



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1246788
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: _____



1246788

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Pauley, Gary dba Pauley Oil
Well Name	S. Rolfs 5
Doc ID	1246788

All Electric Logs Run

Dual Compensated Porosity Log
Sonic Log
Microresistivity
Dual Induction

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 715

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-18-14	15	17	8	Ellsworth	KS		6:30

Location Ellsworth + 14 105 Einn

Lease <u>S Rolfs</u>	Well No. <u>#5</u>	Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor <u>Ninnascah #101</u>		
Type Job <u>Surface</u>		
Hole Size <u>12 1/4</u>	T.D. <u>437'</u>	Charge To <u>Panley Oil</u>
Csg. <u>8 5/8</u>	Depth <u>437'</u>	Street
Tbg. Size	Depth	City
Tool	Depth	State
Cement Left in Csg. <u>25'</u>	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
Meas Line	Displace <u>26 bbl</u>	Cement Amount Ordered <u>200 com 3% cc 2% cc</u>

EQUIPMENT

Pumptrk <u>17</u> No.	Cementer	Common <u>200</u>
	Helper <u>Cody</u>	Poz. Mix
Bulktrk <u>14</u> No.	Driver <u>Ryan</u>	Gel. <u>04</u>
	Driver <u>Brett</u>	Calcium <u>7</u>

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling <u>211</u>
	Mileage

FLOAT EQUIPMENT

<u>Cement</u>	Guide Shoe
<u>Circulated!</u>	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge Surface
Mileage 46

X Signature <u>Michael A. Barry</u>	Tax
	Discount
	Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 718

Date	10-23-14	Sec.	15	Twp.	17	Range	8	County	Ellsworth	State	KS	On Location		Finish	10:15 PM
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Location Ellsworth + Hwy 14 10s E ins

Lease	S. Rolfs	Well No.	#5	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Minnescah			Charge To	Pauley Oil
Type Job	Production String			Street	
Hole Size	7 7/8	T.D.	3463'	City	
Csg.	5 1/2	Depth	3442'	State	
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	200 com 10% Salt 5%
Cement Left in Csg.	17.25'	Shoe Joint	17.25'		

Meas Line Displace 81 1/2 bbl Wilsonite

EQUIPMENT

Pumptrk	17	No.	Cementer		Common	200
			Helper	Cady	Poz. Mix	
Bulktrk	9	No.	Driver	Fylor	Gel.	
			Driver	Brett	Calcium	
Bulktrk	PU	No.	Driver		Hulls	

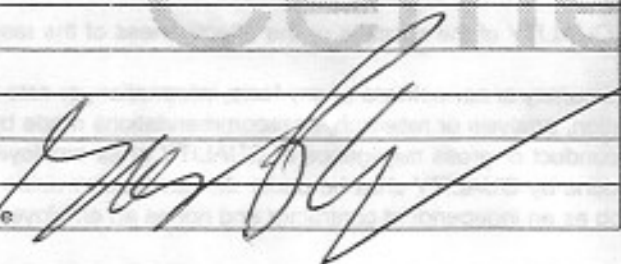
JOB SERVICES & REMARKS

Remarks:		Salt	17
Rat Hole -	30 sk	Flowseal	
Mouse Hole -	20 sk	Kol-Seal	1000#
Centralizers -	3-A, 13, 15, 17	Mud CLR 48 -	500 Gal Mud Flush
Baskets		CFL-117 or CD110 CAF 38	
D/V or Port Collar		Sand	

Ran 82 Jts of 5 1/2 + Est Cir
Mixed 500 Gal Mud Flush
Plugged Rat + Mouse
Mix @ 150 sk
Displaced 81 1/2 bbl
Lift @ 700 lbs
Landed @ 1500 lbs
Plug held

Handling	227
Mileage	5 1/2
FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	- 12
Baskets	
AFU Inserts	-
Float Shoe	- 1
Latch Down	- 1

Pumptrk Charge	prod string
Mileage	46

X
Signature 

Tax	
Discount	
Total Charge	

MUD LOG
WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: S Rolfs #5
Well Id:
Location:
License Number:
Spud Date:
Surface Coordinates:

Region:
Drilling Completed:

Bottom Hole
Coordinates:
Ground Elevation (ft): 1757 **K.B. Elevation (ft):** 1770
Logged Interval (ft): 2550 **To:** 3433 **Total Depth (ft):** 3463
Formation:
Type of Drilling Fluid: Chem Mud

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

OPERATOR

Company: Pauley Oil
Address:

GEOLOGIST

Name: Steven Petermann
Company: Consulting Petroleum Geologist
Address: 3206 NorthWestern Avenue
Hutchinson, Ks 67502

Cores

DSTs

DST depths shown are correlated to RIG DEPTH and were NOT adjusted to log depth. In general Rig Depths are 3-5' LOW to logged Depth.

DST#1 2841'-2862' 5-30-45-60/IF BOB 15 sec 11-11#/FF BOB immed 12-13#/ISIP 346#/FSIP 429# (poor perm-bldg)/Recover 678'GIP 15'Mud




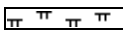
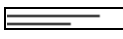
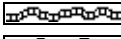




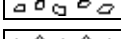


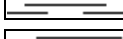
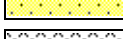





DST#2 3173'-3254' 15-45-45-90/IF .25"-1.5" 11-17#/FF WSB-4" 19-27#/ISIP 919#/FSIP 895#/Recover 10'Oil 20'OCM (11%Oil 89%Mud)

DST#3 3173'-3269' 10-30-45-60/IF .25"-5" 14-32#/FF .25-11" 35-75#/ISIP 862#/FSIP 823#/Recover 3'CO 64'SOCM (3%Oil 97%Mud) 63'SOWCM (3%Oil 20%Wtr 77%Mud) 13,000ppm Cl

























































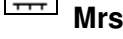














Comments

It was discovered toward the end of the drilling of this well that the Rolfs #4 reference well had used a significantly erroneous GL and KB (used estimate instead of survey). This changed referenced comparative tops by approx 10'




























ROCK TYPES

 Anhy	 Clyst	 Gyp	 Mrlst	 Shgy
 Bent	 Coal	 Igne	 Salt	 Sltst
 Brec	 Congl	 Lmst	 Shale	 Ss
 Cht	 Dol	 Meta	 Shcol	 Till

ACCESSORIES

MINERAL		FOSSIL	
 Anhy	 Gyp	 Algae	 Ostra
 Arggrn	 Hvymin	 Amph	 Pelec
 Arg	 Kaol	 Belm	 Pellet
 Bent	 Marl	 Bioclst	 Pisolite
 Bit	 Minxl	 Brach	 Plant
 Brecfrag	 Nodule	 Bryozoa	 Strom
 Calc	 Phos	 Cephal	
 Carb	 Pyr	 Coral	STRINGER
 Chtdk	 Salt	 Crin	 Anhy
 Chtlt	 Sandy	 Echin	 Arg
 Dol	 Silt	 Fish	 Bent
 Feldspar	 Sil	 Foram	 Coal
 Ferrpel	 Sulphur	 Fossil	 Dol
 Ferr	 Tuff	 Gastro	 Gyp
 Glau		 Oolite	 Ls
			 Mrst
			 Sltstrg
			 Ssstrg
			TEXTURE
			 Boundst
			 Chalky
			 Cryxln
			 Earthy
			 Finexln
			 Grainst
			 Lithogr
			 Microxln
			 Mudst
			 Packst
			 Wackest

