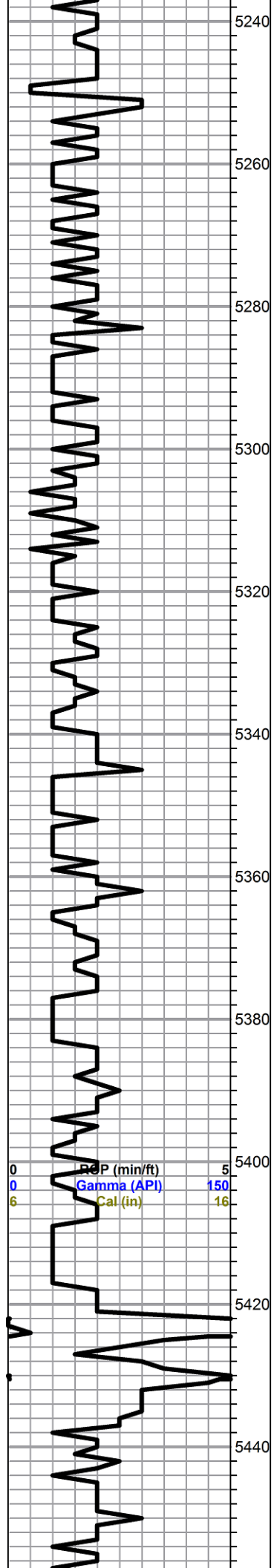
dolomite a.a.
<---re-adjust bit weight

dolomite, gray to light gray, micro-fine crystalline, sub-sucrosice to sub-rhombic, scattered good intercrystalline and vuggy porosity, some gray dense cryptocrystalline, some white weathered oolitic, abundant caliche/chalk and scattered white chert, no shows

begin 20 ft samples

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	G4 (units)	100

ROP (min/ft) 5
Gamma (API) 150
Cal (in) 16



as above

dolomite, gray, with green mottling, microcrystalline, sandy, grainy, glauconitic to very glauconitic, poor visible porosity, no shows with: chalk/caliche, red, gray and yellow/olive blocky dense shale

sandy glauconitic dolomites as above, some pink and pale green dolomites, microcrystalline, sandy, glauconitic, with pink feldspar inclusions, some sandstone clusters, well rounded and sorted, fairly friable, shales a.a. no shows

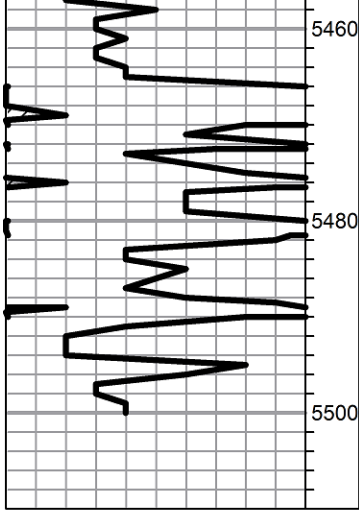
as above with influx tan and gray mixed cherty dolomite

Reagan Sand 5437 -2053

5460 sandstone, white, quartz, very fine grain, well rounded and sorted, to fine to medium grain, poorly sorted, round to angular, some clusters with large quartz shards, dolomitic cement, well cemented to friable

4570 sample - sand as above grading to very micaceous, both

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	G4 (units)	100



muscovite and biotite, some very pyritic as well, trace pink feldspar inclusions - still carrying abundant shale a.a.

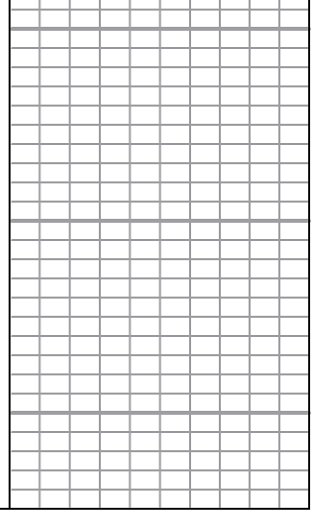
Pre-Cambrian 5465 -2081

4580 micaceous and pyritic quartzite with plagioclase, some orange granite, mostly orthoclase and plagioclase with minor quartz and micas - very little evidence of weathering

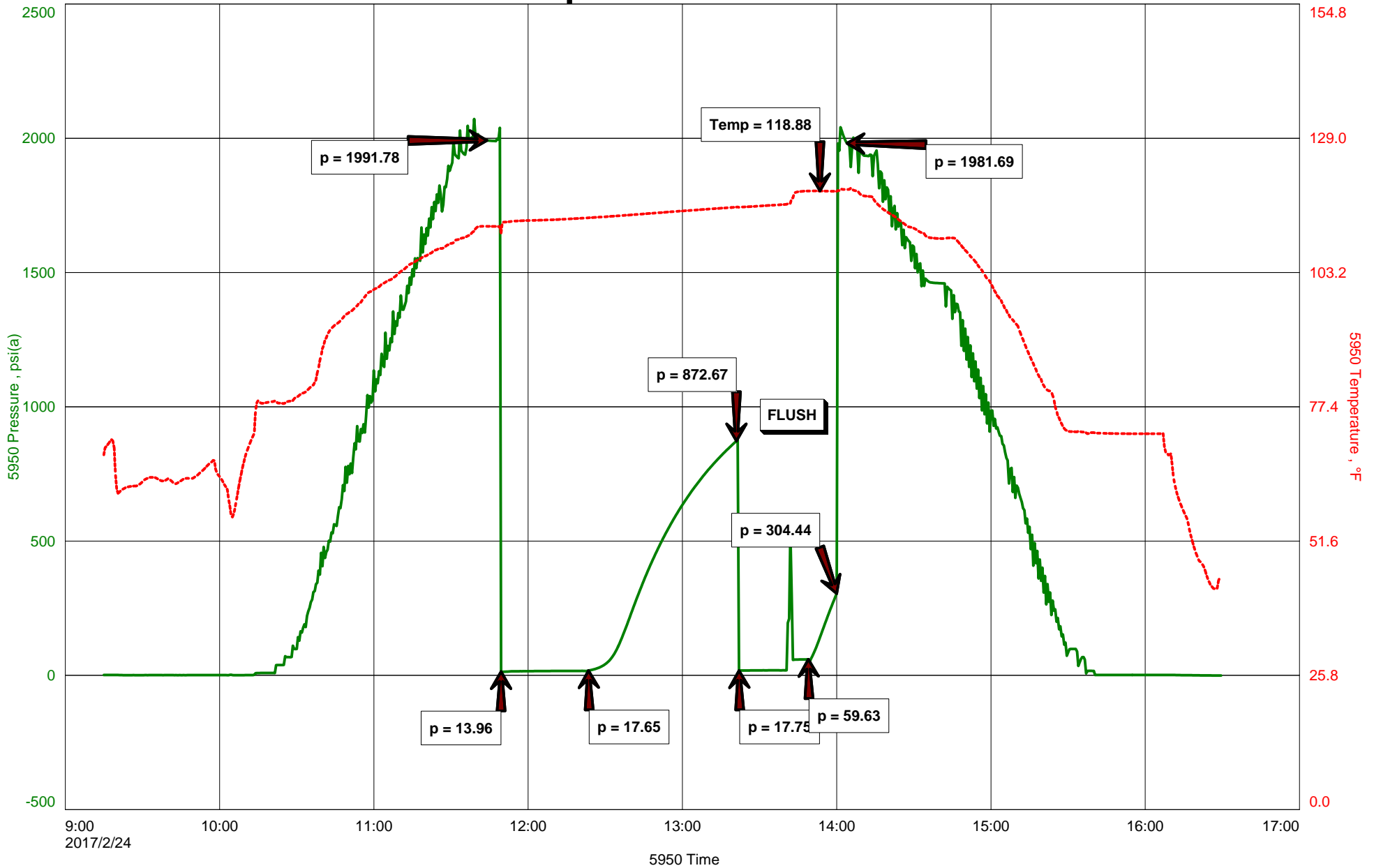
4590 sample, a.a. with increasing feldspar content, still abundant shales

