

Confidentiality Requested:

Yes No

#### Kansas Corporation Commission Oil & Gas Conservation Division

1237928

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 🗌 West
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.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:		Datum: NAD27 NAD83 WGS84
Purchaser:		County:
Designate Type of Completion:		Lease Name: Well #:
☐ New Well ☐ Re-Entry	Workover	Field Name:
□ Oil □ WSW □ SWD	SIOW	Producing Formation:
☐ Gas ☐ D&A ☐ ENHR	SIGW	Elevation: Ground: Kelly Bushing:
☐ OG ☐ GSW	Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)		Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):		Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:		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 Tota	I Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to ENH	R Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Conv. to GSW	Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:		Chloride content: ppm Fluid volume: bbls
_		Dewatering method used:
SWD Permit #:		Location of fluid disposal if hauled offsite:
☐ ENHR Permit #:		Operator Name:
GSW Permit #:		Operator Name: License #:
	Completion Date or	QuarterSecTwpS. R EastWest
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						
Geologist Report Received						
UIC Distribution						
ALT I II III Approved by: Date:						

# 1237928

Operator Name:			_ Lease Name: _			Well #:	
Sec Twp	S. R	East West	County:				
open and closed, flow and flow rates if gas to Final Radioactivity Log	ing and shut-in pressur o surface test, along wi g, Final Logs run to obt	ormations penetrated. D res, whether shut-in pre- ith final chart(s). Attach tain Geophysical Data a r newer AND an image f	ssure reached station extra sheet if more and Final Electric Lo	c level, hydrosta space is neede	tic pressures, bot d.	tom hole tempe	rature, fluid recovery,
Drill Stem Tests Taken (Attach Additional S		Yes No		og Formatio	on (Top), Depth ar	nd Datum	Sample
Samples Sent to Geol	,	☐ Yes ☐ No	Name	е		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING I	RECORD Ne	w Used			
		Report all strings set-c			ion, 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
	l l	ADDITIONAL	CEMENTING / SQU	FFZF BECORD			
Purpose:	Depth	Type of Cement	# Sacks Used			Percent Additives	
Perforate Protect Casing Plug Back TD Plug Off Zone	Top Bottom	3,000			7,		
Did you perform a hydrau Does the volume of the to	-	n this well? aulic fracturing treatment ex submitted to the chemical d	-		No (If No, sk	ip questions 2 and ip question 3) out Page Three o	
Shots Per Foot		N RECORD - Bridge Plugs			cture, Shot, Cement		
	Specily Po	ootage of Each Interval Perfo	orated	(Al	mount and Kind of Ma	iteriai Used)	Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or ENH	R. Producing Meth		Gas Lift 🔲 0	Other (Explain)		
Estimated Production Per 24 Hours	Oil Bi	bls. Gas I	Mcf Wate	er B	bls. (	Gas-Oil Ratio	Gravity
Vented Sold	ON OF GAS:  Used on Lease	Open Hole	ETHOD OF COMPLE Perf. Dually (Submit A	Comp. Cor	mmingled mit ACO-4)	PRODUCTIO	N INTERVAL:

Form	ACO1 - Well Completion
Operator	Raymond Oil Company, Inc.
Well Name	L & J Hartman 1
Doc ID	1237928

#### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
8.625	12.25	8.625	24	268	Class A	3% cc, 2% gel



TICKET NUMBER

LOCATION\_\_\_\_

FIELD TICKET & TREATMENT REPORT

	720 FIELD HUKEI & IKE	ATMENT REP	OIC!		
620-431-9210 or 800-467-867		NT			KS
DATE CUSTOMER#	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-15-14 7158	1-J Hartman II	14	115	294	Gare
MAILING ADDRESS CITY	STATE ZIP CODE GRANGE	200	Cory D Lance R	TRUCK#	DRIVER
100 sks @ 32 10 sks @ 32 10 sks @ 32 10 sks @ 4	DRILL PIPE 4/2 TUBING SLURRY VOL /, 42 WATER gas DISPLACEMENT PSI MIX PSI STOCK UP ON H2 right Scalars E	TH 46.40	CASING SIZE & V	OTHER	5,5ks COV4

ACCOUNT	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405 Nx	1	PUMP CHARGE	139500	139500
5406	20	MILEAGE	523	10500
5407 1	10.97	ton milay delivery (min)	43000	43000
			- 90	111 30
1131	255 SKS	60/40 pozm.x	1585	404430
11186	877 H	gel	27	236 <u>79</u> 190 <u>08</u>
1107	64 #	465ec/		71
4432	1	8 / wonder play	10025	1000
1111	100 H	Salt /	NC	NC
			0,6651	650193
		les	5/0% d.SC	450-19
			Substa /	385123
				-
			SALES TAX	325.00
avin 3737			ESTIMATED	6176.80
(	· O II	7.10 0150	TOTAL	
AUTHORIZTION_	Steven raig	TITLE TOOLPUSHER	DATE 1/-/	5-14