OTHER SYMBOLS

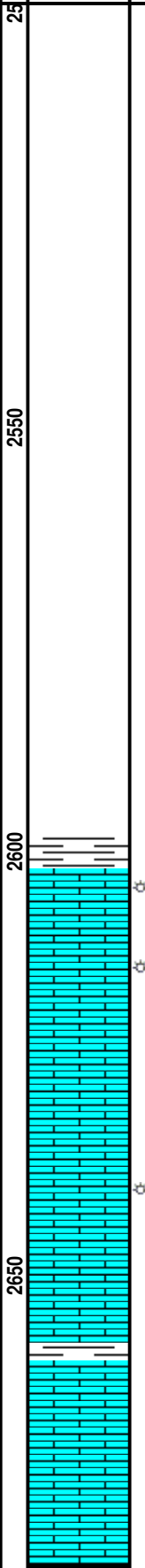
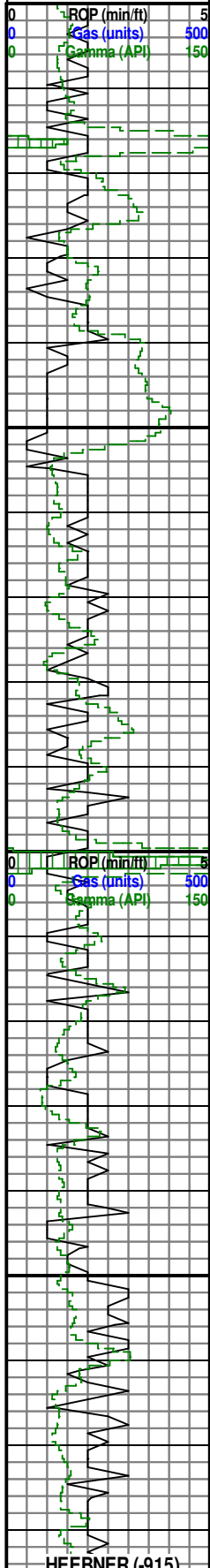
POROSITY	<input checked="" type="checkbox"/> Vuggy	ROUNDING	 Spotted
 Earthy		 Rounded	 Ques
 Fenest	SORTING	 Subrnd	 Dead
 Fracture	 Well	 Subang	 Ssg
 Inter	 Moderate	 Angular	 Ssfo&g
 Moldic	 Poor		 Sg
 Organic		OIL SHOW	 Sg ssfo
 Pinpoint		 Even	 O&g
			INTERVAL
			 Core
			 Dst
			EVENT
			 Rft
			 Sidewall

Curve Track 1
 ROP (min/ft) _____
 Gas (units) - - - - -
 Gamma (API) - - - - -

Depth
 Lithology
 Oil Shows

Geological Descriptions

TG, C1-C5
 TG (Units) _____
 C1 (units)
 C2 (units)
 C3 (units)
 C4 (units)
 C5 (units)



Shaley/silty-gry + LST tan-gry, cryptoxln-vfxln, soft pvp few foss NS

Shale rd/gry/grn, rd clasts, + LST AA+ LST tan vfgr sl sdy most pvp, friable SSG w rainbow

LST crm-tan few gry vfxln few f-mxln silty pvp soft SSG NSFO NO NF

LST crm-gry silty/sdy dse pvp NS NO NF + gry-dk gry shale

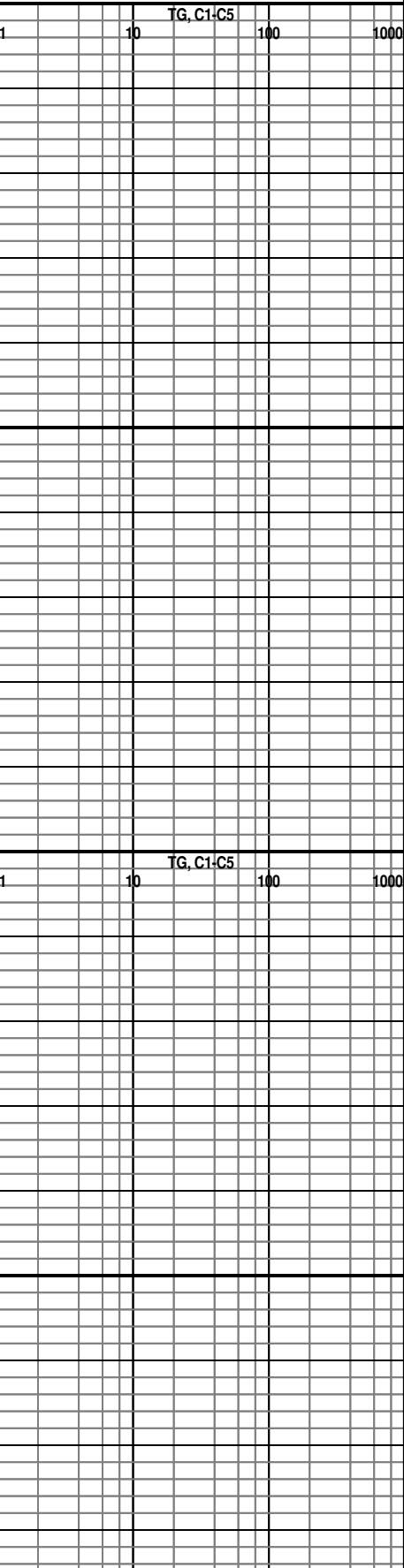
LST tan vfxln soft p-fr intxln por, SSG tr-scatt lt brn stn NSFO NO NF

LST gry-dk tan fossiliferous wkstone pvp-dse NSFO NO NF + shale gry-maroon, fissile

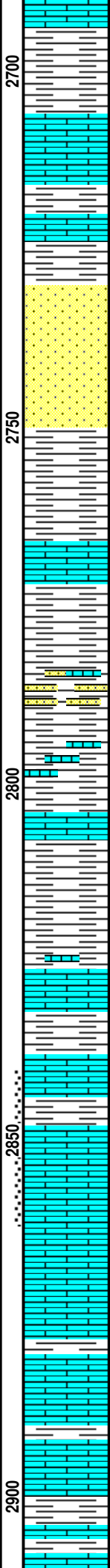
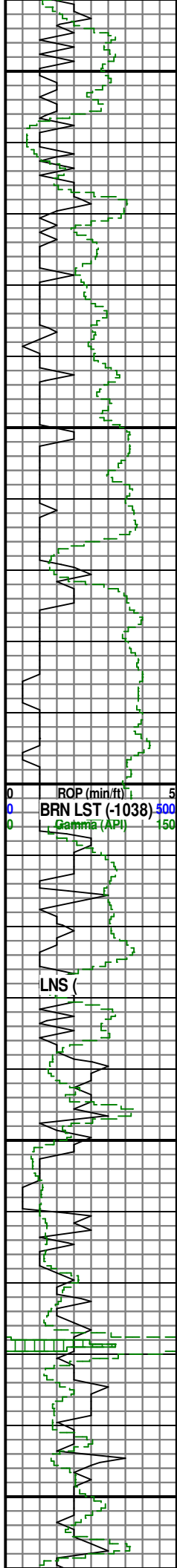
shale gry-dk gry, LST crm-tan vf-fxln few mxln, foss cherty in pt, pvp-dse NS NO NF

