KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1329649

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:			
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: ()			
CONTRACTOR: License #	GPS Location: Lat:, Long:		
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)		
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84		
Purchaser:	County:		
Designate Type of Completion:	Lease Name: Well #:		
New Well Re-Entry Workover Field Name:			
	Producing Formation:		
	Elevation: Ground: Kelly Bushing:		
Gas D&A ENHR SIGW	Total Vertical Depth: Plug Back Total Depth:		
OG GSW Temp. Abd. CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet		
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?		
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 Total Depth:			
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Drilling Fluid Management Plan		
Plug Back Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)		
	Chloride content: ppm Fluid volume: bbls		
Commingled Permit #: Dual Completion Permit #:	Dewatering method used:		
SWD Permit #:	Location of fluid disposal if hauled offsite:		
ENHR Permit #:			
GSW Permit #:	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
Geologist Report Received
UIC Distribution
ALT I II Approved by: Date:

	Page Two	
	1 ago 1110	1329649
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTRUCTIONS. Chain important tang of formations panetrated De	tail all aaraa Bapart all final	agniag of drill stome tests giving interval tested, time test

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

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

Drill Stem Tests Taken (Attach Additional She	eets)	Yes No		-	on (Top), Depth ar		Sample
Samples Sent to Geolog	ical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING Report all strings set-c	RECORD Ne		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
		ADDITIONAL	CEMENTING / SQU	EEZE RECORD			

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

No	(If No, skip questions 2 and 3)
No	(If No, skip question 3)

No

(If No, fill out Page Three of the ACO-1)

Shots Per Foot		PERFORATION Specify Fo		RD - Bridge P Each Interval F)e			ement Squeeze Record d of Material Used)	Depth
TUBING RECORD:	Si	ze:	Set At:		Packe	r At:	Liner R	un:	No	
Date of First, Resumed	I Product	ion, SWD or ENH	٦.	Producing N	lethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSIT		345.			METHOD	OF COMPLE			PRODUCTION INTER	R\/Δ1 ·
Vented Sole	d 🗌	Used on Lease		Open Hole	Perf.	Un COMPLE Dually (Submit)	Comp.	Commingled (Submit ACO-4)		
(If vented, Su	ibmit ACC	ו-18.)		Other (Specify)						

Form	ACO1 - Well Completion
Operator	Jason Oil Company, LLC
Well Name	ARNHOLD 1
Doc ID	1329649

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	12.25	8.625	23	253	СОМ	130	160 80/20 3%CC 2% GEL
Production	7.875	5.5	15.5	2035	СОМ	180	180 10% SALT 5% COILSON ITE
Production	5.5	2.5	10	2035	СОМ		400% QMOC 7 GEL ON SIDE 180 60/40 4% GEL

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Cell 785-324-1041

hone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665

No. 3079

		1.1.1				
Sec.	Twp. Range	199 (J. 199	County	State	On Location	Finish
Date 1-21.16 3	12 18	Þ	15	KS		3:00m
		Locat	ion Hauls V	25+. Andrewich	1/20 Einto .	
Lease Arnhold	Well No. 1		Owner			
Contractor Discover # 21	1-		To Quality C	Vilwell Cementing, Inc.	oomenties as issues	A
Type Job Surface			cementer ar	eby requested to rent ad helper to assist own	cementing equipmen her or contractor to di	t and turnish o work as listed.
Hole Size 1214	T.D. 253		Charge "	Joson Q1		
Csg. 85/8	Depth 252		Street			-
Tbg. Size	Depth		City	с <u>,</u>	State	
Tool	Depth			as done to satisfaction ar		agent or contract
Cement Left in Csg. 10	Shoe Joint	5 8	- 100 E 100 E	ount Ordered 160		IIE!
Meas Line	Displace 15 1/2	ZRI	1.1	190	120 31-02 2	1. CORC
and the second se	MENT	-0-	Common	30		
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JOB SERVICES			Calcium 6	2		
	S & AEMAANS		Hulls	<u> </u>		
Remarks:			Salt		9	
Rat Hole			Flowseal			
Mouse Hole			Kol-Seal			
Centralizers			Mud CLR 48	l		
Baskets			CFL-117 or (CD110 CAF 38		
D/V or Port Collar	$-\Lambda$		Sand	in the		1
8 Bon Dottom	Est (in what's	w A	Handling /	69	Marine Commence	
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Sec. 1	15.011	A Const	Pumptrk Cha	ree C Alta	e	
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in the second second second

785-483-2025	Home Office P.O	Box 32 Russell, KS 67665 No. 3
Date 11-28-16	ec. Twp. Range	County. State On Location
Norman enter an	Lo	cation Hays 91/20 E into
Lease Ambold	Well No./	Owner
Contractor Di Scover	, , , , , , , , , , , , , , , , , , , ,	To Quality Olivell Cementing, Inc.
Type Job Production 5		 You are hereby requested to rent cementing equipment and cementer and helper to assist owner or contractor to do woll
Hole Size 778	T.D. 3770	Charge O.
Csg. 512		
Tbg. Size	Depth 376.5.	Street
	Depth	City State
Tool fort Cales	Depth 2035	The above was done to satisfaction and supervision of owner agen
	42 Shoe Joint 33.42	Cement Amount Ordered 180 101-Salt 57 Coilso
Meas Line	Displace 8612BL	Stogal mud Cled
I To No Cementer	UIPMENT	Common 180
Pumptrk No. Helper	Trais	Poz. Mix
Bulktrk Driver		Gel.
Bulktrk 1.5 No. Driver	Jua	Calcium
JOB SERVI	CES & REMARKS	Hulls
Remarks:		Salt 17
Rat Hole 205K		Flowseal
Mouse Hole 155K		Kol-Seal 7.50 tt
Centralizers		Mud CLR 48 500 col
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		
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- Clear Linese Di	splace Phy.	Centralizer & Turbol S
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Litt pressure	- <u>800</u> 7	AFU Inserts
Land Shing Sipssure	- 150A	Float Shoe
		Latch Down
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	1111229	Pumptrk Charge Dord Storing
		Mileage 10
		Tax
	•	Discount
X Signature	11)	Total Charge

QUALITY OILWELL CEMENTING, INC. Federal Tax 1.D.# 20-2886107

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

No. : (Or

one 785-483-2025 ell 785-324-1041

Date /-/0 -///	Sec. Twp. 3 /2	Range / Ş		County ///S	State	On Location	Finish 4:00 pm
Acusta			Locat	ion Hay	15 9/2 N	Einto	1.001
Lease Arnol	W	ell No. /		Owner			
Contractor Ca. Tox	3/3			To Quality Oilw	vell Cementing, Inc.	- martin	
Type Job Part Co	s/lar			Cementer and	/ requested to rent helper to assist own	cementing equipment	and furnish work as listed
Hole Size 51	2 T.D.			Charge C	ASON O	al	- Hone do hatou.
Osg. 72	Depth			Street			
Tbg. Size	Depth			City		State	
Tool	Depth				tone to satisfaction ar	nd supervision of owner	adent or contractor
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Bulktrk No. Driver Driver		Tin	~	Caleiom 400	2 ho Qmp	-	
JOB SERV	ICES & REMARI	(S		Hulls	120 Grain	<u> </u>	
Remarks:				Salt			
Rat Hole			1		OH		
Mouse Hole				Kol-Seal	- LA		
Centralizers				Mud CLR 48			
Baskets				CFL-117 or CD	110 CAE 38		
D/V or Port Collar	2035		-	Sand			
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X Signature						Total Charge	

	Scale 1:240 Imperial			
Formation:	ARNHOLD #1 NW SE NW Section 3 - 12S - 18W 15-051-26852 33813 11/21/2016 ELLIS COUNTY KANSAS 11/28/2016 1745' FSL & 835' FWL 2148.00ft 2156.00ft 3000.00ft 3770.00ft LANSING - KANSAS CITY; ARBUC	Time: Time: To: KLE	9:00 AM 3:38 AM 3770.00ft	
	FRESH WATER / CHEMICAL GEL	549.000 		
Company: Address: Contact Geologist: Contact Phone Nbr: Well Name: Location: API: Pool: State:	OPERATOR JASON OIL COMPANY, LLC 3718 183RD ST P.O. BOX 701 RUSSELL, KS 67665 SHELDON WEIGEL (785) 483-4204 ARNHOLD #1 NW SE NW Section 3 - 12S - 18W 15-051-26852 KANSAS	Field: Country:	N/A USA	
	SURFACE CO-ORDINATES			
Well Type: Longitude: Latitude: N/S Co-ord: E/W Co-ord;	Vertical -99.3124891 39.0354506 1745' FSL 835' FWL			
	LOGGED BY			
	BIG CREEK CONSULTING			
Company: Address:	BIG CREEK CONSULTING, INC. 1909 MAPLE ELLIS, KS 67637	2 21	169 MCCoy 56 Juson	3626 3620 K
Phone Nbr: Logged By:	(785) 259-3737 GEOLOGIST	Name:	JEFF LAWLER	
	CONTRACTOR			
Contractor: Rig #:	DISCOVERY DRILLING			
Rig Type: Spud Date:	MUD ROTARY 11/21/2016	Time:	9:00 AM	