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

# ALLIED OIL & GAS SERVICES, LLC 064223 Federal Tax 1.D. # 20-8651475

REMIT TO P.O. BOUTH	ILAKE, T	EXAS 760		. N.D. # 20-000 1470	SER'	VICE POINT:	Ley
DATE /1-5-14/	SEC.14	TWP//	RANGE 29	CALLED OUT	ON LOCATION 4'cop,~	JOB START	JOB FINISH
LEASE Hartman	WELL#	1	1	nField 1/25		COUNTY	STATE
OLD OR NEW (di	rcle one)		1/25 6 +119				- Australia
CONTRACTOR	H2	*2		OWNER 5	cones		
TYPE OF JOB	Sugar		20.00	OFMENT			
HOLE SIZE CASING SIZE	12/4 85/1		2C8'	_ CEMENT	venen (2	- del	2 3% ic.
TUBING SIZE	378	DEF	Total Control of the	290,9=4	JEKEU	SES CI	3/3 3/612
DRILL PIPE		DEF		5.10.15			
TOOL	(5)	DEF		Manager and a second se			
PRES. MAX			IMUM	COMMON_/	25 5/55	@ 17,90	3/32,50
MEAS. LINE	,		DE JOINT	POZMIX		@	
CEMENT LEFT IN	icso >		E JOHN I	GEL	3094		164,50
PERFS.	C30. /	2		CHLORIDE	493#		542130
DISPLACEMENT		6.11	BBL	ASC	770	@ 1/10	37430
DISTERCEMENT				ASC			
	EQU	HPMENT		Material	O. Tolco	@	3,839.3
				1 /	V. CHUE	6	
PUMPTRUCK	CEMENT	ER An	diecol Fors	Tued 1761.7	12000138		
# 422	HELPER	31	condon Wilk	10,500	10/00	@	
BULK TRUCK							-
-	DRIVER	1.10	yne Mrssa	//e			-
BULK TRUCK				The second secon			
	DRIVER				189,23 04/	_ @	469,29
	2711			- HANDLING	37,20 04/	2 6 2 70	593,31
				MILEAGE &	13 Touther	e by Gis 12	59313/
	RE	MARKS:				TOTA	L
					SERV	ICE	
	- Dic	1.000	04670	DEBUT OF IC	B 26	o i	
Calmany	200	0 011	040075	DEPTH OF JC			5/2,25
					CHARGE		3/2,-0
				EXTRA FOOT			19250
				MILEAGE	25 miles	@ <i></i>	2252
		/		MANIFOLD Light V	1:10		110.00
		The	18 404	CIGHT V	MICOL	@	_ /
	_						
CHARGE TO:	CUMO	no 01	4	- 100	5.47/20	9.1	21500
	-/	20 10 10		(63	J.78 11020	TOTA	L 3,1528
STREET			*	and the same of th			
CITY	S	TATE	ZIP		DI 110 9 ELO	AT EQUIDMI	ZNT
C117					PLUG & FLO.	AI EQUIFINI	DIV I
						@	-
						@	-
						@	
To: Allied Oil &	Gas Ser	vices, LLC				@	
You are hereby	requested	to rent ce	menting equipmen	16			
and furnish cem	enter and	helper(s)	to assist owner or	The state of the s			
			The above work wa			TOT	AL
done to satisfac	tion and s	upervision	of owner agent of	r			
contractor. I ha	ve read as	nd underst	and the "GENERA	AL CHECTLY	(If Any)		
TERMS AND C	CONDITI	ONS" list	ed on the reverse si	ide. SALES IAA	0 00	1115	
				TOTAL CHA	RGES _	11.60	
	5-	, m . 1	CORTO	DIAGOTILM	398.33	130 / SOS	PAID IN 30 DAY
PRINTED NAM	E _ 160	02/0	-1-17- U.	DISCOUNT	The same of the sa	377	PAID IN 30 DAY
8	1		7 .		3,593	2.09 W	~ 1 ·
	1/	/ '					

SIGNATURE Laur Crang

## Max R. Lovely

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Raymond Oil Co.  LEASE L&J Hartman #1  FIELD WILDCAT  LOCATION SE NE SE NW  SEC 14 TWSP 11 RGE 29W  COUNTY GOVE STATE KS	ELEVATIONS  KB 2835  DF GL 2825  Measurements Are All From KB
CONTRACTOR H2 #2 SPUD 11-5-14 COMP 11-14-14	CASING SURFACE 8/8"@ 265' PRODUCTION
RTD 4640 LTD 4640 MUD UP 3373 TYPE MUD Chem	ELECTRICAL SURVEYS DUAL IND MICRO COMP N/D

#### FORMATION TOPS AND STRUCTURAL POSITION

FORMATION		ELECTRIC	SUB-SEA	STRUCTURAL POSITION		
FORMATION		LOG TOP	DATUM	A	В	С
Anhydrite	2383	2379	456	451	458	
Base Anhydrite	2416	2410	425	410	426	
Stotler	3560	3554	-719	-734	-722	
Heebner	3934	3906	-1071	-1087	-1074	
Lansing	3966	3928	-1093	-1120	-1113	
Muncie	4104	4074	-1239	-1257	-1244	
Stark	4194	4153	-1318	-1340	-1322	
Marmaton	4272	4236	-1401	-1426	-1406	
Pawnee	4393	4360	-1525	-1552	-1532	
Ft. Scott	4435	4400	-1565	-1596	-1575	
Cherokee SH	4461	4426	-1591	-1623	-1600	
Morrow SH		4457	-1622	-1657	-1635	
Wea Mississippi	4504	4504	-1669		-1664	
Mississippi	4528	4530	-1695	-1690		

#### REFERENCE WELLS FOR STRUCTURE

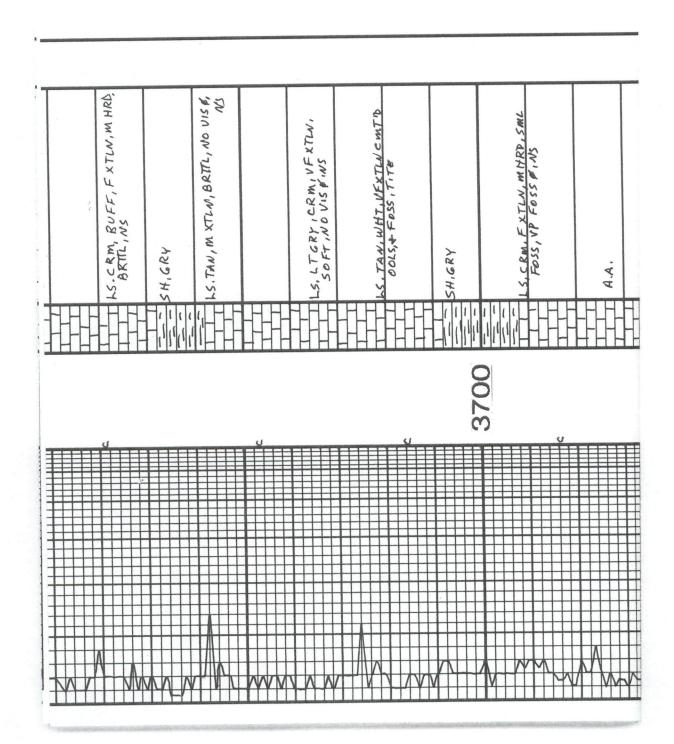
- A Cinco Expl Gillespie #1-A NE SW 14-11-29W
  B Imperial Oil Houser #1 NW NW NE 14-11-29W