LST gry vfxln dse+LST tan/brn fxln fr por scatt brn stn NSFO NO NF

Shale dk brn/blk carb GSG + LST crm fxln foss chiky in pt SSG



HEEBNER (-915)



2700 very shaley VC/gry grm brn + LST crm vf-fxln soft subchky SG

very shaley lt gry + LST tan/brn mottled fxln dse

AA

AA + LST crm vfxln chky SG

AA + SSt grn/gry vfgr ws rd friable SSG w rainbow ? lt brn stn NSFO NO NF

AA incr SSt (30-40%) SG stn AA NSFO NO NF

AA shalier fewer SSt SG

Shale gry +SSt & Shaley SSt AA

Shaley AA + LST crm/tan fxln dse

Incr Shale gry/dk gry + SSt & Shaley SSt AASG

Mostly gry shale + few LST crm-tan vf-fxln soft-dse pvp NS NO NF

2750

2800

very shaley gry + LST tan fxln cherty dse

very shaley gry soft + few LST crm (wht w/golden surface stn) vfxln pr-fr intxln por tr sub moidic por SSG

very shaley gry + LST crm-tan vf-fxln pvp-dse NS NO NF

Flood LST crm vfxln soft some sub chky FSG few w rainbow

LST crm vfxln good oom por (rechrytallized) lt golden stn SFO (v lt - lt red) SSG Ft Odor

LST AA less moidic por, similar show, foss, many pvp ft-fr odor

LST tan-gry vf-cryptoxln dse few foss NBS NF (ssfo moidic cavings?) ft odor

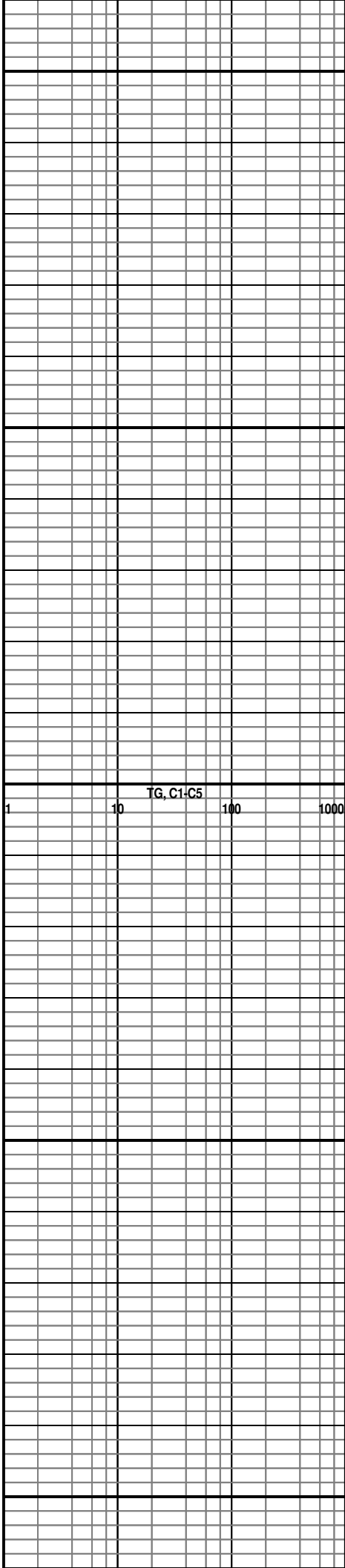
LST crm/tan vfxln chky in pt few moidic AA (cavings?) but w darker oil show & stronger odor onb break, Fair Odor

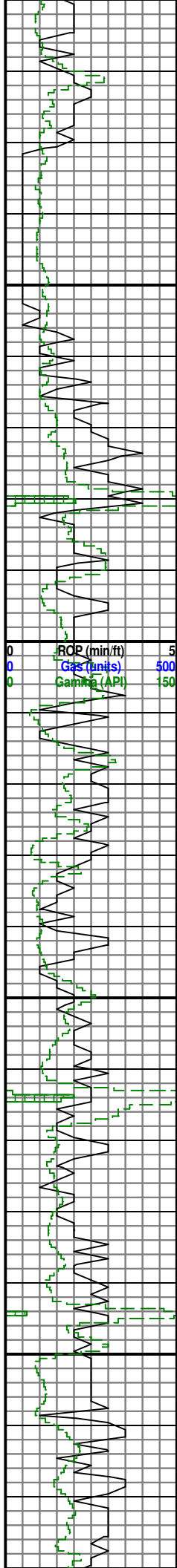
Shaley-dk gry plty +lt gry soft, + LST dk gry-gry, tan, vfxln pvp-dse NS NO NF

2850

2900

Shaley dirty smple, LST crm some mottled dk scattered brn stn, fr show high grav clr oil NO NF





LST mostly crm vf-fxl, soft - subchky pvp dull fluor few gry fxln foss pkstone pvp NS

very chky shaley dirty, LST crm vfxln even lt golden stn pvp soft-dse few chky GSG

LST crm vfxln even lt golden stn foss/oom w good oom por bleeding red gsy oil

LST crm w lt golden stn good oom por AA mostly barren SSG

2950

AA denser + LST cherty dk tan-brn dse + LST crm fxl suboom fr intxln por lt stn SSG NSFO NO

LST oom/sub oom AA well cmt + LST cherty AA dse

Shale grey/blk SG + LST gry fxl foss in pt pvp SSG

LST gry vf-fxl soft shaley? pvp SG + LST crm vfxln chky in pt lt gold surf stn, some dk blk (dead?) oil stn NSFO NO NF

3000

Shale gry/blk + LST crm vf-fxl, fr intxln por soft lt stn NSFO NF NO+LST brn/gry mottled foss pvp-soft SSG

Shale ghry + LST tan vf-cryptoxln sl chrtly dse NS

Mosatly AA some LST crm vfxln soft-sub chky lt golden stn SSG

Shale dk brn/blk SG silty

LST gry/tan mottled fxl foss wkstone mostly pvp SG w rainbow + LST crm f-mxl foss ool (pkstone) fair intxln por SSG

LST crm/gry brn & mottled fxl soft shaley in pt? FSG some brn stn in fracs NSFO NO NF + LST crm vfxln subchky-chky w SG/rainbow

3050

LST crm/tan vfxln chrtly in pt pvp-dse NS NF NO + shale dk gry

Shale dk gry/blk SG + LST tan/gry fxl foss dse SSG + LST crm vfxln pr-fr intxln por SSG NSFO NO NF

