KOLAR Document ID: 1365234

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 #	API No.:
Name:	Spot Description:
Address 1:	SecTwpS. R East West
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 #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
☐ CM (Coal Bed Methane)☐ Cathodic☐ Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
	If yes, show depth set: Feet
If Workover/Re-entry: Old Well Info as follows:	
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to: w/ sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	·
GSW	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. R East West
Recompletion Date Recompletion Date	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 Approved by: Date:										

KOLAR Document ID: 1365234

Page Two

Operator Name:					Lease Nam	ne:			Well #:				
Sec Tw	rpS	S. R	Eas	st West	County:								
	l, flowing an	d shut-in pres	sures, wh	ether shut-in pre	ssure reached	static	level, hydrostat	ic pressures, bo		val tested, time tool erature, fluid recovery,			
Final Radioactivi files must be sub							gs must be emai	led to kcc-well-l	ogs@kcc.ks.gov	v. Digital electronic log			
Drill Stem Tests (Attach Addit)		Yes No		Lo		n (Top), Depth a		Sample			
Samples Sent to	Geological	Survey		Yes No		Name			Тор	Datum			
Cores Taken Electric Log Run Geologist Report List All E. Logs F	t / Mud Log	s		Yes No Yes No Yes No									
			Rep	CASING	RECORD [Nev		on, etc.					
Purpose of St	tring	Size Hole Drilled		Size Casing let (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives			
				ADDITIONAL	CEMENTING /	SQUE	EEZE RECORD		<u>'</u>				
Purpose: Perforate		Depth Top Bottom	Тур	pe of Cement	# Sacks Use	ed Type and Percent Additives							
Protect Ca													
Plug Off Z													
Did you perform Does the volume Was the hydraul	e of the total	base fluid of the	hydraulic	fracturing treatment		-	Yes yes Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three				
Date of first Produ Injection:	ction/Injection	n or Resumed P	roduction/	Producing Meth	od:		Gas Lift O	ther <i>(Explain)</i>					
Estimated Product Per 24 Hours		Oil	Bbls.		Mcf	Water			Gas-Oil Ratio	Gravity			
DISPO	OSITION OF	GAS:		N	METHOD OF CO	MPLET	ΓΙΟΝ:			DN INTERVAL: Bottom			
Vented		Used on Lease		Open Hole		Dually (Submit A		nmingled nit ACO-4)	Тор	BOLLOTTI			
,	ed, Submit AC							·					
Shots Per Foot	Perforation Top	on Perfor Bott		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeeze and of Material Used)				
TUBING RECORI	D: S	Size:	Set A	: -	Packer At:								

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	WING-DVORACHEK 1
Doc ID	1365234

Tops

Name	Тор	Datum				
Stotler	3631	(-338)				
Heebner Sh.	3991	(-698)				
Toronto	4011	(-718)				
Lansing	4042	(-749)				
Muncie Creek	4211	(-918)				
Stark Sh.	4297	(-1004)				
Hushpuckney Sh.	4341	(-1048)				
Base of KC	4380	(-1087)				
Marmaton	4429	(-1136)				
Altamont	4436	(-1143)				
Pawnee	4511	(-1218)				
Myrick St.	4556	(-1263)				
Ft. Scott	4569	(-1276)				
Cherokee Sh.	4598	(-1305)				
Johnson	4687	(-1394)				
Morrow	4740	(-1447)				
Miss.	4823	(-1530)				
LTD	4900	(-1607)				

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	WING-DVORACHEK 1
Doc ID	1365234

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.250	8.625	14	231	Common	175	2% gel, 3% c.c.
Production	7.875	4.50	11.6	4898	SMD, EA- 2	220	500 gal. mud flush w/additive s & 20 bbl. KCL



P. O. Box 466 Ness City, KS 67560 📓 Off: 785-798-2300



Invoice

DATE	INVOICE#
6/27/2017	30397

BILL TO

Palomino Petroleum Inc. 4924 S E 84th Street Newton, KS 67114-8827

RECEIVED · Acidizing

JUL 01 2017

Cement

Tool Rental

TERMS	Well N	lo. Lease	County	Contractor	We	II Туре	W	ell Category	Job Purpose	Operator
Net 30	#1	Wing-Dvorac	Logan	Express Well		Oil	Developme		Cement Port Co	llar Blaine
PRICE	PRICE REF. DESCRIPTION						1	UM	UNIT PRICE	AMOUNT
575D 576D-D 330 276 290 104 581D 583D		Mileage - 1 Way Pump Charge - Dee Swift Multi-Density Flocele D-Air Port Collar Tool Re Service Charge Cem Drayage Subtotal Sales Tax Logan Co	Standard (MID ntal nent	O Ft.) & Port Collars (CON II)			1 240 60 2 1 400	Lb(s) Gallon(s) Each Sacks	5.00 1,250.00 15.75 2.25 42.00 200.00 1.50 0.75 8.00%	400.00 1,250.00 3,780.00T 135.00T 84.00T 200.00T 600.00 1,194.12 7,643.12 335.92

We Appreciate Your Business!

Total

\$7,979.04



ADDRESS

TICKET 30397

REFERRAL LOCATION Services, INVOICE INSTRUCTIONS WELL/PROJECT NO. TICKET TYPE | CONTRACTOR 07 CITY, STATE, ZIP CODE LEASE WING - DYORACHEN SKIND TEST THURS RIG NAME/NO. regan STATE SHIPPED DELIVERED TO WELL PERMIT NO. best: WELL LOCATION ORDERANO. 27 Non OWNER . 유

LIMITED WARRANTY provisions MUST BE SIGNED BY CUSTOMER OR CUSTOM START OF WORK OR DET WERE A COORSE	the terms and condition to the terms and conditions to the terms and the terms are the				583	281	401	390	276	330	5760	21.5	FERENCE	poice
LIMITED WARRANTY Provisions. MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO	LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to BAYIIFART DELITAGE INSERTION.									i prijekjeman			PART NUMBER	
OR TO	es and ag of which i					-	_			 -	-		LOC AC	
and	rees to nclude,												ACCT (
SWIFT SERVICES, INC.	REMIT PAYMENT TO:			C C	Drayage	Spenice charge	port what opening too rest a	D'AR	Floreke	SIMD COMENT	Timp Chosse	MILEAGE TOX 114	DESCRIPTION DESCRIPTION	The state of the s
WE UNDERSTOOD AND MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY?	SURVEY JUR EQUIPMENT PER WITHOUT BREAKDOW				, i					· · · · · · · · · · · · · · · · · · ·				
JT DELAY?	 				39804 16	400 186	2/2	22	601	24012	1 00	SO!	ατγ. υ	
	AGREE DE								3			fu.	UM QTY	
	DECIDED AGREE		_		1592,2 TM		100						. UM	
	E PAGE TOTAL				52 0	1 50	200 00	92/00	2 25	15 75	125018	5 00	UNIT	***************************************
	7643 ia			-	1194112	600	200100	84/20	1350	778DI00	1250 00	~000 h	AMOUNT	

SWIFT OPERATOR

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this licket

START OF WORK-OR DELIVERY OF GOOD

DĂTE SIGNED

TIME SIGNED (

٢ **À**□ ₽ ≥

APPROVAL

P.O. BOX 466

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS

NESS CITY, KS 67560

ARE YOU SATISFIED WITH OUR SERVICE?

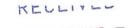
CUSTOMER DID NOT WISH TO RESPOND

TOTAL

Thank You!

785-798-2300

DATE 27 JUNIT PAGE NO. SWIFT Services, Inc. JOB LOG WELL NO. DYOKACHER **PUMPS VOLUME** NO. (BBL) (GAL) TUBING CASING 400sk SMD compt w/ 1/4 flocelo. 23/4/2 portcollar - 2534' on loc textif 1145 Hest to 1000 ps; - held open put collar 1212 1000 35 Mix SMD coment @ 11.2pgg 400 - shut down - tende was interance -22 1237 mix SMD again Hzppg 1253 128 450 1000 1000 1343 1350 20



P. O. Box 466 Ness City, KS 67560 Off: 785-798-2300



Invoice

DATE	INVOICE #
6/19/2017	30589

BILL TO

Sexues.