LS, BUFE, FXTLN, HRD, ABUN FOSS, FEW DOL, W CMT'D GOLS PG, NS LS, TAN, F X TLN, FEW PCS MXTLN, FOSS, MHRD, NS	LS,LTGRY,FXTLN,S-MHRB, NO APPGINS SH,GRY SH,GRY LS,TAN, FXTLN,HRB,ALGALINS	AA, INCR FOSS LS.TAN, GRY, VF KTIN, DNS, BRTIL, NS
LS, B UF P F055, F PØ, NS F055, W		AA, INCR FOSS
3500	STOTLER 3560 -725	3600

T

1

T



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7,001,000,000	CATCH UP DRILL TIME +SAMPLES	GEO OFF LOCK					
LS,CRM, F-MXTLN, HR), ABUN FOSS- ALGAL, G FOSS ØINS	======================================	LS, CRW/TAN, FAM KTLN, BRTL, SAM HRD, V FOSS, F FOSS P, NS	LS, CRM, A.A.	LS. WHT, FXTW, HRP, V SL DNS, FEW FOSS, NO VIS Ø1 NS	LS, GRY, F & M XTLN, RS DNS, HRD, TITE, NS	1 1 1 2 1 4 1 4 1 1 1 1 1 1 1 1 1 1 1 1	A A CHT, WHY, PENCH, FRESH
U			· ·	3800	v	Ų	

1							1
			A'	<i>Ž</i>		BLK TARRY DD OIL	
	TAN, FXTLN, SL TLNØ, NS Y, VF XTLN, DNS 10 VIS Ø, NC		1, VF + F XTW, HR 5 Ø: NS			T, FXTLNCMT, V LG, GTARRY-R VSFO, NO ODOR	
<b>₹</b>	DOLO, WHT- SUCR, G X TAW. GR	1 1-4 1-4 1-4 1-4	LS.WHT,CR.	CHILDREN CO.	# # #	SHOS N #1, SOF	1
	00			LHH	1111	6-1131	
		<b>1</b>			M		
		3900	0068		3900 HEEBWER 1099	3900 HEEBAVER HTT	HEEBALER  SAGE - 1131  SAGE - 1131

57RADDLE DST#1 3999-4072 30.60.45.90 15!.NR FF: 2/4" FSI:NR FF: 2/4" FSI:NR REC: 64" M 126" WCM-45;W 34.000 CHLOR TOOL: 8;W,92;M	FP: 9-52,54-105 SIP: 1224-1208 HP: 1940-1930 BELOW STRADDLE: 1904		1		
6,000R 62,500 40305mpl	FODER		2000	0 0 0 0 R	LToboR
AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	V CHTY PAG, FRESH, ET FLUOR STUD	LS, V LT GRY, VF XTW, DWS,	LS.WHT, FXTLN, HRD + SOFT, BRTL, GOOL Ø, GS FO ON BRK, HVY STNG.	LS, WHT, FXTLM, SL DNS, FTG BLK DD TARRY OIL FILL EDGE STNG	9 LS. WHT, BRN, FINE GRNLR TXI.
4000	ď	v			MUNCIE HIDH -1269

	CHLOR: 1,500 LCM: 1 FILT: 8'8 STRAP 4/51.43 BOARD 4/53.04	7:4M 11-10-14  COME OUT W/ DST#1  MUD CHECK  VIS: 60 WT: 9.2  CHIOR: 1,800 LCM: 1.5  FILT: 7.2	1-11- #2 © Ct	VIS.55 WT: 4:3 CHLOR: 2,200 LCM: 1 FILT: 8:8 DST#2 4134-4200 80.60.45.90 1F: WK SURF BLO
S SHOWS U PHOLE NO & DOR		4 pes 3 0 0 0 R	5000R	NO ODOR
NSFO  NSFO  S, WHT, VF+F XTLM, M HRD, P-F  XTLM Ø 1 & S HO ROCKS-8PES	LS, WHT, FXTLM, DWS, HRP, TITE	SH, BLK, GRN, GRY  SORT, MICRO BRN OIL SPTS ON BRN, TO DOR, GXTLN FLUOR BRN, FXTLN HRR  VP SCT XTLN BLNS	LS.WHT, BRN, FXTLW, M HRP, VBRTL, SCT DULL FLUOR STWG  LS.AK., SL SHO OLL NCUP.COPORONGODOR  BRK, LT FLUOR FO ON BRKY  BRK, C STWG, LT FO, PG  SH, BLK  LS.WHT, LT MED GRY, FXTLM,  HRD, DNS, NO VIS Ø, NS	SS, WHT GRNS, V FINE, FRIABLE, G SHO DD OIL SAT, VG Ø, V FEW FLUOR MICRO OIL SPTS, NO VIS FO, V WET SLTSTN, GRY SHERV, GRN, BURG LSGRY, BRN, TAN, V FXTLN, DNS.
J		₹ K!YUNIL	2748 1/94 1/94 1/359 4200	HUSHPUCKNEY HZZO -1385

Tool: 1000.111 FP: 11-12, 12-13 SIP: 26-21 HP: 2014-1997	COULD BE FRAC'D BY BIT		DST#3 4334-4403 30.60.45.90 IF: WSB, dead 20 mw FF: DEAD REC: 15'05M-2'.011 TOOL: 15'05M-2'.011	FP: 10-15, 12-15 51P: 69-44 HP: 2133-2120
SH,GRY,GRN  SH,RED  LS,WHT WREDSH, FXTW,SHLY, HRD.MS  LS,WHT + REDISH BRN M XTW,HRD  SCT REXTUD FRACS, P FRACG  NO. 1137 E XTW, HRD. V & CRWR	LS, TAW, WHT, F XTLM, BRITL, PES HRD -M HRD, NO APP G, NS HRD -M HRD, NO APP G, NS A CHT, PEACH, ORANGE, TAN, SHARP, A CHT, PEACH, ORANGE, TAN, SHARP, A CHT, PEACH, ONS, HRD,	SHIGRY  SHIGRY, DKGRY  LSIGRY, TAN, VF XTLN, V HR), DNS.  FOSS, TITE, NS	LS. WHT, VF XTLN, HRD, V SL BRTL, TITE, NS  LS. TAN, VEXTLN, HRD, DNS, TITE, NK  LS. GRY, VF XTLN, HRD, DNS, CLEAN, TITE, NS	LS. LT GRY, WHT, DKGRY, F-M KTLN (HRS), P. W. NS
8 KC 4247 -1412 MARMATON	4300	<u>, , , , , , , , , , , , , , , , , , , </u>	J	-
				A71 A