Shale dk gry + LST tan vfxln dse NS foss chrtly

LST AA + Shale gry/dk gry-blk

3100

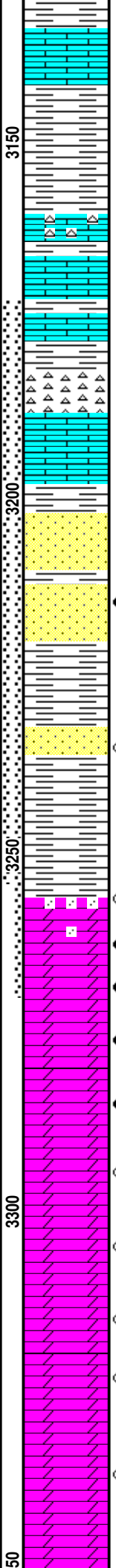
LST crm-gry-tan vfxln chrtly in pt foss in pt mostly pvp few with sl intxln por SSG NSFO NO NF

Shale gry-few gm gry + LST crm vfxln pr-fr intxln por lt gold stn SSG + LST tan cryptoxln dse

Abdt gry shale + LST AA

TG, C1-C5

1 10 100 1000



Shale gry AA + LST crm vfxln pr-fr por lt golden stn F-GSG SSFO (red) NF ft odor few pcs ppt por w brn stn SFO

LST AA ppt por brn stn SFO on break Fr Odor on break + Dolo? LST gry vfxln pr-fr intxln por SG SSFO + gry shale & silty shale

Shale gm/gry/dk gry/red/gm gry + VC LST soft-dse FSG in soft Ft-Fr Odor abdt clr rainbow sfo

VC Shale gm/gry/red chert white/tan fresh shrp+ LST crm fxlIn pvp FSG + LST gry vfxln dse

VC chert mar/wht/amber + mar shly LST vfxln SG+LST wht-yellow stnd mxln angular GSG

LST crm/yellow f-mxln mostly pvp SSG + VC shale few fgr rd qtz grns embedded

VC shale w qtz grns green waxy shale tr SSt vf-fgr f-gd srt well rd friable calcite occluded por NS

Abdt SSt clr/frosted fgr well rd & sorted v friable-well cmt much cleaner then above pr-fr por, SFO-Sat (lt tan) gassy in part good odor dull yellow fluor

Gm shale w qtz grns embedded + SSt AA w SFO

Gm shale + SSt AA mostly w SFO&G few barren

AA

3254-3260 Grn shale + SSt AA w SFO + LimeyDolo fxlIn wht w lt stn SSFO mostly pvp SG

3260-3264 AA incr limeydolo fxlIn wht w gold stn chrty in pt FSFO&G + doloSSt w fgr qtz clear SSFO

3264-3269 dolo tan sucrosic fxlIn fr-gd por many friable SGO good odor

dolo crm w lt golden stn vfxln mostly pvp-dse SFO&G good odor (tite)

predominantly dolo crm-tan fxlIn suc well cmt-friable fr ppt por w stn SFO + shale gm/gry

dolo tan fxlIn suc SFO&GsyO + chrty dolo dse chrt wht fresh sharp semi opaque + dolo crm-tan vf-fxlIn many dse few fr por suc in pt weaker SFO

incr shale apple gm/gry + dolo crm/tan vf-fxlIn dse-fr por suc in pt sl chrty FSFO fr-gd odor

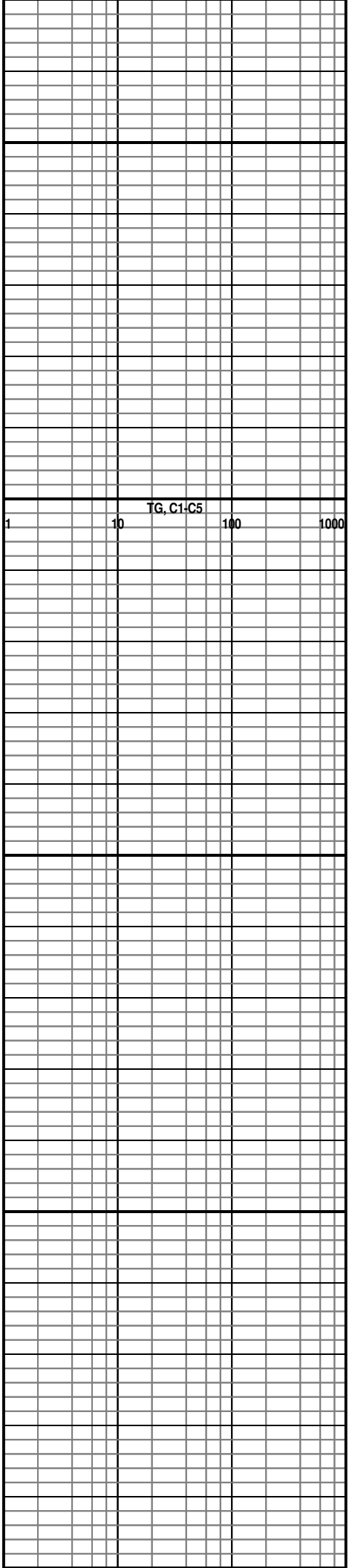
dolo AA- if suc w por has FSFO & gsyO + brn limey dolo vfxln, v dse

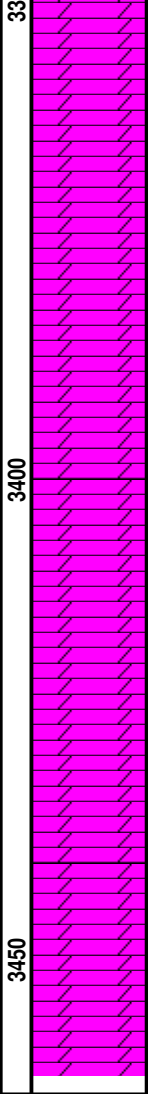
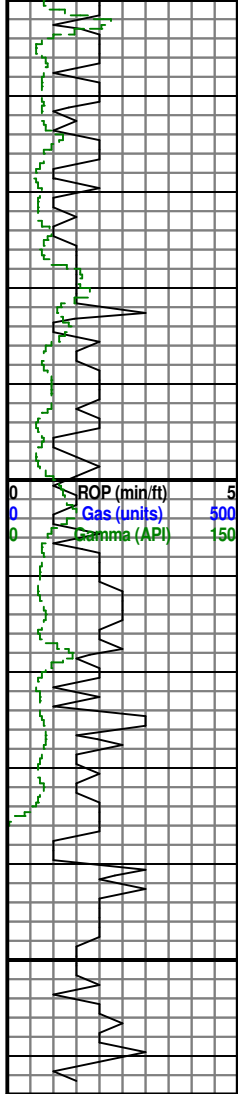
tan/brn chrt, sl dolomitic, v dse dolo crm AA ft-fr odor w SFO on break

dolo tan vf-fxlIn foss/ool dse + chrt wht/boney fresh + dolo fxlIn suc in pt SFO few w dead oil stn (dk red) mostly live

dolo crm-tan vfxln softer very friable suc good show v hi grav clr oil F-GSG + tan dolo AASFO