			Logge	ed By:	GE	OLO	GIST					N	lame:	JE	FF LA	WL	ER			
									RAC	TOR				_			_			_
			Contra	actor: Rig #:	DIS 1	SCOV	/ERY	DRIL	LING											
				Type:			DTAR	V					3.1							
			Spud			21/20		1				23	-							
				Date:		28/20							Time:		0 AM					
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	KE LOG DEPTH	Аллин 2156 ТОР5 ДАТИМ	OLD #1 GL 36.MPP DEPTH	2148 ETOP5 DATUM	KB COMP	WE HOLLOW BENE NESWS	ELL C B DRILLING (GREL 8-1 W) 3-12-15 2183 LOS COMP.	OMP						ON. TTED P& OSADEOI SCHUM	A 8-56	ю.	K8	MCCCO WALT SW SW AP, CARD	• • • • • • • • • • • • • •	P. 3 1.8
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FORMATION ANHYDRITE TOR BASE TOPEKA HEEDNER TORONTO LKC	KE 100 000714 1435 1468 3145 3395 3397 3421	ARAH 2156 TOPS GATUM 720 638 983 -1220 -1741 -1255	OLD #1 GL 34MPP DEPTH 1438 1473 3145 3395 3395 3422	2148 ETOPS DATUM 718 989 -1222 -1239 -1266	кв СОМР Дерти 1455 3154 3416 3450	WE MOLLOW NESWS -CARD -ARD -230 -969 -1231 -1275	ELL C B DelLING GIEL 8-1 2183 LOS SOPR. - 20 - 11 - 20 - 11 - 10	OMP - 110 - 120 - 200 - 300 - 300 300 - 300 -	2 THE ERES RES ARIS 0 0000 0000 1435 3480 3330 33480 3488 3492	DEC T UP PEC J ON S VINCENT ON S VINCENT S J ON S VINCENT S S S S S S S S S S S S S S S S S S S	PON C TFUL EFF HEET B COMPA 2153 106 COMPA 2153 106 COMPA + 3 + 3 + 3 + 12 + 15	COMF		ON. TTED P& 0340501 SCHUM P. CARD DATUM -968	4.8-56 L8.GAS, IN MCHER #1 1095 L065 CORA 2195	IC. 8 SMP COS	KB K. COA L DEPTH 1434 1458 21 3159 0 3385 5404	MCCO WALT SW SW P, CARD DATUM 733 701 -924 -1216 -1235	PET. COR EP5 M 82: 5 102 5-12-2 2169 106 106 106 105 13 13 13 13 14 14 15 15 14 16 10 10 10 10 10 10 10 10 10 10 10 10 10	P. 33 88 50 5 5 - -
FORMATION ANHYDRITE TOP BASS TOPEDAA HELEDAA TORONTO	KE LOG DEPTH 1436 1408 3176 3376	ARNIH 2156 DPS CATUM 720 688 989 1220 1241	OLD #1 GL 1471 DEPTH 1478 3378 3395 3395 3392 33422 35422	2148 ETOP5 DATUS 218 385 989 -1222 1236 -1226 -1236 -1293	KB COMP DEPTH 1455 3154 3416 34250 3704	WE HOLLOW BENE CARD CARD CARD -969 -1231 -1275 -1519	ELL C B DRILLING (GIEL 8-1 105 105 105 105 105 105 105 105 105 10	OMP 0 0 0 0 0 0 0 0 0 0 0 0 0	RES RES ARISO 0277H 1436 1480 31300 31408	DEC T UP PEC J ON S ON S ON S ON S ON S ON S ON S ON S	PON C TFUL EFF HEET 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	COMF LAWI F SMPL SMPL COMP. + 3 + 32 + 32 + 31 + 32 + 31 + 32	EUBMI LER 6000000000000000000000000000000000000	ON. TTED P&/ OSA05.01 SCHUM SW SW H P. CARD DATUM -9058 -1222	A 8-56 L&GAS IN ACMER#1 21198 LOB CORX + 21 + 2	IC. 8 SMP COS	KB b. COO DEPTH 1434 21 3153 0 3385	MCCO' WALT SW SW AP. CARD DATUM 735 703 -984 -1216	Y PET. COR DR5 M 82-3 MC 3-12-4 2169 LOG COR4 - 15 - 15 - 33 - 34 - 4	P. 33 88 50 5 5 - -
FORMATION ANHYDRITE TOP BASE TOPENA HELENER TORONTO LKC BKC CONGLOMERATE ARBUCKLE	KE LOO DEPTH 1436 1468 3176 3376 3397 3421 3672 3601	АЛАН 2156 ТОР5 ДАТИО 720 688 989 -1220 1744 -1265 3545	OLD #1 GL 34MPP DEPTH 1438 1473 3145 3395 3395 3422	2148 ETOPS DATUM 718 989 -1222 -1239 -1266	кв СОМР Дерти 1455 3154 3416 3450	WE MOLLOW NESWS -CARD -ARD -230 -969 -1231 -1275	ELL C B DelLING GIEL 8-1 2183 LOS SOPR. - 20 - 11 - 20 - 11 - 10	OMP - 110 - 120 - 200 - 300 - 300 300 - 300 -	2 THE ERES RES ARIS 0 0000 0000 1435 3480 3330 33480 3488 3492	DEC T UP PEC J ON S VINCENT ON S VINCENT S J ON S VINCENT S S S S S S S S S S S S S S S S S S S	PON C TFUL EFF HEET B E COMPA 2153 2153 2153 2153 2153 2153 2153 2153	COMF LLY S LAWI 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	EUBMI LER 6000000000000000000000000000000000000	ON. TTED P&/ OSAGEGII SCHUM SW SW 1 P. CARO DATUM -3058 -1222 -1258	A 8-56 L&GAS IN ACMER#1 21198 LOB CORX + 21 + 2	IC. 8 SMP COS	K8 br. CON 5. DE97H 1454 21 3153 0 3385 \$406 2 3430 3659 3659 3659	MCCO' WALT SW SW P. CARD DATUM 703 -983 -2216 -1235 -2261 -1503 -1519	• PPELCOR DR5 M 82-3 MC 3-12-2 2169 LOG COR4 - 15 - 13 - 4 - 6 - 4 - 3	P. 3 18 5 5 - - + +
FORMATION ANHYDRITE TOF BASE TOPEKA HECOMER TORONTO LKC BKC CONGLOMERATE	KE DEPTH 1436 3145 3376 3397 3497 3497 3497 3497 3497	ARXIII 2156 DPS DATUM 720 -1265 -1205 -1255 -1255 -1255 -1516	OLD #1 GL 3AMP DEPTH 1438 345 3395 3422 3549 3672	2148 ETOPS DATUM 218 -389 -1222 -1239 -1222 -1239 -1269 -1293 -1516	KB COMP DEPTH 1455 3154 3416 34250 3704	WE HOLLOW BENE CARD CARD CARD -969 -1231 -1275 -1519	ELL C B DRILLING (GIEL 8-1 105 105 105 105 105 105 105 105 105 10	OMP 0 0 0 0 0 0 0 0 0 0 0 0 0	2 THE ERES RES ARIS 0 0000 0000 1435 3480 3330 33488 3448 3489 3448 3489	DEC T UP PEC J ON S VINCENT ON S VINCENT S J ON S VINCENT S S S S S S S S S S S S S S S S S S S	PON C TFUL EFF HEET B E COMPA 2153 2153 2153 2153 2153 2153 2153 2153	COMF LLY S LAWI 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	EUBMI LER 6000000000000000000000000000000000000	ON. TTED P&/ OSA05.01 SCHUM SW SW H P. CARD DATUM -9058 -1222	A 8-56 L&GAS IN ACMER#1 21198 LOB CORX + 21 + 2	IC. 8 SMP COS	KB CON L DEPTH 1434 1468 21 3153 0 3385 0 3385 0 3450 2 3439 2 3439 3670	MCCO WALT SW SW AP. CARD DATUM 735 701 -984 -1216 -1225 -1261 -1251	PET. COR EP5 M 82: 5 102 5-12-2 2169 005 005 105 105 105 105 105 105 105 105	P. 3 18 5 5 - - - - - - - - - - - - - - - - -

	P.Q.	D TESTING Box 157 KANSAS 67544	TIME ON:	12:27	
	(800)	542-7313 M TEST TICKET	TIME OFF	19:20	
Company_JASON OIL COMPANY, LLC Contractor DISCOVERY DRILLING, INC., RIG		Lease & Well No.			
	and the second sec		OIL COMPANY, LLC		
Elevation 2156 KB Formation	PLATTSMOUT	TH Effective Pay	Ft	Ticket No.	T574
Date 11-25-16 Sec 3 Twp Test Approved By JEFF LAWLER				State	KANSAS
Test Approved By VETT ERVILEN		Diamond Representa	tiveTIN	VENTERS	
Formation Test No. 1 Interval Tested	from3	320 ft. to	3375 ft. Total Dep	th	3375 ft.
Packer Depth3315 ft. Size6 3	3/4 in.	Packer depth		Size 6 3/4	in.
Packer Depth 3320 ft. Size 6.3	1/4 In.	Packer depth		Size 6 3/4	in.
Depth of Selective Zone Set	THE OWNER WATER				
Top Recorder Depth (Inside)	3308 ft.	Recorder Number	5504 Cap.	5.0	00 P.S.I.
Bottom Recorder Depth (Outside)	3372 ft.	Recorder Number_	11029 Cap	and the second se	025 P.S.I.
Below Straddle Recorder Depth	ft.	Recorder Number	Cap		P.S.I.
					- Pagin
Mud Type CHEMICAL Viscosity	48	Drill Collar Length	Oft I	.D. 2 1	1/4 in.

Top Recorder Depth (In	iside)		3308 ft	-				_		_
Bottom Recorder Depth					order Number		5504 Ca		5,000 P.S.	Ē,
Below Straddle Recorde			3372 ft.	Rec	order Number	10 1	11029 Ca	ip	5,025 P.S.	I.
	ICAL Visc		ft	Rec	order Number		Ca	p	P.S.	I.
Weight 8.8			48	_ Drill	Collar Length		Oft.	I.D	2 1/4	in
Chlorides	Water L	OSS		c. Weig	ght Pipe Lengt	h	312 ft.	I.D.	2 7/8	
Jars: Make STERLIN			7,000 P.P.M.	Drill	Pipe Length		2982 n.	I.D	3 1/2	ie
	NO	Number		Test	Tool Length		26 ft.	Tool Size	3 1/2-IF	-
Did Well Flow?	and the state of t	Reversed Out	NO		IN ANCHOR		23 ft.	Size	4 1/2-FH	
Main Hole Size 7 7/8	T	ool Joint Size	4 1/2 XH in	Surfa	Choke Size	e <u> </u>	in.	and the second s	oke Size 5/8	
Blow 1st Open WEA	K 3/4 INC	CH BLOW,	BUILDING	TO 3	1/2 INCH	ES.		Training and the second	D BB)	-
2nd Open: WEAI	K SURFAC	CE BLOW,	BUILDING T	041	ICHES.				D BB)	-
	of DRILLING							(14)	J DDj	_
Recovered 65 ft.	of VHWCM,	49% WATER,	51% MUD							-
	of TOTAL F									
Recoveredft.	of									
	of		CHLORIDES: 2	2 000 n	0m					
	of		PH: 6.0	1,000 P	Pin		Price	(a.c.)		
Remarks:			RW: .36 @ 58	nah S			Other	Charges		
WE SLID ABOUT 8-1	O FEET WH	EN SETTIN	TOOL AND I	T KED	LOOMON	(FLOUIN	Insura	ance		-
TOOL SAMPLE:64% W	ATER, 36% /	NUD	- TOOL, AND I	TREP	LOSINGW	EIGHT.	-			
ime Set Packer(s)	2:32 PM	A.M.			5 00 PM	AM	Total			
			me Started Off Bo		5:02 PM		Maximum	Temperatu	e 96 deg.	-
itial Hydrostatic Pressure				(A)_		1560 P.S.	I.			
litial Flow Period			the set of the second se	(B)		61 P.S.	I. to (C)		78 P.S.I.	
itial Closed In Period			THE REAL PROPERTY OF A DESCRIPTION OF A	(D)	And Party in Laboratory	891 P S				
nal Flow Period			The second s	(E)		82 P.S.I	to (F)	1	08 P.S.I.	
nal Closed In Period			CONTRACTOR OF THE OWNER AND ADDRESS OF THE OWNER OF	(G)		845 P.S.I			Cashi,	
and blocks at a land				(H)		1547				
Diamond Testing shall not be la the use of its equipment, or its a						Pr 75				

