

Kansas Corporation Commission Oil & Gas Conservation Division

1091312

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City:	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
☐ New Well ☐ Re-Entry ☐ Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	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: sx cmt
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Onv. to ENHR	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec TwpS. R
☐ ENHR Permit #: ☐ GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date	

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
Letter of Confidentiality Received
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II III Approved by: Date:

Side Two



Operator Name:				_ Lease N	lame:			Well #:		
Sec Twp	S. R	East	West	County:						
INSTRUCTIONS: Sh time tool open and clo recovery, and flow rate line Logs surveyed. A	osed, flowing and shu es if gas to surface te	t-in pressures, st, along with f	whether sh inal chart(s	nut-in press	ure reach	ed static level,	hydrostatic pres	ssures, bottom h	ole temp	erature, fluid
Drill Stem Tests Taker (Attach Additional S		Yes	No		Log	y Formation	n (Top), Depth a	nd Datum		Sample
Samples Sent to Geo	logical Survey	Yes	No		Name			Тор	I	Datum
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Copy	d Electronically	Yes Yes Yes	☐ No ☐ No ☐ No							
List All E. Logs Run:										
		Report all	CASING I		New	Used mediate, producti	on, etc.			
Purpose of String	Size Hole Drilled	Size Ca Set (In C	sing	Weigi Lbs. /	ht	Setting Depth	Type of Cement	# Sacks Used	, ,,	and Percent dditives
		AI	DDITIONAL	CEMENTIN	G / SQUE	EZE RECORD				
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Co	ement	# Sacks	Used		Type and	Percent Additives		
Shots Per Foot	PERFORATI Specify I	ON RECORD - Footage of Each	Bridge Plugs Interval Perfo	s Set/Type orated			cture, Shot, Cemei mount and Kind of N		d 	Depth
TUBING RECORD:	Size:	Set At:		Packer At:		Liner Run:				
Date of First, Resumed	Production, SWD or EN		ducing Meth	od:		as Lift C	Yes No	0		
Estimated Production Per 24 Hours	Oil	Bbls.		Mcf	Water		ols.	Gas-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:		M	IETHOD OF	COMPLET	ION:		PRODUCTIO	ON INTER	VAL:
Vented Sold	Used on Lease	Open	Hole (Specify)	Perf.	Dually ((Submit AC		nmingled mit ACO-4)			

Form	ACO1 - Well Completion
Operator	Darrah, John Jay, Jr.
Well Name	John Vacek #6
Doc ID	1091312

Tops

Name	Тор	Datum
Topeka	2526	-743
Oread	2742	-959
Heebner	2825	-1042
Brown Lime	2925	-1142
Lansing	2943	-1160
Base KC	3213	-1430
Simpson	3242	-1459
Arbuckle	3273	-1490
RTD	3282	-1499



Darrah, John Jay Jr

John Vacek #6

32-15s-10w

225 N Market Ste 300 Wichita Ks 67202 + 2024

Job Ticket: 49340

Reference Elevations:

DST#: 1

ATTN: Will Darrah

Test Start: 2012.08.01 @ 05:17:53

GENERAL INFORMATION:

Formation: **Arbuckle**

Interval:

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Initial) No ft (KB)

Time Tool Opened: 07:23:00 Tester: Jeff Brown Unit No: 44

Time Test Ended: 09:19:23

3266.00 ft (KB) To 3282.00 ft (KB) (TVD) 1783.00 ft (KB) Total Depth: 3282.00 ft (KB) (TVD) 1778.00 ft (CF)

6.75 inches Hole Condition: KB to GR/CF: Hole Diameter: 5.00 ft

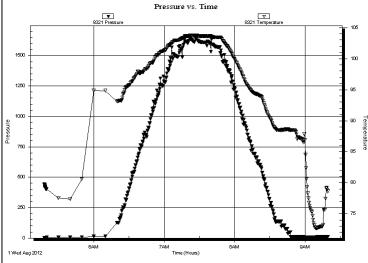
Serial #: 8321 Inside

Press@RunDepth: 3269.00 ft (KB) 8000.00 psig psig @ Capacity:

Start Date: 2012.08.01 End Date: 2012.08.01 Last Calib.: 2012.08.01

Start Time: 05:17:54 End Time: Time On Btm: 09:19:23 Time Off Btm:

TEST COMMENT: MIS-Run Packer failure



	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
Temperature				
eratur				
a				

PRESSURE SUMMARY

Recovery

Description	Volume (bbl)
Mud	1.03

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

Trilobite Testing, Inc. Ref. No: 49340 Printed: 2012.08.01 @ 16:26:04



FLUID SUMMARY

Darrah, John Jay Jr

32-15s-10w

225 N Market Ste 300 Wichita Ks 67202 + 2024 John Vacek #6

Job Ticket: 49340

DST#:1

ATTN: Will Darrah

Test Start: 2012.08.01 @ 05:17:53

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:10.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 50.00 sec/qt Cushion Volume: bbl

Water Loss: in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	Mud	1.033

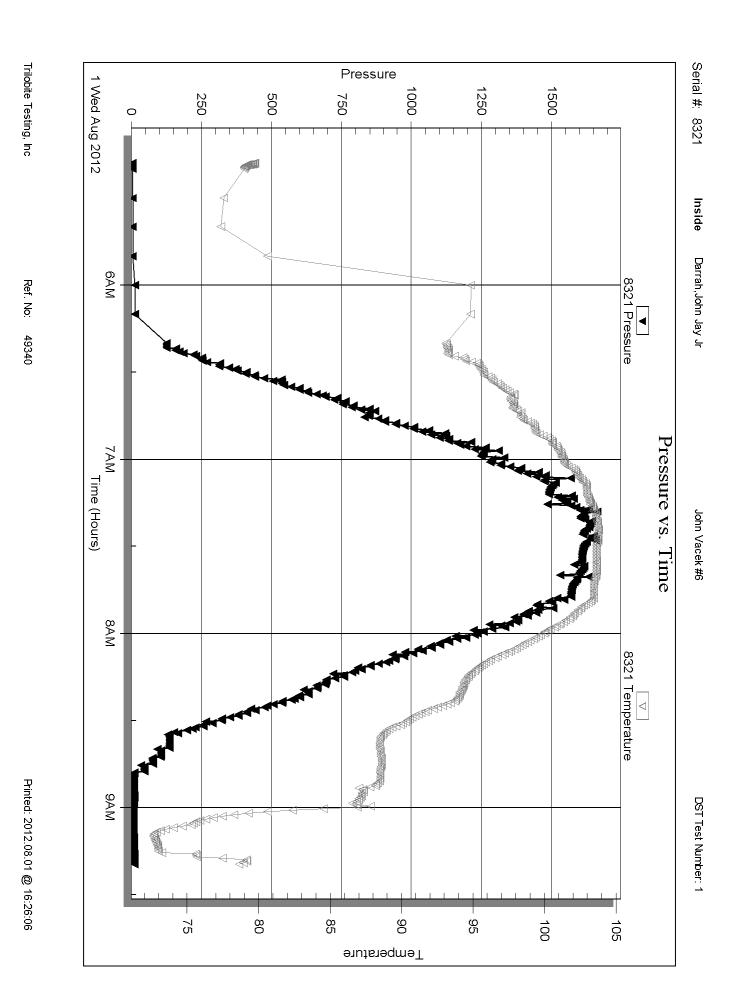
Total Length: 210.00 ft Total Volume: 1.033 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Mis-Run Packer Failure

Trilobite Testing, Inc Ref. No: 49340 Printed: 2012.08.01 @ 16:26:05





Darrah, John Jay Jr

32-15s-10w

225 N Market Ste 300 Wichita Ks 67202 + 2024 John Vacek #6

Job Ticket: 49341

DST#: 2

ATTN: Will Darrah

Test Start: 2012.08.01 @ 09:45:44

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: Test Type: Conventional Bottom Hole (Reset) No Whipstock: ft (KB)

Time Tool Opened: 11:07:14 Time Test Ended: 15:50:44

Tester: Jeff Brown

Unit No:

44

3350.00 ft (KB) To 3382.00 ft (KB) (TVD)

Reference Elevations:

1783.00 ft (KB) 1778.00 ft (CF)

Total Depth: 3282.00 ft (KB) (TVD)

KB to GR/CF:

5.00 ft

6.75 inches Hole Condition: Good Hole Diameter:

Serial #: 8321

Press@RunDepth:

Interval:

Inside

3355.00 ft (KB) 122.79 psig @

Capacity:

8000.00 psig

Start Date: 2012.08.01 End Date: 2012.08.01 15:40:44 Last Calib.: Time On Btm:

2012.08.01 2012.08.01 @ 11:06:44

Start Time: 09:45:45 End Time:

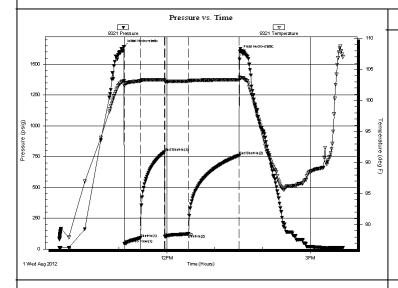
Time Off Btm:

2012.08.01 @ 13:31:44

TEST COMMENT: IFP-Fair blow Built to 9 in

ISI-Weak surface blow back died out in 15 min

FFP-Fair blow built to 8 1/2 in FSI-Dead no blow back



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1642.95	103.11	Initial Hydro-static
1	42.85	102.35	Open To Flow (1)
21	90.29	103.11	Shut-In(1)
51	787.04	103.31	End Shut-In(1)
51	100.58	103.08	Open To Flow (2)
81	122.79	103.06	Shut-In(2)
144	760.18	103.31	End Shut-In(2)
145	1598.53	103.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)			
180.00	MCO 45%M 55%O	0.89			
91.00	Gassy Oil 25%G 75%O	0.73			
* Recovery from multiple tests					

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 49341 Printed: 2012.08.01 @ 16:25:10



FLUID SUMMARY

Darrah, John Jay Jr

32-15s-10w

225 N Market Ste 300 Wichita Ks 67202 + 2024 John Vacek #6

Job Ticket: 49341

DST#: 2

ATTN: Will Darrah

Test Start: 2012.08.01 @ 09:45:44

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:33 deg A PlMud Weight:10.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight: 10.00 lb/gal Cushion Length: ft
Viscosity: 50.00 sec/qt Cushion Volume: bbl

in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: ppm Filter Cake: inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
180.00	MCO 45%M 55%O	0.885
91.00	Gassy Oil 25%G 75%O	0.730

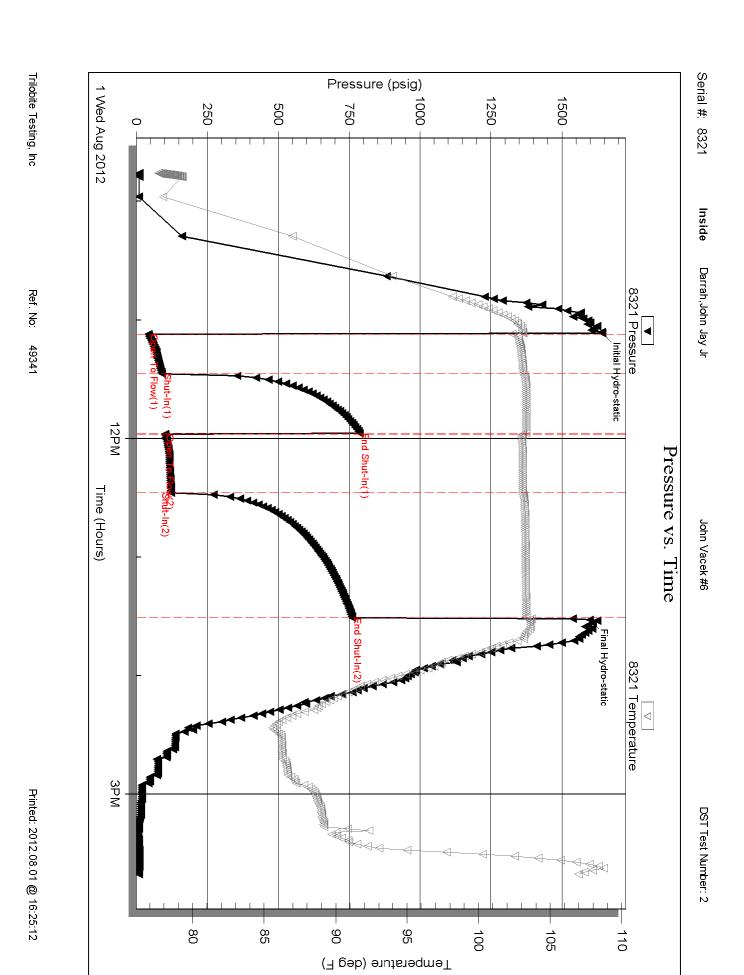
Total Length: 271.00 ft Total Volume: 1.615 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 49341 Printed: 2012.08.01 @ 16:25:11



