

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1088576

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 #	API No. 15			
Name:	Spot Description:			
Address 1:	SecTwpS. R 🗌 East 🗌 Wes			
Address 2:	Feet from North / South Line of Section			
City: State: Zip:+	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.xxxxxx) (e.gxxx.xxxxxxx)			
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84			
Purchaser:	County:			
Designate Type of Completion:	Lease Name: Well #:			
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:			
□ Oil □ WSW □ SHOW □ 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:	Producing Formation: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet			
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 ENHR Conv. to SWD Plug Back Conv. to GSW Conv. to Producer Commingled Permit #: Dual Completion Permit #: SWD Permit #:	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:			
☐ ENHR Permit #: ☐ GSW Permit #:	Operator Name:			
GSW Permit #:	Lease Name: License #:			
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	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 Approved by: Date:						

Page Two



Operator Name:				Lease N	Name: _			Well #:		
Sec Twp	S. R	East	West	County	:					
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres o surface test, along	sures, whethe with final cha	er shut-in pre art(s). Attach	essure reac n extra shee	hed stati t if more	c level, hydrosta space is neede	itic pressures, bot d.	tom hole temp	erature, fluid re	ecovery,
Final Radioactivity Lo files must be submitte						ogs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital electr	ronic log
Drill Stem Tests Taker (Attach Additional		Yes	☐ No				on (Top), Depth ar		Sampl	
Samples Sent to Geo	logical Survey	Yes	□No		Nam	е		Тор	Datum	1
Cores Taken Electric Log Run		☐ Yes ☐ Yes	☐ No ☐ No							
List All E. Logs Run:										
				RECORD	Ne					
	2	1				ermediate, product		T	I	
Purpose of String	Size Hole Drilled		Casing n O.D.)	Weig Lbs. /		Setting Depth	Type of Cement	# Sacks Used	Type and Pe Additive	
			ADDITIONAL	CEMENTIN	NG / SQL	JEEZE RECORD				
Purpose:	Depth Top Bottom	Type of	Cement	# Sacks	Used		Type and F	ercent Additives		
Perforate Protect Casing	100 20111111									
Plug Back TD Plug Off Zone										
1 lug 0 li 20 lio										
Did you perform a hydrau	ulic fracturing treatment	on this well?				Yes	No (If No, ski	ip questions 2 ar	nd 3)	
Does the volume of the t							= :	p question 3)		
Was the hydraulic fractur	ring treatment information	on submitted to	the chemical	disclosure re	gistry?	Yes	No (If No, fill	out Page Three	of the ACO-1)	
Shots Per Foot		ION RECORD Footage of Eac					cture, Shot, Cement			epth
	open,					,,				
TUBING RECORD:	Size:	Set At:		Packer A	t:	Liner Run:				
							Yes No			
Date of First, Resumed	Production, SWD or Ef	NHR. F	Producing Met	hod: Pumpin	a	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat			Gas-Oil Ratio	Gra	avity
	1									
	ON OF GAS:		en Hole	METHOD OF			mmingled	PRODUCTION	ON INTERVAL:	ļ
Vented Solo	Used on Lease bmit ACO-18.)		en noie _	Perf.	(Submit		mmingled mit ACO-4)			



#1 Scott 25C 1260' FSL & 1600' FWL 60' S & 50' W of W/2 E/2 SW Section 25-29S-24W Ford County, Kansas API# 15-057-20793-0000

Elevation: 2590' GL, 2601' KB

Sample Tops			Ref. Well
Anhydrite	N/A		
B/Anhydrite	N/A		
Stotler	3766'	-1165	-20
Topeka	3989'	-1388	-9
Heebner	4424'	-1823	+7
Lansing	4580'	-1979	+4
Muncie Shale	4790'	-2189	+1
Stark Shale	4938'	-2337	+7
Hush	4990'	-2389	-3
BKC	5034'	-2433	-1
Altamont	5102'	-2501	-3
Pawnee	5184'	-2583	+1
Lower Cherokee Sh	5224'	-2623	+15
Huck	5301'	-2700	+35
Mississippian	5371'	-2770	+42
RTD	6013'	-3412	