AA some oil appears dead





AA some cr appears actua

dolo crm fxln ly stn good por dead oil (dk red) some live

AA good por friable both live SFO and dead oil stn

AA + boney/tan chrt & dolo chrt

dolo crm/tan vfxln many dse pvp show high grav clr SSG poor oil show

dolo crm vfxln soft fr por NS sulfur odor

33

3400

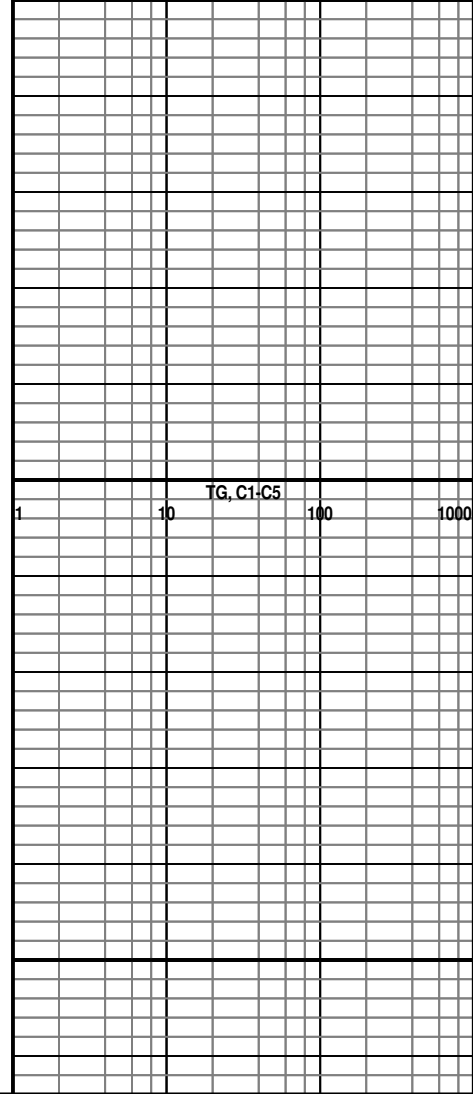
3450

AA + chrty

dolo crm/tan vfxln mostly pvp-dse SSFO mostly barren

AA some w better por poorly cmt barren

dolo wht/crm fxln few mxln suc w good intxln por NS





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: S.Rolfs5Dst#2

TIME ON: 22:16 10-21
TIME OFF: 05:48 10-22

Company Pauley Oil Lease & Well No. S. Rolfs #5
Contractor Ninnescah Drilling Charge to Pauley Oil
Elevation 1757 Formation Simpson Sand Effective Pay -- Ft. Ticket No. P0011
Date 10-22-14 Sec. 15 Twp. 17 S Range 8 W County Ellsworth State KANSAS
Test Approved By Steven Peterman Diamond Representative Michael Carroll

Formation Test No. 2 Interval Tested from 3173 ft. to 3254 ft. Total Depth 3254 ft.
Packer Depth 3167 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.
Packer Depth 3173 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3160 ft. Recorder Number 5515 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3241 ft. Recorder Number 5586 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type Chem Viscosity 52 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.0 Water Loss 8.0 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.
Chlorides 3000 P.P.M. Drill Pipe Length 3146 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NA Test Tool Length 27 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out No Anchor Length 81(17.5a) 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: 1/4" BLOW-BUILT TO 1 1/2" IN 15MINS NOBB
2nd Open: WSB- BUILT TO 4" IN 45 MIN NOBB

Recovered 10 ft. of OIL 100% O GRAVITY: 41 @ 60 DEGREES F
Recovered 20 ft. of OCM 11% O 89% M
Recovered 30 ft. of TOTAL FLUID

Recovered <u> </u> ft. of <u> </u>	Price Job
Recovered <u> </u> ft. of <u> </u>	Other Charges
Recovered <u> </u> ft. of <u> </u>	Insurance
Remarks: <u>TOOL SAMPLE: 23% O 77% M</u>	Total

Time Set Packer(s) 12:44A.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 3:59A.M. ^{A.M.}/_{P.M.} Maximum Temperature 111

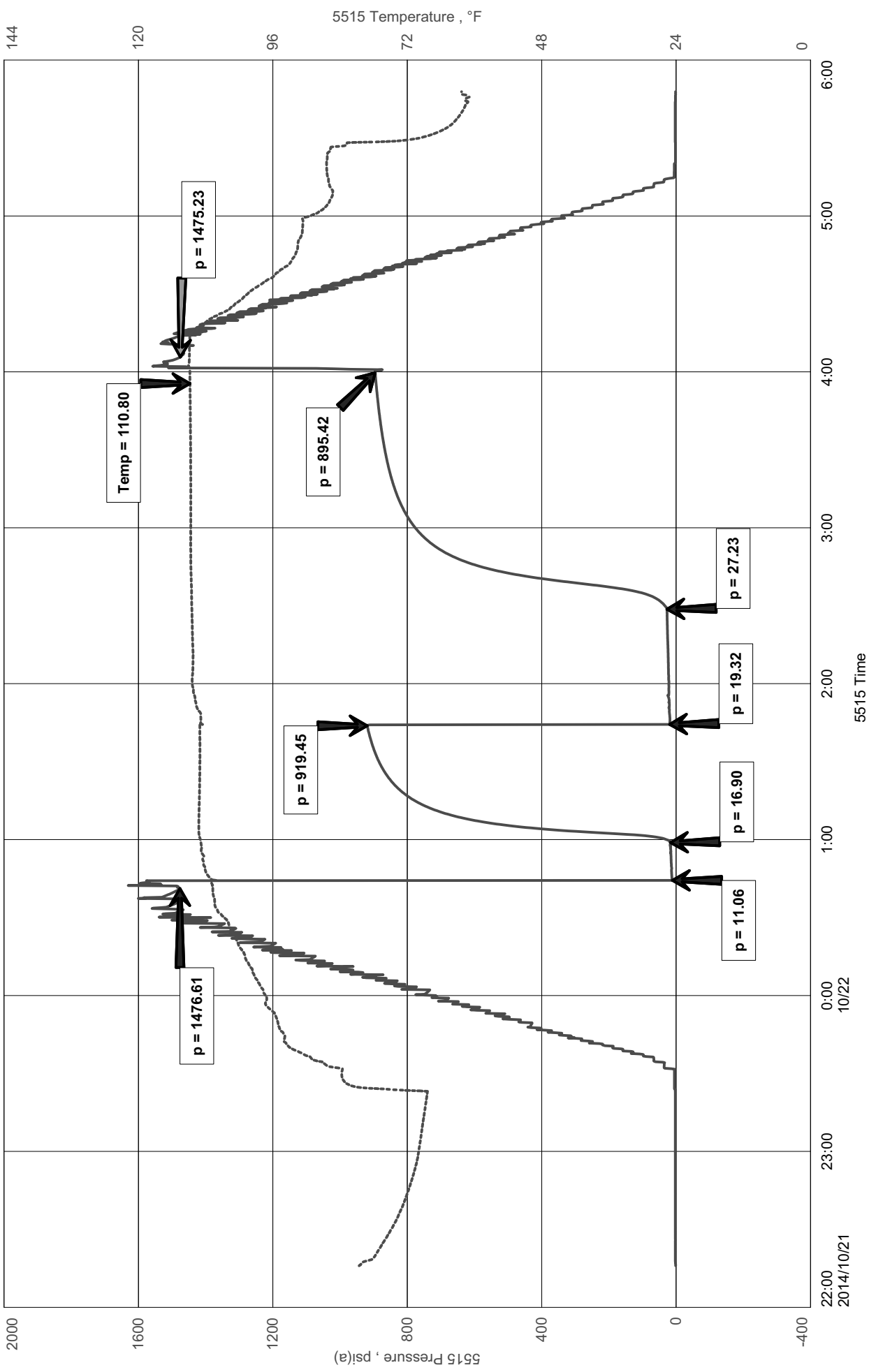
Initial Hydrostatic Pressure..... (A) 1477 P.S.I.
Initial Flow Period..... Minutes 15 (B) 11 P.S.I. to (C) 17 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 919 P.S.I.
Final Flow Period..... Minutes 45 (E) 19 P.S.I. to (F) 27 P.S.I.
Final Closed In Period..... Minutes 60 (G) 895 P.S.I.
Final Hydrostatic Pressure..... (H) 1475 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.