	7	MUP VIS:SS CHLOR: FILT: 7.	7:4m 11-13-14 CFS@ 4434	DST#4 44%-4515 30.60.45.90 IF: 34" FF: dead REC: 5"M TFOL: 100;M Wfowork SPKS FP: 10-13, 13-15 SIP: 1032-990 HP: 2.181-2.171
GODOR FO-CUP RAINBOW	HVY GDOR LTBRW	LT 0 DOR		
LS. TAN, F +M XTLN, M HRD + HRP,  LS. TAN, F +M XTLN, M HRD + HRP,  TREAS ON BRK, FO. G ANTY SHO  RKS, G XTLN Ø  LS. C RM, F XTLN, HRP, NO APPLIS	SHIGRY SHIGRY LS, WHT, F XTLM, VG VVGGY+ FRACE, G GASSING	LS,WHT, VF XTLW, V SL VUGGYP, FLUOR STW STRKS, FILMYOLL ON BRK, WO VIS ENERGY, LT ODOR	LS,CRM, VEXTLA, V DNS +V HRD, FOSS,V TITE, NS LS, W HT, CRW, F XTLA, FEW SET CHLK, HRD, VSL FOSS, NO APPOP SH, G RY, BRN SH, G RY  LS, WHT, CRM, F XTLM, SCT LG XTLS W/M, HRD, VP XTLN 9',	H.A.  SH, BRN, GRY, GRN  LS, WHT, CRM, FXTLM, HRD,  SCT CHLKY PCS, VP PPPINS  CHT, OPAG, PEACH, FRESH
	PAWNEE 4393 - 1558	4400	C F7 Scott 4435 -1600	CHEROKEE HYGI - 1626

MUD CHECK WT: 9.4 VIS:ST CHLOR: 2000 LCM!Z CHLOR: 7.3 T:AM 1]-14-14 COND HOLE AFTER UST		MUP CHECK VIS: 50 WT: 9.5 CHLOR: 2, 400 LCM: 1 FILT: 8.0 SH FLOOD		
CHT, WHT, AQUA/WHT, FRESH,  A CHT, WHT, MILKY, FRESH, NS  CHT, WHT, MILKY, FRESH, NS  CHT, WHT, WEA, MOSTLY HRD, SCT  CHT, WHT, WHT, WEA, WHT, WHT, WHT, WHT, WHT, WHT, WHT, WHT	SH, VARICOLOR  1, S.CRM, FXTLW, BRTTL, FAIR OF STATE OF S	VSHLY+CHTY  VSHLY+CHTY  A	LS, WHT, TAN, GRY, BLK, FXTLW,	HRD, NO VIS 9 :NS HRD, NO VIS 9 :NS  HRD, NO VIS 9 :NS
4500 WYEA MISSS H504 -1669	W528 - 1693			4600
			- <b>WWW.</b>	

	K Poor SAMPLES	REMARKS	EE
		OIL SHOWS	- STATE
SOFT, C. B. MS	LS. CRM, TAN, FXTLN, SET WHF OTARCHT, NS	SAMPLE DESCRIPTIONS	LOCATIONTWP
		LITHOLOGY	
U		ОЕРТН	IP RTD
		DRILLING TIME Minutes/Foot  Rate of Penetration Decreases	CONTRACTOR