ALLIED CEMENTING CO., LLC. 037964 Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665

SERVICE POINT:

Medicine Lodge Ks

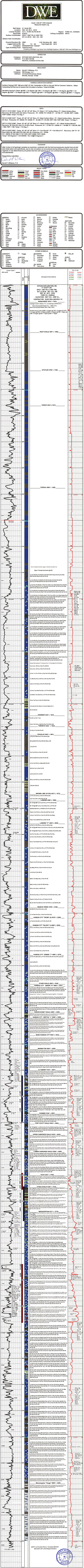
	SEC.	TWP.	RANGE 24W	CA	LLED OUT		ON LOCATION	JOB START	JOB FINISH
DATE 4-20-2012	25	TWP 295	1			1 .		COUNTY	STATE
SCOLD 250 LEASE	WELL#	(_L	LOCATION BL	<u> </u>	/CS ,	1/4	north	Fora	Es
-OFD-OKWEM/CIT	cle one)		West into	·			_,]	
CONTRACTOR	Disk	中10			OWNER	2:	tchie Ex	DIOCS E-10	n
	Surface	e '			OHINEN		<u>,, ;, </u>	, , . c , e O	
HOLE SIZE	274	T.D.	655		CEMEN	T		1500	<i>2</i> 0 <i>c</i>
CASING SIZE	848	DEF	TH 648		AMON	IT ORI	DERED 2253	5x65:55!	670001
TUBING SIZE		DEF			2900	<u> </u>	147 Flosecy	1300g Cl	ess 4 + 3%cc
DRILL PIPE TOOL		DEI DEI	TH TH						
PRES. MAX		MIN	UMUM		COMMO	ON CI	955 A 296	sy@ 16,25	4810.00
MEAS, LINE		SHO	DEJOINT 42'		POZMIX		79 sy	@ Siso	671.50
CEMENT LEFT IN	CSG.				GEL		103y	@ 21,25 @ 58,20	190 40
PERFS.	२० म	1000	2000/		CHLOR ASC	IDE _	120%	_@ <u>୦୪.<i>2</i>୦</u> @	678,40
DISPLACEMENT						Sesi	36 #	@ 2.70	151.20
	EQU	IPMENT				- ']_		@	
DIM AD MONIOUS	OFMENT	ER Der	<u> </u>						
_	CEMENT HELPER	₽877. 1777∃					•	_@	
BULK TRUCK	HELFER	1-0C1	<u> </u>				 -	_@ @	-
	DRIVER	Troy	-						
BULK TRUCK								@	
#	DRIVER				HANDI		404	@ <u>225</u>	909.00
					MILEA	GE	404/.11/65		2888.60
· · · · · · · · · · · · · · · · · · ·	A.	MARKS:						IATOT	10,447.45
			C CITCULATIO						
10mp 366	15 MBA	er ane	13, Muc 283	<u> </u>	-		SERV	ICE	
Shull Lave	the Care	<i>o 150</i> 54 o	- 19:4 Ceme	11 + 119624	DEDTH	OFIC	B 648'		
Slaw remail	ი პსი	m 5+ 3	o bh c hom	ກ	PUMP'	TRUCE	CHARGE		1125,00
Plog 9+ 32	3 335	400 -	900 ps. , f10	SL			AGE 348	<u>ু ৫.৭১</u>	
die hold ,	Comen	4.6	Circuste	 -				@ <u>7.00</u>	455,00
	•				MANIF	OLD_	Hegdrones hice 6	£@#***	260,00
					4.34	<u> 1 00</u>	hicie 6	<u>∞ ⊕.८८ </u>	200,00
au) ,,,,,	<u>, </u>	വിഹാക്ഷ്				-		-
CHARGE TO: 🚣	e ic ni	T	PIOL PILON					TOTAL	2376,60
STREET									
CITY	S'	TATE	ZIP				ni ito e eto:	T POINTE	NT
	. – -				C	5/8	PLUG & FLOA	M EQUIPME	131 -
							r Plus	<u> </u>	112.00
					1-12	F(0)	Insock	@ <i>-</i>	382.00
		13.0			J- 13	1. 	F	@	478.00
To Allied Cemer			manting aguirm	ent	4-0	entr	9/12013	@ 64,00	256,00
You are hereby and furnish cem-	enter and	helper(e)	menung equipin to assist owner o	оп ЭГ				@	
contractor to do							•		. 1000
done to satisfact								TOTA	1228.00
contractor. I have	ve read ar	nd underst	and the "GENEF	RAL		. (D) 37	/10 A		
			ed on the reverse		SALES	XAL	(If Any)	1 /	25
-	α	_			TOTA	LCHA	RGES/	4,046.0	72
PRINTED NAME	$, \gamma \stackrel{.}{>}_{\alpha}$	ott Edi	WARDS.		DISCO)UNT	I in the second	IF P/	ID IN 30 DAYS
I MINTED HAMI	B				21000	/			/
signature _/	< h.	At 90	עלממנה !			/	Net 11,	236.84	/
SIGNATORE T	P	ar A	STON TO				1464 11)	/	I^{-1}