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. 818

On Location State Finish Sec. Twp. Range County 32 15 10 ELISLINGTH KANSAS LEON STORAN-1E-IN- LE-NITATI Well No. Contractor MALLARA 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. 3380 Hole Size % Depth 3277 Depth Street Tbg. Size Depth Tool The above was done to satisfaction and supervision of owner agent or contractor. Shoe Joint Cement Left in Csa Displace 79 Meas Line EQUIPMENT No. Cementer No. Helper Common Driver Poz. Mix Driver Gel. JOB SERVICES & REMARKS Calcium Hulls Remarks: Salt Rat Hole (1) SKS Mouse Hole Flowseal Centralizers # Kol-Seal Mud CLR 48 500 GAL Baskets CFL-117 or CD110 CAF 38 D/V or Port Collar DRODDED BALL BROKE CIPPLLATION Sand Handling 30 may on BOTTOM. DUMDED 500 Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets AFU Inserts Float Shoe Latch Down Pumptrk Charge Mileage 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

762

County State On Location **Finish** Range Sec. Twp. Date Well No. Lease Owner To Quality Oilwell Cementing, Inc. Type Job You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. T.D. 2 **Hole Size** Charge Depth 2 Depth Tbg. Size Depth Tool. The above was done to satisfaction and supervision of owner agent or contractor. **Shoe Joint** Cement Left in Csa. Cement Amount Ordered Displace Meas Line EQUIPMENT Cementer / Common **Pumptrk** Helper Driver No. Poz. Mix Bulktrk Driver No. Driver Gel. Driver Connic Bulktrk. **JOB SERVICES & REMARKS** Calcium Hulls Remarks: Salt Rat Hole Flowseal Mouse Hole Kol-Seal Centralizers Mud CLR 48 **Baskets** D/V or Port Collar CFL-117 or CD110 CAF 38 Sand Handling Mileage FLOAT EQUIPMENT **Guide Shoe** Centralizer **Baskets** AFU Inserts 32423 Moreowiji. Float Shoe Latch Down Pumptrk Charge Társka († 🎉 Mileage Tax Discount **Total Charge** Signature

Darrah Oil Company

Geologic Report

#6 John Vacek 15-053-21273

Ellsworth County Kansas 330 FSL & 1510 FEL Sec. 32 T15S R10W

KB: 1783' GL: 1778'

All measurements taken from KB

Contractor: Mallard JV

Spud date: Drilling complete:

July 27th, 2012 August1^{st,} 2012

Geologist Seth Evenson on location 11:45 am July, 30th 2012 @ 2560 ft. MD

Drill time taken from 2400 ft. to TD Samples logged from 2490 ft. to TD

Sam	nle	T_{Ω}	ne•
Dan	ne	10	DS:

Topeka	2526' (-743)	Lansing G zn	3015' (-1232)
Oread	2742' (-959)	Muncie Creek shale	3073' (-1290)
Heebner	2825' (-1042)	Stark shale	3157' (-1374)
Toronto	2848' (-1065)	Hushpuckney shale	3189' (-1406)
Douglas	2855' (-1072)	BKC	3213' (-1430)
Brown Lime	2925' (-1142)	Simpson	3242' (-1459)
Lansing	2943' (-1160)	Arbuckle	3273' (-1490)
Lansing B zn	2971' (-1188)	Arbuckle porosity	3277' (-1494)
W		TD	3282' (-1499)

Formation Tests:

DST #1	DST #2
3266' - 3282' MD	3250' – 3282' MD
MIS-RUN	HP 1643 - 1598
Packer did not seat	IFP $43 - 90$ 20 r
	ISI 787 30 ı
Rec: 210' Mud	FFP 100 – 123 30 r

FFP 100 – 123 30 min FSI 760 60 min Rec. 91' GO (25% G; 75% O) 180' MCO (45% M; 55% O)