DST #	2 TORONTO - LKC F 3410' - 3510'	
	DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544	TIME ON. 11:41
A A	(800) 542-7313 DRILL-STEM TEST TICKET	TIME OFF: 20:21
Company JASON OIL COMPANY, LLC Contractor DISCOVERY DRILLING, INC., RI	Lease & Well No. ARNHOLD	
Elevation2156 KB Formation	TORONTO-LKC "F" Effective Pay	
Date 11-26-16 Sec. 3 Twp. Test Approved By JEFF LAWLER	12 S Range 18 W Co Diamond Representative	TO HUNGINU.
Formation Test No. 2 Interval Teste Packer Depth 3405 ft. Size 6		t. Total Depth3510 ft.



DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313 DRILL-STEM TEST TICKET FILE: ARNHOL D1DST2

TIME ON: 11:41

TIME OFF: 20:21

ACON OU		C. Checker, S. (CIL)	RNHOLD1DST2				
Company JASON OIL CO	MPANY, LLC	>	Lease & Woll N				
	ALCING, INC., P	dG #1	Charge to 1490	NOIL COMPANIES			
Elevation 2156 KB	Formation	TORONTO-LK	C"F" FR I				
Date 11-26-16 Sec.	3 Two	12	Effective Pay		Ft_Ticke	et No	T575
Test Approved By JEFF LAWLER	1		> Kange				KAN
Formation Test No. 2			Diamond Represen	tative	TIM VEN	TERS	
Formation Test No. 2 Packer Depth 3	Interval Tes	ted from	3410 ft. to	3510 ft. Tota	I Depth		351
	II. Size	<u>6 3/4</u> in	Packer depth		ft. Size	6 3/4	in
	410 ft. Size	6 3/4 in.	Packer depth		ft. Size		
Depth of Selective Zone Set				· · · · · · · · · · · · · · · · · · ·			in
Top Recorder Depth (Inside)		3398 ft	Recorder Number	5504	Cap.	E 000	-
Bottom Recorder Depth (Outside))	3507 ft.	Recorder Number			5,000	
Below Straddle Recorder Depth		ħ.	Recorder Number	and the second s	_Cap	5,02	-
Mud Type CHEMICAL V	/iscosity_	68			Сар	and the second se	P.S.
0.0	er Loss	70	Drill Collar Length		t. I.D		
Chlorides	And a state of the	5,500 P.P.M	cc. Weight Pipe Lengt		APProvide	2 7/8	1
Jars: Make STERLING Se	rial Number	F.F.M.	Drill Pipe Length		TRANSPORT	3 1/2	-
Did Well Flow? NO	Reversed Out	NO	Test Tool Length	26 f	t. Tool Siz	e3 1/2	-IF
Main Hole Size 7 7/8		and a second	S4 CP IN ANCHOR	36 1	t. Size	4 1/2	-FH
	Tool Joint Size	4 1/2 XH in	Cudana Aberland	e <u>t</u> ir	Bottom	Choke Size	5/8
Blow 1st Open: WEAK 1/2 II	NCH BLOW,	BUILDING.	REACHING BO	DR & MINI	the second s	and the second se	-
20d Opport & my Arr Inc.			D	DO WINY.	(1)	O BB)	
UVEAK 1/2 IN	ICH BLOW, B	UILDING, R	EACHING BOB	10 1/2 MIN		IO BB)	
UVEAK 1/2 IN	CH BLOW, B	UILDING, R	EACHING BOB	10 1/2 MIN.		IO BB) VS BB)	
Recovered 175 ft. of GAS IN	ICH BLOW, B	UILDING, R	EACHING BOB	10 1/2 MIN.			
Recovered 175 ft. of GAS IN Recovered 85 ft. of G.SWH	ICH BLOW, B N PIPE HOCM, 3% GAS, .	22% OIL, 75% N	EACHING BOB	10 1/2 MIN.			
Recovered 175 ft. of GAS IN Recovered 85 ft. of G.SWH Recovered 65 ft. of G.SWH	ICH BLOW, B N PIPE HOCM, 3% GAS, HOCM, 2% GAS	22% OIL, 75% N 3, 35% OIL, 7%	EACHING BOB	10 1/2 MIN.			
Recovered 175 ft. of GAS IN Recovered 85 ft. of G.SWH Recovered 65 ft. of G.SWH Recovered 310 ft. of G.W&H	ICH BLOW, B N PIPE HOCM, 3% GAS, HOCM, 2% GAS, MCO, 6% GAS,	22% OIL, 75% N 3, 35% OIL, 7% 51% OIL, 24%	WATER, 19% MU	10 1/2 MIN.	(V		
Recovered 175 ft. of GAS IN Recovered 85 ft. of G.SWH Recovered 65 ft. of G.SWH Recovered 310 ft. of G.W&H Recovered 460 ft. of TOAL F	ICH BLOW, B N PIPE HOCM, 3% GAS, HOCM, 2% GAS MCO, 6% GAS, FLUID	22% OIL, 75% N 3, 35% OIL, 7% 51% OIL, 24% CHLORIDES: 3	WATER, 19% MU	10 1/2 MIN.			
Recovered 175 ft. of GAS IN Recovered 85 ft. of G.SWH Recovered 65 ft. of G.SWH Recovered 310 ft. of G.W&H Recovered 460 ft. of TOAL F Recovered ft. of	ICH BLOW, B N PIPE HOCM, 3% GAS, HOCM, 2% GAS, MCO, 6% GAS, FLUID	22% OIL, 75% N 3, 35% OIL, 7% 51% OIL, 24% CHLORIDES: 3 PH: 6.0	EACHING BOB	10 1/2 MIN.	(V	VS BB)	
Recovered 175 ft. of GAS IN Recovered 85 ft. of G.SWH Recovered 65 ft. of G.SWH Recovered 310 ft. of G.W&H Recovered 460 ft. of TOAL F Recovered ft. of emarks:	ICH BLOW, B N PIPE HOCM, 3% GAS, HOCM, 2% GAS, MCO, 6% GAS, FLUID	22% OIL, 75% N 3, 35% OIL, 7% 51% OIL, 24% CHLORIDES: 3 PH: 6.0	EACHING BOB	10 1/2 MIN.	(V)	VS BB)	
Recovered 175 ft. of GAS IN Recovered 85 ft. of G.SWH Recovered 65 ft. of G.SWH Recovered 310 ft. of G.W&J Recovered 460 ft. of TOAL F Recovered ft. of remarks:	ICH BLOW, B N PIPE HOCM, 3% GAS, HOCM, 2% GAS, MCO, 6% GAS, FLUID	22% OIL, 75% N 3, 35% OIL, 7% 51% OIL, 24% CHLORIDES: 3 PH: 6.0 RW: .28 @ 54 DIDN'T LAST T	EACHING BOB	10 1/2 MIN.	(V ice Job her Charges	VS BB)	
Recovered 175 ft. of GAS IN Recovered 85 ft. of G.SWH Recovered 65 ft. of G.SWH Recovered 310 ft. of G.W&J Recovered 460 ft. of TOAL F Recovered ft. of remarks: THE BLOW BACK DURING FI OOL SAMPLE: 4% GAS, 59% O	ICH BLOW, B N PIPE HOCM, 3% GAS, HOCM, 2% GAS MCO, 6% GAS, FLUID INAL SHUT-IN E DIL, 19% WATER,	22% OIL, 75% N 3, 35% OIL, 7% 51% OIL, 24% CHLORIDES: 3 PH: 6.0 RW: .28 @ 54 DIDN'T LAST T	EACHING BOB	10 1/2 MIN. D D D D D D D D D D D D D Tot	(V ice Job her Charges surance	VS BB)	
Recovered 175 ft. of GAS IN Recovered 85 ft. of G.SWH Recovered 65 ft. of G.SWH Recovered 310 ft. of G.W&J Recovered 460 ft. of TOAL F Recovered ft. of remarks: THE BLOW BACK DURING FI OOL SAMPLE: 4% GAS, 59% O me Set Packer(s) 2:43 PM	ICH BLOW, B N PIPE HOCM, 3% GAS, HOCM, 2% GAS MCO, 6% GAS, FLUID INAL SHUT-IN E DIL, 19% WATER, M P.M. Tir	22% OIL, 75% N 5, 35% OIL, 7% 51% OIL, 24% CHLORIDES: 3 PH: 6.0 RW: .28 @ 54 DIDN'T LAST T 18% MUD me Started Off Bo	EACHING BOB AUD WATER, 54% MU WATER, 19% MU WATER, 19% MU B8,000 ppm 4 deg. HE WHOLD PERIO Dottom 5:46 PM	10 1/2 MIN. D D D D D D D D D D D D D D D D Tot A.M.	(V ice Job her Charges surance tal	VS BB)	deg.
Recovered 175 ft. of GAS IN Recovered 85 ft. of G.SWI Recovered 65 ft. of G.SWI Recovered 460 ft. of TOAL I Recovered ft. of TOAL I Recovered ft. of TOAL I Recovered ft. of TOAL II Recovered ft. of TOAL II Recovered ft. of TOAL II Recovered ft. of TOAL III Recovered ft. of TOAL III Recovered ft. of TOAL IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ICH BLOW, B N PIPE HOCM, 3% GAS, HOCM, 2% GAS, MCO, 6% GAS, FLUID INAL SHUT-IN E DIL, 19% WATER, M P.M. Tir	22% OIL, 75% N 5, 35% OIL, 7% 51% OIL, 24% CHLORIDES: 3 PH: 6.0 RW: .28 @ 54 DIDN'T LAST T 18% MUD me Started Off Bo	EACHING BOB AUD WATER, 54% MU WATER, 19% MU WATER, 19% MU B8,000 ppm 4 deg. HE WHOLD PERIO Dottom 5:46 PM	10 1/2 MIN. D D D D D D D D D D D D D D D D D D D	(V ice Job her Charges surance	VS BB)	deg.
Recovered 175 ft. of GAS IN Recovered 85 ft. of G.SWH Recovered 65 ft. of G.SWH Recovered 310 ft. of G.W&J Recovered 460 ft. of TOAL F Recovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of Recovered 230 ft. of Recovered 2400 ft.	ICH BLOW, B N PIPE HOCM, 3% GAS, HOCM, 2% GAS MCO, 6% GAS, FLUID INAL SHUT-IN E DIL, 19% WATER, M P.M. Tir Minutes	22% OIL, 75% N 3, 35% OIL, 7% 51% OIL, 24% CHLORIDES: 3 PH: 6.0 RW: .28 @ 54 DIDN'T LAST T 18% MUD me Started Off Bo	EACHING BOB AUD WATER, 54% MU WATER, 19% MU WATER, 19% MU B8,000 ppm 4 deg. HE WHOLD PERIO Dottom 5:46 PM	10 1/2 MIN. D D D D D D D D D D D D D D D D D D D	(V ice Job her Charges tal tal	VS BB)	
Recovered 175 ft. of GAS IN Recovered 85 ft. of G.SWH Recovered 65 ft. of G.SWH Recovered 460 ft. of TOAL H Recovered f	ICH BLOW, B N PIPE HOCM, 3% GAS, HOCM, 2% GAS MCO, 6% GAS, FLUID INAL SHUT-IN E NIL, 19% WATER, M P.M. Tir Minutes Minutes	22% OIL, 75% N 3, 35% OIL, 7% 51% OIL, 24% CHLORIDES: 3 PH: 6.0 RW: .28 @ 54 DIDN'T LAST T 18% MUD me Started Off Bo	EACHING BOB MUD 6 WATER, 54% MU 6 WATER, 19% MU 18,000 ppm 4 deg. HE WHOLD PERIO ottom 5:46 PM	10 1/2 MIN. D D D Pr Ot Ins D. Tot A.M. P.M. Maximu 1591 P.S.I. 27 P.S.I. to (C)	(V ice Job her Charges tal tal	VS BB)	
Recovered 175 ft. of GAS IN Recovered 85 ft. of G.SWH Recovered 65 ft. of G.SWH Recovered 460 ft. of TOAL H Recovered f	ICH BLOW, B N PIPE HOCM, 3% GAS, HOCM, 2% GAS MCO, 6% GAS, FLUID INAL SHUT-IN E NIL, 19% WATER, M P.M. Tir Minutes Minutes	22% OIL, 75% N 3, 35% OIL, 7% 51% OIL, 24% CHLORIDES: 3 PH: 6.0 RW: .28 @ 54 DIDN'T LAST T 18% MUD me Started Off Bo	EACHING BOB MUD 6 WATER, 54% MUI 6 WATER, 19% MUI 18,000 ppm 4 deg. HE WHOLD PERIO ottom5:46 PM (B) (D)	10 1/2 MIN. D D D D D D D D D D D D D	(V ice Job her Charges surance tal	VS BB)	J.
Recovered 175 ft. of GAS IN Recovered 85 ft. of G,SWH Recovered 65 ft. of G,SWH Recovered 310 ft. of G,WH Recovered 310 ft. of G,WH Recovered 460 ft. of TOAL F Recovered ft. of TOAL F Remarks: THE BLOW BACK DURING FI TOOL SAMPLE: 4% GAS, 59% O	ICH BLOW, B N PIPE HOCM, 3% GAS, HOCM, 2% GAS MCO, 6% GAS, FLUID INAL SHUT-IN E DIL, 19% WATER, MINUTES Minutes Minutes	22% OIL, 75% N 22% OIL, 75% N 5, 35% OIL, 7% 51% OIL, 24% CHLORIDES: 3 PH: 6.0 RW: .28 @ 54 DIDN'T LAST T 18% MUD me Started Off Bo 15 48	EACHING BOB AUD 6 WATER, 54% MUI 9 WATER, 19% MUI 18,000 ppm 4 deg. HE WHOLD PERIO 0ttom 5:46 PM (A) (B) (D) (E)	10 1/2 MIN. D D D Pri Oti Ins D. Tot A.M. P.M. Maximu 1591 P.S.I. 27 P.S.I. to (C) 773 P.S.I. 130 P.S.I. to (F)	(V ice Job her Charges surance tal	VS BB)	J.
Recovered 175 ft. of GAS IN Recovered 85 ft. of G.SWH Recovered 65 ft. of G.SWH Recovered 310 ft. of G.W&J Recovered 460 ft. of TOAL F Recovered ft. of TOAL F Recovered ft. of TOAL F Recovered ft. of TOAL F Recovered ft. of COAL F Recovered 10 ft. of COAL F Recovered 20 ft. of COAL F Recovered 10 ft. of COAL F Recovered 210 ft. of COAL	ICH BLOW, B N PIPE HOCM, 3% GAS, HOCM, 2% GAS MCO, 6% GAS, FLUID INAL SHUT-IN E NIL, 19% WATER, MAM P.M. Tir Minutes Minutes Minutes	22% OIL, 75% N 22% OIL, 75% N 5, 35% OIL, 7% 51% OIL, 24% CHLORIDES: 3 PH: 6.0 RW: .28 @ 54 DIDN'T LAST T 18% MUD me Started Off Bo 15 48 30 90	EACHING BOB AUD 6 WATER, 54% MUI 6 WATER, 19% MUI 18,000 ppm 4 deg. HE WHOLD PERIO ottom 5:46 PM (B) (C) (C) (G)	10 1/2 MIN. D D D D D D D D D Tot A.M. P.M. Maximu 1591 P.S.I. 27 P.S.I. to (C) 773 P.S.I. 130 P.S.I. to (F) 757 P.S.I.	(V ice Job her Charges surance tal m Temperal	VS BB) ture 97 125 p.s 218 p.s.i	