ALLIED OIL & GAS SERVICES, LLC 053219 Federal Tax I.D.# 20-5975804

REMIT TO	P.O. BOX 31
	RUSSELL, KANSAS 67665

SERVICE POINT: Liberal KE.

	LLED OUT	ON LOCATION	JOB START	JOB FINISH
		18:30 A·m.	COUNTY	STATE
LEASE WELL# 23C. LOYATION 701 1378	om 155.		Ford	KS,
OLD OR(NEW) Circle one)			_	
CONTRACTOR DUKO # 10	OWNER R	tchio Exp		
TYPE OF JOB Rotary plug.	OWNER VI			
HOLE SIZE 77/8 T.D. 1590 ++	CEMENT	_		
CASING SIZE & 1/8 DEPTH		dered 2		
TUBING SIZE DEPTH	60/40	47. Ge/	14 Flo S	col
DRILL PIPE 4/12 /6.6 # DEPTH 1590 f+				
TOOL DEPTH PRES. MAX MINIMUM	COMMONAL	asiA 1265K	Call 95	9.047.50
MEAS, LINE SHOE JOINT		84 sk		
CEMENT LEFT IN CSG. 228 - 218-172-60	GEL	フ	@21.25	148.75
PERFS.				
DISPLACEMENT 19.4 - 6.8 - 1.8	ASC	<u>. 50</u>		
EQUIPMENT	Flo Seal	. 50		
PUMPTRUCK CEMENTER R. Chavez, Virgil N.				
#531/541 HELPER Tose Gonzales			_	
BULK TRUCK			@	
#457/251 DRIVER Angel Tapig.			@	
BULK TRUCK #472/467 DRIVER Daniel Pimentel.		<u> </u>		
#1 12/ 187 DATE CANEL ITM SAID!	HANDLING_	2.10	_@ <i>2_<u>95</u></i>	478.5
20141 2015	MILEAGE 2	KxM, y . 1051		_ 1155.00
REMARKS:			TOTA	L <u>4672.75</u>
Pump 10 80/Wester, MIX + pump 50st at 1590 feet, Dupl. 30811 Water, 1688	5	SERVI	ICE	
at 1540 rest, Diept. Stells Water, 10 1915		SERVI		
at 710 feel, displ- 7 00 Water, Mix +pump	DEPTH OF JO)B	1.5	590 feet
40 sk, displ. 1. 500 Water, Mix+pump	PUMP TRUCK	K CHARGE		1,2,50
To sk at botest did not see returniscen	EXTRA FOOT	FAGE	@	
yetted cellar found coment Mrx + puma 305	c MILEAGE(<u> </u>	11100	@ <u>7.00</u>	<u>700**</u>
yetted sellar found coment. Mix+pump 30% rat hale, coment to surface, Mix+pump 20% mouse holy coment to surface.	MANIFOLD.		_@	
mouse holy coment to surteces	Light Vehi	100	@ <u>4.00</u>	40000
DIV 6 1 1				-
CHARGETO: Tritchic Exploration.			TOTA	L 2350°
STREET			ALUI	L <u>2000</u>
CITYSTATEZIP				
V11		PLUG & FLOA	T EQUIPME	NT
			-tol8	
			@	
		* * * * * * * * * * * * * * * * * * * *	_@	
To: Allied Oil & Gas Services, LLC.	1/			
You are hereby requested to rent cementing equipment	/ /) 4	nn you	<u></u>	
and furnish cementer and helper(s) to assist owner or	•			
contractor to do work as is listed. The above work was			mom:	
done to satisfaction and supervision of owner agent or			101A	L
contractor. I have read and understand the "GENERAL	SALESTAY	(If Any)		
TERMS AND CONDITIONS" listed on the reverse side.				_
C	TOTAL CHAI	RGES_ <u>70</u> 2:	z. <u>75</u>	
PRINTED NAME STONY COWARDS	DISCOUNT .		IF PA	ID IN 30 DAYS
,				
SIGNATURE TRAFFIC GLIVING				
A A A A A A A A A A A A A A A A A A A				, ,,,,,,



Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Mark Sievers, Chairman Thomas E. Wright, Commissioner Sam Brownback, Governor

July 24, 2012

John Niernberger Ritchie Exploration, Inc. 8100 E 22ND ST N # 700 BOX 783188 WICHITA, KS 67278-3188

Re: ACO1 API 15-057-20793-00-00 Scott 25C 1 SW/4 Sec.25-29S-24W Ford County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, John Niernberger



Ritchie Exploration INC

Dave Williams

Po Box 783188 Wichita KS 67278 Scott 25c#1

Job Ticket: 47734

DST#: 1

ATTN:

Test Start: 2012.04.29 @ 16:49:15

GENERAL INFORMATION:

Formation: Altamont/ Pawnee

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Initial) ft (KB)

Time Tool Opened: 21:04:30 Time Test Ended: 02:13:00

Unit No:

Tester:

Chris Staats

5110.00 ft (KB) To 5200.00 ft (KB) (TVD)

Reference Elevations:

2601.00 ft (KB) 2590.00 ft (CF)

Total Depth: 5200.00 ft (KB) (TVD)

KB to GR/CF:

11.00 ft

Hole Diameter: 7.88 inches Hole Condition: Fair

Serial #: 6773 Outside

5111.00 ft (KB) 85.76 psig @

Capacity: Last Calib.: 8000.00 psig

Press@RunDepth: Start Date: Start Time:

Interval:

2012.04.29 16:49:20 End Date: 2012.04.30 02:13:00

Time On Btm:

2012.04.30 2012.04.29 @ 21:01:45

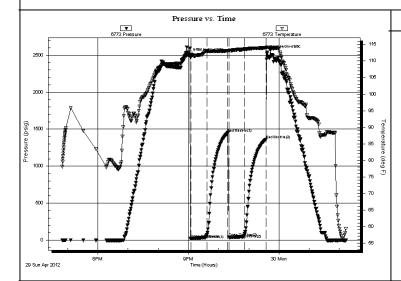
End Time:

Time Off Btm:

2012.04.29 @ 23:36:15

TEST COMMENT: IF: Weak blow 1 1/2"

ISI: No blow back FF: Weak surface blow FSI: No blow back



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2495.31	111.88	Initial Hydro-static
3	22.99	111.19	Open To Flow (1)
35	74.29	113.00	Shut-In(1)
76	1446.64	113.07	End Shut-In(1)
79	40.97	113.06	Open To Flow (2)
110	85.76	113.60	Shut-In(2)
153	1362.72	114.00	End Shut-In(2)
155	2534.81	114.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MUD with gas odor	0.84