5500, appx 60% granite, 40% quartzite

Total Rotary Depth 5500 ft @ 0915 hrs 3/3/17



Carpenter Trust #1-9



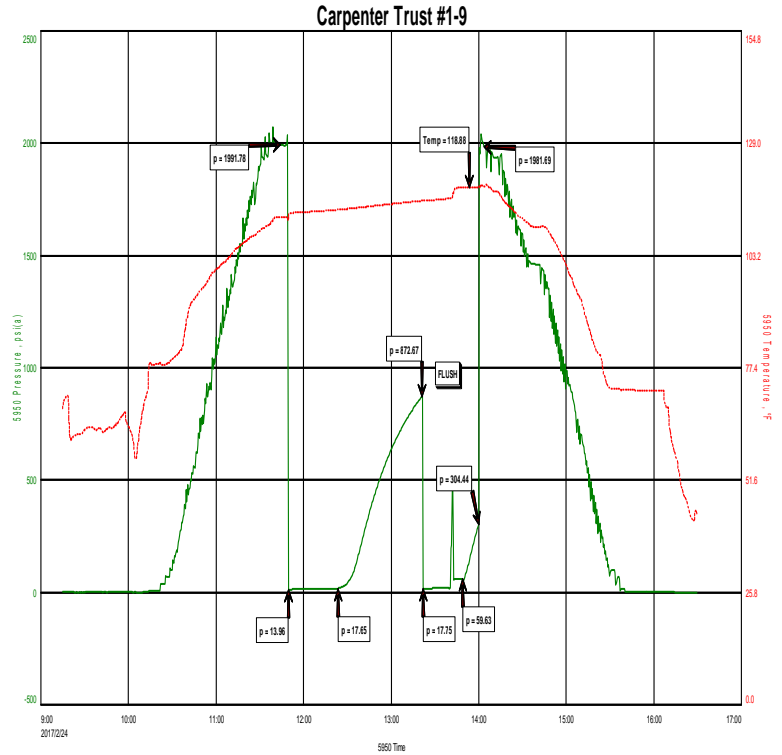


Hoisington, Kansas

Michael Carroll
620-617-0368
carroll.dtlc@gmail.com

General Information

Company Name	Gulf Exploration LLC
Contact	Pat McGraw
Well Name	Carpenter Trust #1-9
Unique Well ID	Dst #1 Topeka/Lans A 4182-4248'
Surface Location	Sec 9-7s-36w Thomas County
Field	Wildcat
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	Gulf Exploration LLC
Formation	Dst #1 Topeka/Lans A 4182-4248'
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Start Test Date	2017/02/24
Start Test Time	09:15:00
Final Test Time	16:30:00
Job Number	P0165
Report Date	2017/02/24
Prepared By	Michael Carroll



TEST RECOVERY

Remarks Recovery: 75' Mud 100%M
 Total Fluid: 75'
 Sampler Recovery: 4000 ML Mud
 PSI: 200



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CARPENTERTRUST#1-9DST#1

TIME ON: 0915
TIME OFF: 1630

Company GULF EXPLORATION LLC Lease & Well No. CARPENTER TRUST #1-9
Contractor MURFIN DRLG RIG 7 Charge to GULF EXPLORATION LLC
Elevation 3384KB Formation TOPEKA/LANS A Effective Pay _____ Ft. Ticket No. P0165
Date 2-24-17 Sec. 15 Twp. _____ 7 S Range _____ 35 W County THOMAS State KANSAS
Test Approved By KEITH REAVIS Diamond Representative Michael Carroll

Formation Test No. 1 Interval Tested from 4182 ft. to 4248 ft. Total Depth 4248 ft.
Packer Depth 4176 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4182 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4166 ft. Recorder Number 5950 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4219 ft. Recorder Number 0230 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 55 Drill Collar Length 187 ft. I.D. 2 1/4 in.
Weight 8.7 Water Loss 12.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2900 P.P.M. Drill Pipe Length 3958 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 11 Test Tool Length 37 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 66(34.5A) ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB-BUILT TO 3/4" IN 30 MINUTES NOBB
2nd Open: NO BLOW-NO BUILD(FLUSHED TOOL@20 MINUTES)LOST PACKER SEAT-STRONG BLOW BLED OFF-NO BLOW NOBB

Recovered 75 ft. of MUD 100%M
Recovered 75 ft. of TOTAL FLUID
Recovered _____ ft. of _____
Recovered _____ ft. of _____

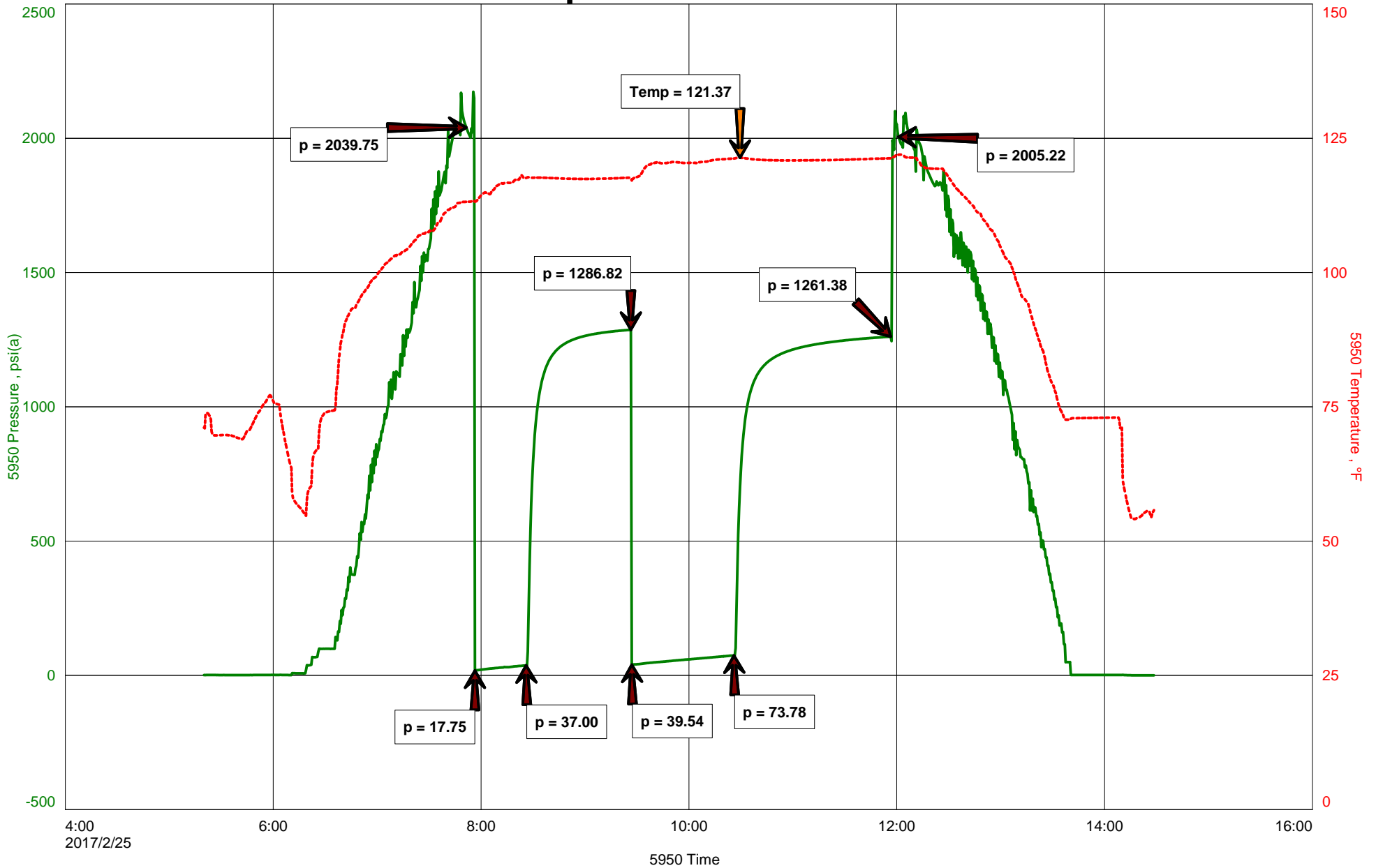
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>SAMPLER RECOVERY: 4000 ML MUD</u>	Insurance
<u>PSI: 200</u>	Total

Time Set Packer(s) 11:50 A.M. A.M. P.M. Time Started Off Bottom 1:58 P.M. A.M. P.M. Maximum Temperature 119

Initial Hydrostatic Pressure..... (A) 1992 P.S.I.
Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 18 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 873 P.S.I.
Final Flow Period..... Minutes 28 (E) 18 P.S.I. to (F) 60 P.S.I.
Final Closed In Period..... Minutes 10 (G) 304 P.S.I.
Final Hydrostatic Pressure..... (H) 1982 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Carpenter Trust #1-9





