



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1266085
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1266085

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	Pat 1
Doc ID	1266085

Tops

Name	Top	Datum
Elgin Sand	3374	-1886
Elgin Sand	3467	-1979
Heebner	3558	-2070
Brown Lime	3757	-2269
Stark	4147	-2658
Hush	4178	-2690
Base KC	4236	-2748
Mississippian	4327	-2839
Kinderhook	4500	-3012
Viola	4616	-3128
Simpson Sand	4693	-3205

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

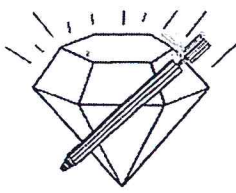
6373

Home Office 324 Simpson St., Pratt, KS 67124

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

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

Date	09-17-15	Sec.	25	Twp.	32s	Range	12w	County	Barber	State	KS	On Location	7:30 PM	Finish	9:00 PM
Lease	Pat		Well No.		1		Location 160 & 281, 2 1/2 s, w/140								
Contractor	WW #4				Owner		Griffin								
Type Job	Surface				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Hole Size	12 1/4		T.D.		270										
Csg.	8 5/8		Depth		268										
Tbg. Size			Depth		Street										
Tool			Depth		City State										
Cement Left in Csg.	20'		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.										
Meas Line			Displace		15 1/2 BBl's Fr. Cement Amount Ordered 175 sx class A + 3% occ + 2%										
EQUIPMENT												gel & 1/4" # Flowseal			
Pumptrk	8	No.	M. Ke. B		Common 175										
Bulktrk	10	No.	David B		Poz. Mix										
Bulktrk		No.			Gel. 3										
Pickup		No.	David F		Calcium 6										
JOB SERVICES & REMARKS												Hulls			
Rat Hole												Salt			
Mouse Hole												Flowseal 43.75			
Centralizers												Kol-Seal			
Baskets												Mud CLR 48			
DN or Port Collar												CFL-117 or CD110 CAF 38			
Pipe on Btm, Break Circ, Pump Spacer												Sand			
Mix 175sx A 243 cement, Start Disp.												Handling 184			
w/ Fresh H ₂ O, Wash up truck, See Speedy												Mileage 10			
increase in PST, Slow Rate, Stop Pump												FLOAT EQUIPMENT			
at 15 1/2 BBl's, Shut in, Cement Did Circ												Guide Shoe			
												Centralizer			
												Baskets			
												AFU Inserts			
												Float Shoe			
												Latch Down			
												LMU 10			
												Service Supervisor			
												Pumptrk Charge Surface			
												Mileage 10 x 2			
												Tax			
												Discount			
												Total Charge			
X Signature <i>M. J. Brady</i>															



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
pat1dst1

Company Charles N. Griffin Lease & Well No. Pat No. 1
Elevation 1483 GL Formation Elgin Sand Effective Pay Ft. Ticket No. K256
Date 9-21-15 Sec. 25 Twp. 32S Range 12W County Barber State Kansas
Test Approved By Bruce A. Reed Diamond Representative Jason McLemore

Formation Test No. 1 Interval Tested from 3,372 ft. to 3,478 ft. Total Depth 3,478 ft.
Packer Depth 3,367 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,372 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,353 ft. Recorder Number 5513 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,354 ft. Recorder Number 5588 Cap. 6,000 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor WW Drilling, LLC - Rig 4 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Mud Type Chemical Viscosity 28 Weight Pipe Length ft. I.D. in.
Weight 9.8 Water Loss cc. Drill Pipe Length 3,219 ft. I.D. 3 1/2 in.
Chlorides 77,000 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 6 Anchor Length 12' perf. w/94' drill pipe Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Good blow increasing. Off bottom of bucket in 6 mins. No blow back during shut-in.
2nd Open: Strong blow increasing. Off bottom of bucket on open. Gas to surface in 14 mins. Too weak to gauge. No blow back during shut-in.