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 47734 Printed: 2012.04.30 @ 09:18:41



FLUID SUMMARY

Ritchie Exploration INC

Dave Williams

Po Box 783188 Wichita KS 67278 Scott 25c#1

Job Ticket: 47734

Serial #:

DST#: 1

ATTN:

Test Start: 2012.04.29 @ 16:49:15

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 57.00 sec/qt Cushion Volume: bbl

Water Loss: 9.98 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 6400.00 ppm Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MUD with gas odor	0.842

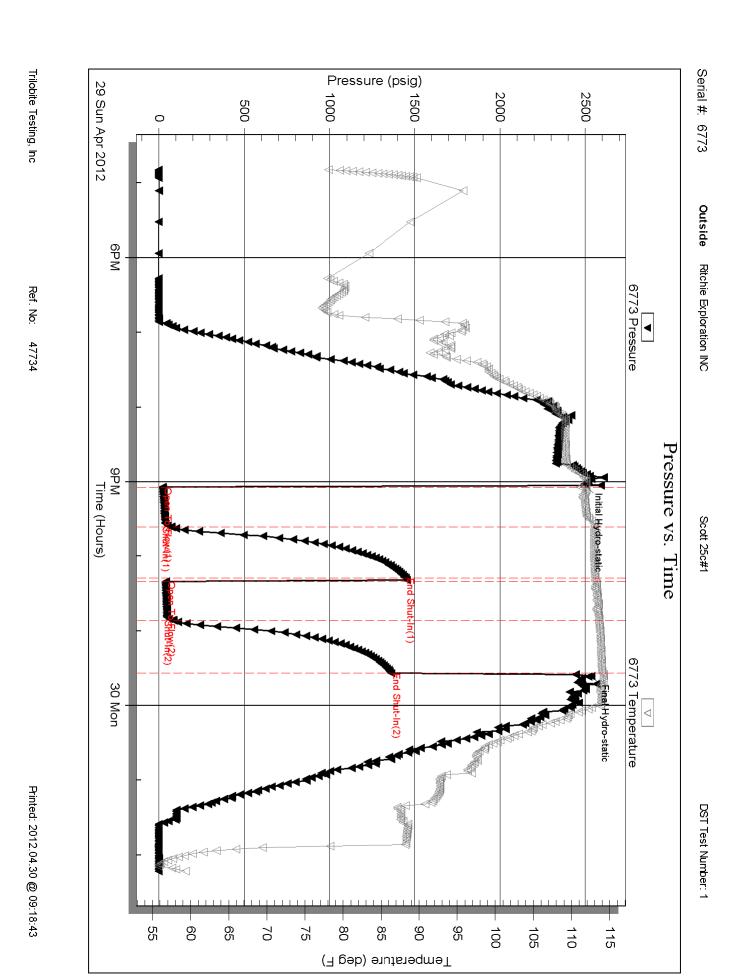
Total Length: 60.00 ft Total Volume: 0.842 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 47734 Printed: 2012.04.30 @ 09:18:42





Ritchie Exploration INC

Dave Williams

Po Box 783188

Scott 25c#1 Job Ticket: 47735

Wichita KS 67278

DST#: 2

ATTN:

Test Start: 2012.05.01 @ 01:19:24

GENERAL INFORMATION:

Formation: Huck

Time Tool Opened: 03:32:54

Time Test Ended: 08:27:54

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

Tester: Chris Staats

Unit No:

2601.00 ft (KB)

5296.00 ft (KB) To 5327.00 ft (KB) (TVD)

Reference Elevations:

2590.00 ft (CF)

Total Depth: 5327.00 ft (KB) (TVD)

11.00 ft

7.88 inches Hole Condition: Fair Hole Diameter:

KB to GR/CF:

Serial #: 6773 Press@RunDepth: Outside

30.38 psig @

5297.00 ft (KB)