#### **DIAMOND TESTING** P.O. Box 157

## HOISINGTON, KANSAS 67544

(800) 542-7313

TIME ON: 2135 11-9

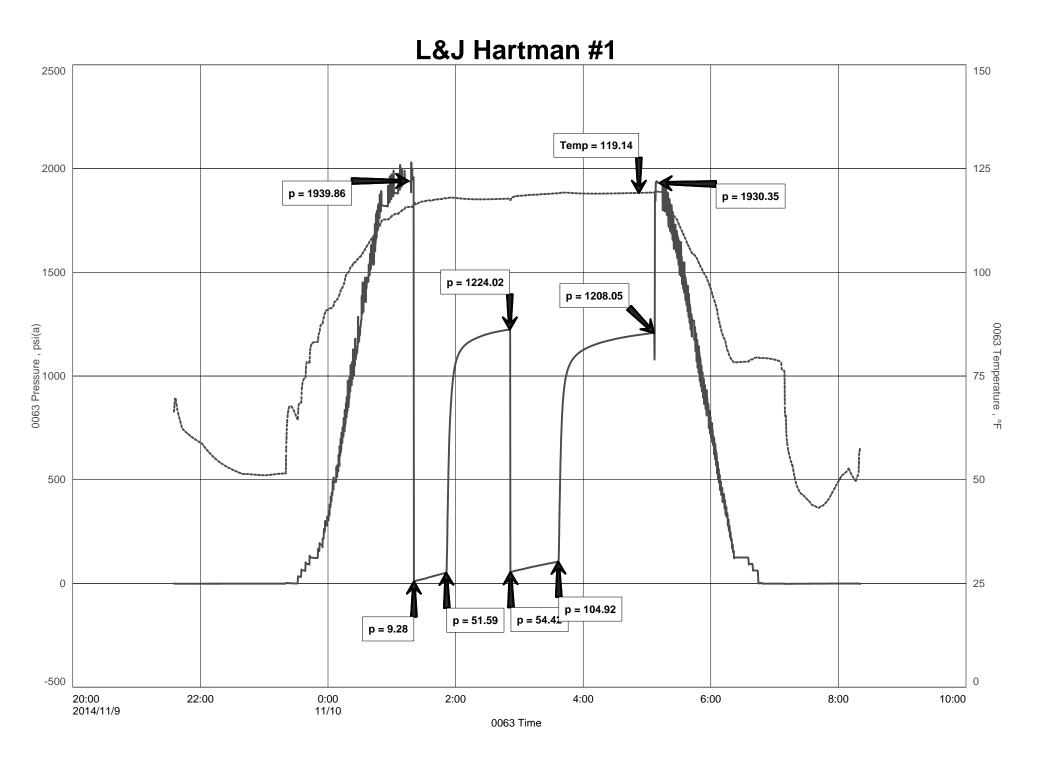
TIME OFF: 0820 11-10

#### **DRILL-STEM TEST TICKET**

FILE: LJHartman1Dst#1

Company_Raymond Oil Company	Lease & Well No. L&J Hartman #1
Contractor H2 Drilling LLC	Charge to Raymond Oil Company
Elevation 2835KB Formation LKC 35'-50	<u>P0015</u> Effective PayFt. Ticket No
Date 11-09-14 Sec. 14 Twp. 11 S	Range 29 W County Gove State KANSAS
Test Approved By Max Lovely	Diamond Representative Michael Carroll
Formation Test No. 1 Interval Tested from	
Packer Depth 3994 ft. Size 6 3/4 in.	Packer depth 4072 ft. Size 6 3/4 in.
Packer Depth 3999 ft. Size 6 3/4 in.	Packer depthft. Size6 3/4 in.
Depth of Selective Zone Set	0 30°C-120 1 14
Top Recorder Depth (Inside) 3981 ft.	Recorder Number
Bottom Recorder Depth (Outside)ft.	Recorder Number Cap. P.S.I.
Below Straddle Recorder Depth 4150 ft.	Recorder Number
Mud Type Chem Viscosity 46	
Weight	cc. Weight Pipe Length 0 ft. I.D. 2 7/8 ir
Chlorides 1500 P.P.M.	Drill Pipe Length 3797 ft. I.D 3 1/2 in
Jars: Make STERLING Serial Number 3	Test Tool Length 32 ft. Tool Size 3 1/2-IF in
Did Well Flow?NOReversed OutNO	Anchor Length 73(31dp)_ft. Size 4 1/2-FHir
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH	81' tail pipe n. Surface Choke Size1 in. Bottom Choke Size5/8 ir
Blow: 1st Open: 1/4"BLOW-BUILT TO 3 1/4" IN 30N	IINS NOBB
2nd Open: NO BLOW-BUILT TO2 1/4" IN 45MIN	
Recovered 64 ft. of M 100%M	
Recovered 126 ft. of WCM 45%W 55%M	
Recovered 190 ft. of TOTAL FLUID	
Recovered ft. of CHLOIDES 34000PPM RW .51	@43DEGREES
Recovered ft. of PH 11.0	Price Job
Recovered ft. of	Other Charges
Remarks: BELOW STRADDLE PSI: 1804	Insurance
TOOL SAMPLE:	Total
Time Set Packer(s) 1:19A.M. A.M. P.M. Time Started Of	Bottom 5:04A.M. A.M. P.M. Maximum Temperature 119
Initial Hydrostatic Pressure	
Initial Flow PeriodMinutes	0 (B) 9 P.S.I. to (C) 52 P.S.I.
Initial Closed In Period Minutes6	(D)F.3.1.
Final Flow Period Minutes	5 (E) 54 P.S.I. to (F) 105 P.S.I.
Final Closed In PeriodMinutes	0 (G) 1208 P.S.I.
Final Hydrostatic Pressure	(H) 1930 <sub>P.S.I.</sub>

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.





#### Hoisington, Kansas



**Company Name** Raymond Oil Company

Contact **Well Name Unique Well ID Surface Location Field Well Type Test Type** 

**Formation Well Fluid Type Test Purpose Start Test Date Start Test Time Final Test Time Job Number Report Date** 

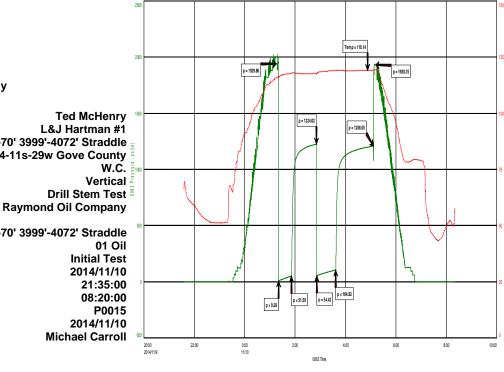
**Prepared By** 

**Well Operator** 

**Ted McHenry** L&J Hartman #1 Dst #1 L/KC 35'-50'-70' 3999'-4072' Straddle a Sec14-11s-29w Gove County Drill Stem Test

Dst #1 L/KC 35'-50'-70' 3999'-4072' Straddle 01 Oil **Initial Test** 

2014/11/10 21:35:00 08:20:00 P0015 2014/11/10 **Michael Carroll** 



L&J Hartman #1

#### **TEST RECOVERY**

Remarks Recovery:

64' mud 100%m 126' wcm 45%w 55%m

190' total fluid

chloirides 34000ppm rw .51@43degrees

ph 11.0

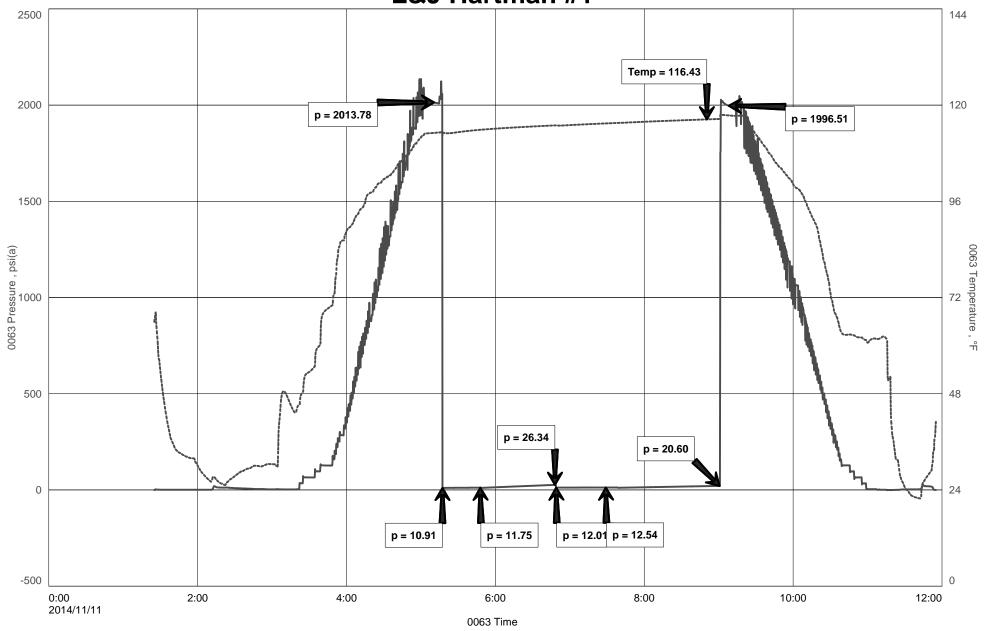
tool sample:

8%w 92%m

L&J Hartman #1 Formation: Dst #2 L/KC 160'-180' Zones 4134-4200'

Pool: WC Job Number: P0016







#### Hoisington, Kansas

#### **General Information**

Company Name Raymond Oil Company

Contact
Well Name
Unique Well ID
Surface Location
Field
Well Type

Field
Well Type
Test Type
Well Operator

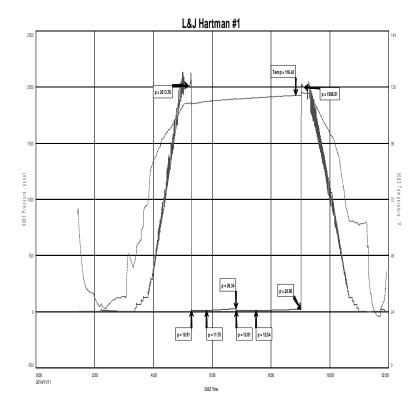
Formation
Well Fluid Type
Test Purpose
Start Test Date
Start Test Time
Final Test Time
Job Number
Report Date
Prepared By

Ted McHenry L&J Hartman #1 Dst #2 L/KC 160'-180' Zones 4134-4200' Sec14-11s-29w Gove County

> WC Vertical Drill Stem Test Raymond Oil Company

Dst #2 L/KC 160'-180' Zones 4134-4200'

01 Oil Initial Test 2014/11/11 01:25:00 11:55:00 P0016 2014/11/11 Michael Carroll



#### **TEST RECOVERY**

Remarks Recovery:

5'Mud 100%M

**Tool Sample:** 

100%M



#### DIAMOND TESTING P.O. Box 157

HOISINGTON, KANSAS 67544 (800) 542-7313

#### **DRILL-STEM TEST TICKET**

FILE: LJHartman1Dst#2

TIME ON: 0125 TIME OFF: 1155

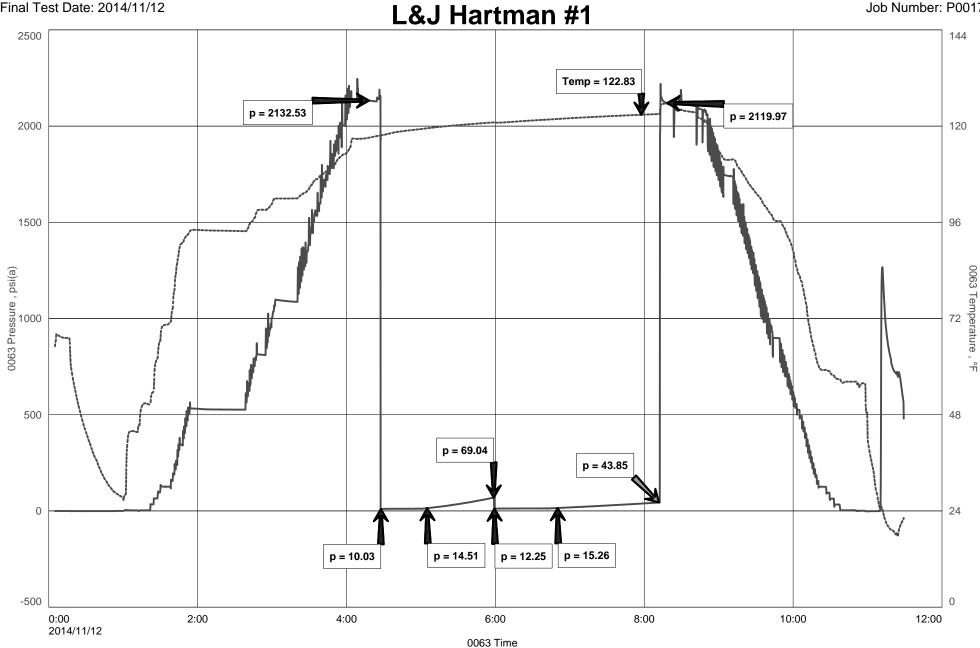
	TILL. LOTTATE	ΠαΠΤΟЗΙ#Ζ			
Company Raymond Oil Company		_Lease & Well No. L&J	Hartman #1		
Contractor H2 Drilling LLC		_ Charge to Raymond C	Oil Company		
Elevation 2835KB Formation	LKC 160'-180' Zone	S_Effective Pay	F	t. Ticket No	P0016
Date 11-11-14 Sec. 14 Twp	11 S Ra	ange29	W County	Gove State	e KANSAS
Test Approved By Max Lovely		_ Diamond Representative	Mi	ichael Carroll	
Formation Test No. 2 Interval	Tested from 41	34 ft. to	4200 ft. Total De	pth	4200 ft.
Packer Depth4129 ft. Size_	6 3/4 in.	Packer depth	ft.	Size 6 3/4	in.
Packer Depth 4134 ft. Size	6 3/4 in.	Packer depth	ft.	Size6 3/4	in.
Depth of Selective Zone Set					
Top Recorder Depth (Inside)	4116 <sub>ft.</sub>	Recorder Number	0063 Ca	p5,(	000 P.S.I.
Bottom Recorder Depth (Outside)	4171 ft.	Recorder Number	E1150 Ca	ap5	000 P.S.I.
Below Straddle Recorder Depth	ft.	Recorder Number		p	
Mud Type Chem Viscosity		Drill Collar Length	251 <sub>ft.</sub>	I.D. 2	1/4 in.
Weight 9.2 Water Loss	7.2cc.	Weight Pipe Length	0_ <sub>ft.</sub>	I.D. 2	7/8 in
Chlorides	1800 P.P.M.	Drill Pipe Length	3851 <sub>ft.</sub>	I.D3	1/2 in
Jars: Make STERLING Serial Number	3	Test Tool Length	32 <sub>ft.</sub>	Tool Size3	1/2-IFin
Did Well Flow?NOReversed C	outNO	Anchor Length	66(34.5a) <sub>ft.</sub>	Size4	1/2-FHin
Main Hole Size 7 7/8 Tool Joint S	Size 4 1/2 XH in.	Surface Choke Size	1in.	Bottom Choke	Size_5/8_in
Blow: 1st Open: WSB-NO BUILD IN 3	0MINS			N	OBB
2nd Open: NO BLOW-NO BUILD				N	OBB
Recovered 5 ft. of Mud 100%M					
Recovered 5 ft. of Total Fluid					
Recovered ft. of					
Recovered ft. of					
Recoveredft. of			Pric	e Job	
			Oth	er Charges	
Remarks:			Insu	urance	
TOOL SAMPLE:			Tota	al	
Time Set Packer(s) 5:15A.M. A.M. P.M.	Time Started Off Bo	9:00A.M.	A.M. P.M. Maximur	m Temperature _	116
Initial Hydrostatic Pressure		(A)2	2014 P.S.I.		
Initial Flow Period M		(B)	11 P.S.I. to (C)	12	2_P.S.I.
Initial Closed In Period		(D)	26 P.S.I.		
Final Flow Period M	linutes45	(E)	12 P.S.I. to (F)_	13	P.S.I.
Final Closed In PeriodM	inutes90	(G)	21 P.S.I.		
Final Hydrostatic Pressure			997 <sub>P.S.I.</sub>		
Diamond Testing shall not be liable for damages of any kind	to the property or personnel of the	e one for whom a test is made or	for any loss suffered or s	ustained directly or ind	irectly through