Palomino Petroleum Inc. 4924 S E 84th Street Newton, KS 67114-8827

- Acidizing
- Cement
- Tool Rental

TERMS	Well N	VO.	Lease	County	Contractor	We	II Type	W	ell Category	Job Purpos	е	Operator
Net 30	#1		Wing-Dvorac	7ing-Dvorac Logan WW Drilling Rig					evelopment	Cement 4 1/2 L	ю	David K.
PRICE	PRICE REF. DESCRIPTION						QTY		UM	UNIT PRICE		AMOUNT
575D 578D-L 402-4 403-4 404-4 406-4 407-4 419-4 325 284 283 285 276 330 290 281 221 581D 583D		Pum 4 1/. 4 1/. 4 1/. 4 1/. 4 1/. 4 1/. 5tan Cals Salt CFR Floc Swift D-A Mud Liqu Serv Dray Subt	R-1 sele ft Multi-Density S ir I Flush nid KCL (Clayfix) rice Charge Ceme vage	t lug & Baffle oe With Auto Rental Standard (MID			5	550 50 50 125 3 500 4 250	Sacks Gallon(s) Gallon(s) Gallon(s) Sacks	5.00 1,250.00 55.00 225.00 2,400.00 200.00 12.25 30.00 0.20 4.50 2.25 15.75 42.00 1.25 25.00 0.75		450.00 1,250.00 605.00T 225.00T 2,400.00T 200.00T 275.00T 200.00T 1,531.25T 180.00T 130.00T 225.00T 112.50T 1,968.75T 126.00T 625.00T 100.00T 375.00 861.00 11,839.50 667.76
We Ap	le Appreciate Your Business!								Total			Ø10 505 0 c

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\$12,507.26

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16 5000	<u> </u>
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TICKET 30589

SERVICE LOCATIONS 1. A JOSS C: 14 145 2.	WELUPROJECT IYPE TICKET TYPE TISALES WELL TYPE WELL TYPE	ITRACTOR	Dubranchelk Dranchelk	STATE CITY ILCOLOR SHIPPED DELVERED TO VACT LOCAL CON WELL PERMIT NO.	5000	DATE OWNER C-1-17 Se
REFERRAL LOCATION	INVOICE INSTRUCTIONS		bevelopment 1/2 Long	and fring		activate ca
PRICE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC ACCT DF	DESCRIPTION	QTY.	UM QTY. UM	UNIT
575			MILEAGE Tok # 112		90	5-8
885			Pump Charge - Longstring	41/2	š }	1),50 =
(0+		danis	ix izer	11/2		55 la
403			Coment Bushel	1 J.H	in lea	$225^{ \omega }$
2			Port Coller	41/2	n'n	2400 00
406			Litch Down Plus & Baff		in la	$\int \!$
HO7			Insert Float Shoe W/ Anho	F.11 41/2		275 0
15			Rotating Hosel Rental	4112		$ \mathcal{X}\mathcal{X} ^{\infty}$
the terms and condition	LEGAL TERMS : Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include	s and agrees to	REMIT PAYMENT TO:	SURVEY OUR EQUIPMENT PERFORMED	AGREE DECIDED AGREE	PAGETO
but are not limited to,	but are not limited to, PAYMENT, RELEASE, INDEMNITY, and	DEMNITY, and		WITHOUT BREAKDOWN? WE UNDERSTOOD AND MET YOUR NEEDS?		2
MUST BE SIGNED BY CUSTOMER OR CUSTOM	OMER OR CUSTOMER'S AGENT PRIOR)	SWIFT SERVICES, INC.	OUR SERVICE WAS PERFORMED WITHOUT DELAY?		
START OF WORK OR DELIVE	START OF WORK OR DELIVERY OF GOODS			WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISEACTORI Y2		10000
DATE SIGNED	TIME SIGNED	¥ A	785-798-2300	ARE YOU SATISFIED WITH OUR SERVICE?	RVICE?	TOTAL
	GHAIM		AIGNAMED TO COMPANY TO THE PART OF THE PAR	CUSTOMER DID NOT WISH TO RESPOND	WISH TO RESPOND	, CA

SWIFT OPERATOR

David Kuchn

APPROVAL

Thank You!

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, .	583	581					**************************************					221	281	Obf	330	27%	285	283	284	315	PRICE	Serger	
															***************************************		Market de la company de la	**************************************			SECONDARY REFERENCE/ PART NUMBER		
					***************************************				***************************************												ACCOUNTING LOC ACCT DF	Off: 785-798-2300	PO Box 466
	mileage Total Weight Loaded Miles q_O	SERVICE CHARGE									7	Ligured 16CL	Much Flush		SMD Coment	Flocele	CFR-1	S +		Standard Coment (EA.2)	TIME	CUSTOMER PENDOMINO PENDOLEUM	
20) THE THINGS	COBIC FEET				 		 				H land		3 g, l	<u> </u>	b SO	8	101% 801 lk	5 % 6	אלו וואַ		WELL Dubrechely MI	110 to Representation (Control of Control of
CONTINUATION TOTAL 6,334, SC	<i>∞</i> ∞) lsv 375										25 0	1 125 625	136 136 136 P	1896 12151	2 ²⁵ 112	4 50 225	CO 120 130 1	30 0 180	128 1531	UNIT AMOUNT	DATE 6-19-17 PAGE 2 OF 2	1 1

JOB LO) G				SWIF	T Seri	ices. Inc. DATE 6-19-17 PAGE NO.
CUSTOM			WELL NO.		LEASE	Duorac	JOB TYPE TICKET NO. H. TOTAL
CHART NO.	TIME	RATE	VOLUME L	PUMPS	PRESSI	JRE (PSI)	DESCRIPTION OF OPERATION AND MATERIALS
NO.	0700	(BPM)	(BBL) (GAL)	T C	TUBING	CASING	1/1/11
							On location 12 Has
		····					RTD-4900' LTD-4900'
							TP- 4901' S5- 40.37'
							P.G - 458 25341
							Cent- "1"3"5"7"9"11"12"14"16"18"57
· · · · · · · · · · · · · · · · · · ·							Bushet - #58
							11.6#
	0815				***		Start 41/5" 185" casing in well
	المراجعة الما						0 0 11 11 11 11 11 11
•	1015						Drop Bull Circulate * Rotate *
	1115	61/2	12	V	 	350	Pump 500 gal Mud Flush
	111	61/2	20	1	1	350	Pump 20 Hd 14CL Flush
							City
			11				Plus RH (30sks)
			•				-3
	1130	4/2	36	V		250	mix 95 shs SMD e 12.5 pg
		41/2	30	V		250	mix 125 shs EA-2 @ 15.5 ppg
							wash out Pump/Lines
<u></u>							Relawse Lutch Down Plug
	IISO	در 6	Ø	1/		100	Start Displacement KCL in 1st tank
	11100	6/2	48	1/	 	250	Lift Pressure
		61/2	75	V	 	800	
	1205	61/2	75,3	1		1600	
		The state of the s					~
				error de la constitución de la c			Release Pressure * Plug Hold *
							wash up truck
	1000						
	1230						Job Complete
···········							TI I, V
							Thank You
	 						Dave Preston Issac



Ritchie Exploration Inc.

8100 E 22nd St. N#700 P.O. Box 783188 Wichita KS 67278 ATTN: John Goldmith

26-15s-36w Logan Co KS

Wing-Dvorachek #1

Job Ticket: 63742

DST#: 1

Test Start: 2017.06.15 @ 07:11:23

GENERAL INFORMATION:

Time Tool Opened: 09:07:08

Time Test Ended: 13:20:23

Formation:

Κ

Deviated:

No Whipstock: ft (KB)

Tester:

Test Type: Conventional Bottom Hole (Initial)

Mike Roberts

Unit No:

81

Reference Elevations:

3293.00 ft (KB)

3288.00 ft (CF)

interval: Total Depth: 4296.00 ft (KB) To 4344.00 ft (KB) (TVD)

4344.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

KB to GR/CF:

5.00 ft

Serial #: 8672 Press@RunDepth: Inside

psig @

4339.00 ft (KB) End Date:

2017.06.15

Capacity: Last Calib.: 8000.00 psig

Start Date:

2017.06.15

Time On Btm:

2017.06.15

Start Time:

07:11:15

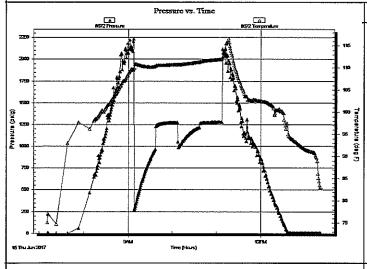
End Time:

13:21:00

Time Off Btm:

TEST COMMENT: IF: BOB in 1 min.