Recovered 225 ft. of drilling mud = 2.084550 bbls.
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks

Time Set Packer(s) 12:39 A.M. Time Started off Bottom 2:39 A.M. Maximum Temperature 105°
Initial Hydrostatic Pressure.....(A) 1551 P.S.I.
Initial Flow Period.....Minutes 30 (B) 15 P.S.I. to (C) 67 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 933 P.S.I.
Final Flow Period.....Minutes 30 (E) 82 P.S.I. to (F) 97 P.S.I.
Final Closed In Period.....Minutes 30 (G) 550 P.S.I.
Final Hydrostatic Pressure.....(H) 1532 P.S.I.



JASON MCLEMORE

CELL # 620-617-0527

General Information

Company Name	Charles N. Griffin		
Contact	Charles N. Griffin	Job Number	K256
Well Name	Pat #1	Representative	Jason McLemore
Unique Well ID	DST #1 Elgin Sand 3372-3478	Well Operator	Charles N.Griffin
Surface Location	25-32s-12w Barber	Prepared By	Jason McLemore
Field	Toni-Mike NE	Qualified By	Bruce Reed
Well Type	Vertical	Test Unit	6

Test Information

Test Type	Drill Stem Test	Representative	Jason McLemore
Formation	Elgin Sand	Well Operator	Charles N. Griffin
Well Fluid Type		Report Date	2015/09/21
Test Purpose (AEUB)		Prepared By	Jason McLemore

Start Test Date	2015/09/20	Start Test Time	22:35:00
Final Test Date	2015/09/21	Final Test Time	04:57:00

Test Results

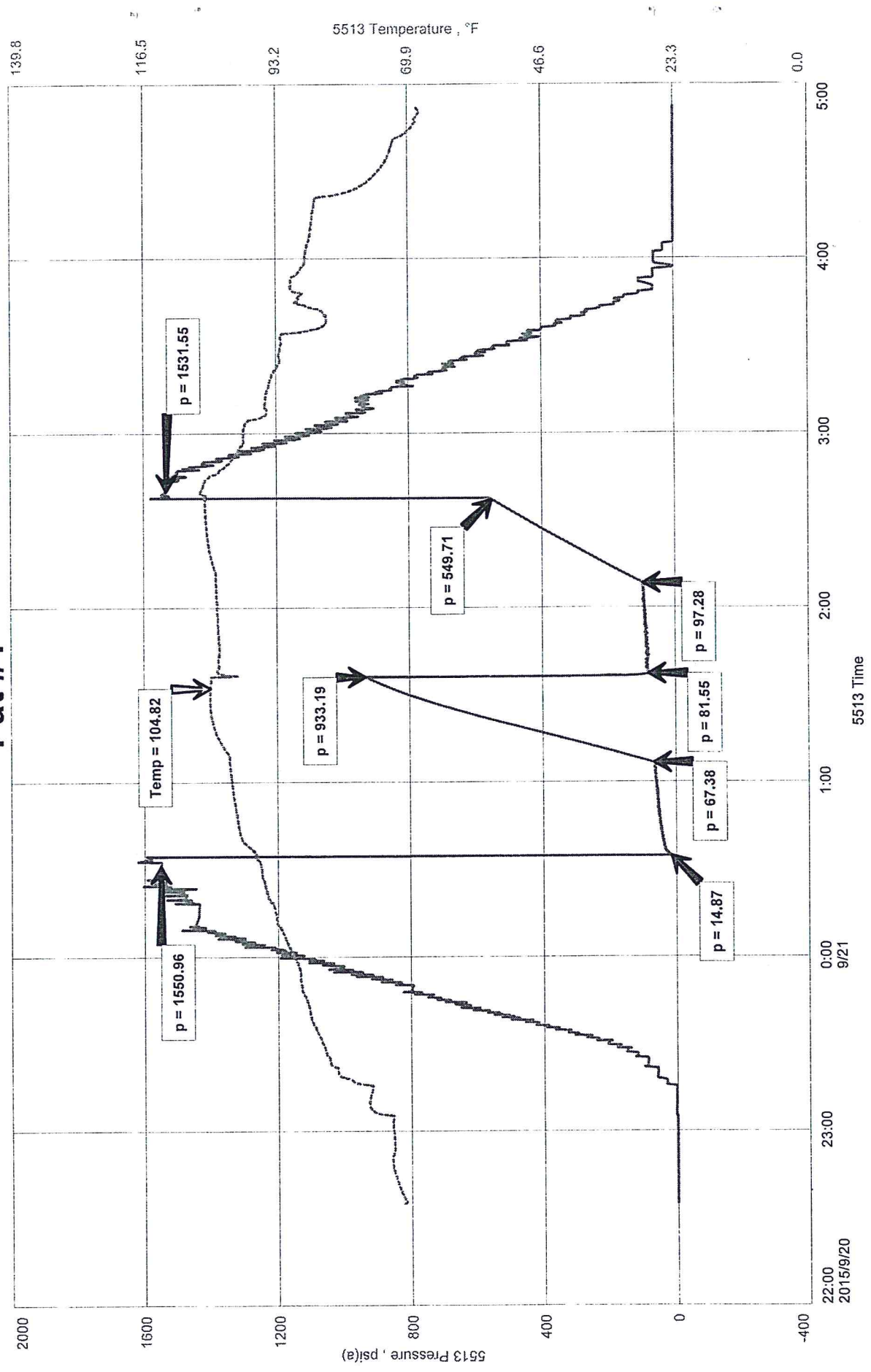
RECOVERED:

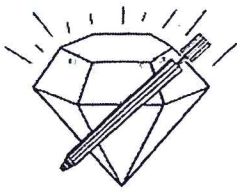
225'	Drilling Mud
225'	TOTAL FLUID

Pat #1
Formation: Elgin Sand
Pool: Toni-Mike NE
Job Number: K256

Charles N. Griffin
DST #1 Elgin Sand 3372-3478
Start Test Date: 2015/09/20
Final Test Date: 2015/09/21

Pat #1





DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
pat1dst2

Company Charles N. Griffin Lease & Well No. Pat No. 1
Elevation 1483 GL Formation Snyderville Sand Effective Pay Ft. Ticket No. K257
Date 9-21-15 Sec. 25 Twp. 32S Range 12W County Barber State Kansas
Test Approved By Bruce A. Reed Diamond Representative Jason McLemore

Formation Test No. 2 Interval Tested from 3,537 ft. to 3,594 ft. Total Depth 3,594 ft.
Packer Depth 3,532 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,537 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,518 ft. Recorder Number 5513 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,519 ft. Recorder Number 5588 Cap. 6,000 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor WW Drilling, LLC - Rig 4 Drill Collar Length 120 ft I.D. 2 1/4 in.
Mud Type Chemical Viscosity 51 Weight Pipe Length ft I.D. in.
Weight 8.9 Water Loss 9.2 cc. Drill Pipe Length 3,384 ft I.D. 3 1/2 in.
Chlorides 6,000 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 6 Anchor Length 26' perf. w/31' drill pipe Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Weak blow increasing to 5 ins. No blow back during shut-in.

2nd Open: Intermittent blow increasing to 5 ins. No blow back during shut-in.

Recovered 165 ft. of mud w/oil specks = 1.230750 bbls. (Grind out: 1%-oil; 99%-mud)

Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks

Time Set Packer(s) 3:32 P.M. Time Started off Bottom 5:32 P.M. Maximum Temperature 104°
Initial Hydrostatic Pressure.....(A) 1614 P.S.I.
Initial Flow Period.....Minutes 30 (B) 12 P.S.I. to (C) 57 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 189 P.S.I.
Final Flow Period.....Minutes 30 (E) 79 P.S.I. to (F) 100 P.S.I.
Final Closed In Period.....Minutes 30 (G) 155 P.S.I.
Final Hydrostatic Pressure.....(H) 1597 P.S.I.



JASON MCLEMORE

CELL # 620-617-0527

General Information

Company Name	Charles N. Griffin	Charles N. Griffin	Job Number	K257	
Contact		Pat #1	Representative	Jason McLemore	
Well Name		DST #2 Snyderville Sand	3537-3594	Well Operator	Charles N. Griffin
Unique Well ID		25-32s-12w Barber	Prepared By	Jason McLemore	
Surface Location		Toni-Mike NE	Qualified By	Bruce Reed	
Field		Vertical	Test Unit	6	
Well Type					