Raymond Oil Company Dst #3 Marmaton 'C' 4334-4403' Start Test Date: 2014/11/12 Final Test Date: 2014/11/12

L&J Hartman #1 Formation: Dst #3 Marmaton 'C' 4334-4403'

Pool: WC

Job Number: P0017





# General Information

Company Name Raymond Oil Company

Contact Ted McHenry
Well Name L&J Hartman #1
Unique Well ID Dst #3 Marmaton 'C' 4334-4403'
Surface Location Field WC
Well Type Vertical
Test Type Drill Stem Test
Well Operator Raymond Oil Company

**Formation** Dst #3 Marmaton 'C' 4334-4403' Well Fluid Type 01 Oil **Test Purpose Initial Test Start Test Date** 2014/11/12 **Start Test Time** 00:05:00 **Final Test Time** 23:29:00 Job Number P0017 Report Date 2014/11/12 **Prepared By Michael Carroll**  Double-Click In Design View
To Select/Edit
[DataChart][1]

#### **TEST RECOVERY**

Remarks Recovery:

15' OSM 2%O 98%

15' Total Fluid

**Tool Sample:** 

1%O 99%M



#### DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544

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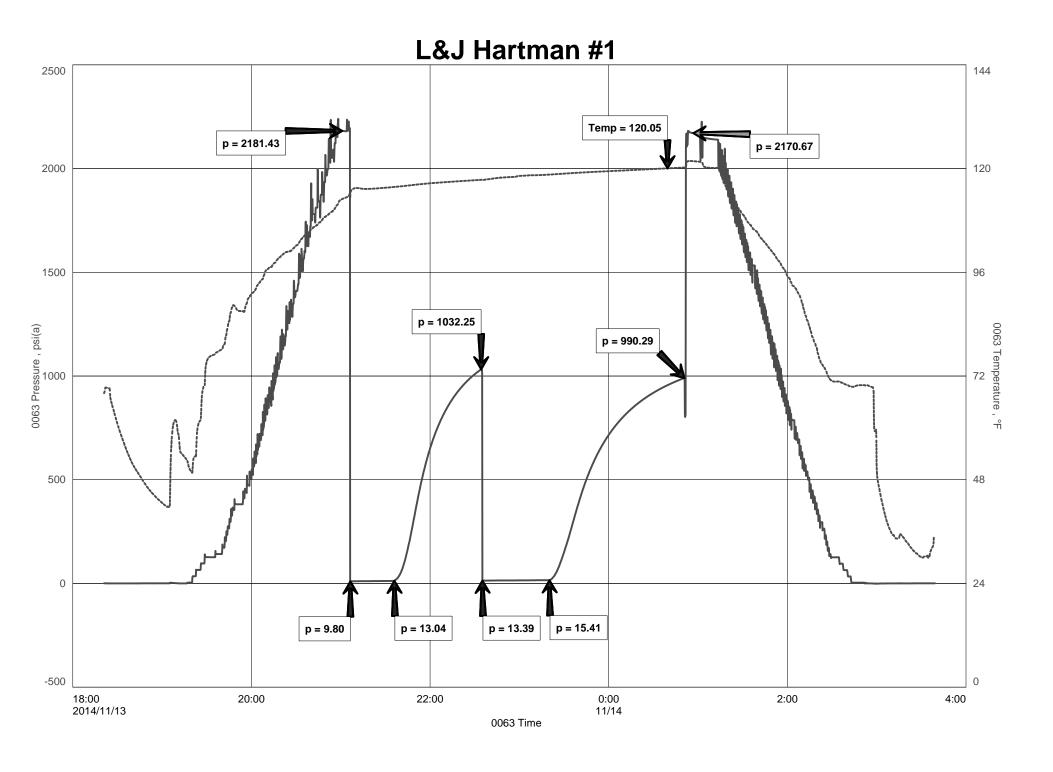
**DRILL-STEM TEST TICKET** 