IS:No return blow FF:BOB in 1 min. FS:No return blow



	PI	RESSUR	RE SUMMARY
Time (Min.)	Pressure (psig)	RESSUR Temp (deg F)	RE SUMMARY Annotation

Recovery

Description	Volume (bbl)
w cm 40%w 60%m	3.26
sw 100% sw	28.70
	w cm 40%w 60%m

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

Trilobite Testing, Inc

Ref. No: 63742



FLUID SUMMARY

Ritchie Exploration Inc.

26-15s-36w Logan Co KS

Wing-Dvorachek #1

8100 E. 22nd St. N#700 P.O. Box 783188

Job Ticket: 63742

DST#: 1

Wichita KS 67278 ATTN: John Goldmith

Test Start: 2017.06.15 @ 07:11:23

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: Viscosity:

9.00 lb/gal

Cushion Length: Cushion Volume: Water Salinity:

17000 ppm

Water Loss:

55.00 sec/qt 7.19 in³ 0.00 ohm.m

Gas Cushion Type:

Gas Cushion Pressure:

psig

ft

bbl

Resistivity: Salinity: Filter Cake:

3800.00 ppm 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	w cm 40%w 60%m	3.264
2046.00	sw 100% sw	28.700

Total Length:

2356.00 ft

Total Volume: 31.964 bbl

Serial #:

Num Fluid Samples: 0

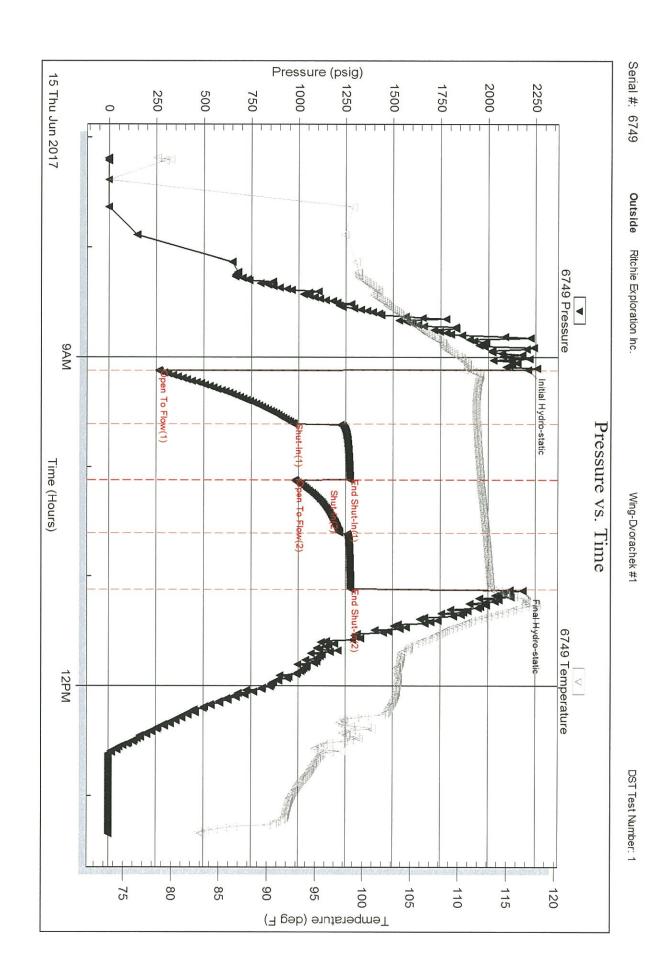
Num Gas Bombs: 0

Laboratory Name:

Laboratory Location: Recovery Comments: RW= .336 @ 97.1= 17,000 ppm

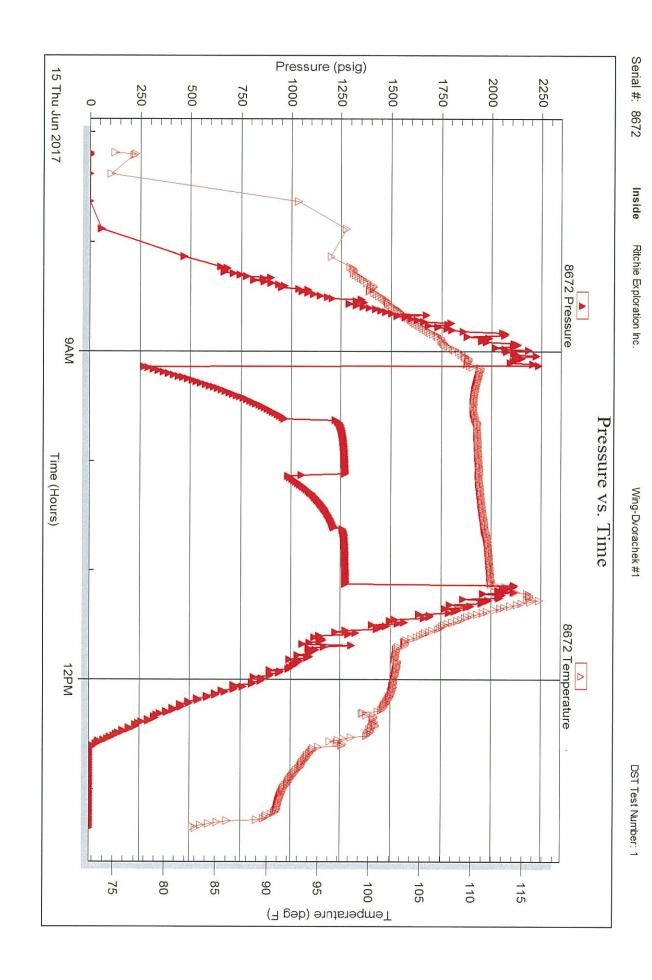
Trilobite Testing, Inc

Ref. No: 63742



Trilobite Testing, Inc

Ref. No: 63742



Trilobite Testing, Inc

Ref. No: 63742



Ritchie Exploration Inc.

8100 E. 22nd St. N#700 P.O. Box 783188 Wichita KS 67278 ATTN: John Goldmith

26-15s-36w Logan Co KS

Wing-Dvorachek #1

Job Ticket: 63743

DST#: 2

Test Start: 2017.06.16 @ 04:27:15

GENERAL INFORMATION:

Time Tool Opened: 06:06:15

Time Test Ended: 10:44:45

Formation:

Altam ont A

Deviated:

Interval:

Whipstock: No

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Mike Roberts

Unit No:

81

Reference Elevations:

3293.00 ft (KB)

KB to GR/CF:

3288.00 ft (CF)

Hole Diameter:

4430.00 ft (KB) To 4455.00 ft (KB) (TVD)

Total Depth:

4455.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

5.00 ft

Serial #: 6749 Press@RunDepth: Outside

81.23 psig @

4430.00 ft (KB)

2017.06.16

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time:

2017.06.16 04:27:15 End Date: End Time:

10:44:45

Time On Btm:

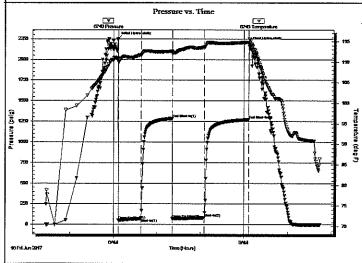
2017.06.16 2017.06.16 @ 06:06:00

Time Off Btm:

2017.06.16 @ 09:07:15

TEST COMMENT: IF:Built to 1 1/2" blow

IS:No return blow FF:Built to 2" blow FS:No return blow



P.	RESSUF	RE SL	JMMAF	۲Y
	-			

4				
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2249.10	110.77	Initial Hydro-static
	1	53.57	110.03	Open To Flow (1)
	32	70.87	111.72	Shut-In(1)
	75	1284.55	112.61	End Shut-In(1)
	76	71.85	111.98	Open To Flow (2)
	119	81.23	113.59	Shut-In(2)
	181	1273.51	114.77	End Shut-In(2)
ı	182	2187.37	115.58	Final Hydro-static
ı				i i
Ī				
١				
١				

Recovery

Description	Volume (bbl)
ocm 10%o 90%m (collars)	0.59
mco 20%m 80%o	0.21
free oil	0.42
	ocm 10% o 90% m (collars) mco 20% m 80% o

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 63743



Ritchie Exploration Inc.