Test Information

Test Type	Drill Stem Test	Representative	Jason McLemore
Formation	Snyderville Sand	Well Operator	Charles N. Griffin
Well Fluid Type	01 Oil	Report Date	2015/09/21
Test Purpose (AEUB)	Initial Test	Prepared By	Jason McLemore
Start Test Date	2015/09/21	Start Test Time	13:40:00
Final Test Date	2015/09/21	Final Test Time	19:30:00

Test Results

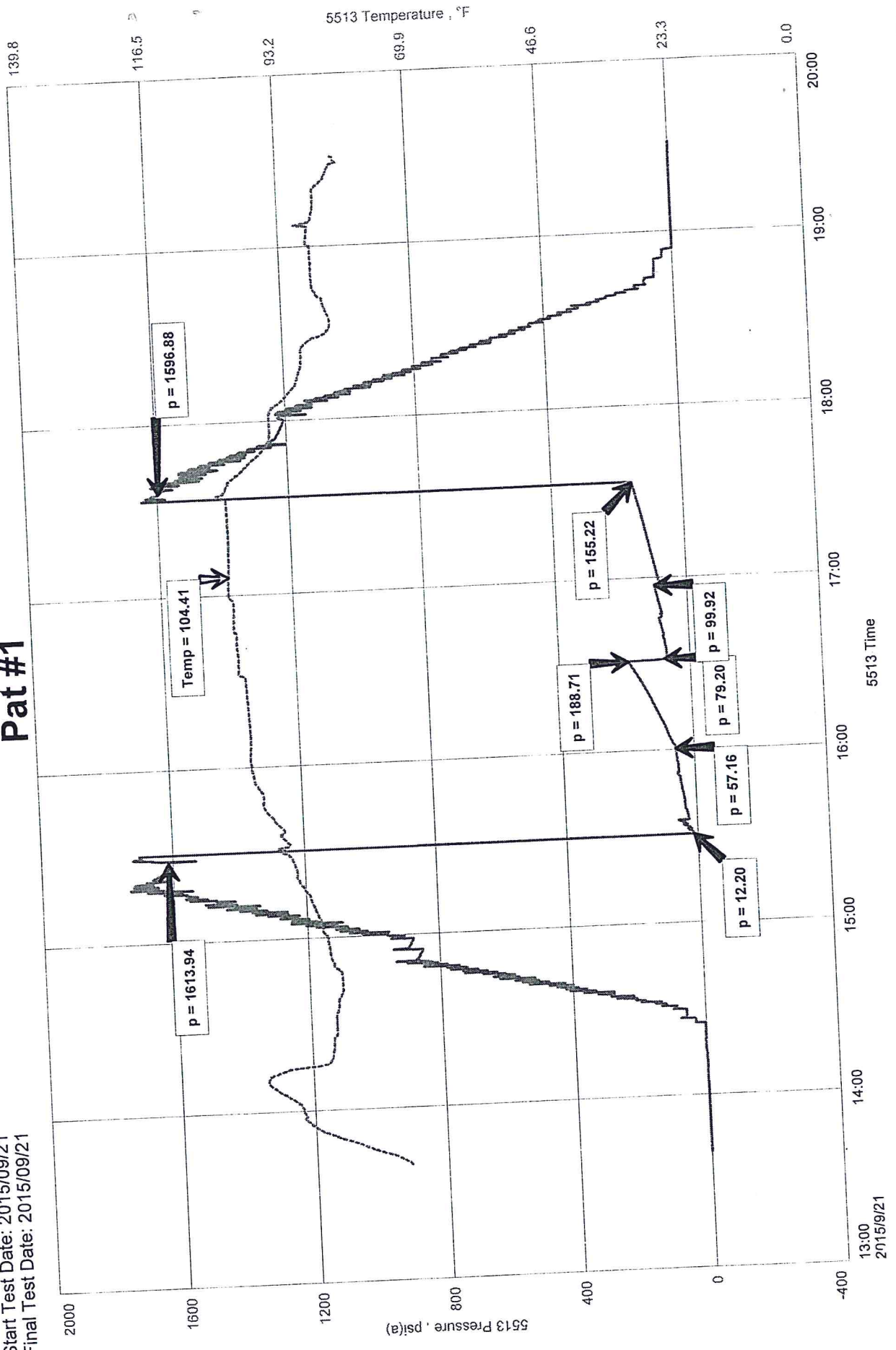
RECOVERED:

165'	Mud With Oil Specks, 1% Oil, 99% Mud
165'	TOTAL FLUID

Pat #1
 Formation: Snyderville Sand
 Pool: Toni-Mike NE
 Job Number: K257

Charles N. Griffin
 DST #2 Snyderville Sand 3537-3594
 Start Test Date: 2015/09/21
 Final Test Date: 2015/09/21

Pat #1



139.8

116.5

93.2

69.9

46.6

23.3

0.0

5513 Temperature, °F

2000

1600

1200

800

400

0

-400

5513 Pressure, psi(a)

13:00

14:00

15:00

16:00

17:00

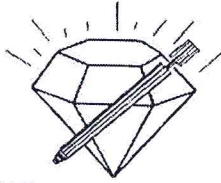
18:00

19:00

20:00

5513 Time

2015/09/21



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: pat1dst3

TIME ON: 11:25 PM
 TIME OFF: 9:00 AM

Company CNG Lease & Well No. Pat #1
 Contractor WW #4 Charge to CNG
 Elevation GL 1483 Formation Simpson Sand Effective Pay _____ Ft. Ticket No. K258
 Date 9-24-15 Sec. 26 Twp. 32 S Range 12 W County Barber State KANSAS
 Test Approved By Bruce Reed Diamond Representative Jason McLemore

Formation Test No. 3 Interval Tested from 4692 ft. to 4729 ft. Total Depth 4729 ft.
 Packer Depth 4687 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4692 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 4677 ft. Recorder Number 5513 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4678 ft. Recorder Number 5588 Cap. 6000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type Chemical Viscosity 57 Drill Collar Length 120 ft. I.D. 2 1/4 in.
 Weight 9.6 Water Loss 13.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 14000 P.P.M. Drill Pipe Length 4539 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 6 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? No Reversed Out No Anchor Length 37 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: Strong, BOB in 20 Seconds, Blowback BOB in 10 Min.
2nd Open: Strong, BOB in 25 Seconds, Blowback BOB in 16 Min.

Recovered 300 ft. of VSOCMW, 3% Oil, 90% Water, 7% Mud
 Recovered 3700 ft. of Salt Water
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>CHLORIDES: 100,000</u>	Insurance
<u>PH: 7</u>	Total

Time Set Packer(s) 1:52 AM A.M. P.M. Time Started Off Bottom 4:52 AM A.M. P.M. Maximum Temperature 133
 Initial Hydrostatic Pressure..... (A) 2320 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 717 P.S.I. to (C) 1666 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1831 P.S.I.
 Final Flow Period..... Minutes 45 (E) 1685 P.S.I. to (F) 1831 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1837 P.S.I.
 Final Hydrostatic Pressure..... (H) 2307 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.



JASON MCLEMORE

CELL # 620-617-0527

General Information

Company Name	CNG	Charles N Griffin	Job Number	K258
Contact		Pat #1	Representative	Jason McLemore
Well Name		DST #3 Simpson Sand	Well Operator	CNG
Unique Well ID		4692-4729	Prepared By	Jason McLemore
Surface Location		25-32s-12w Barber	Wildcat Qualified By	Bruce Reed
Field			Test Unit	6
Well Type		Vertical		

Test Information

Test Type	Drill Stem Test	Well Operator	Jason McLemore
Formation	Simpson Sand	Report Date	2015/09/25
Well Fluid Type	01 Oil	Prepared By	Jason McLemore
Test Purpose (AEUB)	Initial Test		

Start Test Date	2015/09/24	Start Test Time	23:25:00
Final Test Date	2015/09/25	Final Test Time	09:00:00

Test Results

RECOVERED:

300	VSOCMW, 3% Oil, 90% Water, 7% Mud
3700	Salt Water
4000	TOTAL FLUID

CNG
DST #3 Simpson Sand 4692-4729
Start Test Date: 2015/09/24
Final Test Date: 2015/09/25

Pat #1
Formation: Simpson Sand
Pool: Wildcat
Job Number: K258

Pat #1