TIME ON: 0005

TIME OFF: 2329

	FI	LE: LJHarti	man1Dst#3				
Company Raymond Oil Compa	any		_Lease & Well NoL8	&J Hartman #1			
Contractor H2 Drilling LLC			_ Charge to Raymond	d Oil Company			
			Effective Pay		_Ft. Ticket	NoF	P0017
Date 11-12-14 Sec. 14	Twp	11 S R	ange2	29 W County	Gove	State	KANSAS
Test Approved By Max Lovely			_ Diamond Representati	ve	Michael Ca	arroll	
Formation Test No. 3	Interval Tested from	43	334 ft. to	4403 ft. Total	Depth		4403 ft.
Packer Depth 4329	t. Size 6 3/4	in.	Packer depth		ft. Size_	6 3/4	in.
	t. Size 6 3/4	in.	Packer depth	_	_ft. Size	6 3/4	in.
Depth of Selective Zone Set							
Top Recorder Depth (Inside)		4316 <sub>ft.</sub>	Recorder Number_	0063	Сар	5,000	) P.S.I.
Bottom Recorder Depth (Outside)		4371 ft.	Recorder Number_	E1150	Сар	5000	<sup>0</sup> _P.S.I.
Below Straddle Recorder Depth		ft.	Recorder Number_		Сар		_ P.S.I.
01	sity55		Drill Collar Length_	251	t. I.D	2 1/4	4 in.
Weight9.3 Water Lo	ss8.8	cc.	Weight Pipe Length	0	ft. I.D	2 7/8	<u> </u>
Chlorides	2200	P.P.M.	Drill Pipe Length	4051	ft. I.D	3 1/2	2 in
Jars: MakeSTERLINGSerial N	Number	3	Test Tool Length	32	ft. Tool Siz	e 3 1/2	2-IF in
Did Well Flow?NOR	eversed Out	NO	Anchor Length	69(37.5a)	ft. Size	4 1/2	2-FH in
Main Hole Size 7 7/8 To	ool Joint Size 4 1/	/2 XH_in.	Surface Choke Size	i	n. Bottom	Choke Siz	:e5/8in
Blow: 1st Open: WSB-DIED IN	20MINS	11					NOBB
2nd Open: NO BLOW-NO I	BUILD						NOBB
Recovered 15 ft. of OSM 2%	O 98%M						
Recovered 15 ft. of TOTAL FL	UID						
Recoveredft. of							
Recoveredft. of							
Recoveredft. of	MINUSES				Price Job		
Recoveredft. of				(	Other Charge	es	
Remarks:					nsurance		
TOOL SAMPLE: 1%O 99%M					ГотаІ		
	A.M.		0:44D.M	Λ Μ	Total		400
Time Set Packer(s) 4:26P.M.	P.M. Time S	tarted Off Bo	8:11P.M.		num Tempe	rature	123
Initial Hydrostatic Pressure			(A)	2133 P.S.I.			
Initial Flow Period	Minutes	30	(B)	10 P.S.I. to (	C)	15_ <sub>F</sub>	P.S.I.
Initial Closed In Period		60	(D)	69 P.S.I.		4.5	
Final Flow Period		45	(E)	12 P.S.I. to (	F)	15 <sub>P</sub>	.S.I.
Final Closed In Period	Minutes	90	(G)	44 P.S.I.			
Final Hydrostatic Pressure		****************	(H)	2120 <sub>P.S.I.</sub>			

Final Hydrostatic Pressure....(H)





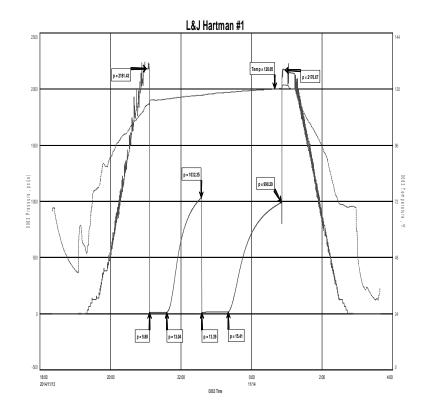
#### Hoisington, Kansas

#### **General Information**

Company Name Raymond Oil Company

Contact Ted McHenry
Well Name L&J Hartman #1
Unique Well ID Dst #4 Miss 4477-4515'
Surface Location
Field WC
Well Type Vertical
Test Type Drill Stem Test
Well Operator Raymond Oil Company

**Formation** Dst #4 Miss 4477-4515' **Well Fluid Type** 01 Oil Test Purpose **Initial Test Start Test Date** 2014/11/13 **Start Test Time** 18:21:00 **Final Test Time** 03:39:00 Job Number P0018 Report Date 2014/11/13 **Prepared By Michael Carroll** 



#### **TEST RECOVERY**

Remarks Recovery:

5'Mud 100%M

**Total Fluid:** 

5'Mud

**Tool Sample:** 

100%Mud with a few oil specks.



# P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313

# **DRILL-STEM TEST TICKET**

IME ON:	
IME OFF:	

Company			Lease & Well No					
Contractor								
Elevation	Formation		_Effective Pay		Ft.	Ticket No	D	
Date Sec	Twp	S Ra	nge	_W County			State_	KANSAS
Test Approved By			Diamond Representative	e				
Formation Test No	Interval Tested from		ft. to	ft. To	tal Dept	th		ft.
Packer Depth	ft. Size6 3/4	_ in.	Packer depth		ft.	Size6	3/4	in.
Packer Depth	ft. Size6 3/4	_ in.	Packer depth		ft.	Size6	3/4	in.
Depth of Selective Zone Set_								
Top Recorder Depth (Inside)		ft.	Recorder Number		Cap.			_P.S.I.
Bottom Recorder Depth (Out	side)	ft.	Recorder Number		Cap			P.S.I.
Below Straddle Recorder De	pth	ft.	Recorder Number		Сар.			_ P.S.I.
Mud Type	Viscosity		Drill Collar Length		ft.	.D	2 1/4	4 in
Weight	Water Loss	cc.	Weight Pipe Length_		ft.	I.D	2 7/8	<u>8</u> ir
Chlorides	F	P.P.M.	Drill Pipe Length		ft. I	.D	3 1/2	2 ir
Jars: MakeSTERLING	Serial Number		Test Tool Length		ft. ^	Tool Size	3 1/2	2-IF ir
Did Well Flow?	Reversed Out		Anchor Length		ft.	Size	4 1/2	2-FHi
Main Hole Size 7 7/8	Tool Joint Size4 1/2	in.	Surface Choke Size_	1	in l	Bottom Ch	noke Siz	e_5/8_i
Blow: 1st Open:								
2nd Open:								fa .
Recoveredft. of								
Recoveredft. of _								
Recoveredft. of _								
Recoveredft. of _								
Recoveredft. of _					Price	Job		
Recoveredft. of _					Other	Charges		
Remarks:					Insura	ance		
	A 14				Total			
Time Set Packer(s)	A.M. P.M. Time Sta	rted Off Bot	tom	A.M. P.M. Ma	ximum	Temperat	ure	
Initial Hydrostatic Pressure			(A)	P.S.I.				
Initial Flow Period	Minutes		(B)	P.S.I. t	o (C)		F	P.S.I.
Initial Closed In Period	Minutes		(D)	P.S.I.				
Final Flow Period	Minutes		(E)	P.S.I. to	o (F)		P	.S.I.
Final Closed In Period	Minutes		(G)	P.S.I.				
Final Hydrostatic Pressure			(H)	P.S.I.				

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