8100 E. 22nd St. N#700 P.O. Box 783188 Wichita KS 67278 ATTN: John Goldmith

26-15s-36w Logan Co KS

Wing-Dvorachek #1

Job Ticket: 63743

DST#: 2

Test Start: 2017.06.16 @ 04:27:15

GENERAL INFORMATION:

Time Tool Opened: 06:06:15

Time Test Ended: 10:44:45

Formation:

Altamont A

Deviated:

Interval:

Whipstock: Nο

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Mike Roberts

Unit No:

81

Reference Elevations:

3293.00 ft (KB)

3288.00 ft (CF)

Total Depth: 4455.00 ft (KB) (TVD)

Hole Diameter:

4430.00 ft (KB) To 4455.00 ft (KB) (TVD) 7.88 inches Hole Condition: Fair

KB to GR/CF:

5.00 ft

Serial #: 8672 Press@RunDepth: Inside

psig @

4430.00 ft (KB)

Capacity: 2017.06.16 Last Calib.: 8000.00 psig

Start Date:

2017.06.16

End Date: End Time:

Time On Btm:

2017.06.16

Start Time:

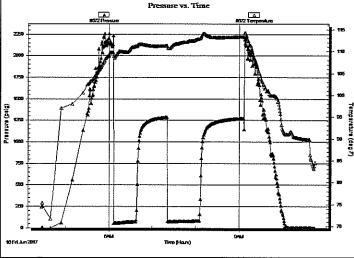
04:27:15

10:44:45

Time Off Btm:

TEST COMMENT: IF:Built to 1 1/2" blow

IS:No return blow FF:Built to 2" blow FS:No return blow



PRESSURE	SUMMARY

	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
		- -/	,	
Tempi				
Temperature (deg F)				-
5				

Recovery

Length (ft)	Description	Volume (bbl)
119.00	ocm 10%o 90%m (collars)	0.59
15.00	mco 20%m 80%o	0.21
30.00	free oil	0.42
* Recovery from n	nuitiple tests	

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 63743



FLUID SUMMARY

Ritchie Exploration Inc.

26-15s-36w Logan Co KS

8100 E. 22nd St. N #700 P.O. Box 783188 Wichita KS 67278

Job Ticket: 63743

Wing-Dvorachek #1

DST#: 2

ATTN: John Goldmith

Test Start: 2017.06.16 @ 04:27:15

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Cushion Type: Cushion Length: Oil API:

31 deg API

Mud Weight: Viscosity:

54.00 sec/qt

Cushion Volume:

Water Salinity:

0 ppm

Water Loss: Resistivity: 7.18 in³ 0.00 ohm.m

Gas Cushion Type: Gas Cushion Pressure:

psig

ft

bbl

Salinity: Filter Cake: 5000.00 ppm 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
119.00	ocm 10%o 90%m (collars)	0.585
15.00	mco 20%m 80%o	0.210
30.00	free oil	0.421

Total Length:

164.00 ft

Total Volume:

1.216 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 31 @ 60

Trilobite Testing, Inc

Ref. No: 63743

Temperature (deg F)

Serial #: 6749

Outside

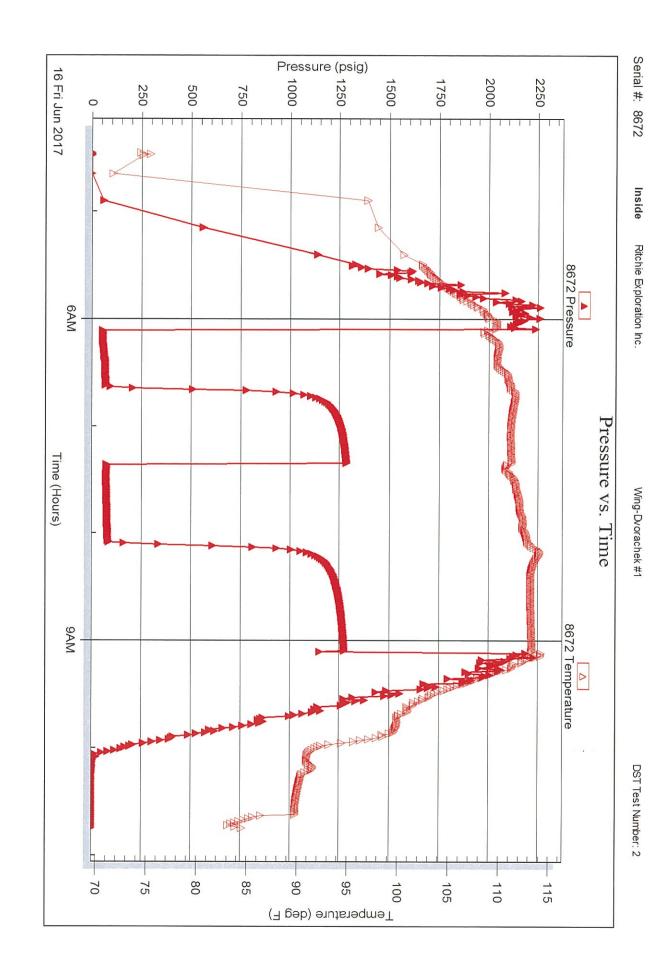
Ritchie Exploration Inc.

Wing-Dvorachek #1

DST Test Number: 2

Trilobite Testing, Inc

Ref. No: 63743



Trilobite Testing, Inc

Ref. No: 63743



Ritchie Exploration Inc.

8100 E. 22nd St. N#700 P.O. Box 783188 Wichita KS 67278 ATTN: John Goldmith

26-15s-36w Logan Co KS

Wing-Dvorachek #1

Job Ticket: 63744

DST#: 3

Test Start: 2017.06.16 @ 17:44:15

GENERAL INFORMATION:

Formation:

Altgmont "B"

Deviated:

Whipstock:

ft (KB)

Time Tool Opened: 19:23:15 Time Test Ended: 00:10:30

Interval:

4454.00 ft (KB) To 4478.00 ft (KB) (TVD)

Total Depth:

4454.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester:

Mike Roberts

Unit No:

Reference Elevations:

3293.00 ft (KB)

KB to GR/CF:

3288.00 ft (CF) 5.00 ft

Serial #: 6749

Outside

Press@RunDepth:

71.34 psig @ 2017.06.16

4455.00 ft (KB) End Date:

2017.06.17

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time:

17:44:15

End Time:

00:10:30

Time On Btm:

2017.06.17 2017.06.16 @ 19:23:00

Time Off Btm:

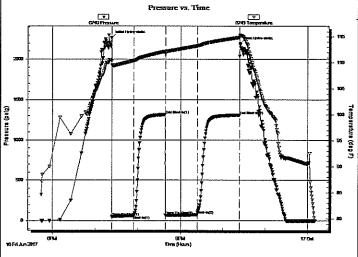
2017.06.16 @ 22:24:30

TEST COMMENT: IF: Built to 1/4" blow

IS:No return blow

FF:Built to weak surface blow and died in 7 min.

FS:No return blow



	PRESSURE SUMMARY						
Ī	Time	Pressure	Temp	Annotation			
	(Min.)	(psig)	(deg F)				
	0	2267.83	110.32	Initial Hydro-static			
	1	50,74	109.57	Open To Flow (1)			
	31	62.24	110.42	Shut-ln(1)			
4	76	1314.32	112.19	End Shut-In(1)			
3	76	68.08	111.59	Open To Flow (2)			
#1U1	121	71.34	113.23	Shut-In(2)			
Temperatura (dep F)	181	1309.34	114.86	End Shut-In(2)			
2	182	2191.51	115.32	Final Hydro-static			
i							

Recovery

Length (ft)	Description	Volume (bbl)
119.00	ocm 5%o 95%m (collars)	0.59
5.00	free oil 100 %o	0.07
* Recovery from	multiple tests	

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 63744



Ritchie Exploration Inc.

8100 E. 22nd St. N#700 P.O. Box 783188 Wichita KS 67278 ATTN: John Goldmith

26-15s-36w Logan Co KS

Wing-Dvorachek #1

Job Ticket: 63744

DST#: 3

Test Start: 2017.06.16 @ 17:44:15

GENERAL INFORMATION:

Time Tool Opened: 19:23:15

Time Test Ended: 00:10:30

Formation:

Altgmont "B"

Deviated:

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Mike Roberts

Unit No:

81

3293.00 ft (KB)

Reference Elevations:

3288.00 ft (CF)

K8 to GR/CF:

Interval: Total Depth: 4454.00 ft (KB) To 4478.00 ft (KB) (TVD)

4454.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

5.00 ft

Serial #: 8672 Press@RunDepth: Inside

psig @

4455.00 ft (KB)

2017.06.17

Capacity: Last Calib .: 8000.00 psig

Start Date:

2017.06.16

End Date:

Time On Btm:

2017.06.17

Start Time:

17:44:15

End Time:

00:10:30

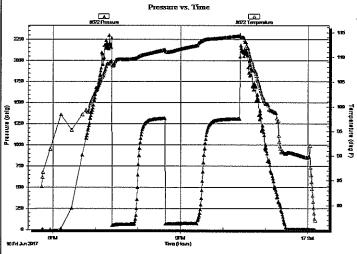
Time Off Btm:

TEST COMMENT: IF:Built to 1/4" blow

IS:No return blow

FF:Built to weak surface blow and died in 7 min.