the use of its expupment, or its statement or opinion concerning the result of any lest. Tools lost or damaged in the hole shat be paid for at cost by the party for whom the best is made

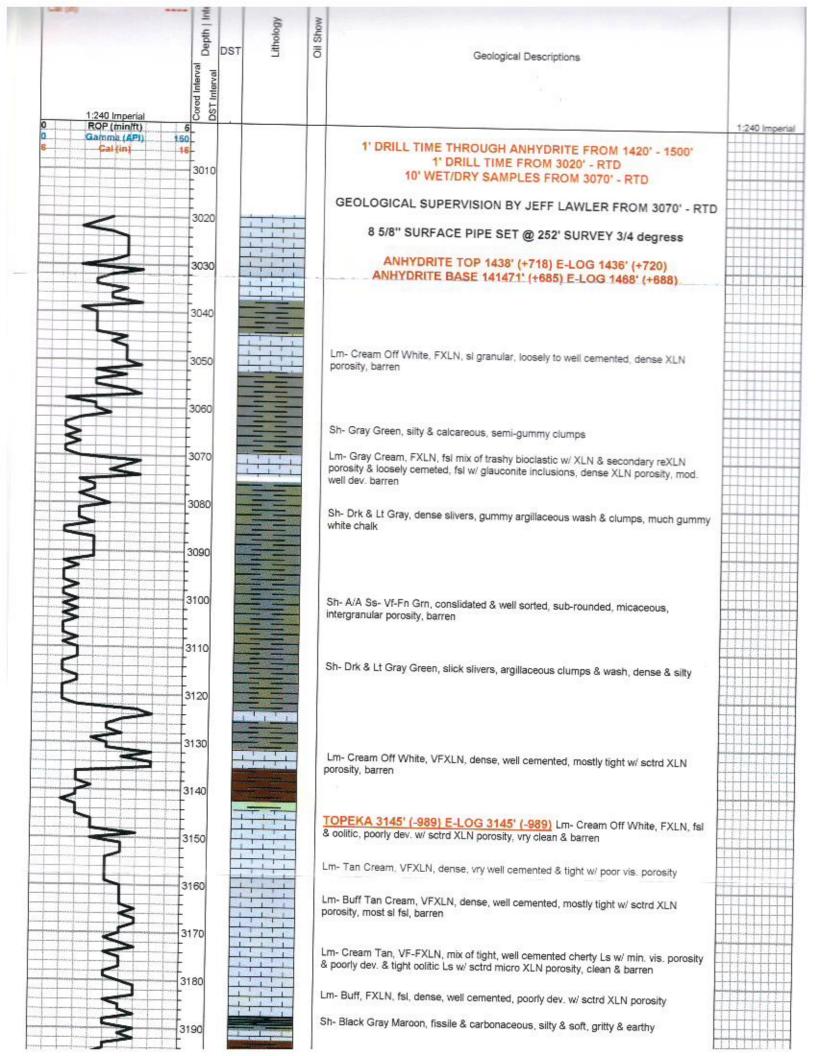
DST #3 ARBUCKLE 3647' - 3705'