Hoisington, Kansas

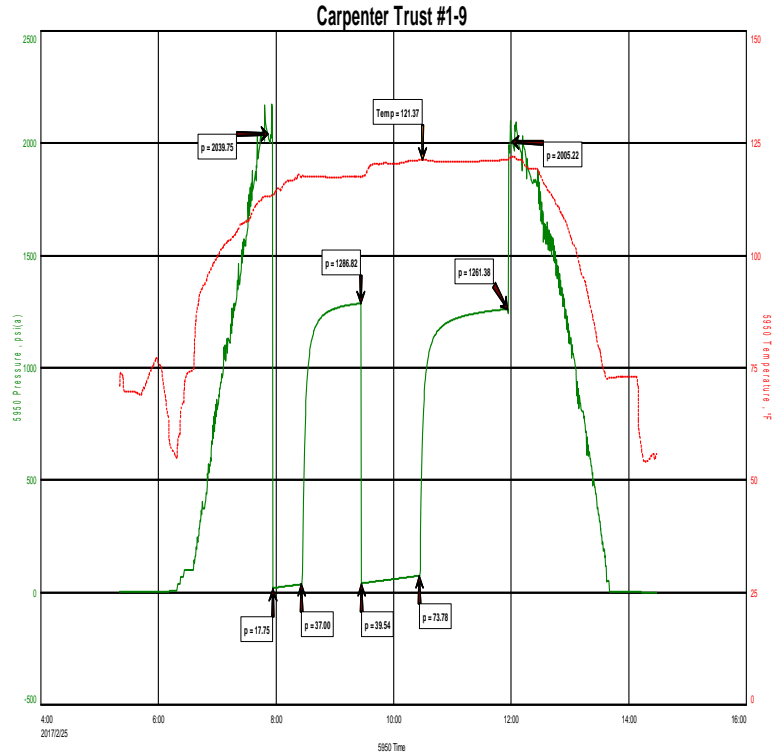
Michael Carroll
620-617-0368
carroll.dtlc@gmail.com

General Information

Company Name Gulf Exploration LLC

Contact	Pat McGraw
Well Name	Carpenter Trust #1-9
Unique Well ID	Dst #2 Lans C-F 4248-4320'
Surface Location	Sec 9-7s-36w Thomas County
Field	Wildcat
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	Gulf Exploration LLC

Formation	Dst #2 Lans C-F 4248-4320'
Well Fluid Type	06 Water
Test Purpose	Initial Test
Start Test Date	2017/02/25
Start Test Time	05:20:00
Final Test Time	14:30:00
Job Number	P0166
Report Date	2017/02/25
Prepared By	Michael Carroll



TEST RECOVERY

Remarks Recovery: 127' WCM 30%W 70%M

Total Fluid: 127'

Sampler Recovery: 500ML Water 3500ML Mud
 PSI: 225

Chlorides 19000 PPM
 RW .45 @ 60 Degrees
 PH 8



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CARPENTERTRUST#1-9DST#2

TIME ON: 0520
TIME OFF: 1430

Company GULF EXPLORATION LLC Lease & Well No. CARPENTER TRUST #1-9
Contractor MURFIN DRLG RIG 7 Charge to GULF EXPLORATION LLC
Elevation 3384KB Formation LANS C-F Effective Pay _____ Ft. Ticket No. P0166
Date 2-25-17 Sec. 15 Twp. 7 S Range 35 W County THOMAS State KANSAS
Test Approved By KEITH REAVIS Diamond Representative Michael Carroll

Formation Test No. 2 Interval Tested from 4248 ft. to 4320 ft. Total Depth 4320 ft.
Packer Depth 4242 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4248 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4232 ft. Recorder Number 5950 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4285 ft. Recorder Number 0230 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 59 Drill Collar Length 187 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 8.9 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2800 P.P.M. Drill Pipe Length 4024 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 11 Test Tool Length 37 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 72(40.5A) ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB-BUILT TO 2 1/2" IN 30 MINUTES **NOBB**
2nd Open: WSB-BUILT TO 2 1/2" IN 60 MINUTES **NOBB**

Recovered 127 ft. of WCM 30%W 70%M CHLORIDES 19000 PPM
Recovered 127 ft. of TOTAL FLUID RW .45 @ 60 DEGREES
Recovered _____ ft. of _____ PH 8

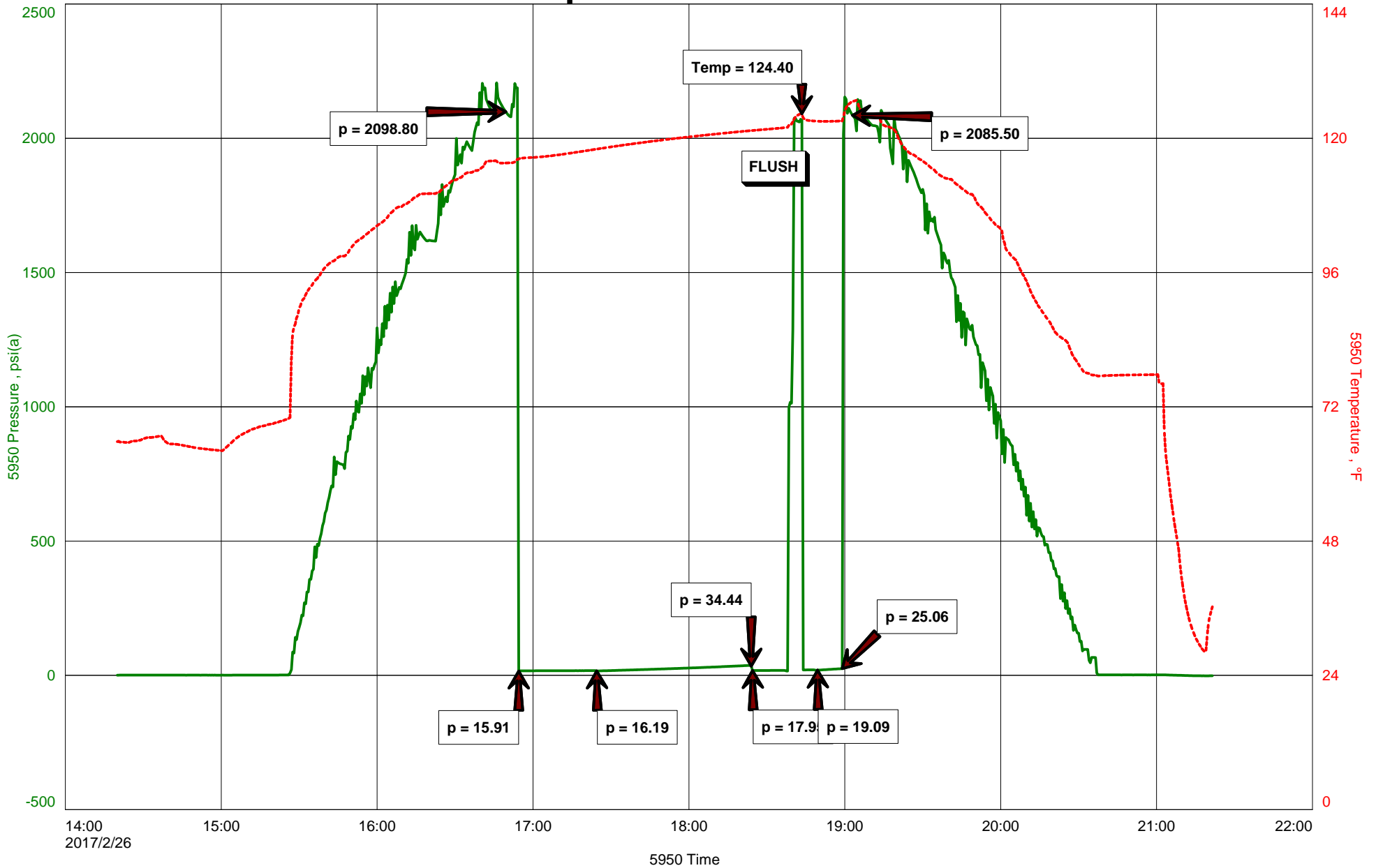
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: <u>SAMPLER RECOVERY: 500ML WATER 3500ML MUD</u>	Total
PSI: <u>225</u>	

Time Set Packer(s) 7:55 A.M. A.M. P.M. Time Started Off Bottom 11:55 A.M. A.M. P.M. Maximum Temperature 121