FS:No return blow



PRESSURE SUMMARY

nsi	Time	Pressure	Temp	Annotation
~	(Min.)	(psig)	(deg F)	
D				
*				
a Tig				
Temperatura (dag F)				
6				
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.				

Recovery

Length (ft)	Description	Volume (bbl)
119.00	ocm 5%o 95%m (collars)	0.59
5.00	free oil 100 %o	0.07
Recovery from r	nuticle tests	

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 63744



FLUID SUMMARY

Ritchie Exploration Inc.

26-15s-36w Logan Co KS

Wing-Dvorachek #1

8100 E. 22nd St. N#700 P.O. Box 783188

Job Ticket: 63744

Serial#:

fŧ

bb!

psig

DST#: 3

Wichita KS 67278 ATTN: John Goldmith

Test Start: 2017.06.16 @ 17:44:15

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Viscosity: 53.00 sec/qt Water Loss:

Resistivity: Salinity: Filter Cake:

Mud Weight:

7.97 in³ 0.00 ohm.m

6000.00 ppm 1.00 inches Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Water Salinity:

Oil API:

29 deg API

0 ppm

Recovery Information

Recovery Table

Length ft Description Volume bbl 119.00 ocm 5%o 95%m (collars) 0.585 5.00 free oil 100 %o 0.070

Total Length:

124.00 ft

Total Volume:

0.655 bbl

Num Fluid Samples: 0 Laboratory Name:

Num Gas Bombs:

Laboratory Location:

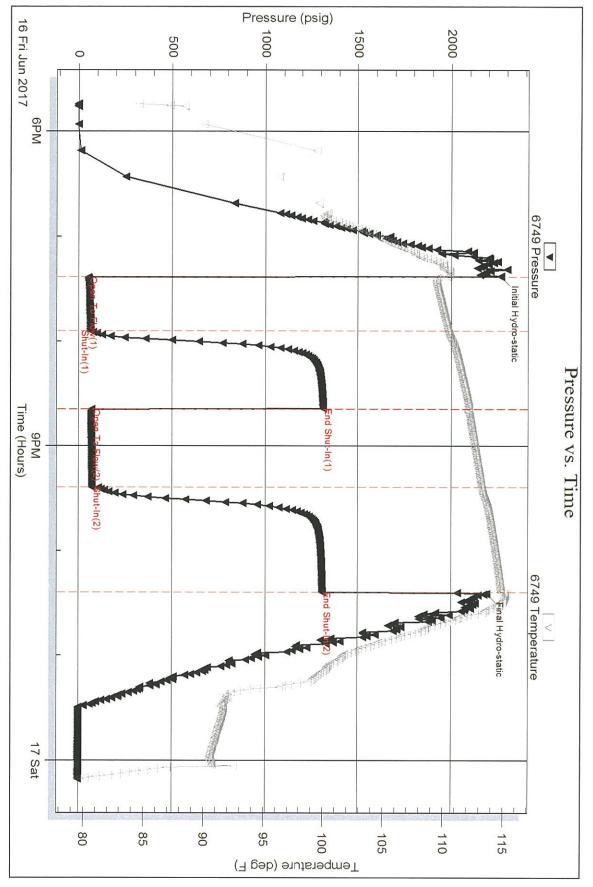
Recovery Comments: API= 29@60

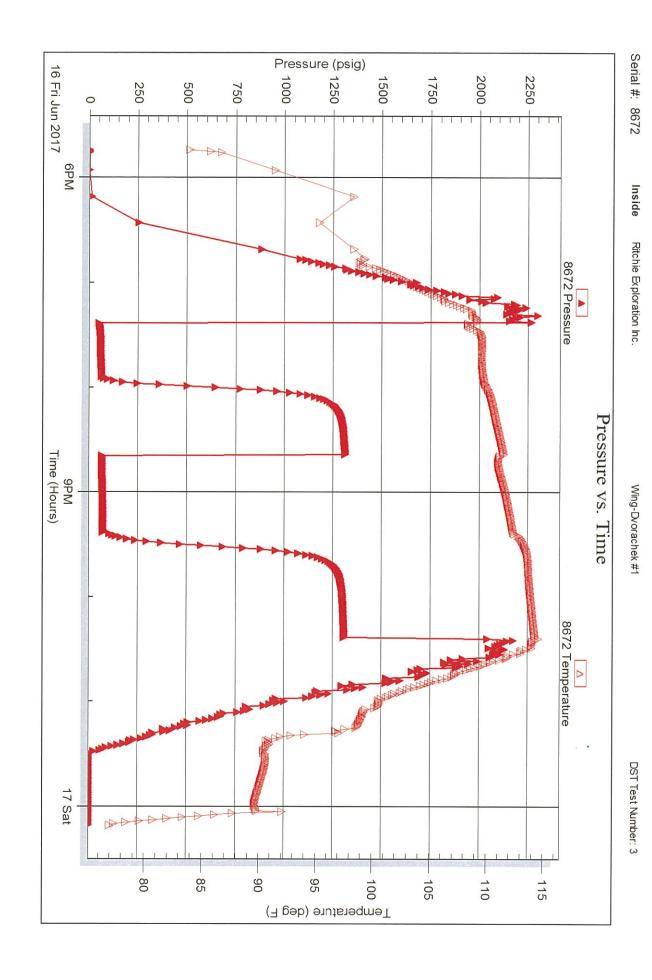
Trilobite Testing, Inc.

Ref. No: 63744

Printed: 2017.06.17 @ 06:44:27

Serial #: 6749





Trilobite Testing, Inc

Ref. No: 63744

Wellsite Services, LLC

John Goldsmith (316) 640-0236

427 Roosevelt St. Cheney, KS 67025

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

Well Name: #1 Wing-Dvorachek

API: 15-109-21507

Location: 1595' FNL, 122' FWL, SECTION 26-15S-36W

License Number: #4767 Region: Logan County

Spud Date: 06/10/2017 Drilling Completed: 6/18/17

Surface Coordinates: LAT: 38.7257853

LONG: -101.2981045

Bottom Hole Vertical hole

Coordinates: 1/4 Degree Deviation

Ground Elevation (ft): 3288'

K.B. Elevation (ft): 3293' Logged Interval (ft): 3700' To: RTD Total Depth (ft): 4900

Formation: Mississippian at RTD

Type of Drilling Fluid: Chemical

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

OPERATOR

Company: Ritchie Exploration Inc.

Address: 8100 E. 22nd St. N. Bldg. #700

Wichita, KS 67226 (316) 691-9500

GEOLOGIST

Name: John Goldsmith Company: Wellsite Services LLC Address: 427 Roosevelt St

Cheney, KS 67025 (316) 640-0236

RIG RECORDS

Contractor: WW Drilling Rig #10 Collar Tally: 480'

Pump: National K-380 Tool Pusher: Ricky Hilgers Liner & Stroke: 6 x 14

BIT RECORDS

Size: Type: Condition: Footage: Hours: Serial #: 12 1/4" Sm-tooth 0-231' RR 2.5' RH 6605 7 7/8" Sm-F27 231'-4900' New 110.5 **RJ 2927**

COMMENTS

Surface Casing: 5 joints of 8 5/8" set at 231'

Production Casing: 4.5" production casing installed.