Pauley Oil
Dst #2 Simpson Sand 3173-3254'
Start Test Date: 2014/10/21
Final Test Date: 2014/10/22

S. Rolfs #5
Formation: Dst #2 Simpson Sand 3173-3254'
Pool: Infield
Job Number: P0011

S. Rolfs #5



Diamond Testing LLC

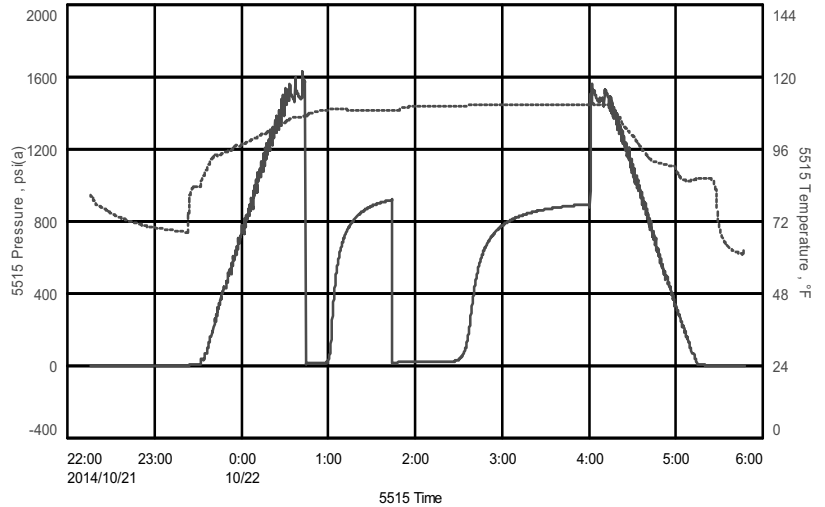
General Information Report

Jacob McCallie
620-617-7116
mccallie.dtlc@gmail.com

General Information

Company Name	Pauley Oil	
Contact		Gary Pauley
Well Name		S. Rolfs #5
Unique Well ID	Dst #2 Simpson Sand 3173-3254'	
Surface Location	Sec15-17s-8w Ellsworth County	
Field	Geneseo-Edwards	
Well Type	Vertical	
Test Type	Drill Stem Test	
Formation	Dst #2 Simpson Sand 3173-3254'	
Well Fluid Type	01 Oil	
Start Test Date	2014/10/21	
Start Test Time	22:16:00	
Final Test Date	2014/10/22	
Final Test Time	05:48:00	
Job Number	P0011	
Representative	Michael Carroll	
Report Date	2014/10/22	
Qualified By	Steven Peterman	

S. Rolfs #5



Test Results

RECOVERY:

10'	OIL	100% O	GRAVITY: 41 @ 60 DEGREES F
20'	OCM	11% O 89%M	
30'	TOTAL FLUID		

TOOL SAMPLE:
23% O 77% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: S.Rolfs5Dst#1

TIME ON: 19:29 10-20
TIME OFF: 01:43 10-21

Company Pauley Oil Lease & Well No. S. Rolfs #5
Contractor Ninnescah Drilling Charge to Pauley Oil
Elevation 1757 Formation Lansing "A-B" Effective Pay -- Ft. Ticket No. P0010
Date 10-20-14 Sec. 15 Twp. 17 S Range 8 W County Ellsworth State KANSAS
Test Approved By Steven Peterman Diamond Representative Michael Carroll

Formation Test No. 1 Interval Tested from 2841 ft. to 2862 ft. Total Depth 2862 ft.

Packer Depth 2836 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Packer Depth 2841 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2829 ft. Recorder Number 5515 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 2844 ft. Recorder Number 5586 Cap. 5,000 P.S.I.

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

Mud Type Chem Viscosity 47 Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 8.8 Water Loss 8.0 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.

Chlorides 2200 P.P.M. Drill Pipe Length 2815 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number _____ Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out No Anchor Length 21 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: **BUILT TO BOB IN 15 SECONDS** **NOBB**

2nd Open: **BOB IMMEDIATELY** **NOBB**

Recovered 678 ft. of GIP

Recovered 15 ft. of Mud 100% M

Recovered 15 ft. of Total Fluid

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

TOOL SAMPLE: 100% M

Time Set Packer(s) 9:54P.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 12:14P.M. ^{A.M.}/_{P.M.} Maximum Temperature 106

Initial Hydrostatic Pressure..... (A) 1313 P.S.I.

Initial Flow Period..... Minutes 5 (B) 11 P.S.I. to (C) 11 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 346 P.S.I.

Final Flow Period..... Minutes 45 (E) 12 P.S.I. to (F) 13 P.S.I.

Final Closed In Period..... Minutes 60 (G) 429 P.S.I.