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time:

Interval:

2012.05.01 01:19:29 End Date: End Time: 2012.05.01 08:27:53

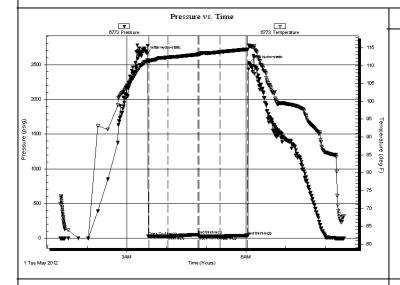
Time On Btm:

2012.05.01 2012.05.01 @ 03:29:54

2012.05.01 @ 06:04:39 Time Off Btm:

TEST COMMENT: IF: Weak surface blow

ISI: No blow back FF: Weak surface blow FSI: No blow back



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2662.00	111.11	Initial Hydro-static
3	26.66	111.28	Open To Flow (1)
33	28.90	112.32	Shut-In(1)
78	53.58	113.11	End Shut-In(1)
79	29.30	113.25	Open To Flow (2)
111	30.38	113.83	Shut-In(2)
153	39.73	114.58	End Shut-In(2)
155	2526.26	115.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	MUD	0.56
* Recovery from mult	iple tests	

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 47735 Printed: 2012.05.01 @ 10:43:01



FLUID SUMMARY

Ritchie Exploration INC

Dave Williams

Po Box 783188 Wichita KS 67278 Scott 25c#1

Job Ticket: 47735

Serial #:

DST#: 2

ATTN:

Test Start: 2012.05.01 @ 01:19:24

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft
Viscosity: 70.00 sec/qt Cushion Volume: bbl

14.98 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 9900.00 ppm Filter Cake: 0.02 inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
40.00	MUD	0.561

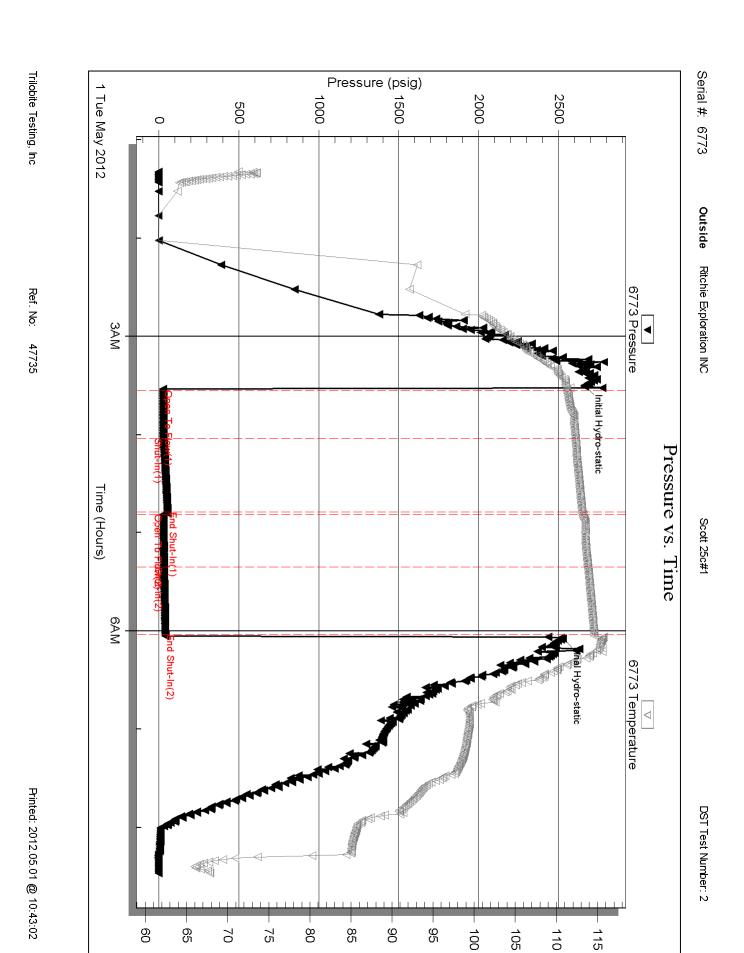
Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 47735 Printed: 2012.05.01 @ 10:43:02