Mud by: MudCo

DST's by: Trilobite Testing

Logs by: Pioneer Energy Services (DIL, CN-CD, ML)

RTD=4900' LTD=4900'

FORMATION TOPS

FORMATION	SAMPL Depth	E TOPS Datum	LOG TO	OPS Datum
0.4				
Stotler	3632'	-339	3631'	-338
Heebner Shale	3992'	-699	3991'	-698
Toronto	4013'	-720	4011'	-718
Lansing	4042'	-749	4042'	-749
Muncie Creek Shale	4212'	-919	4211'	-918
Stark Shale	4298'	-1005	4297'	-1004
Hushpuckney Shale	4342'	-1049	4341'	-1048
Base of KC	4380'	-1087	4380'	-1087
Marmaton	4427'	-1134	4429'	-1136
Altamont	4436'	-1143	4436'	-1143
Pawnee	4512'	-1219	4511'	-1218
Myrick Station	4556'	-1263	4556'	-1263
Ft Scott	4569'	-1276	4569'	-1276
Cherokee Shale	4598'	-1305	4598'	-1305
Johnson Zone	4688'	-1395	4687'	-1394
Morrow	4740'	-1447	4740'	-1447
Mississippian	4823'	-1530	4823'	-1530
RTD	4900'	-1607		
LTD			4900'	-1607

DSTs

DST #1 "LKC K" 4296'-4344' 6-15-17 30-30-30-30

1st Blw: Blw blt to BOB in 1 min (No BB) 2nd Blw: Blw blt to BOB in 1 min (No BB)

IFP: 262-974# ISIP: 1271# FFP: 979-1218# FSIP: 1275#

Hyd: 2210-2183#

Rec: 300' WCM (60% WTR), 2046' Wtr.

DST #2 "Altamont A" 4429'-4455' 6-16-17 30-45-45-60

1st Blw: Blw blt to 1.5" in 30min (No BB) 2nd Blw: Blw blt to 2" in 45min (No BB)

IFP: 53-70# ISIP: 1284# FFP: 71-81# FSIP: 1273#

Hyd: 2249-2187#

Rec: 30' FO, 15' MCO (80% Oil), 119' OCM (10% Oil).

DST #3 "Altamont B" 4454'-4478' 6-16-17 30-45-45-60

1st Blw: Blw blt to 1/4" in 30min (No BB) 2nd Blw: Wk surf blow died in 7min (No BB)

IFP: 50-62# ISIP: 1314# FFP: 68-71# FSIP: 1309#

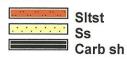
Hyd: 2267-2191#

Rec: 5' FO, 119' OCM (5% Oil).