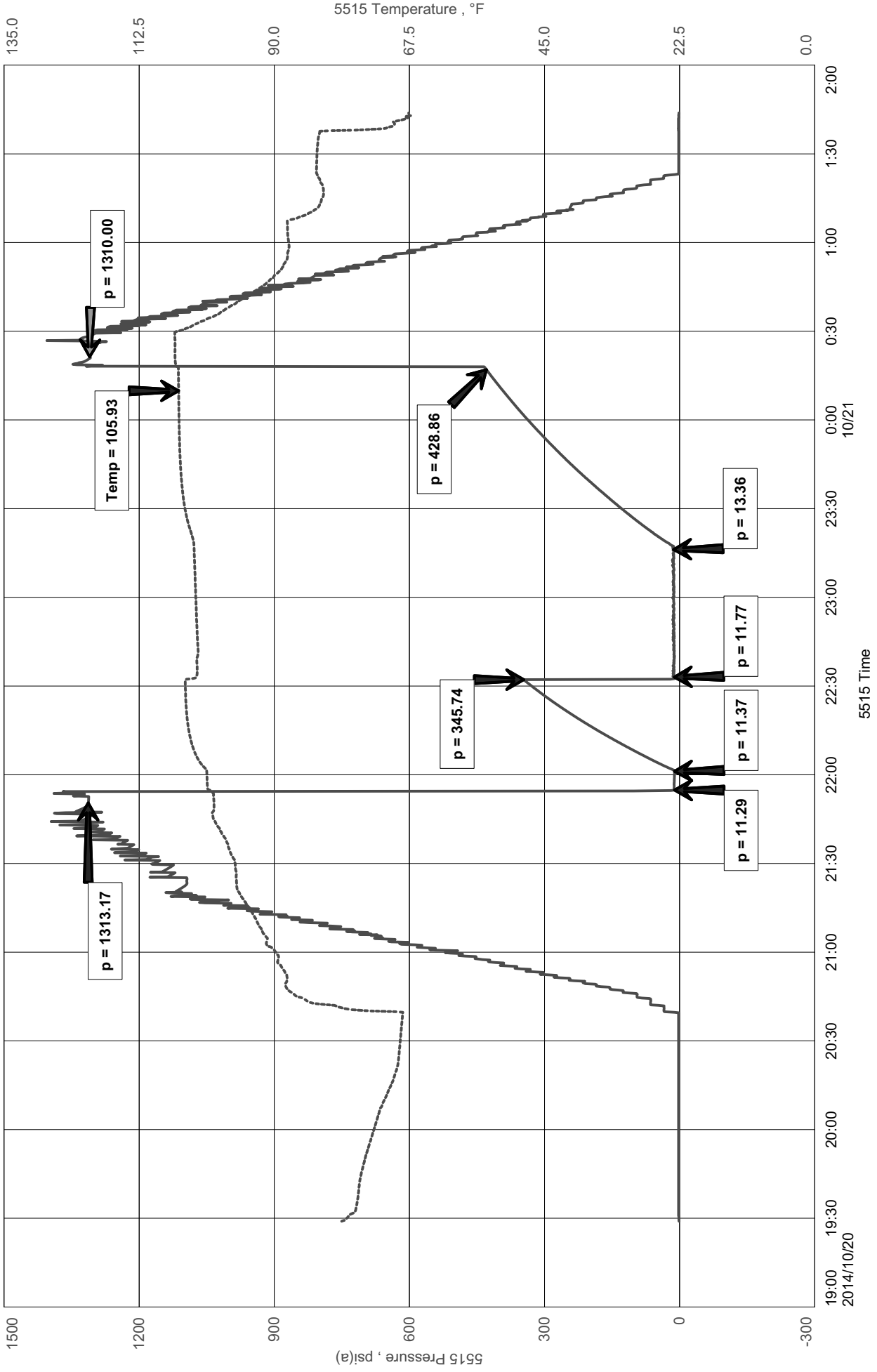
Final Hydrostatic Pressure..... (H) 1310 P.S.I.

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Pauley Oil
Dst#1 Lansing "A-B" 2841-2862'
Start Test Date: 2014/10/20
Final Test Date: 2014/10/21

S. Rolfs #5
Formation: Dst#1 Lansing "A-B" 2841-2862'
Pool: Infield
Job Number: P0010

S. Rolfs #5



Diamond Testing LLC

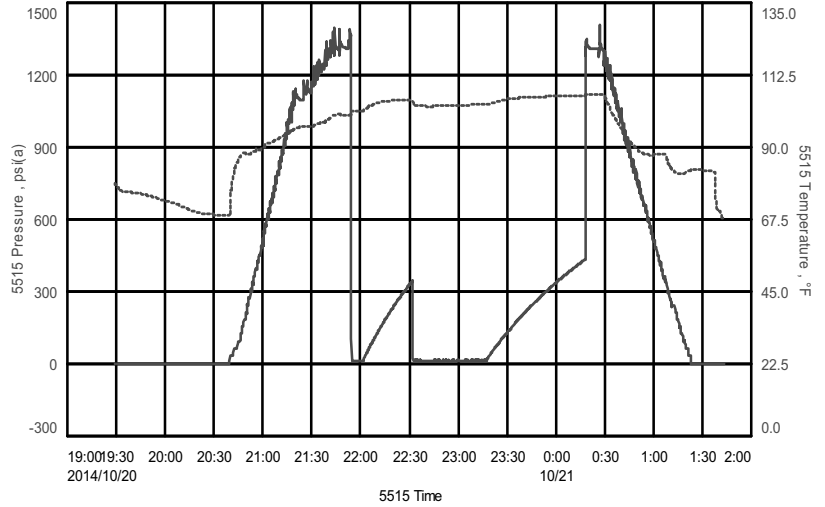
General Information Report

Jacob McCallie
620-617-7116
mccallie.dtlc@gmail.com

General Information

Company Name Pauley Oil
Contact Gary Pauley
Well Name S. Rolfs #5
Unique Well ID Dst#1 Lansing "A-B" 2841-2862'
Surface Location Sec15-17s-8w Ellsworth County
Field Geneseo-Edwards
Well Type Vertical
Test Type Drill Stem Test
Formation Dst#1 Lansing "A-B" 2841-2862'
Well Fluid Type 02 Gas
Start Test Date 2014/10/20
Start Test Time 19:29:00
Final Test Date 2014/10/21
Final Test Time 01:43:00
Job Number P0010
Representative Michael Carroll
Report Date 2014/10/20
Qualified By Steven Peterman

S. Rolfs #5



Test Results

Recovery:

678' GIP
15' Mud 100% M
15' TOTAL FLUID

TOOL SAMPLE:

100% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: S.Rolfs5Dst#3

TIME ON: 12:19
TIME OFF: 18:01

Company Pauley Oil Lease & Well No. S. Rolfs #5
Contractor Ninnescah Drilling Charge to Pauley Oil
Elevation 1757 Formation Arbuckle Effective Pay -- Ft. Ticket No. P0012
Date 10-22-14 Sec. 15 Twp. 17 S Range 8 W County Ellsworth State KANSAS
Test Approved By Steven Peterman Diamond Representative Michael Carroll

Formation Test No. 3 Interval Tested from 3173 ft. to 3269 ft. Total Depth 3269 ft.

Packer Depth 3167 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Packer Depth 3173 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3160 ft. Recorder Number 5515 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3241 ft. Recorder Number 5586 Cap. 5,000 P.S.I.

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

Mud Type Chem Viscosity 53 Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 9.2 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.

Chlorides 5000 P.P.M. Drill Pipe Length 3146 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number NA Test Tool Length 27 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out No Anchor Length 96(32.5a) 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: 1/4" BLOW-BUILT TO 5" IN 10MINS WSBB

2nd Open: 1/4" BLOW-BUILT TO 11" IN 45MINS NOBB

Recovered 3 ft. of CO 100% O GRAVITY: 41 @ 60 degrees F

Recovered 64 ft. of SLOCM 3% O 97% M

Recovered 63 ft. of SLOCWCM 3% O 20% W 77% M

Recovered 130 ft. of TOTAL FLUID

Recovered _____ ft. of PH: 7 RW: .48 @ 75 degrees F

Recovered _____ ft. of Chlorides: 13,000 ppm

Remarks: _____

TOOL SAMPLE: 2% O 98% M

Time Set Packer(s) 1:50 P.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 4:15 P.M. ^{A.M.}/_{P.M.} Maximum Temperature 106

Initial Hydrostatic Pressure..... (A) 1486 P.S.I.