20 min 30 min

Structural Comparison:

	#6 John Vacek E2/SE/SW/SE Sec 32 15S-10W	#5 John Vacek E2/SW/SE/SE Sec 32 15S-10W	#3 Adamek A NE/NE/NW Sec 5 16S-10W
Topeka	-743	-745 (-2)	-749 (-6)
Douglas	-1072	-1071 (+1)	-1074 (-2)
Lansing	-1160	-1159 (+1)	-1162 (-2)
Stark	-1374	-1371 (+3)	-1372 (+2)
BKC	-1430	-1432 (-2)	-1432 (-2)

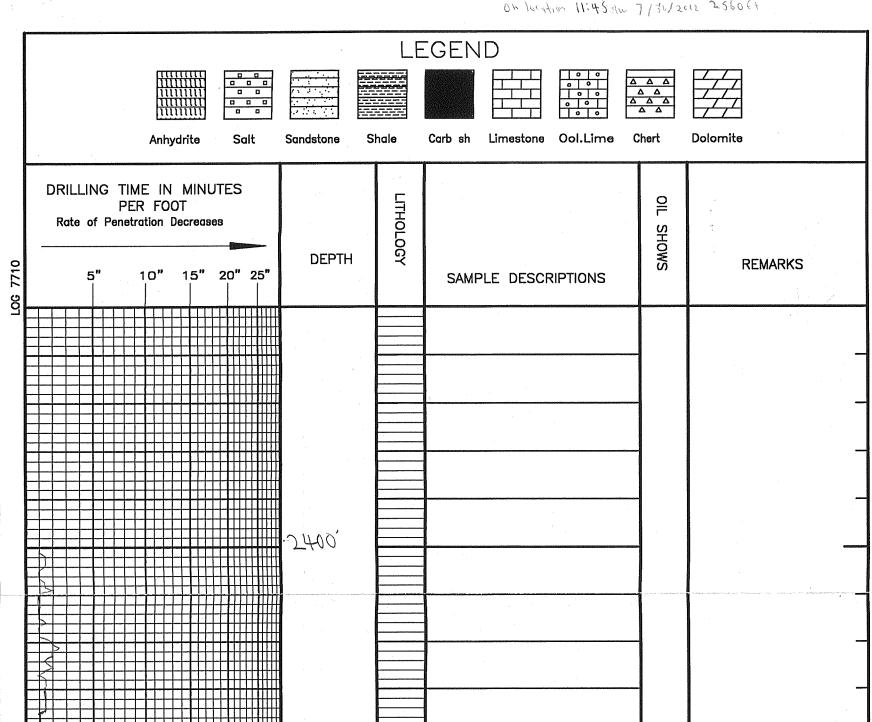
Simpson -1450 -1452 (-2) -1453 (-3) Arbuckle -1494 -1516 (-22) -1507 (-13)

Due to significant structural advantage in comparison to nearby wells, coupled with the positive results from DST #2; it was decided to run 5 1/2 inch production casing six feet off bottom (3276' MD -1493 SS) to further test the Arbuckle dolomite. Well was open-hole completed as above, with the wiper plug down and holding @ 3:45 am on Thursday August the 1st, 2012.