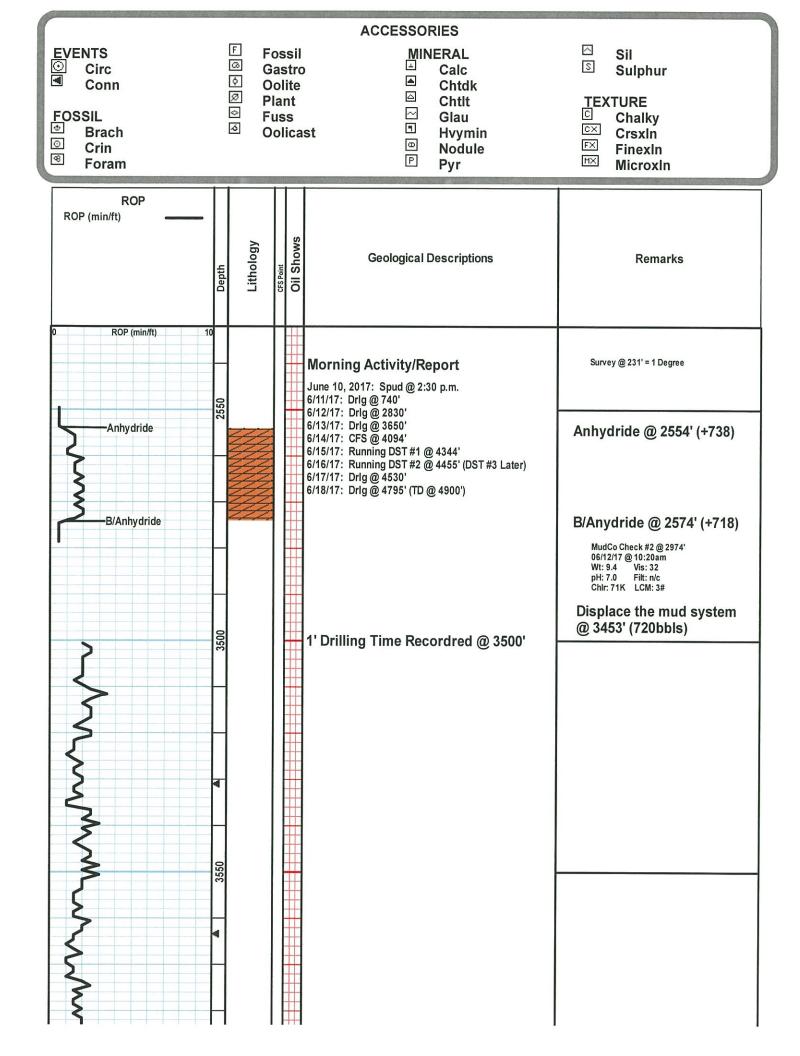


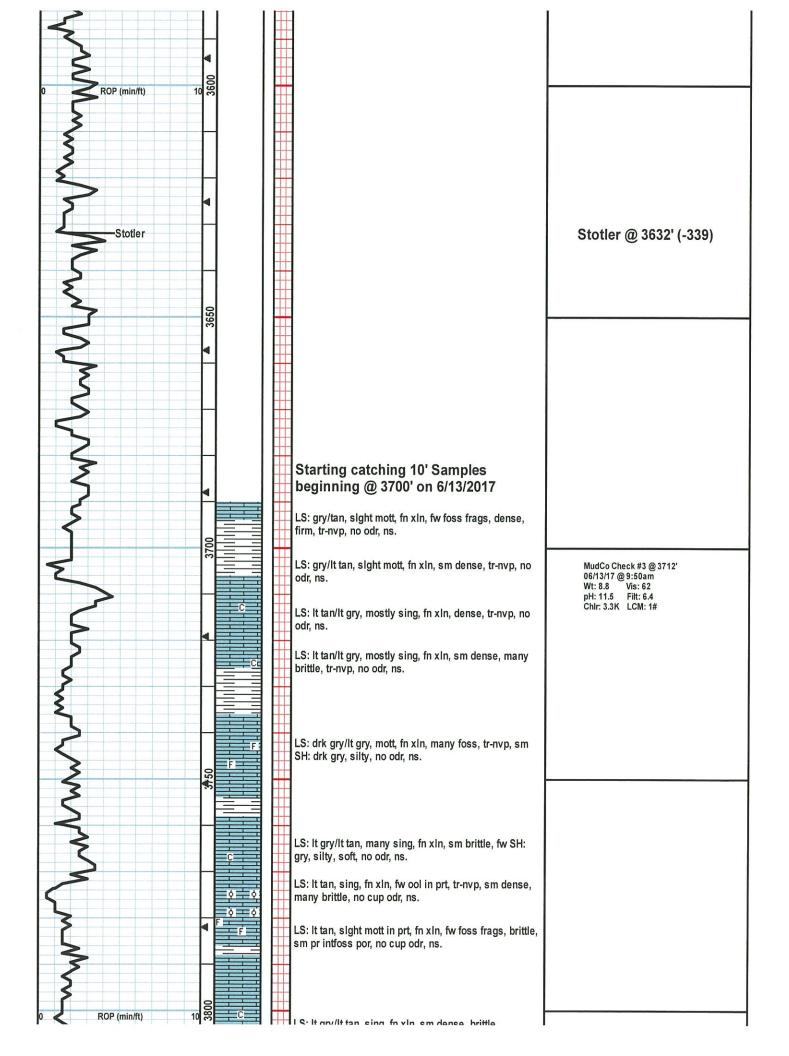




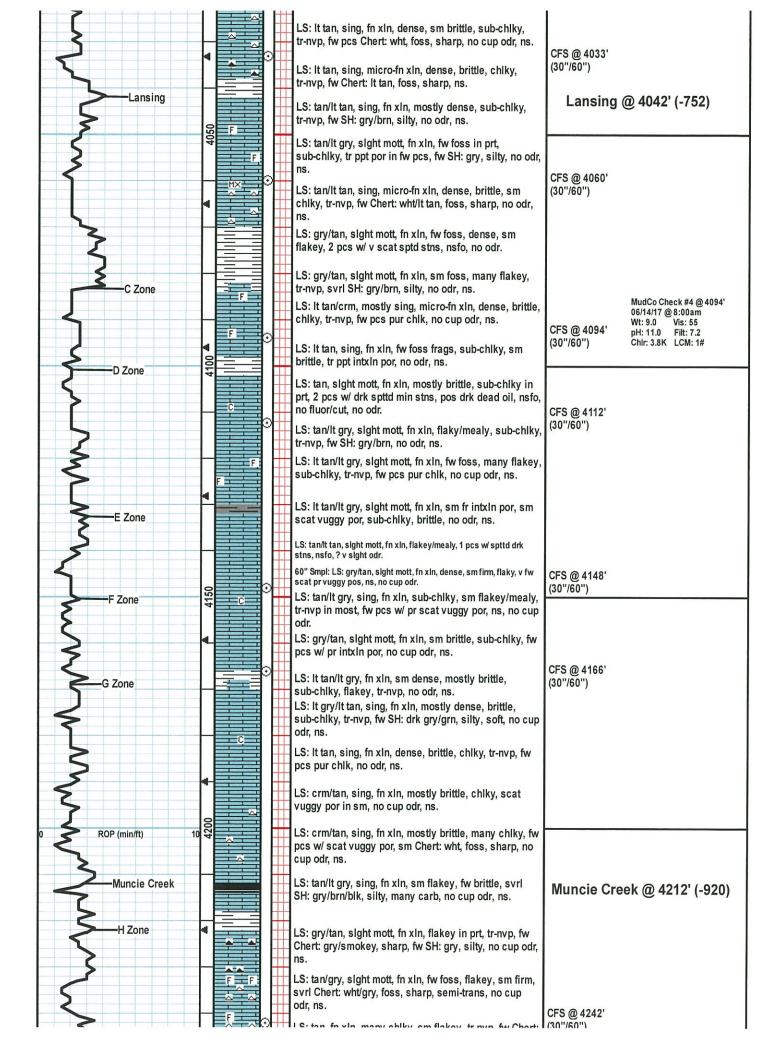


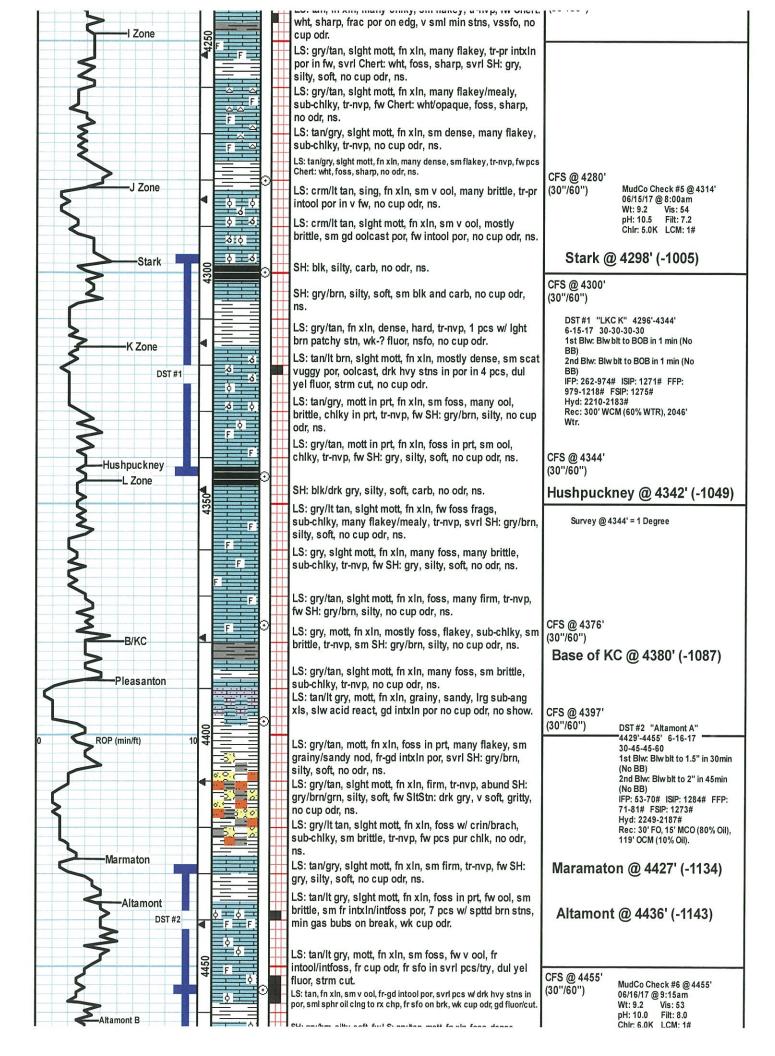


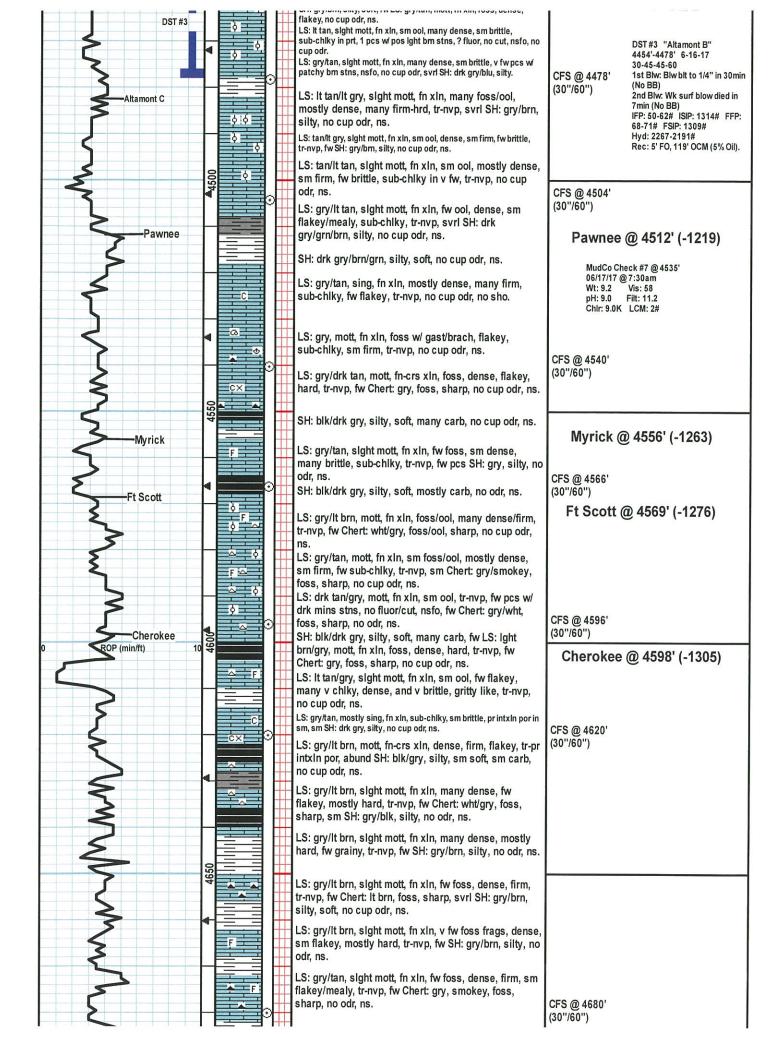


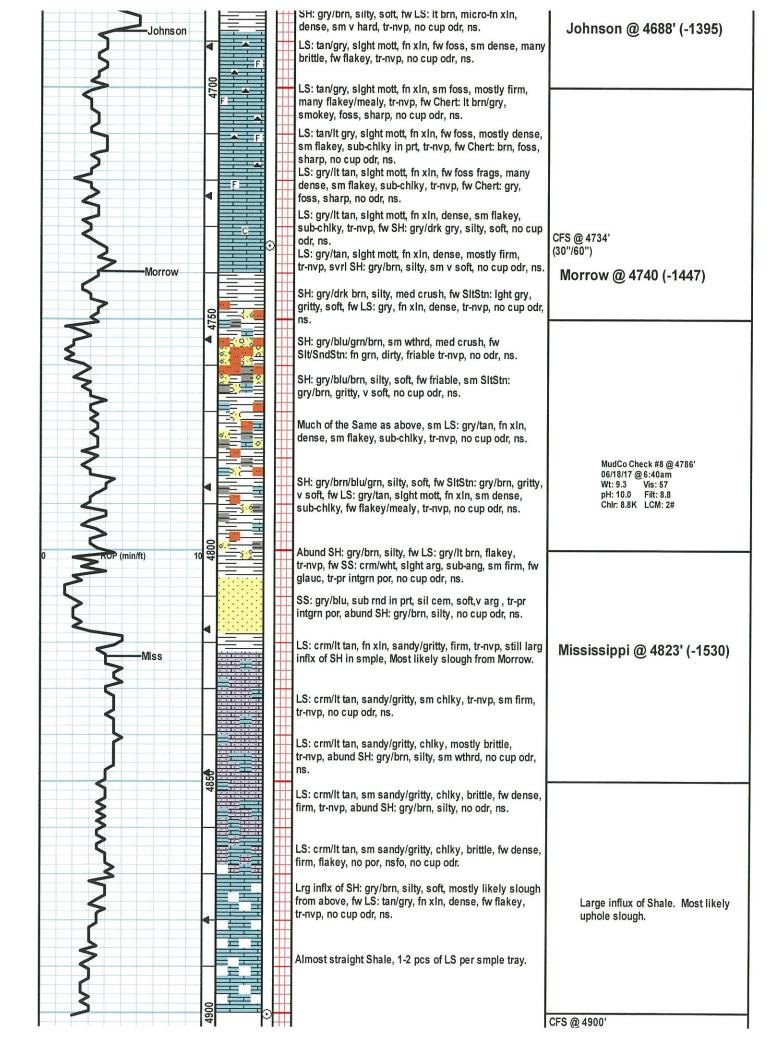


5		su	ub-chlky, tr-nvp, fw SH: gry, silty, no odr, ns.	
\$	▼	LS	S: It tan, fw It gry, sing, fn xIn, fw foss frags, brittle, nlky, tr-nvp, fw Chert: wht, foss, sharp, no odr, ns.	
}	F	LS w/	S: gry, mott, fn xln, fw flakey, fw foss, tr-nvp, fw pcs drk gils dead stns, no movmnt, no fluor, no odr.	
3	F		6: gry/lt tan, mott, fn xln, fw foss, brittle, sub-chlky, nvp, no odr, ns.	
7	*			
3	3850	LS	6: It tan, sing, fn xln, sm v ool, brittle, v chlky, tr-pr tool por in fw, abund pur chlk, no odr, ns.	
3			S: It tan, sing, fn xln, mostly dense, sm chlky, tr-nvp, pcs pur chlk, no odr, ns.	
3	→			
\$			S: It tan/It gry, sing, fn xln, sm dense, brittle, ub-chlky in fw, tr-nvp, no odr, ns.	
\$		LS	S: It gry/It tan, sm foss, many brittle, sub-chlky, nvp, fw SH: gry, silty, soft, no odr, ns.	
3	3900	LS	S: gry/tan, slght mott, fn xln, foss in prt, fw brittle, nvp, sm SH: gry/brn, silty, no odr, ns.	
3	F		S: It tan, mostly sing, fn xln, sub-chlky, brittle, tr-nvp, o cup odr, ns.	
3	F	LS bri	S: It tan/It gry, mostly sing, fn xIn, fw foss frags, ittle, sub-chlky, tr-pr ppt por, no odr, ns.	
2	F,	LS bri	s: gry/lt tan, mostly sing, fn xln, fw foss frags, sm ittle, tr-nvp, no odr, ns.	
5				
}	3950	LS sm	i: It tan/It gry, sing, fn xIn, mostly dense, sub-chlky, n brittle, tr-nvp, no odr, ns.	
3	A C	su	s: It tan, sing, fn xln, many dense, many brittle, b-chlky, fw pcs pr ppt intxln por, fw Chert: It tan,	Short Trip 35 Stands @ 3971'
\$	√	LS	ss, sharp, no odr, ns. i: gry/tan, fn xln, many dense, sm brittle, sub-chlky prt, tr-nvp, sm SH: gry/brn, silty, no odr, ns.	CFS @ 3971' (20"/45")
\$	C			
Heebner		su	i: tan/lt gry, sing, fn xln, mostly dense, sm brittle, b-chlky, tr-nvp, svrl SH: blk/drk gry, silty, soft, carb, cup odr, ns.	Heeber @ 3992' (-699)
0 ROP (min/ft) 10	000#	tr-r	i: tan/lt gry, sight mott, fn xin, fw foss frags, firm, nvp, 2-3 pcs w/ ight brn spttd stns, no fluor/cut, nsfo, cup odr, svrl SH: gry/brn.	
Toronto		LS tr-r	gry/tan, sight mott, fn xin, dense, sub-chiky in prt, nvp, svrl SH: gry/brn, silty, no odr, ns.	Toronto @ 4013' (-720)
	MX		: crm/lt tan, micro-fn xln, mostly dense, brittle, sm lky, tr-nvp, fw pcs pur chlk, no cup odr, ns.	









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Ritchie Exploration Inc.

8100 E 22nd St. N#700 P.O. Box 783188 Wichita KS 67278 ATTN: John Goldmith

26-15s-36w Logan Co KS

Wing-Dvorachek #1

Job Ticket: 63742

DST#: 1

Test Start: 2017.06.15 @ 07:11:23