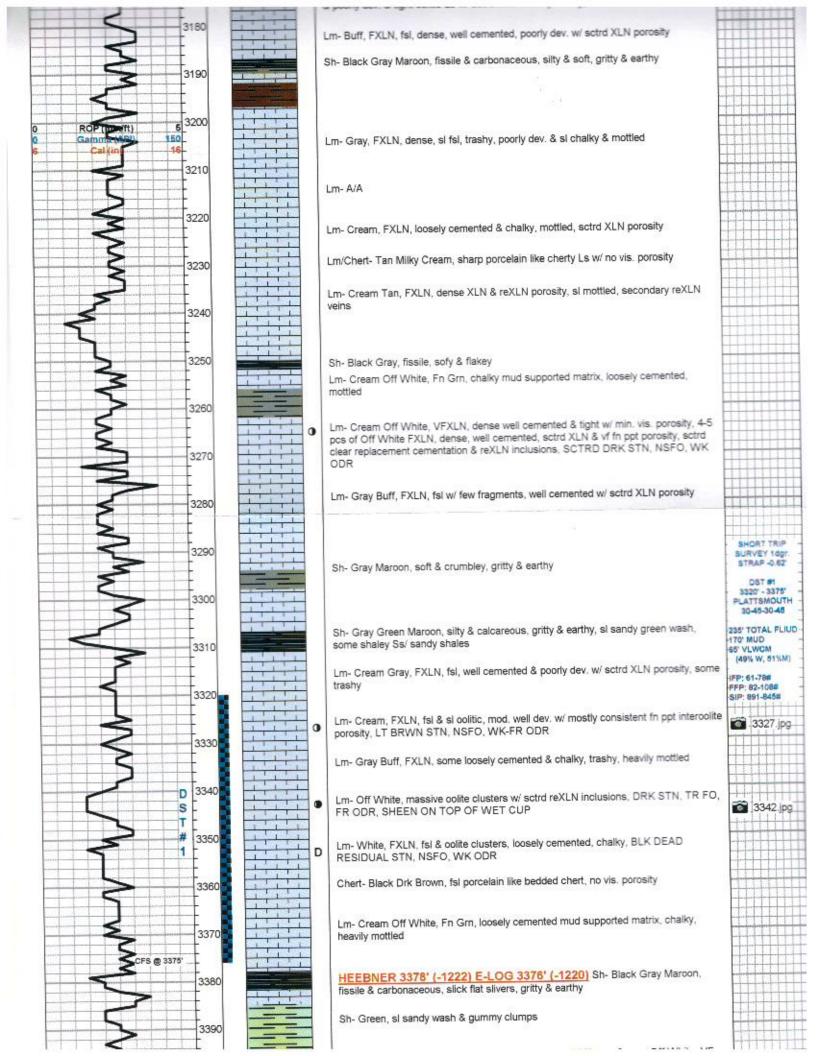
DIAMOND TRAFT

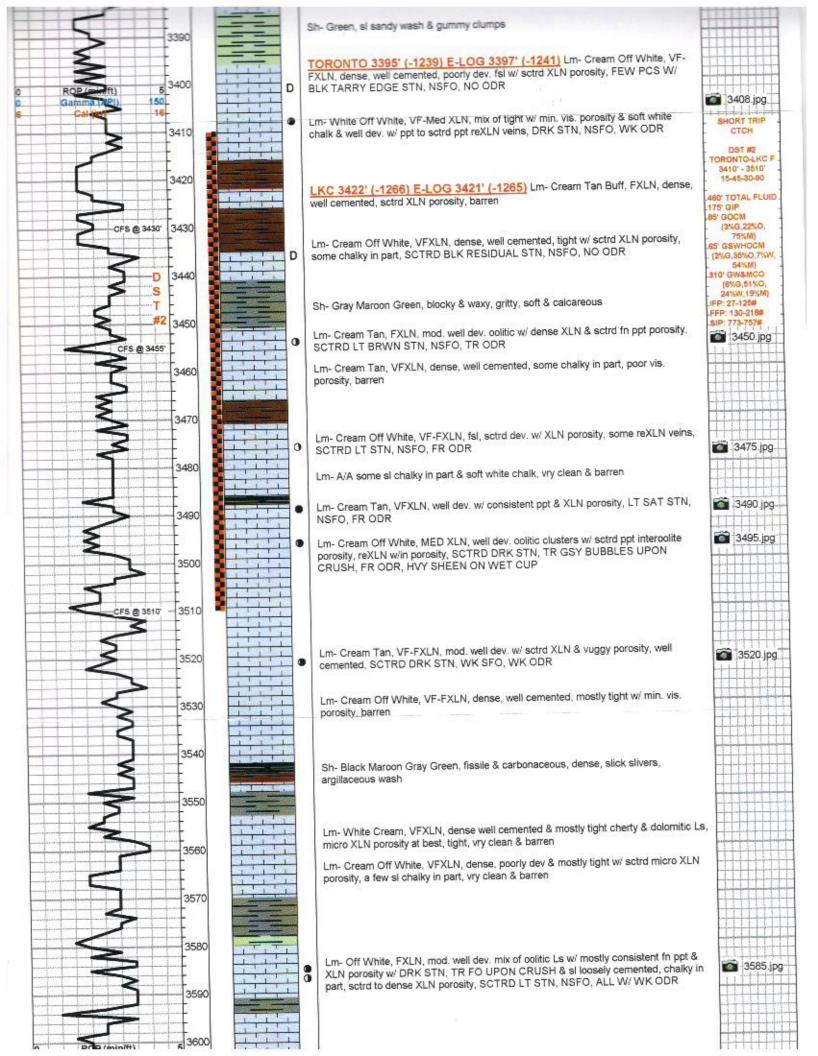
s of the

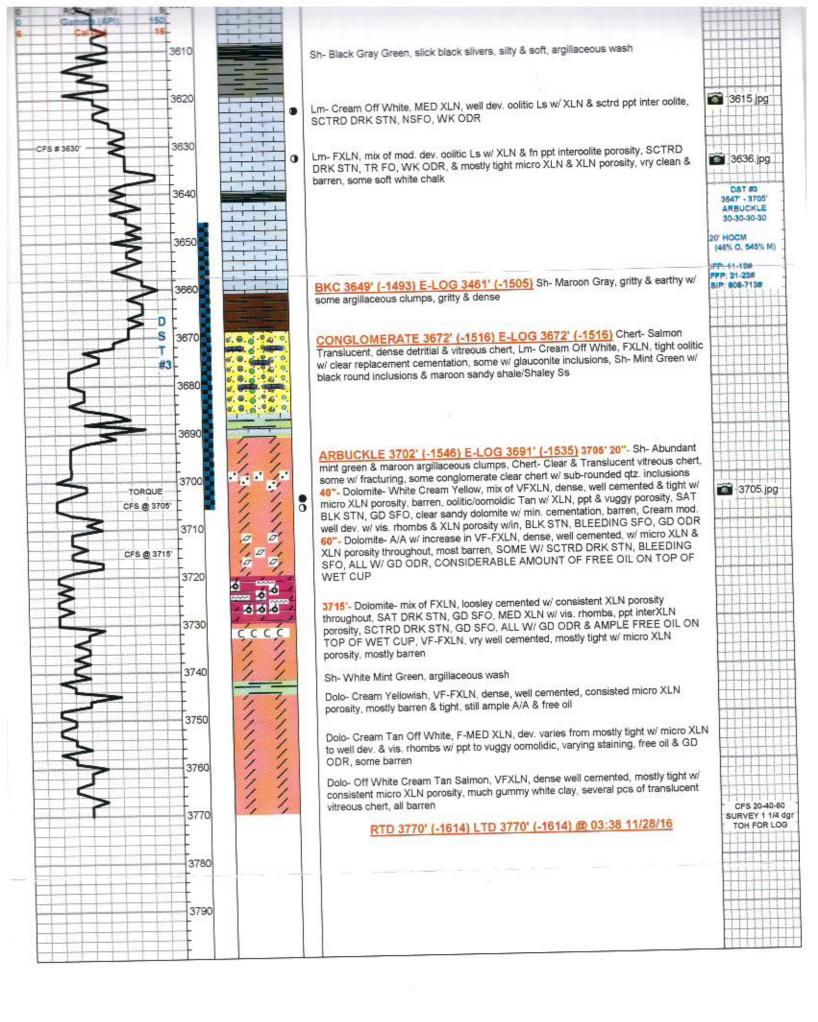
Final Hydrostatic Pressure			1589 P.S.L	
Diamond Testing shall not be lieble for damages of any kind t the use of its equipment, or its statement or opinion concernin	The property of personal of	f all a	the second se	sustained, directly or indirectly, thro any for whom the test is made
			11	
	ST #3 ARBUCK	LE 3647' - 3705'		
	P.O.	D TESTING	TIME ON	14:48
	HOISINGTON	542-7313		21:29
	DRILL-STE	M TEST TICKET	TIME OF	**************************************
Company JASON OIL COMPANY, LL		HOLD1DST3		
Contractor DISCOVERY DRILLING, INC.		Lease & Well No. A		
Elevation 2156 KB Formation	The second s	Charge to JASON of LE Effective Pay		Ticket No. T576
Date 11-27-16 Sec 3 Two.	12 S F		F 18 W County	ELLIS
Test Approved By JEFF LAWLER		Diamond Representati		M VENTERS
Formation Test No. 3 Interval Te	sted from 3	647 ft. to		
Packer Depth3642 ft. Size	6 3/4 in.	Packer depth	3705 ft. Total De	
Packer Depth 3647 ft. Size	6 3/4 in	Packer depth		Size 6 3/4 in.
Depth of Selective Zone Set		i acher deput	π	Size 6 3/4 in.
Top Recorder Depth (Inside)	3635 ft	Recorder Number	5504 Ca	5,000 P.S.I
Bottom Recorder Depth (Outside)	3702 _{ft.}	Recorder Number	11029 Ca	And a second s
Below Straddle Recorder Depth	ft.	Recorder Number	Car	
Mud TypeCHEMICAL_Viscosity	54	Drill Collar Length	and the second se	I.D2 1/4
Weight 8.7 Water Loss	7.6cc	Weight Pipe Length	212	I.D 2 7/8
Chlorides	7,000 P.P.M.	Drill Pipe Length		LD3 1/2
Jars: Make STERLING Serial Number		Test Tool Length		Tool Size 3 1/2-IF
Did Weil Flow? NO Reversed Out	Contraction of the Advancement	Anchor Length 32: DP IN ANCHOR	26 _{ft.}	Size 4 1/2-FH
Main Hole Size 7 7/8 Tool Joint Size	and the second s	Surface Choke Size	1in.	Bottom Choke Size 5/8
Blow: 1st Open: WEAK SURFACE BLO	W, BUILDING	TO 1 INCH.		(NO BB)
2nd Open: VERY WEAK SURFACE	the same the second sec	ING TO 1/4 INCH	4.	(NO BB)
Recovered 20 ft. of HOCM, 46% OIL, 54%				
Recoveredft. of		and the second se		
Recoveredft. of				
Recoveredft. of				
Recoveredft. of			Price	dop
Recoveredft, of			Other	Charges
Remarks:			Insur	ance
TOOL SAMPLE: 14% OIL, 86% MUD			Total	
Time Set Packer(s) 5:28 PM P.M.	Time Started Off Bot	ttom 7:28 PM	A.M.	Temperature 98 deg.
Initial Hydrostatic Pressure		1.75. C.S.	1720 P.S.I.	temperature
Initial Flow Period				19 _{P.S.I.}
Minut	es	(B)	11 P.S.I. to (C)	14001