Temperature (deg F)



Ritchie Exploration INC

Po Box 783188

Wichita KS 67278

Scott 25c#1

Job Ticket: 47736

DST#:3

ATTN: Dave Williams

Test Start: 2012.05.02 @ 00:33:17

GENERAL INFORMATION:

Formation: Morrow/Miss

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

Time Tool Opened: 03:24:17 Tester: Chris Staats

Time Test Ended: 08:05:32 Unit No: 47

Interval: 5323.00 ft (KB) To 5388.00 ft (KB) (TVD) Reference Elevations: 2601.00 ft (KB)

Total Depth: 5388.00 ft (KB) (TVD) 2590.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 6773 Outside

Press@RunDepth: 51.82 psig @ 5324.00 ft (KB) Capacity: 8000.00 psig

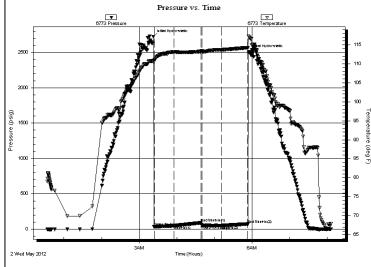
 Start Date:
 2012.05.02
 End Date:
 2012.05.02
 Last Calib.:
 2012.05.02

 Start Time:
 00:33:22
 End Time:
 08:05:31
 Time On Btm:
 2012.05.02 @ 03:22:32

 Time Off Btm:
 2012.05.02 @ 05:55:17

TEST COMMENT: IF: Weak blow 1"

ISI: No blow back FF: Weak blow 2" FSI: No blow back



	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2719.43	110.91	Initial Hydro-static
	2	34.90	110.78	Open To Flow (1)
	33	48.43	113.13	Shut-In(1)
ΤÞ	76	90.67	113.22	End Shut-In(1)
emme	78	46.35	113.23	Open To Flow (2)
ratura	109	51.82	113.66	Shut-In(2)
den	151	74.11	114.21	End Shut-In(2)
פ	153	2505.38	116.97	Final Hydro-static

Cac Datas

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)		
90.00	90.00 Mud cut Gassy Oil 1% oil 5% gas 94%			
* Recovery from multiple tests				

Ous rates				
	Choka (inahaa)	Drocoure (poig)	Coo Roto (Mof/d)	

Trilobite Testing, Inc Ref. No: 47736 Printed: 2012.05.02 @ 09:41:05



FLUID SUMMARY

Ritchie Exploration INC

Po Box 783188 Wichita KS 67278 **Scott 25c#1**Job Ticket: 47736

Serial #:

ob Ticket: 47736 **DST#:3**

ATTN: Dave Williams

Test Start: 2012.05.02 @ 00:33:17

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft
Viscosity: 90.00 sec/qt Cushion Volume: bbl

Water Loss: 17.99 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 13200.00 ppm Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Mud cut Gassy Oil 1% oil 5% gas 94% mud	1.262