Respectfully Submitted by,

Seth Evenson Geologist Darrah Oil Co September 4th, 2012

On location 11:45 day 7/30/2012 25606+

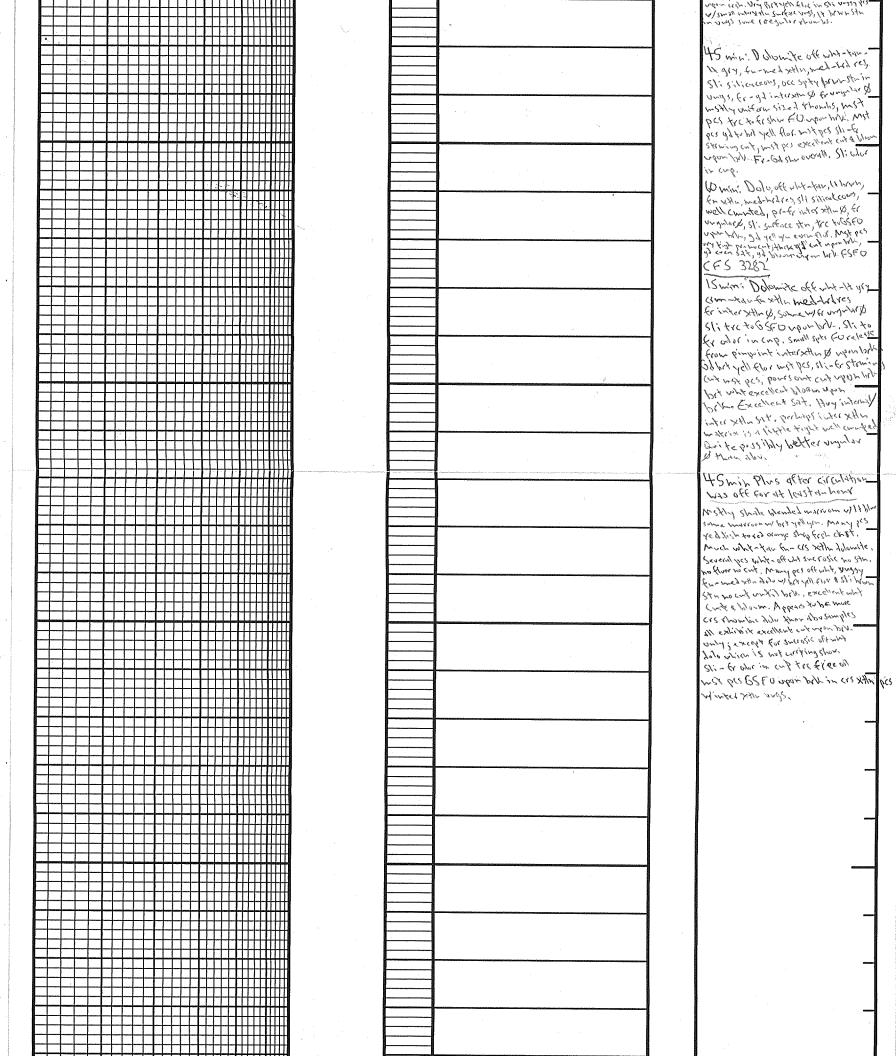


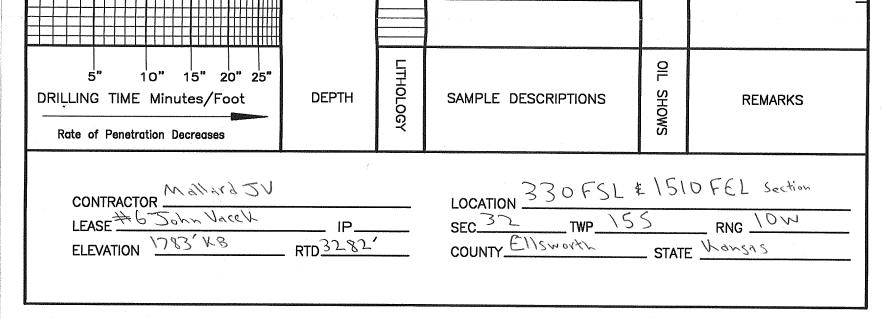
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	+	H	H	$+ \parallel \blacksquare$				Ш			1A	no vig & much varicolored chit, some shaley bovis & mark wypurplish inchorsions, some reddish	70'	3273 (110) Art 80/05/17 3277 (-1494)
L		1								Ţ		andy completable. Out, white to bone from shory sti colitie sti lary	 	3275-80 Vyri colored shake gry,
		走							ARB	(J)	777 .	a fee pesyellow Shaley 55 very Engram mondy K	75	14. My ded burly py de seg per early
E	K								-cFS			micaseons shaloy S.S. novis & diers any etz sad grown	mushow, &	Some shop Fish off whit they I pro Shaley, _
	H								CFS					
F									TD				,	CFS@3280
Ļ								####	3282				1	15min: Vivid varicolored shale brite grayellow blue year pargles blu
F	#	1-1-1	+	\Box	111	##		###		,		, `		ary red etc. 1 don't viry for grained gry
								###	TD reach (appears titely countril, no ois It in frent work gd, vry gd Sat, no str
			\Box	H	H	+++		###	Aug 15t, 20				:	Nofice of nan filtreament I cas zong gand dan
E			oxtlush					$\prod \prod$						poss dead surface sty, no cod. 30 min; Dolomite, 4 trum, ton-
E														off whit, very finger within, hell-med res.
E	H		$\pm E$	\coprod										some sucruste, for show to upon both in some PCS. It even flor. Sti abor in eng. Some
		\perp		\Box		\Box	ШШ	Ш						24 ded der genden eranzer der pone not gut mocky