Initial Hydrostatic Pressure..... (A) 2040 P.S.I.
Initial Flow Period..... Minutes 30 (B) 18 P.S.I. to (C) 37 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 1287 P.S.I.
Final Flow Period..... Minutes 60 (E) 40 P.S.I. to (F) 74 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1261 P.S.I.
Final Hydrostatic Pressure..... (H) 2005 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Carpenter Trust #1-9



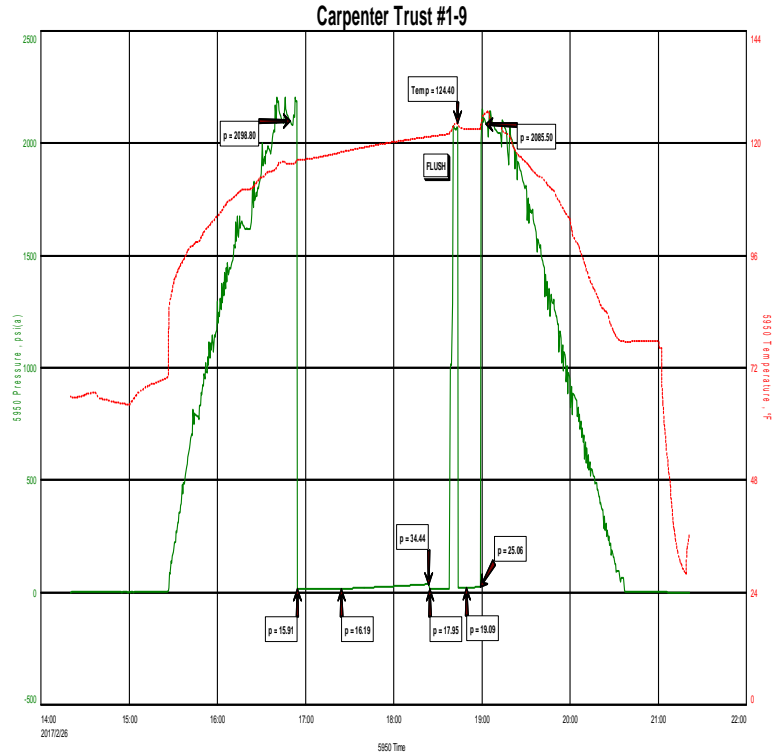


Hoisington, Kansas

Michael Carroll
620-617-0368
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General Information

Company Name	Gulf Exploration LLC
Contact	Pat McGraw
Well Name	Carpenter Trust #1-9
Unique Well ID	Dst #3 Lans/KC L&M 4466-4520'
Surface Location	Sec 9-7s-36w Thomas County
Field	Wildcat
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	Gulf Exploration LLC
Formation	Dst #3 Lans/KC L&M 4466-4520'
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Start Test Date	2017/02/26
Start Test Time	14:20:00
Final Test Time	21:20:00
Job Number	P0167
Report Date	2017/02/26
Prepared By	Michael Carroll



TEST RECOVERY

Remarks Recovery: 3' Mud 100%M
 Total Fluid: 3'
 Sampler Recovery: 2000ML Mud
 PSI: 0



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CARPENTERTRUST#1-9DST#3

TIME ON: 1420
TIME OFF: 2120

Company GULF EXPLORATION LLC Lease & Well No. CARPENTER TRUST #1-9
Contractor MURFIN DRLG RIG 7 Charge to GULF EXPLORATION LLC
Elevation 3384KB Formation LANS/KC L&M Effective Pay _____ Ft. Ticket No. P0167
Date 2-26-17 Sec. 15 Twp. 7 S Range 35 W County THOMAS State KANSAS
Test Approved By KEITH REAVIS Diamond Representative Michael Carroll

Formation Test No. 3 Interval Tested from 4466 ft. to 4520 ft. Total Depth 4520 ft.
Packer Depth 4460 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4466 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4450 ft. Recorder Number 5950 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4503 ft. Recorder Number 0230 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 57 Drill Collar Length 187 ft. I.D. 2 1/4 in.
Weight 9.0 Water Loss 8.7 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2700 P.P.M. Drill Pipe Length 4242 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 11 Test Tool Length 37 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 54(22.5A) ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB-BUILT TO 1/4" IN 30 MINUTES NOBB
2nd Open: NO BLOW-NO BUILD(FLUSHED TOOL)GOOD SURGE-NO BLOW NOBB

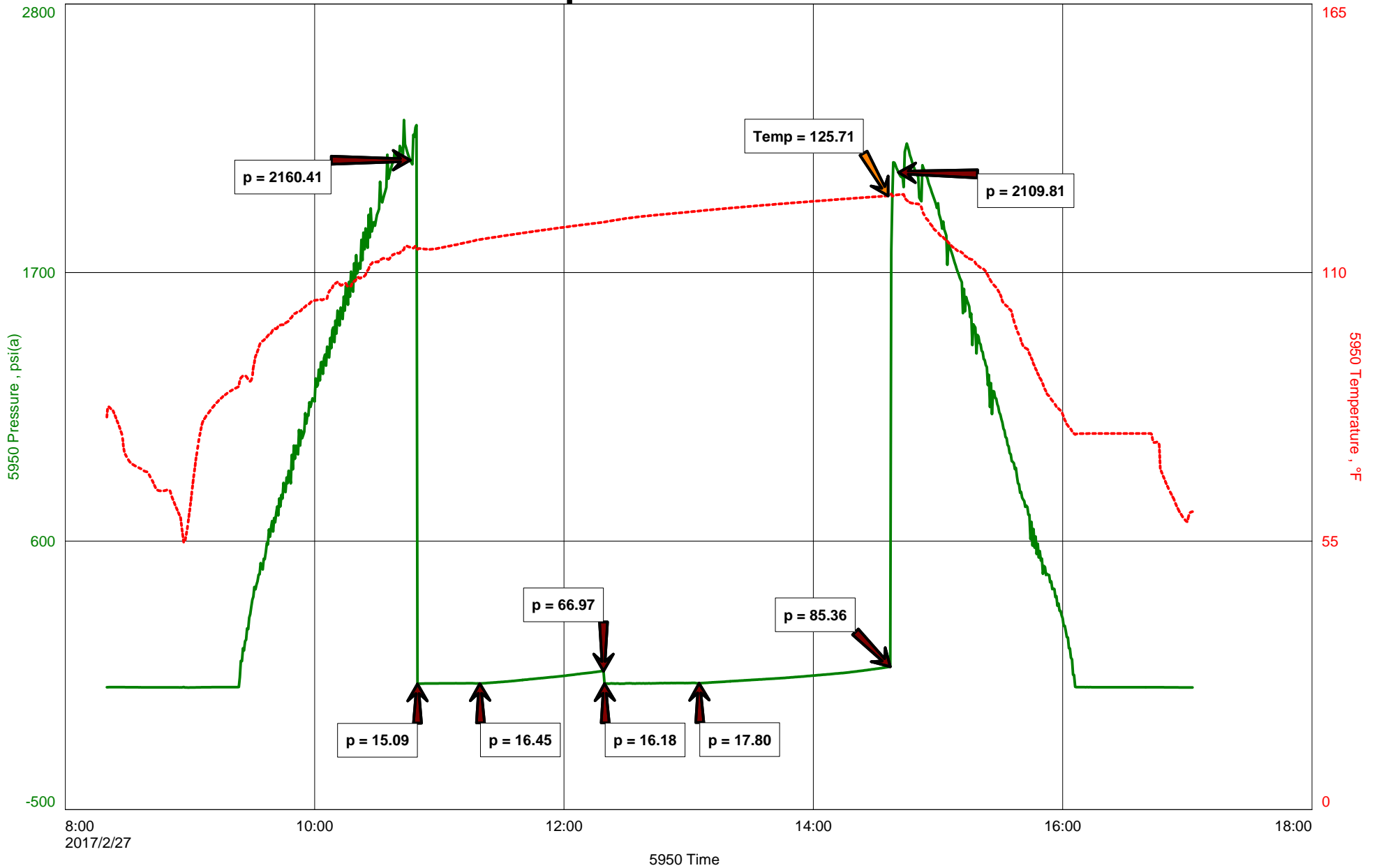
Recovered <u>3</u> ft. of <u>MUD 100%M</u>	Price Job Other Charges Insurance Total
Recovered <u>3</u> ft. of <u>TOTAL FLUID</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: <u>SAMPLER RECOVERY: 2000ML MUD</u>	
<u>PSI: 0</u>	