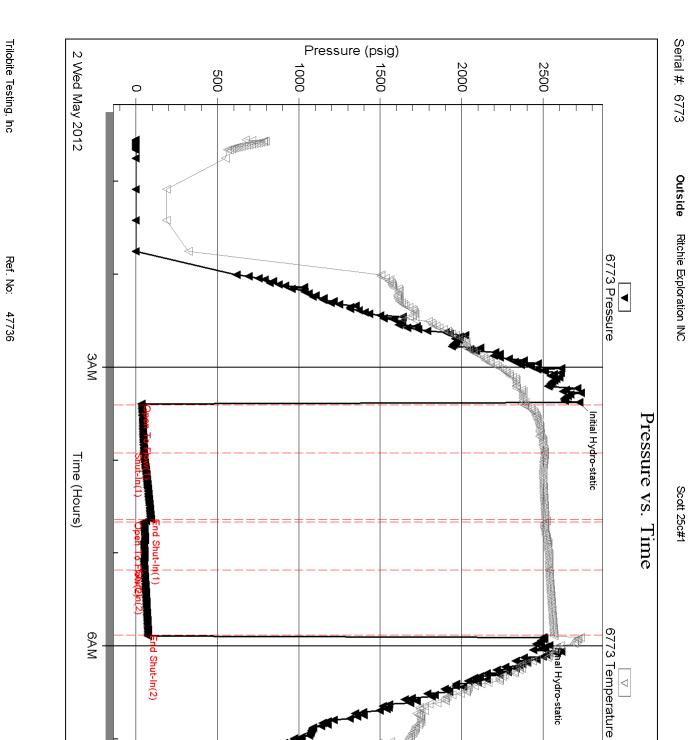
Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 47736 Printed: 2012.05.02 @ 09:41:06



DST Test Number: 3

Temperature (deg F)



Ritchie Exploration INC

Dave Williams

Po Box 783188 Wichita KS 67278 Scott 25c#1

Job Ticket: 47737

DST#: 4

ATTN: 25-29s-24w Ford

Test Start: 2012.05.03 @ 10:33:49

GENERAL INFORMATION:

Formation: Miss

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

Time Tool Opened: 17:49:04 Time Test Ended: 23:12:04

Unit No: 47

Interval: 5470.00 ft (KB) To 5581.00 ft (KB) (TVD)

Reference Elevations:

2601.00 ft (KB)

Total Depth: 5581.00 ft (KB) (TVD)

2590.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF:

11.00 ft

Serial #: 6773 Press@RunDepth:

Outside

197.57 psig @

5471.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2012.05.03

End Date:

2012.05.03 23:12:04 Last Calib.: 2012.05.03 @ 17:47:04 Time On Btm:

2012.05.03

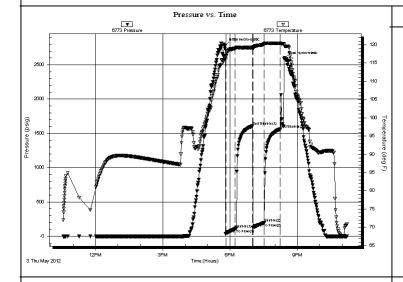
Start Time: 10:33:54 End Time:

Time Off Btm:

2012.05.03 @ 20:24:04

TEST COMMENT: IF: Fair blow 6 1/2"

ISI: No blow back FF: Fair blow 7 1/2" FSI: No blow back



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2783.44	116.60	Initial Hydro-static
2	38.95	116.77	Open To Flow (1)
27	109.59	118.91	Shut-In(1)
73	1608.55	119.28	End Shut-In(1)
75	127.77	119.09	Open To Flow (2)
104	197.57	120.16	Shut-In(2)
147	1562.19	120.38	End Shut-In(2)
157	2587.18	120.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)	
70.00	MUD 100%	0.98	
360.00	W,M 25%mud 75% w ater	5.05	
* Recovery from multiple tests			

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 47737 Printed: 2012.05.04 @ 08:12:59



FLUID SUMMARY

Ritchie Exploration INC

Dave Williams

Po Box 783188 Wichita KS 67278 Scott 25c#1

Job Ticket: 47737

DST#: 4

ATTN: 25-29s-24w Ford

Test Start: 2012.05.03 @ 10:33:49

Mud and Cushion Information

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

Viscosity: 66.00 sec/qt Cushion Volume: bbl

14.99 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 11.50 ppm Filter Cake: 0.02 inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
70.00	MUD 100%	0.982
360.00	W,M 25%mud 75% w ater	5.050

Total Length: 430.00 ft Total Volume: 6.032 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 47737 Printed: 2012.05.04 @ 08:12:59