	Recovered		t. of	_	_								
R	Recovered	1	t. of										
R	Recovered	n											
R	ecovered	ft	L of							1	Price Jo	h	
R	lecovered	ft	t. of							1			
Re	emarks:										Other C		
-											Insuran	CIE	
-	OOL SAMPLE	E: 14%	OIL, 86	% MUD	-						Total		
Tir	me Set Packer	(s)	5:28	PM	A.M. P.M.	Time St	arted Off Bo	ttom	7:28 PM	A.M. P.M.			09 dog
Ini	itial Hydrostatic	Press	ure					and the second se			Maximum Te	mperature	98 deg.
Init	itial Flow Perior	d			Mi	nutes	30	(B)		1720 P.S.			10
	itial Closed In P					1. S.	30	(D)		808 P.S.I	l. to (C)		19 P.S.I.
	nal Flow Period						30	(E)					2
	hal Closed In P						30			713 P.S.I	to (F)		3 P.S.I.
	hal Hydrostatic							(G)		100 C			
	Diamond Testing the use of its equic								and the second se	1718 PSI			
d	Chtoonal												
<u></u>	Chtcongl Dolprim			Dolse			shale, g			Carbon Sh shale, red	I		
<u></u> 						A		gry					
		Foss			fw7>	AC	CCESSO	RIES	TEXTURE				
ndy			SIL moldic		fw7>	STRINGE	CCESSO	RIES	FEXTURE C Chalky				
ndy	Dolprim				fw7>	STRINGE	CCESSO	RIES					
ndy hed rhom	Dolprim	6 Oo			fw7>	STRINGE	CCESSO	ary RIES	C Chalky				
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ndy hed rhom Daily Repo Digital Pho Document folder ink forizontal I ore Log F rill Cutting Curve Tra in/ft)	Dolprim	of Oo of Co of Co o	moldic		fw7>	STRINGE	CCESSO	ary RIES	C Chalky	shale, red		rsion 4.0.1	3.15 (www.grsi. Curve Track #
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andy uhed rhom Daily Repo Digital Pho Document Folder Link /ertical Log forizontal I Core Log F prill Cutting Curve Tra	Dolprim	of Oo of Co of Co o	T Int T alt] Lmst	fw7>	STRINGE	CCESSO	ary RIES	C Chalky	shale, red		rsion 4.0.3	3.15 (www.grsi. Curve Track #
ERAL andy whed rhom Daily Repo Digital Pho Document Folder ink /ertical Log forizontal I core Log F brill Cutting Curve Tra in/ft) (API)	Dolprim	bth Intervals	T Int T alt		fw7>	STRINGE	CCESSO	RIES	C Chalky	Shale, red		rsion 4.0.	8.15 (www.grsi. Curve Track #









QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Cell 785-324-1041

hone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665

No. 3079

		1.1.1				
Sec.	Twp. Range	199 (J. 199	County	State	On Location	Finish
Date 1-21.16 3	12 18	Þ	15	KS		3:00m
		Locat	ion Hauls V	25+. Andrewich	1/20 Einto .	
Lease Arnhold	Well No. 1		Owner			
Contractor Discover # 21	1-		To Quality C	Vilwell Cementing, Inc.	oomenties en isses	A
Type Job Surface			cementer ar	eby requested to rent ad helper to assist owr	cementing equipmen her or contractor to di	t and turnish o work as listed.
Hole Size 1214	T.D. 253		Charge "	Joson Q1		
Csg. 85/8	Depth 252		Street			-
Tbg. Size	Depth		City	с <u>,</u>	State	
Tool	Depth			as done to satisfaction ar		agent or contract
Cement Left in Csg. 10	Shoe Joint	5 8	- 100 E 100 E	ount Ordered 160		IIE!
Meas Line	Displace 15 1/2	ZRI	1.1	190	120 31-02 2	1. CORC
and the second se	MENT	-0-	Common	30		
Pumptrk 18 No. Cementer	Pairs		1	-	4	
No. Driver	ex/ker			50	State of the second second	
No. Driver	eller		Gel. 3	/	. bailte det anna anna anna anna anna anna anna an	
JOB SERVICES			Calcium 6	2		
	S & AEMAANS		Hulls	<u> </u>		
Remarks:			Salt		9	
Rat Hole			Flowseal			
Mouse Hole			Kol-Seal			
Centralizers			Mud CLR 48	l		
Baskets			CFL-117 or (CD110 CAF 38		
D/V or Port Collar	$-\Lambda$		Sand	in the		1
8 Bon Dottom	Est (in what's	w A	Handling /	69	Marine Commence	
Mix Hoosky DE	Nacl		Mileage		gant in the same	
114				FLOAT EQUIPME	NT	
Cament Cirale	tech		Guide Shoe	and the second of the second s		
the second states and a	c		Centralizer	682 1036 M		1.11
	<u></u>		Baskets	S. (30)	- 1 Mar 1 - 1	(199 ⁴⁾ (1977) (1977)
	and bride	a in	AFU Inserts		5	
	Card and a second se	Q.	Float Shoe	/ \ / J \	(freedo)	-
	1998 B 2 60	J.	Latch Down			
					1943 - A. A. A.	
	13 100	600	1. 11-12 ·	TIPS /		. t
Sec. 1	15.011	A Const	Pumptrk Cha	ree C Alta	e	
- mort Well			Mileage /	DSurrac		
	17 12 I				Tax	
	A				Discount	
Signature Champan	10^{-1}		1 98 -		Total Charge	
ignature Lage II and	ing				iotal onalge	

in the second second second

785-483-2025	Home Office P.O	Box 32 Russell, KS 67665 No. 3
Date 11-28-16	ec. Twp. Range	County. State On Location
Norman enter an	Lo	cation Hays 91/20 E into
Lease Ambold	Well No./	Owner
Contractor Di Scover	, , , , , , , , , , , , , , , , , , , ,	To Quality Olivell Cementing, Inc.
Type Job Production 5		 You are hereby requested to rent cementing equipment and cementer and helper to assist owner or contractor to do woll
Hole Size 778	T.D. 3770	Charge O.
Csg. 512		
Tbg. Size	Depth 376.5.	Street
1) 1:	Depth	City State
Tool fort Caler	Depth 2035	The above was done to satisfaction and supervision of owner agen
	42 Shoe Joint 33.42	Cement Amount Ordered 180 101-Salt 57 Coilso
Meas Line	Displace 8612BL	Stogal mud Cled
I To No Cementer	UIPMENT	Common 180
Pumptrk No. Helper	Trais	Poz. Mix
Bulktrk Driver		Gel.
Bulktrk 1.5 No. Driver	Jua	Calcium
JOB SERVI	CES & REMARKS	Hulls
Remarks:		Salt 17
Rat Hole 205K		Flowseal
Mouse Hole 155K		Kol-Seal 7.50 tt
Centralizers		Mud CLR 48 500 col
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		
5/2 600 234	- 2 Mar mar	Sand
EL THE SIL	3. Dattile 3/32	Changing CC
Di Grandition		Mileage
Philes Katholes may	A CONTRACTOR OF	FLOAT EQUIPMENT
- Cement 5/2W	th 1355K.	Guide Shoe Port Cerlar
- Clear Linese Di	splace Phy.	Centralizer & Turbol S
1 000000		Baskets 7
Litt pressure	- <u>800</u> 7	AFU Inserts
Land Shing Sipssure	- 150A	Float Shoe
		Latch Down
	<u></u>	
	CAPAN P	2 Press 4 1 Press Vered
	1111229	Pumptrk Charge Dord Storing
		Mileage 10
		Tax
	•	Discount
X Signature	11)	Total Charge

QUALITY OILWELL CEMENTING, INC. Federal Tax 1.D.# 20-2886107

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

No. : (Or

one 785-483-2025 ell 785-324-1041

Date /-/0 -///	Sec. Twp. 3 /2	Range / Ş		County ///S	State	On Location	Finish 4:00 pm
Acusta			Locat	ion Hay	15 9/2 N	Einto	1.001
Lease Arnol	W	ell No. /		Owner			
Contractor Ca. Tox	3/3			To Quality Oilw	vell Cementing, Inc.	- martin	
Type Job Part Co	s/lar			Cementer and	/ requested to rent helper to assist own	cementing equipment	and furnish work as listed
Hole Size 51	2 T.D.			Charge C	ASON O	al	- Hone do hatou.
Osg. 72	Depth			Street			
Tbg. Size	Depth			City		State	
Tool	Depth				tone to satisfaction ar	nd supervision of owner	adent or contractor
Cement Left in Csg.	Shoe Joi	nt		Cement Amour	nt Ordered 40	28/20 DW	2DC. La
Meas Line	Displace			070	30 min c	d- 1806	in the st
	QUIPMENT	A	~	Common //	10	10019	e tp get
Pumptrk 18 No. Cemente	ər	Das	e -		0		
Bulktrk / 5 No. Driver		Stan		Gel. 1.3			
Bulktrk No. Driver Driver		Tin	~	Caleiom 400	2 ho Qmp	-	
JOB SERV	ICES & REMARI	(S		Hulls	120 Grain	<u> </u>	
Remarks:				Salt			
Rat Hole			1		OH		
Mouse Hole				Kol-Seal	- A		
Centralizers				Mud CLR 48			
Baskets				CFL-117 or CD	110 CAE 38		
D/V or Port Collar	2035		-	Sand			
Ciroil Ou	8 of N	sle	A.	Handling 22	20		
opened my	collow 1	MIXED		Mileage			
4 512 00 +	o botto			micugo	FLOAT EQUIPME	NT	weeks.
mixed 3000 V		irculo	Aina?	Guide Shoe	TEOM EGON ME		
nixed 2000	Leh da	1 caroo	z <i>ienc</i>	Centralizer			National Society of Society of Society
Mixed 100 5	- SAM CA	lour)	- 24	Baskets			
MILEA 1805	620 416	nel		AFU Inserts			
4 Got CIV	cul Dine	P Pinday	A	Float Shoe		1 Contra 1	
to Surface		Carrien	3	Latch Down	11 11 11 1 1		
				Laton Down			
		Contraction of	15000	Calence of		144.88	
	083			Pumptrk Charge		Mar	
				Mileage 10	1 5	1.1.1 ⁹	
		5		1 -		Tax	
~						Discount	
X Signature						Total Charge	