Initial Flow Period..... Minutes 10 (B) 14 P.S.I. to (C) 32 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 862 P.S.I.

Final Flow Period..... Minutes 45 (E) 35 P.S.I. to (F) 75 P.S.I.

Final Closed In Period..... Minutes 60 (G) 823 P.S.I.

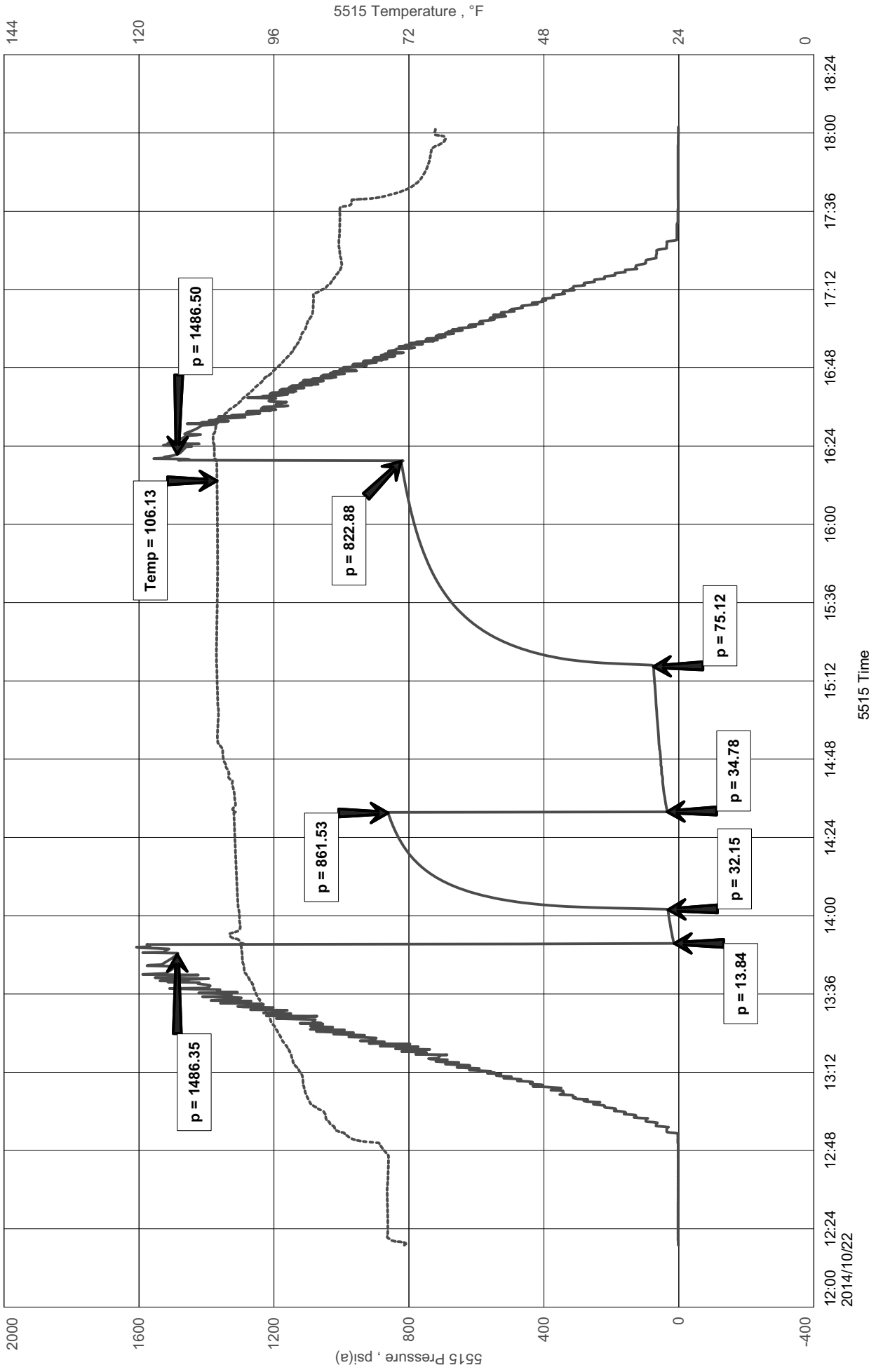
Final Hydrostatic Pressure..... (H) 1487 P.S.I.

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Pauley Oil
Dst #3 Arbuckle 3173-3269'
Start Test Date: 2014/10/22
Final Test Date: 2014/10/22

S. Rolfs #5
Formation: Dst #3 Arbuckle 3173-3269'
Pool: Infield
Job Number: P0012

S. Rolfs #5



Diamond Testing LLC

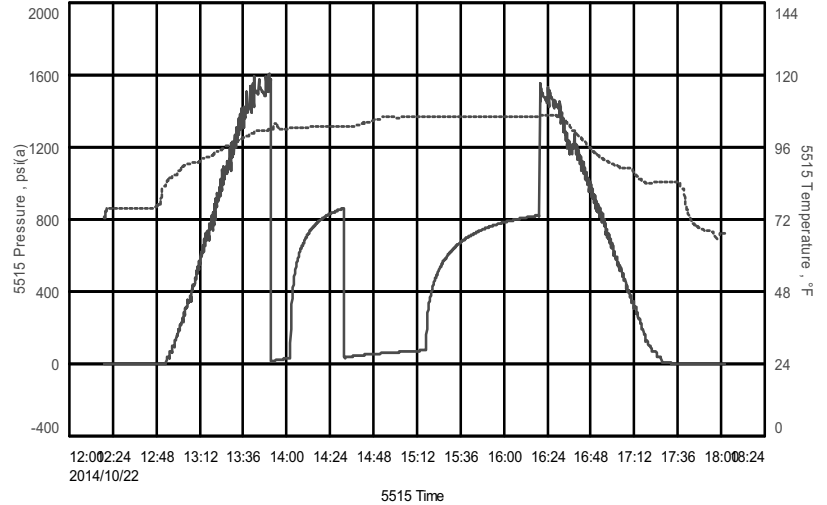
General Information Report

Jacob McCallie
620-617-7116
mccallie.dtlc@gmail.com

General Information

Company Name Pauley Oil
Contact Gary Pauley
Well Name S. Rolfs #5
Unique Well ID Dst #3 Arbuckle 3173-3269'
Surface Location Sec15-17s-8w Ellsworth County
Field Geneseo-Edwards
Well Type Vertical
Test Type Drill Stem Test
Formation Dst #3 Arbuckle 3173-3269'
Well Fluid Type 01 Oil
Start Test Date 2014/10/22
Start Test Time 12:19:00
Final Test Date 2014/10/22
Final Test Time 18:01:00
Job Number P0012
Representative Michael Carroll
Report Date 2014/10/22
Qualified By Steven Peterman

S. Rolfs #5



Test Results

RECOVERY:
3' CO 100% O GRAVITY: 41 @ 60 degrees F
64' SLOCM 3% O 97% M
63' SLOCWCM 3% O 20% W 77% M
130' TOTAL FLUID

PH: 7
RW: .48 @ 75 degrees F
Chlorides: 13,000 ppm

TOOL SAMPLE:
2% O 98% M