DST #1 3266-82 Wiskny

Packer Bidnot seat

Rec 210, Wrg

DST #2

3250'-3282' IHP 1643 #5 FHP 1598 #3 IFP 43-90 #s FFP100-123#5 ISIP 787 #s FSIP 760 #s Rec 91.4 GO (25%G;75%O) 180 ft MCO (45% M; SS%O)

20-30-30-60

Dry Sample Analysis

3530-140, Fms contar- Hand megaly les mecroxth, stichly mest proboris & Shale gry dan moreon by of it is y or 5 mey any missore any degine no stu, no chisters

3240-50, Stale del' del marron PlA byoth to fissile, I pe It my on to to silty shall shall shall so. Pr- mo vis & mostin;

3250-60 Less shale than aby more tak- It gry ach some ne cooxy propos of sop and may as considering MS Ex m nothing no ent, Die street fler cook

3260-70 Kerpun estat 30pps straje + yellowish wise xith shaley oditic long, CAR KING SEMMACH ON GOING, NO 413 M. HEJI OR W. Shory feesh except yellowide they off whit glip childs A few med-ess sub-ong et 2 Sunday & and Two se pass sti MK starmo dust ino cost, to fluss...

3270-75 Variculares shale Echit, more vising place of whyte Hell from dery yet below ever some alt was, was especial state for earlier of profession macron. Too is an answers in some mores of

Sti yell to off wht the garden for xthe stichly silicocers Ims, privis & trebuly parish Arb. , with noticed, some de who xxx had a, maximus, tite, no loose sudgrains moticed 3286 30min

Dolowite off wholk gryshow th-med xth, wany with god my lar & interaction only of four property & Set in about half of Dolopes, Some Semi-succesic pes wichly watrix & ho Stupius x in these pes, most permed-had res. some ton wpyrite inclusions, Pes without Stain appray to have interxtly so infiled well, hotice I got in the Sand grain med no 5th, the Kest of Bample will colored shale & Chip as about

3280 45 min

Dolomite much live abs, much ton-bro to ce suprombic of all sugular & inter xtland, ad even SALF GAR SAN, Same per all which It ger mices vertextly, het -verticales, no vis & wo str. Still many per data off whit to get med a comform Thousand who wright all chilly most set is sto. tre sub my gtz S.S. as above lousegrain only

3282 15min

Ddo mite, appears to be decrease in highly str regular his from you & beings incresse in off with to be we are in the -1 of - 120 xHm Comis chrosic

7282 45 mins

* Please note that this sample was taken after the mud pump was off line for a point an how. The US win sample OTD was taken a few minutes after circulation was restored; theretor it should not be considered a good representative Sample from 3282. However it is appearantly of good representative sample of the moteled, various Simpson Shale, as it dominates this sample.

Moteled & Bantier, vivid, purple, preplet for gen, preplet yen orn, war colored smale, head ish, red brange ship fish this, Dolowite Similar to those described who.

2 TIS-80 Naticolares Shale & Grit as abov. Dolo off white, Tacking 13th, These per many wavest increase in & 13 seg mico Xth, bitres, no sta perno visto, 1 pe verspes idize to less presence of this in inter Ahmandrix. pringo int orgs, no theor we cat, stisticacous, organizes Weather show than about stumples but still fr no show, wice with ite, I sub and sud grain my bit sto, med, hocat inter xth & overall, A few possilicious dolo or fruit. wicco ather by his res, of most smooth feat or shiney loster. wo sin's x. This sample contains duto my of brown even 3280 ISmin Validored shale, much blu, marroon & yell grashale) State Sat which have be inter xtla ongs love to after ber court zort & they power will is aple and for looks expery formers of I succeeded sized should, may be different forth Sund gains a few WST Gh, holl wer hour, also un few per all who ver for than those yestered alow. Xthe dolo, fite, notices, cut or str.

3 11 - 3 - 011 /01000 por 60 12000-1310 ;