GENERAL INFORMATION:

Time Tool Opened: 09:07:08

Time Test Ended: 13:20:23

Formation:

Κ

Deviated:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Mike Roberts

Unit No: 81

3293.00 ft (KB)

Reference Elevations:

3288.00 ft (CF)

KB to GR/CF:

5.00 ft

Interval: Total Depth: 4296.00 ft (KB) To 4344.00 ft (KB) (TVD)

Hole Diameter:

4344.00 ft (KB) (TVD) 7.88 inches Hole Condition: Fair

Serial #: 6749

Press@RunDepth:

Outside

1218.21 psig @

4339.00 ft (KB)

2017.06.15

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time: 2017.06,15 07:11:23 End Date: End Time:

13:20:23

Time On Btm:

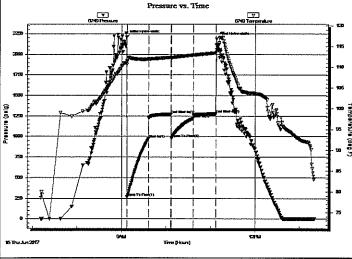
2017.06.15 2017.06.15 @ 09:06:53

Time Off Btm:

2017.06.15 @ 11:07:53

TEST COMMENT: IF: BOB in 1 min.

IS:No return blow FF:BOB in 1 min. FS:No return blow



				- + +
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2210.52	111.15	Initial Hydro-static
	1	262.82	110.61	Open To Flow (1)
	30	974.93	111.87	Shut-In(1)
-4	60	1271.80	112.34	End Shut-In(1)
e church	61	979.13	112.26	Open To Flow (2)
nwa	90	1218.21	112.87	Shut-In(2)
Temperatura (deg F)	121	1275.30	113.39	End Shut-In(2)
3	121	2183.57	114.24	Final Hydro-static
				-

PRESSURE SUMMARY

Recovery

Description	Volume (bbl)
w cm 40%w 60%m	3.26
sw 100% sw	28.70
	w cm 40%w 60%m

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

Trilobite Testing, Inc

Ref. No: 63742



TI(T NUMBER		51.	808	
LOC	ATION(1)a	K1.	ر حی	RS
FOR	EMAN /	1.1	Ŧ	D	10

PO Box 884, Chanute, KS 66720 620-431-9210 or 800-467-6676	FIELD TICKET & TRE	Α
620-431-9210 or 800-467-8676	CEME	٠ħ

PO Box 884, Chanu 620-431-9210 or 80	e, KS 6672 0-467-8676	o riE	LD TICKE	T & TREAT	TMENT REF	ORT INV	ic #810	452
	STOMER#	WELL	NAME & NUM		SECTION	TOWNSHIP	RANGE '	COUNTY
6-10-177	123	Wine-	Dyovac	helf #	26	153	360	Loggi
CUSTOMER P	tchie	100	an Line	HWY	TRUCK#	DRIVER	TRUCK#	DRIVER
MAILING ADDRESS		-E441	CICITION	常仁	9531	miles	(au)	
40. Box 783				Jakota	1460	Watt D	u ko 1	
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CASING DEPTH	} ↑	ORILL PIPE		_TUBING			OTHER	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
LURRY WEIGHT	7 1 1	BLURRY VOL_		WATER gal/s	k	CEMENT LEFT In		-20
ISPLACEMENT	• '	DISPLACEMENT		MIX PSI	+/	RATE 4-3	BPM	
REMARKS: 50 F	2+ y W	leoting	1 19 2	DOW.	WW#10	Cax.	Casias	<u> </u>
-bottom.	XI X	1.75 51	5 SurFa	sce Bla	rud Hij	DISPLACE	e 12/2	RB[*
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4000000				1001	4 Cver)			,
ACCOUNT CODE	QUANITY o	r UNITS	DE	SCRIPTION of	SERVICES or PR	ODUCT	UNIT PRICE	TOTAL
EE0471	1		PUMP CHARG	E	•		1.15000	1.1500
CE 0007	40		MILEAGE		:		73	1286
CE 07/01	8,2	3	TOA	Wloge.	o Dolivo	201/	1 25	46000
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