Time Set Packer(s) 4:50 P.M. A.M. P.M. Time Started Off Bottom 6:55 P.M. A.M. P.M. Maximum Temperature 124

Initial Hydrostatic Pressure..... (A) 2099 P.S.I.
Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 16 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 34 P.S.I.
Final Flow Period..... Minutes 25 (E) 18 P.S.I. to (F) 19 P.S.I.
Final Closed In Period..... Minutes 10 (G) 25 P.S.I.
Final Hydrostatic Pressure..... (H) 2086 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Carpenter Trust #1-9





Hoisington, Kansas

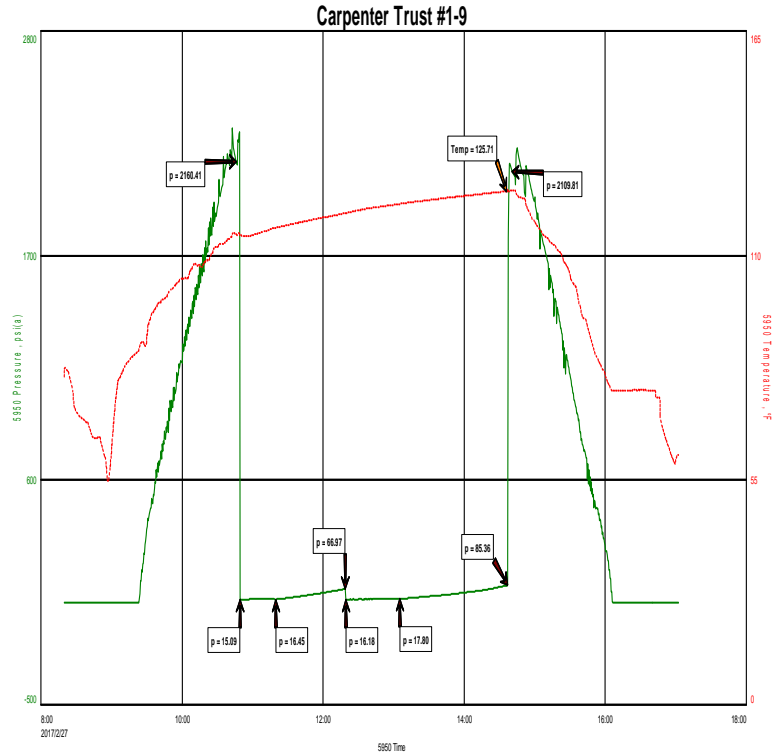
Michael Carroll
620-617-0368
carroll.dtlc@gmail.com

General Information

Company Name Gulf Exploration LLC

Contact Pat McGraw
Well Name Carpenter Trust #1-9
Unique Well ID Dst #4 Marmaton 4538-4570'
Surface Location Sec 9-7s-36w Thomas County
Field Wildcat
Well Type Vertical
Test Type Drill Stem Test
Well Operator Gulf Exploration LLC

Formation Dst #4 Marmaton 4538-4570'
Well Fluid Type 01 Oil
Test Purpose Initial Test
Start Test Date 2017/02/27
Start Test Time 08:20:00
Final Test Time 17:02:00
Job Number P0168
Report Date 2017/02/27
Prepared By Michael Carroll



TEST RECOVERY

Remarks Recovery: 5' OCM 25%O 75%M

Total Fluid: 5'

Sampler Recovery: 500ML Oil 3500ML Mud
 PSI: 25



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CARPENTERTRUST#1-9DST#4

TIME ON: 0820
TIME OFF: 1702

Company GULF EXPLORATION LLC Lease & Well No. CARPENTER TRUST #1-9
Contractor MURFIN DRLG RIG 7 Charge to GULF EXPLORATION LLC
Elevation 3384KB Formation MARMATON Effective Pay _____ Ft. Ticket No. P0168
Date 2-27-17 Sec. 15 Twp. 7 S Range 35 W County THOMAS State KANSAS
Test Approved By KEITH REAVIS Diamond Representative Michael Carroll

Formation Test No. 4 Interval Tested from 4538 ft. to 4570 ft. Total Depth 4570 ft.

Packer Depth 4532 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 4538 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4522 ft. Recorder Number 5950 Cap. 5000 P.S.I.

Bottom Recorder Depth (Outside) 4542 ft. Recorder Number 0230 Cap. 5000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 60 Drill Collar Length 187 ft. I.D. 2 1/4 in.

Weight 9.0 Water Loss 8.1 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 1900 P.P.M. Drill Pipe Length 4314 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 11 Test Tool Length 37 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 32 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB-BUILT TO 1 1/4" IN 30 MINUTES NOBB

2nd Open: WSB-BUILT TO 1/4" IN 45 MINUTES NOBB

Recovered 5 ft. of OCM 25%O 75%M

Recovered 5 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: SAMPLER RECOVERY: 500ML OIL 3500ML MUD

PSI: 25

Time Set Packer(s) 10:45 A.M. A.M. P.M. Time Started Off Bottom 2:30 P.M. A.M. P.M. Maximum Temperature 126

Initial Hydrostatic Pressure..... (A) 2160 P.S.I.

Initial Flow Period..... Minutes 30 (B) 15 P.S.I. to (C) 16 P.S.I.

Initial Closed In Period..... Minutes 60 (D) 67 P.S.I.

Final Flow Period..... Minutes 45 (E) 16 P.S.I. to (F) 18 P.S.I.

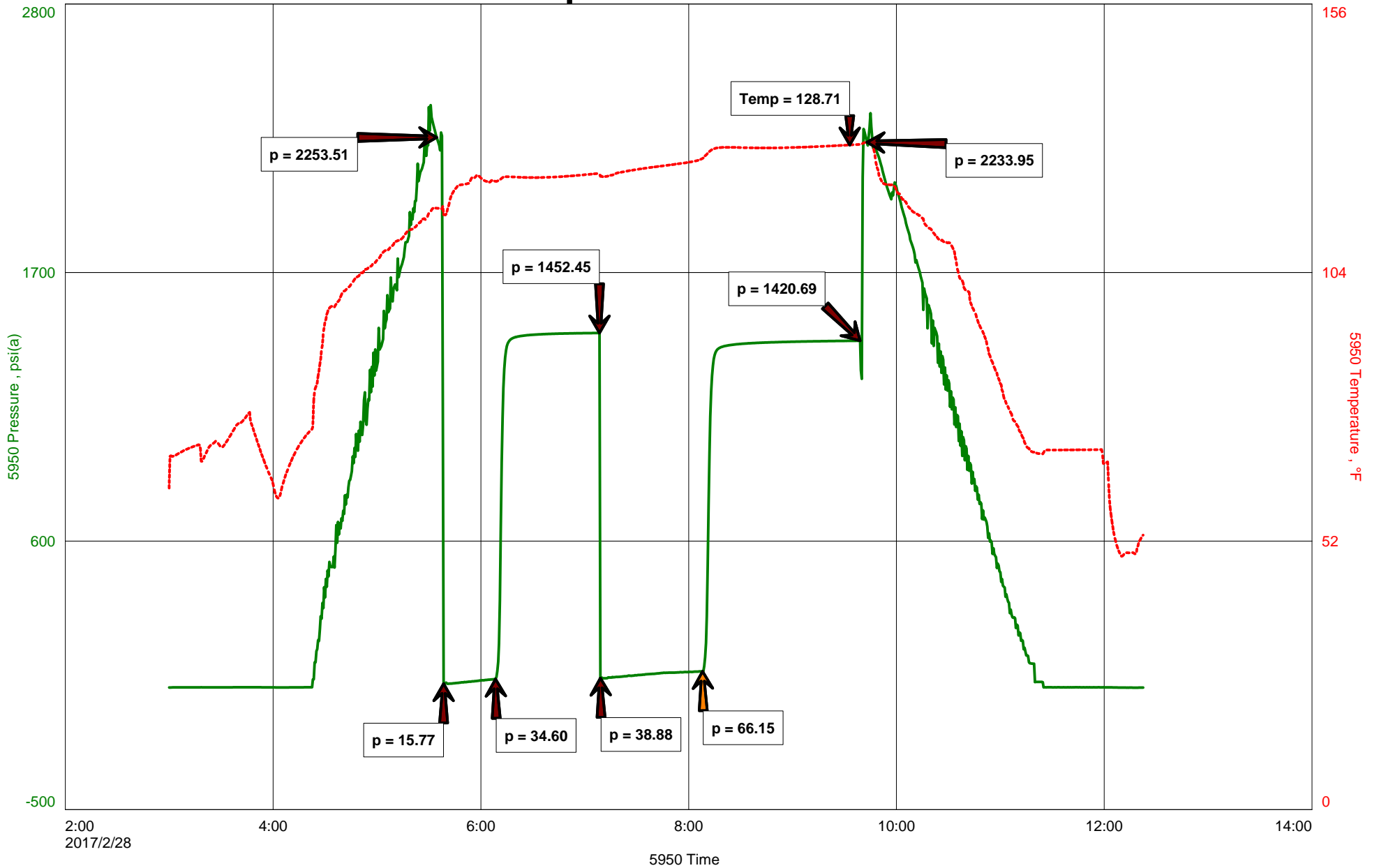
Final Closed In Period..... Minutes 90 (G) 85 P.S.I.