	Scale 1:240 Imperial			
Formation:	ARNHOLD #1 NW SE NW Section 3 - 12S - 18W 15-051-26852 33813 11/21/2016 ELLIS COUNTY KANSAS 11/28/2016 1745' FSL & 835' FWL 2148.00ft 2156.00ft 3000.00ft 3770.00ft LANSING - KANSAS CITY; ARBUCK	Time: Time: To: KLE	9:00 AM 3:38 AM 3770.00ft	
		adiction.		
Company: Address: Contact Geologist: Contact Phone Nbr: Well Name: Location: API: Pool: State:	OPERATOR JASON OIL COMPANY, LLC 3718 183RD ST P.O. BOX 701 RUSSELL, KS 67665 SHELDON WEIGEL (785) 483-4204 ARNHOLD #1 NW SE NW Section 3 - 12S - 18W 15-051-26852 KANSAS	Field: Country:	N/A USA	
	SURFACE CO-ORDINATES			
Well Type: Longitude: Latitude: N/S Co-ord: E/W Co-ord:	Vertical -99.3124891 39.0354506 1745' FSL 835' FWL			4.
[LOGGED BY			
	BIG CREEK CONSULTING			
Company: Address:	BIG CREEK CONSULTING, INC. 1909 MAPLE ELLIS, KS 67637	2 21	164 NºCoy 56 Juson	3626 3620 K
Phone Nbr: Logged By:	(785) 259-3737 GEOLOGIST	Name:	JEFF LAWLER	
	CONTRACTOR			
Contractor: Rig #:	DISCOVERY DRILLING			
RIG #	1 MUD ROTARY			