Final Hydrostatic Pressure..... (H) 2110 P.S.I.

Price Job
Other Charges
Insurance
Total

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Carpenter Trust #1-9





Hoisington, Kansas

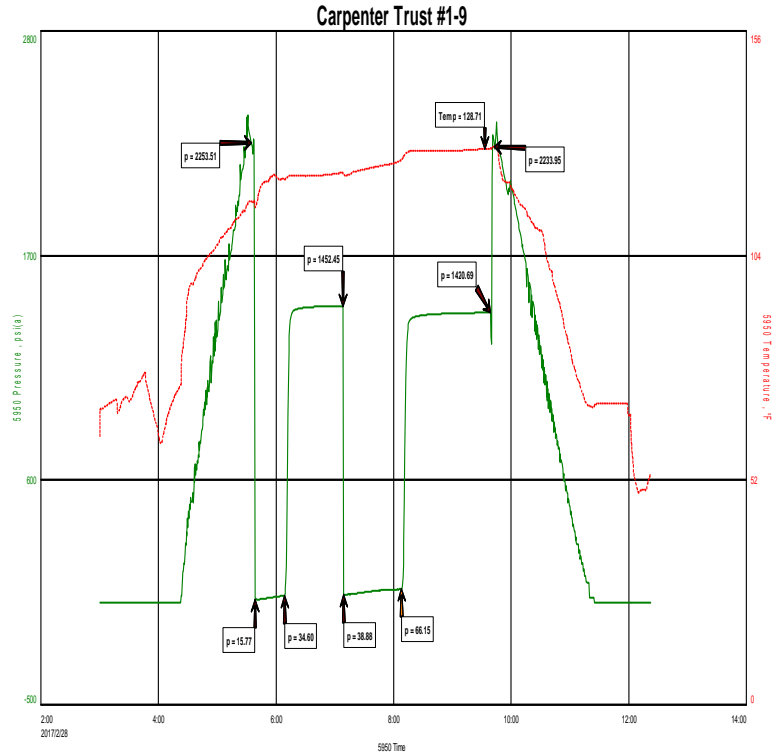
Michael Carroll
620-617-0368
carroll.dtlc@gmail.com

General Information

Company Name Gulf Exploration LLC

Contact	Pat McGraw
Well Name	Carpenter Trust #1-9
Unique Well ID	Dst #5 Pawnee 4598-4636'
Surface Location	Sec 9-7s-36w Thomas County
Field	Wildcat
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	Gulf Exploration LLC

Formation	Dst #5 Pawnee 4598-4636'
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Start Test Date	2017/02/28
Start Test Time	03:00:00
Final Test Time	12:25:00
Job Number	P0169
Report Date	2017/02/28
Prepared By	Michael Carroll



TEST RECOVERY

Remarks	Recovery:	219'	Gas In Pipe
		120'	Clean Oil Gravity 26 @ 60 Degrees
		37'	GCHOCM 11%G 39%O 50%M

Total Fluid: 157'

Sampler Recovery: 2000ML Oil 2000ML Mud
PSI: 300



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313

TIME ON: 0300
 TIME OFF: 1225

DRILL-STEM TEST TICKET
 FILE: CARPENTERTRUST#1-9DST#5

Company GULF EXPLORATION LLC Lease & Well No. CARPENTER TRUST #1-9
 Contractor MURFIN DRLG RIG 7 Charge to GULF EXPLORATION LLC
 Elevation 3384KB Formation PAWNEE Effective Pay _____ Ft. Ticket No. P0169
 Date 2-28-17 Sec. 15 Twp. 7 S Range 35 W County THOMAS State KANSAS
 Test Approved By KEITH REAVIS Diamond Representative Michael Carroll

Formation Test No. 5 Interval Tested from 4598 ft. to 4636 ft. Total Depth 4636 ft.

Packer Depth 4592 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 4598 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4582 ft. Recorder Number 5950 Cap. 5000 P.S.I.

Bottom Recorder Depth (Outside) 4602 ft. Recorder Number 0230 Cap. 5000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 60 Drill Collar Length 187 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 10.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 2200 P.P.M. Drill Pipe Length 4374 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 11 Test Tool Length 37 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 38 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/4" BLOW-BUILT TO 8 1/2" IN 30 MINUTES 1/2" BB

2nd Open: 1/4" BLOW-BUILT TO 10" IN 60 MINUTES 2" BB

Recovered 219 ft. of GAS IN PIPE

Recovered 120 ft. of CLEAN OIL GRAVITY 26 @ 60 DEGREES

Recovered 37 ft. of GCHOXM 11%G 39%O 50%M

Recovered 157 ft. of TOTAL FLUID

Recovered _____ ft. of _____ Price Job _____

Recovered _____ ft. of _____ Other Charges _____

Remarks: SAMPLER RECOVERY: 2000ML OIL 2000ML MUD Insurance _____

PSI: 300

DIESEL IN BUCKET Total _____

Time Set Packer(s) 5:38 A.M. A.M. P.M. Time Started Off Bottom 9:38 A.M. A.M. P.M. Maximum Temperature 129

Initial Hydrostatic Pressure..... (A) 2254 P.S.I.

Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 35 P.S.I.

Initial Closed In Period..... Minutes 60 (D) 1452 P.S.I.

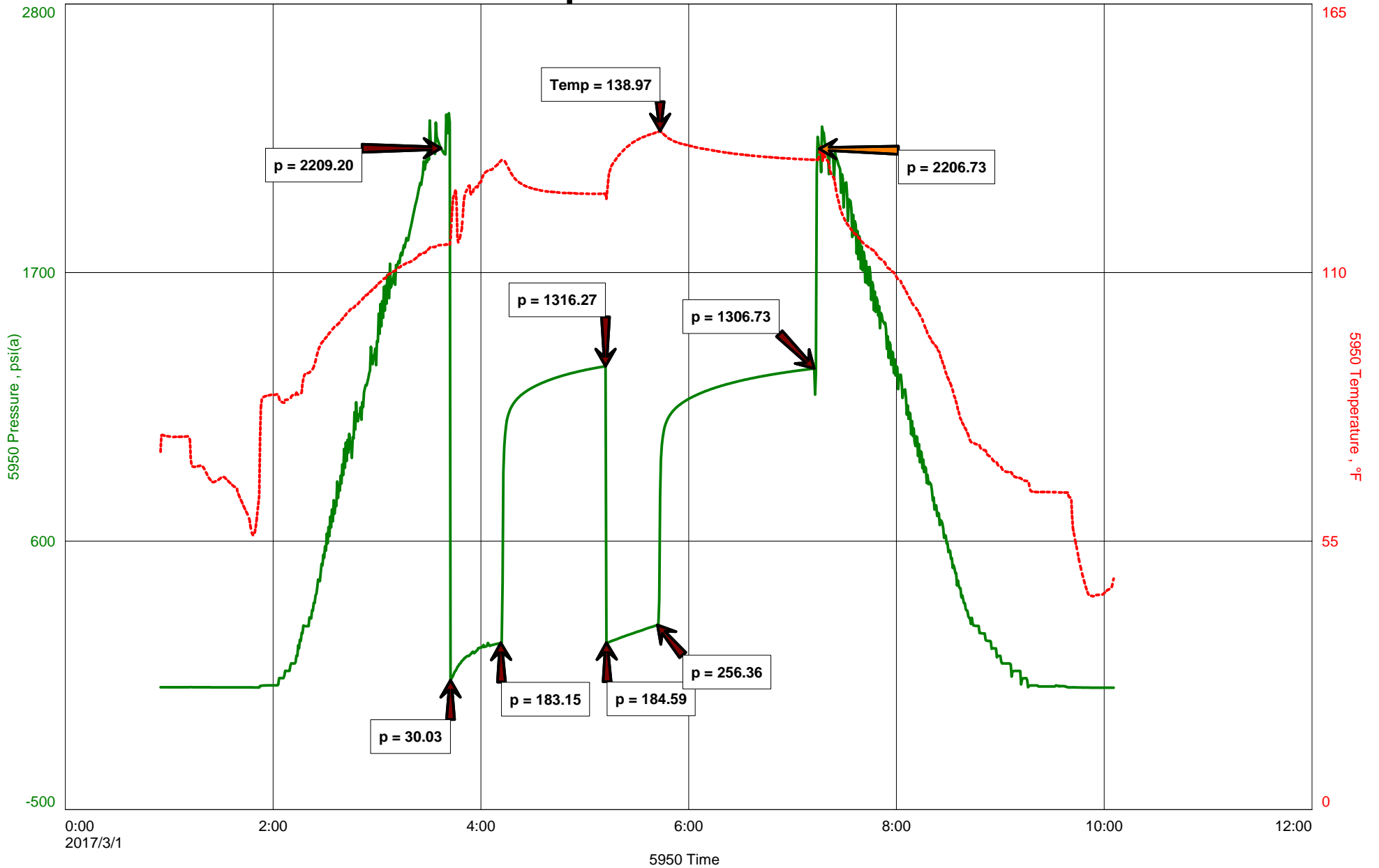
Final Flow Period..... Minutes 60 (E) 39 P.S.I. to (F) 66 P.S.I.

Final Closed In Period..... Minutes 90 (G) 1421 P.S.I.

Final Hydrostatic Pressure..... (H) 2234 P.S.I.

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Carpenter Trust #1-9





Michael Carroll
 620-617-0368
 carroll.dtlc@gmail.com

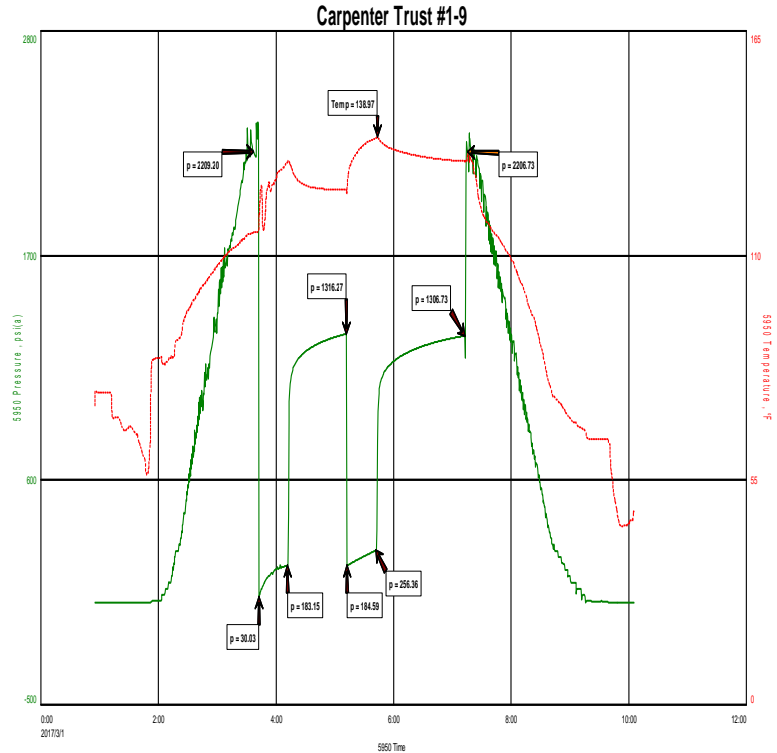
Hoisington, Kansas

General Information

Company Name Gulf Exploration LLC

Contact Pat McGraw
Well Name Carpenter Trust #1-9
Unique Well ID Dst #6 Ft.Scott/Chero 4635-4695'
Surface Location Sec 9-7s-36w Thomas County
Field Wildcat
Well Type Vertical
Test Type Drill Stem Test
Well Operator Gulf Exploration LLC

Formation Dst#6 Ft.Scott/Chero 4635-4695'
Well Fluid Type 01 Oil
Test Purpose Initial Test
Start Test Date 2017/03/01
Start Test Time 00:55:00
Final Test Time 10:05:00
Job Number P0170
Report Date 2017/03/01
Prepared By Michael Carroll



TEST RECOVERY

Remarks	Recovery:	98'	10'	20'	189'	63'	250'
		Gas In Pipe	Clean Oil Gravity 25 @ 60 Degrees	WCHOCM 40%O 10%W 50%M	GCOCWM 4%G 16%O 20%W 60%M	SLGCOCMW 2%G 8%O 50%W 40%M	SLOCMCW 2%O 94%W 4%M

Total Fluid: 532'

Sampler Recovery: 1500ML Oil 2500ML Water
 PSI: 260

Chlorides 54000 PPM
 RW .26 @ 40 Degrees
 PH 7



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CARPENTERTRUST#1-9DST#6

TIME ON: 0055
TIME OFF: 1005

Company GULF EXPLORATION LLC Lease & Well No. CARPENTER TRUST #1-9
Contractor MURFIN DRLG RIG 7 Charge to GULF EXPLORATION LLC
Elevation 3384KB Formation FT.SCOTT/CHEROKEE Effective Pay _____ Ft. Ticket No. P0170
Date 3-01-17 Sec. 9 Twp. _____ 7 S Range _____ 36 W County THOMAS State KANSAS
Test Approved By KEITH REAVIS Diamond Representative Michael Carroll

Formation Test No. 6 Interval Tested from 4635 ft. to 4695 ft. Total Depth 4695 ft.
Packer Depth 4629 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4635 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4619 ft. Recorder Number 5950 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4672 ft. Recorder Number 0230 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 57 Drill Collar Length 187 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 9.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3100 P.P.M. Drill Pipe Length 4411 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 11 Test Tool Length 37 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 60(28.5A) ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/2" BLOW-BUILT TO BOB IN 13 MINUTES NOBB
2nd Open: WSB-BUILT TO BOB IN 22 MINUTES 1/2" BB

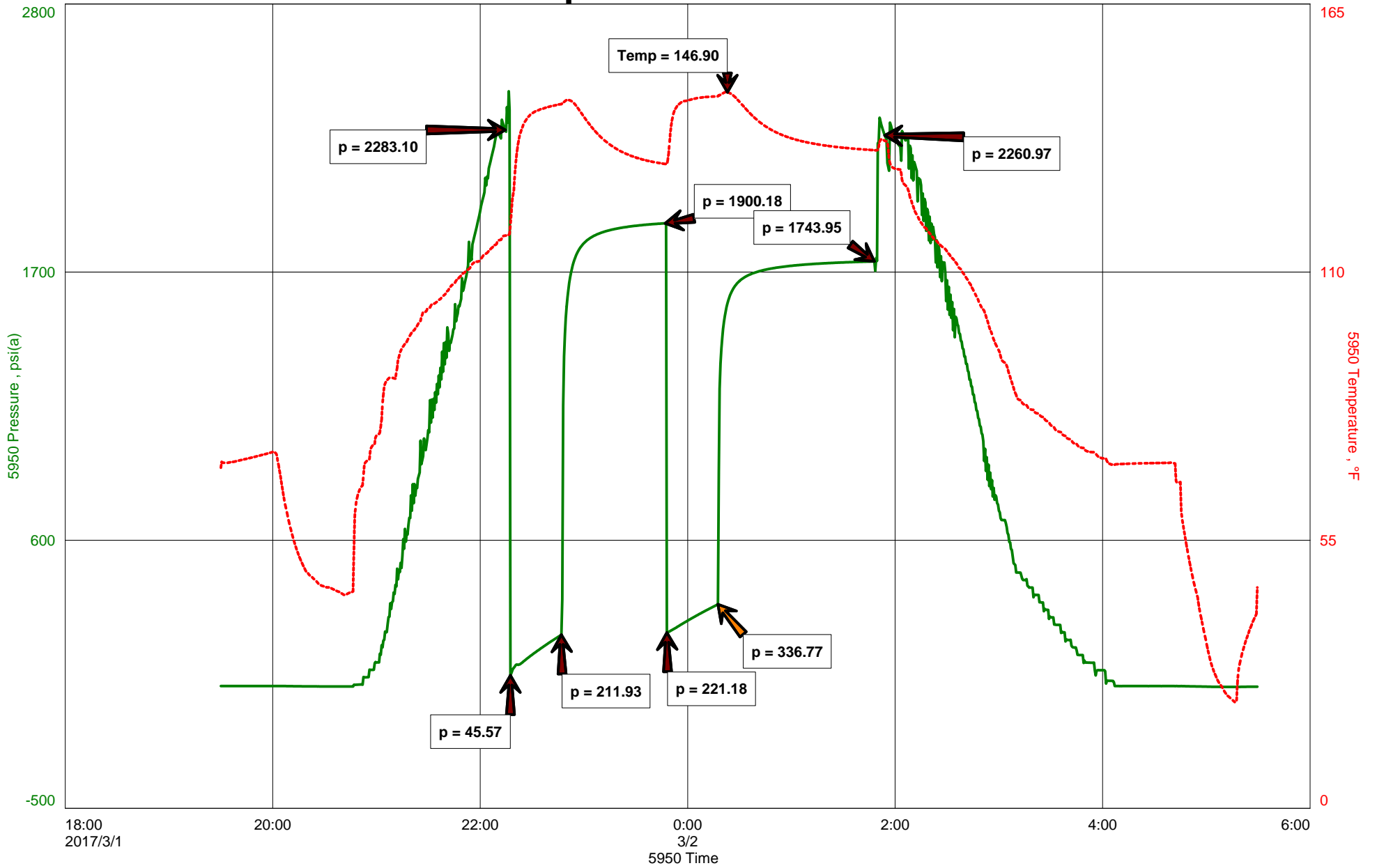
Recovered <u>98</u> ft. of <u>GAS IN PIPE</u>	<u>CHLORIDES 54000 PPM</u>
Recovered <u>10</u> ft. of <u>CLEAN OIL GRAVITY 25 @ 60 DEGREES</u>	<u>RW .26 @ 40 DEGREES</u>
Recovered <u>20</u> ft. of <u>WCHO CM 40%O 10%W 50%M</u>	<u>PH 7</u>
Recovered <u>189</u> ft. of <u>GCOCWM 4%G 16%O 20%W 60%M</u>	
Recovered <u>63</u> ft. of <u>SLGCO CMW 2%G 8%O 50%W 40%M</u>	Price Job
Recovered <u>250</u> ft. of <u>SLOCMCW 2%O 94%W 4%M (532 TOTAL FLUID)</u>	Other Charges
Remarks: <u>SAMPLER RECOVERY: 1500ML OIL 2500ML WATER</u>	Insurance
<u>PSI: 260</u>	
<u>DIESEL IN BUCKET</u>	Total

Time Set Packer(s) 3:40 A.M. A.M. P.M. Time Started Off Bottom 7:10 A.M. A.M. P.M. Maximum Temperature 139

Initial Hydrostatic Pressure..... (A) 2209 P.S.I.
Initial Flow Period..... Minutes 30 (B) 30 P.S.I. to (C) 183 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 1316 P.S.I.
Final Flow Period..... Minutes 30 (E) 185 P.S.I. to (F) 256 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1307 P.S.I.
Final Hydrostatic Pressure..... (H) 2207 P.S.I.

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Carpenter Trust #1-9





Hoisington, Kansas

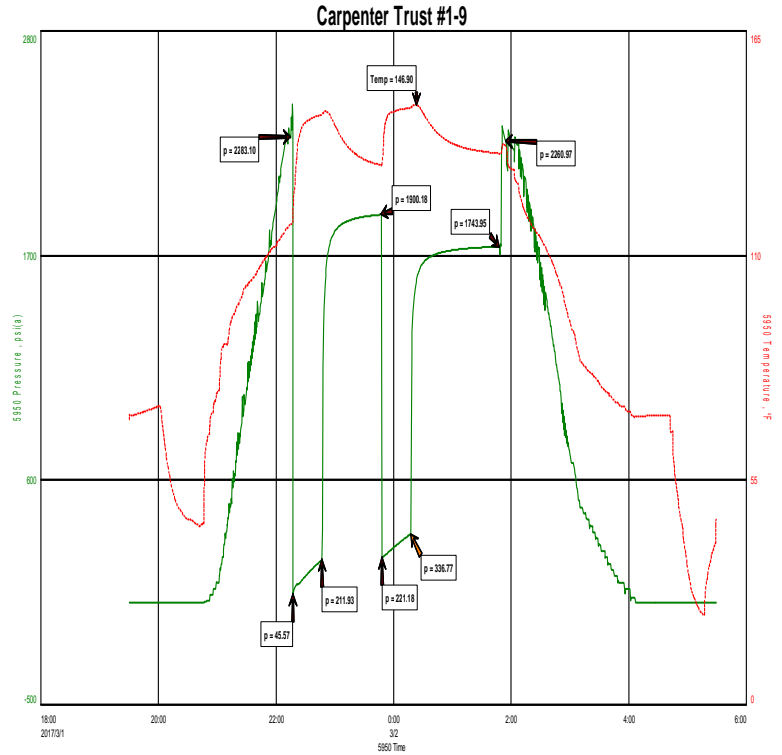
Michael Carroll
620-617-0368
carroll.dtlc@gmail.com

General Information

Company Name Gulf Exploration LLC

Contact Pat McGraw
Well Name Carpenter Trust #1-9
Unique Well ID Dst #7 Cherokee 4700-4752'
Surface Location Sec 9-7s-36w Thomas County
Field Wildcat
Well Type Vertical
Test Type Drill Stem Test
Well Operator Gulf Exploration LLC

Formation Dst #7 Cherokee 4700-4752'
Well Fluid Type 01 Oil
Test Purpose Initial Test
Start Test Date 2017/03/01
Start Test Time 19:30:00
Final Test Time 05:30:00
Job Number P0171
Report Date 2017/03/01
Prepared By Michael Carroll



TEST RECOVERY

Remarks Recovery: 441' Gas In Pipe
 880' Clean Oil Gravity 27 @ 60 Degrees
 63' GCMCO 15%G 70%O 15%M

Total Fluid: 943'

Sampler Recovery: 4000ML Gassy Oil
PSI: 380



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

TIME ON: 1930 3-01
 TIME OFF: 0530 3-02

DRILL-STEM TEST TICKET
 FILE: CARPENTERTRUST#1-9DST#7

Company GULF EXPLORATION LLC Lease & Well No. CARPENTER TRUST #1-9
 Contractor MURFIN DRLG RIG 7 Charge to GULF EXPLORATION LLC
 Elevation 3384KB Formation CHEROKEE Effective Pay _____ Ft. Ticket No. P0171
 Date 3-01-17 Sec. 9 Twp. 7 S Range 36 W County THOMAS State KANSAS
 Test Approved By KEITH REAVIS Diamond Representative Michael Carroll

Formation Test No. 7 Interval Tested from 4700 ft. to 4752 ft. Total Depth 4752 ft.

Packer Depth 4694 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 4700 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4684 ft. Recorder Number 5950 Cap. 5000 P.S.I.

Bottom Recorder Depth (Outside) 4737 ft. Recorder Number 0230 Cap. 5000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 57 Drill Collar Length 187 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 9.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 3100 P.P.M. Drill Pipe Length 4476 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 11 Test Tool Length 37 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 52(20.5A) ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/2" BLOW-BUILT TO BOB IN 5 MINUTES 15 SECONDS 5"BB

2nd Open: 1/2" BLOW-BUILT TO BOB IN 9 MINUTES 45 SECONDS 7"BB

Recovered 441 ft. of GAS IN PIPE

Recovered 880 ft. of CLEAN OIL GRAVITY 27 @ 60 DEGREES

Recovered 63 ft. of GCMCO 15%G 70%O 15%M

Recovered 943 ft. of TOTAL FLUID

Recovered _____ ft. of _____ Price Job _____

Recovered _____ ft. of _____ Other Charges _____

Remarks: SAMPLER RECOVERY: 4000ML GASSY OIL Insurance _____

PSI: 380 Total _____

Time Set Packer(s) 10:15 P.M. A.M. Time Started Off Bottom 1:45 A.M. P.M. Maximum Temperature 147

Initial Hydrostatic Pressure..... (A) 2283 P.S.I.

Initial Flow Period..... Minutes 30 (B) 46 P.S.I. to (C) 212 P.S.I.

Initial Closed In Period..... Minutes 60 (D) 1900 P.S.I.

Final Flow Period..... Minutes 30 (E) 221 P.S.I. to (F) 337 P.S.I.

Final Closed In Period..... Minutes 90 (G) 1744 P.S.I.

Final Hydrostatic Pressure..... (H) 2261 P.S.I.

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