			Logge	ed By:	GE	OLO	GIST					N	lame:	JE	FF LA	WL	ER				
									RAC	TOR					2.5.5						
			Contra	actor: Rig #:	DIS 1	SCOV	/ERY	DRIL	LING												
				Type:			DTAR	V					3.1								
			Spud			21/20		I				24	-								
				Date:		28/20							Time:		0 AM						
		R	ig Rel			28/20							Time:		8 AM						
			ig iten	case.	11/4	20/20	10						Time:	8:0	0 PM						
								ELE	ATIO	NS								-			-
		K.B	. Eleva	ation:	215	56.00	ft			Gr	hund	Flow	ation:	214	0 004						
			to Gro		8.0					Q1	ounu	LIGAS	auon.	214	8.00f	τ					
	-								-							_		_	_		
									OTES	2								-			
								IN I	DIEO												
DUE TO	THE	ECON	OMICA	AL RE	COVE	ERY		ST #	THE	DEC	ISIO		SMA	DE TO		NE	1/01 1		-	OTIC	
DUE TO CASING	THE	ECON FURTI		AL RE				ST #	THE	DEC	ISIO		SMA	DE TO	O RU	N 5	1/2" 6	PRC	DDU	стіс	N
DUE TO CASING	THE	ECON FURTI	OMIC/ HER E	AL RE	COVE	ERY (ZONE	ON D: ES OF	ST #	THE	DEC		N WA	S MA	DE TO ON	O RU	N 5	1/2" (PRC	DDU	СТІС	N
DUE TO CASING	THE	ECON FURTI	OMICA HER E	AL RE VALU	COVE	ERY (ZONE	ON DE	ST #	THE	DEC		N WA	S MA	DE TO ON	O RU	N 5	1/2"	PRC	DDU	СТІС	N
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DUE TO CASING	AND	ECON	OMIC/ HER E	AL RE	COVE	ERY (ZONE	ON D: ES OF	ST #	2 THE ERES			COMF		ON.		N 5	1/2"	PRO	DU	стіс	N
DUE TO CASING	AND	ECON	OMIC/ HER E	AL REI	COVE		-5 UF	ST #2 F INT	2 THE ERES			LY S		ON.		N 5	1/2"	PRC	DU	СТІС	DN
DUE TO CASING	AND	ECON	OMICA HER E	AL REI VALU		WE		ST #2 INT	RES			LY S LAWI		ON.		N 5	1/2"	PRO			
DUE TO CASING	AND	ECON	OMICA HER E	AL REI		WE		ST #2 INT	RES			LY S LAWI		ON. TTED	48-56		1/2" F			• PPET. COMP	
DUE TO CASING		ARNIS	010#1	AL REI VALU				ST #2 - INT OMP	RES			LLY S LAWL			4.8-56	Ю.	1/2"		MCCOYI	PET. CORP R5 M 42-3	A
DUE TO CASING	KE	ARNIH 2156		VALU.	KB	WE HOLLOW BENE	ELL C B DRILLING (SIEL B-1 WY 5-12-18 2185	OMP	RES ARIS			LY S LAWL			48-56	Ю.			MCCOYI	PET. COMP R5 M 42-3 45 3-12-1	A
	KE	ARNIS		2148 LETOPS	KB COMP		ELL C B DRILLING (SIEL 8-1 W 3-12-16 2143 LOS	ST #2 - INT OMP							2.8-56 1.6.GAS, IN ACHER#1 WW \$ 12-10 2108 1.06	Ю.		s B DMP, Cd	MCCOY I WALTER	PET. CORP R5 M 42-3	8
FORMATION ANHYDRITE TOF	KE LOG DEPTH 3436	ARNIH 2156 TDPS GATUM 720	OLD #1 GL 34MPP DEPTH 1438	VALU.	KB	WE HOLLOW BENE	ELL C B DRILLING (SIEL B-1 WY 5-12-18 2185		RES ARIS						, 4.8-56 1.6.665, IN 4.CHER #1 1W \$-12-11 2198	HC.	K Mar. CO	B B DMP. C.	MCCOY I WALTER SW SW N	PET. CORP R5 M #2-3 45 3-12-1 2-169 LOG CORP	8
FORMATION ANHYDRITE TOP BASE	KE LOG CEPTM 1468	АЛЛИН 2156 ТОР5 САТИА 720 688	OLD #1 GL 3AMPP DEPTH 1438 1471	2148 ETOPS DATUM 718 685	KB COMP DEPTH 1455	WE HOLLOW BENE NESWS	ELL C B DRILLING DRILLING SORE - 10								2.8-56 1.6.GAS, IN ACHER#1 WW \$ 12-10 2108 1.06	IC. 8	к. Со В. ОБРТ 143	B B DMP, C H D A	MCCOY I WALTER SW SW N ARD ATUM 735	PET. CORR TS M 42-3 ef 3-12-1 2169 LOG CORR - 15	8
FORMATION ANHYDRITE TOP BASE TOPEKA	KE LOS DEPTH 1436 3145	АЛХН 2156 ТОР5 ДАТИМ 720 688 983	010 #1 GL 34MPP 1438 1471 3145	2148 27095 DATUM 218 585 -389	NB COMP DEPTH 1455 3154	WE HOLLOW RENE CARD CATUM 730	ELL C B DRILLING (GIEL 8-1 105 105 105 105 105 105 2185 105	COMP	RES RES ARIS COMPTN 1480 1480 3130	DEC T UP SPEC J ON S JOHN NENES CARD DATUM 1573 977	PON C TFUL EFF 1 HEET B DBL COMP2 SSON #5 SSON	SMPL SMPL SMPL SMPL SMPL SMPL SMPL SMPL			3 8-56 6 GAS, IN A CHER #1 IW \$ (2-1) 2198 106 COBR	8 SMP COR	144	8 8 DMP, C, C 8 4 8 8 8	MCCOY WALTER SW SW A ARD ATUM 735 701	PET. CORE R5 M 82-3 45 3-12-1 2169 LOG CORE CORE CORE 13	8 5 5
FORMATION ANHYDRITE TOP BASE	KE LOG CEPTH 1435 1465 3145 3376	ARNIA 2156 TOPS GATUM 720 638 983 -1220	010 #1 GL 34MP- DEPTH 1438 1451 3378	2148 ETOP5 DATUM 218 585 -989 -1222	KB COMP DEPTH 1455	WE HOLLOW BENE NESWS	ELL C B DRILLING DRILLING SORE - 10	COMP	RES RES ARIS 0 0000 1436 33360	DEC T UP SPEC J ON S VINCENT C JOHR NENES CARD DATURN 717 573 9777 -1235	PON C TFUL EFF I HEET B COMPA VSON AS VSON AS	COMF LAWL COMF SMPL CORF CORF CONF CONF CONF CONF CONF CONF CONF CON			2.8-56 1.6.GAS, IN ACHER#1 WW \$ 12-10 2108 1.06	IC. B COR	к. Со В. ОБРТ 143	5 8 00MP.C. 1 4 1 5 3 3	MCCOY I WALTER SW SW N ARD ATUM 735	PET. CORR TS M 42-3 ef 3-12-1 2169 LOG CORR - 15	8
FORMATION ANHYDRITE TOP BASE TOPEKA HEEDNER	KE LOS DEPTH 1436 3145	АЛХН 2156 ТОР5 ДАТИМ 720 688 983	010 #1 GL 1438 1471 3145 3378 3395	2148 ETOPS DATUM 718 585 989 -1222 -1239	48 COMP 26977 1455 3154 3416	WE MOLLOW BENE SCAND CAND CAND CATUM 730 -969 -1231	ELL C B DRILLING C GIEL 8-1 W 9-12-16 CORE CORE CORE CORE 200 + 11	OMP - 122 - 20 - 22 - 20 - 22	RES RES ARISO 6005 00711 1436 1480 3386 3408	DEC T UP PEC J ON S ON S ON S ON S ON S ON S ON S ON S	PON C TFUL EFF HEET 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	COMF LAWL CORF. SMPL CORF. SMPL CORF. SMPL SMPL SMPL SMPL SMPL SMPL SMPL SMPL	KB COM COM COM COM COM COM COM COM COM COM	0N. TTED 98.4 05408001 50HUM 50HUM 904TUM 908 -1222	2 8-56 8 6A5 IN ACHER #1 109 109 109 109 109 109 109 10	IC. B COR	K 31. Co 14: 14: 14: 14: 14:	8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	MCCOY I WALTER SW SW N ARD ATUM 735 701 -984	• PET. CORE R5 M 42-3 ef 3-12-2 2169 LOG CORE - 15 15 5 5	8
FORMATION ANHYDRITE TOP BASE TOPPEKA HEEDNER TOROUTO LISC BKC	KE DEPTH 1436 1408 3176 3376	ARNIH 2156 DPS CATUM 720 688 989 1220 1241	010 #1 GL 34MP- DEPTH 1438 1451 3378	2148 ETOPS DATUM 718 989 -1222 -1239 -1266	41 E 2 48 COMP DEPTM 1455 3154 3416 3450	WE HOLLOW BESNE CARD DATUM -969 -1231 -1275	ELL C B DelLING GIEL 8-1 2183 LOS SOPR. - 20 - 11 - 20 - 11 - 10	ST #2 INT OMP CO SMPC. CONR. CO	2 THE ERES RES ARIS(ARIS) 00711 1436 3480 3388 3480 3388 3483	DEC T UP PEC J ON S VINCENT ON S VINCENT S J ON S VINCENT S S S S S S S S S S S S S S S S S S S	PON C TFUL EFF HEET B E COMPA 2153 2153 2153 2153 2153 2153 2153 2153	COMF LLY S LAWI SMPL CORR. - 12 - 12 - 13 - 16 - 13 - 16 - 13	COM KB COM COM COM COM COM COM COM COM		2 8-56 8 6A5 IN ACHER #1 109 109 109 109 109 109 109 10	IC. B COR	144 21 31 344 2 343	P S B DMP.C. H DAP.C. S B DMP.C. S S S S S S S S S S S S S S S S S S	MCCOY 11 WALTE SW SW N ARD 735 701 -984 -2216 -1285 -1261	PET. CORR 55 M #2-3 45 - 12-1 2169 LOG CORR - 15 - 13 - 5 - 4	8
FORMATION ANHYDRITE TOP BASE TOPEKA HECENER TORONTO LKC. BKC CONGLOMERATE	KE DEPTH 1436 3145 3376 3397 3497 3497 3497 3497 3497	ARAH 2156 TOPS GATUM 720 638 983 -1220 -1741 -1255	OLD #1 GL 3AMPP DEPTH 1438 1471 3345 3395 3395 3422	2148 ETOPS DATUM 718 585 989 -1222 -1239	48 COMP 26977 1455 3154 3416	WE HOLLOW BENE CARD CARD CATUM 730 -969 -1231 -1275 -1519	ELL C B DRILLING (GIEL 8-1 105 105 105 105 105 105 105 105 105 10	COMP COMP CO CO CO CO CO CO CO CO CO CO	RES RES ARISO 6005 00711 1436 1480 3386 3408	DEC T UP PEC J ON S ON S ON S ON S ON S ON S ON S ON S	PON C TFUL EFF HEET 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	COMF LAWL CORF. SMPL CORF. SMPL CORF. SMPL SMPL SMPL SMPL SMPL SMPL SMPL SMPL	COM KB COM COM COM COM COM COM COM COM	0N. TTED 98.4 05408001 50HUM 50HUM 904TUM 908 -1222	A 8-56 L 6.GAS, IN ACHER#1 2108 CORK CORK CORK	IC. B COR	8. Cer 14. 24 21. 31 0. 330 340 342 343 362	P S DMP.c. H DA 34 58 53 55 - 55 - 50 - 50 - 50 - 50 - 50 - 5	MCCOY 1 WAITES W SW N ARD ATUM 703 703 -984 1216 1235 1261	PET.CORS 55 M 82-3 45 3-12-1 2189 LOG CORS - 15 15 - 15 - 4 - 6	8 5 5
FORMATION ANHYDRITE TOF BASE TOPENA HELENER TORONTO LKC BKC CONGLOMERATE ARBUCKLE	KE LOO DEPTH 1436 1468 31376 3397 3421 3672 3601	ARNIH 2156 DDP5 CATUM 720 688 983 -1220 -1241 -1265 -12265 -1516 -1535	010 #1 GL 1438 1471 1438 1471 1438 1471 3375 3395 3395 3395 3422 3542 3542 35702	2148 ETOP5 DATUM 718 585 989 -1222 -1239 -1239 -1246 -1493 -1516 -1546	KB COMP DEPTH 1455 3154 3416 3450 3704	WE HOLLOW BESNE CARD DATUM -969 -1231 -1275	ELL C B DelLING GIEL 8-1 2183 LOS SOPR. - 20 - 11 - 20 - 11 - 10	COMP COMP CO CO CO CO CO CO CO CO CO CO	2 THE ERES RES ARIS(ARIS) 00711 1436 3480 3388 3480 3388 3483	DEC T UP PEC J ON S VINCENT ON S VINCENT S J ON S VINCENT S S S S S S S S S S S S S S S S S S S	PON C TFUL EFF HEET B E COMPA 2153 2153 2153 2153 2153 2153 2153 2153	COMF LLY S LAWI SMPL CORR. - 12 - 12 - 13 - 16 - 13 - 16 - 13	UBMI ER KB COM DEPTH 3166 1 3466	ON. TTED P&A OSA08C01 SCHUM SW SW 1 P. CARD DATUM -908 -1222 -1258	A 8-56 L 6.GAS, IN ACHER#1 2108 CORK CORK CORK	IC. B COR	8 6 3 6 000 14 14 21 31 0 33 540 2 343 366 366 366	5 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MCCOY 1 WALTER SW SW N ARD ATUM 733 701 738 4 2216 1235 1261 1235 1261 1351	• EFT. CORE EST ME2-3 21499 - 15 - 15	
FORMATION ANHYDRITE TOP BASE TOPEKA HECENER TORONTO LKC. BKC CONGLOMERATE	KE DEPTH 1436 3145 3376 3397 3497 3497 3497 3497 3497	ARXIII 2156 DPS DATUM 720 -1265 -1205 -1255 -1255 -1255 -1516	OLD #1 GL 3AMP DEPTH 1435 3145 3378 3395 3422 3549 3672	2148 ETOPS DATUM 218 -389 -1222 -1239 -1222 -1239 -1269 -1293 -1516	KB COMP DEPTH 1455 3154 3416 3450 3704	WE HOLLOW BENE CARD CARD CATUM 730 -969 -1231 -1275 -1519	ELL C B DRILLING (GIEL 8-1 105 105 105 105 105 105 105 105 105 10	COMP COMP CO CO CO CO CO CO CO CO CO CO	2 THE ERES RES ARIS(ARIS) 00711 1436 3480 3388 3480 3388 3483	DEC T UP PEC J ON S VINCENT ON S VINCENT S J ON S VINCENT S S S S S S S S S S S S S S S S S S S	PON C TFUL EFF HEET B E COMPA 2153 2153 2153 2153 2153 2153 2153 2153	COMF LLY S LAWI SMPL CORR. - 12 - 12 - 13 - 16 - 13 - 16 - 13	COM KB COM COM COM COM COM COM COM COM	0N. TTED 98.4 05408001 50HUM 50HUM 904TUM 908 -1222	A 8-56 L 6.GAS, IN ACHER#1 2108 CORK CORK CORK	IC. B COR	8. Cer 14. 24 21. 31 0. 330 340 342 343 362	5 8 00MP.C. 14 024 53 55 	MCCOY 1 WAITES W SW N ARD ATUM 703 703 -984 1216 1235 1261	PET.CORS 55 M 82-3 45 3-12-1 2189 LOG CORS - 15 15 - 15 - 4 - 6	8 8 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

	P.Q.	D TESTING Box 157 KANSAS 67544	TIME ON:	12:27	
	(800)	542-7313 M TEST TICKET	TIME OFF:	19:20	
Company_JASON OIL COMPANY, LLC Contractor DISCOVERY DRILLING, INC., RIG		Lease & Well No.			
			OIL COMPANY, LLC		
Elevation 2156 KB Formation	PLATTSMOUT	TH Effective Pay	Ft.	Ticket No.	T574
Date 11-25-16 Sec 3 Twp Test Approved By JEFF LAWLER				LLIS State	KANSAS
Test Approved By VETT ERVILEN		Diamond Representa	tiveTIM	VENTERS	
Formation Test No. 1 Interval Tested	from3	320 ft. to	3375 ft. Total Dep	th	3375 ft.
Packer Depth3315 ft. Size6 3	3/4 in.	Packer depth		Size 6 3/4	in.
Packer Depth 3320 ft. Size 6.3	1/4 In.	Packer depth		Size 6 3/4	in.
Depth of Selective Zone Set	THE OWNER WATER				
Top Recorder Depth (Inside)	3308 ft.	Recorder Number	5504 Cap.	5,00	0 P.S.I.
Bottom Recorder Depth (Outside)	3372 ft.	Recorder Number_	11029 Cap	and the second se	25 P.S.I.
Below Straddle Recorder Depth	ft.	Recorder Number	Cap.		P.S.I.
OLI EN LI DA LI	48			22	
Mud Type CHEMICAL Viscosity	40	Drill Collar Length	Oft. I.	D. 2 1/	4 in.

Top Recorder Depth (In:	side)		3308 ft	-						_
Bottom Recorder Depth					order Number		5504 Ca		5,000 P.S.	Ē,
Below Straddle Recorde			3372 n.	Rec	order Number	10 1	11029 Ca	ар	5,025 P.S.	I.
	ICAL Visc		ft	Rec	order Number		Ca	p	P.S.	I.
Weight 8.8			48	_ Drill	Collar Length		O ft.	I.D	2 1/4	in
Chlorides	Water L	085		cc. Weig	ght Pipe Lengt	h	312 ft.	I.D.	2 7/8	
Jars: Make STERLIN			7,000 P.P.M.	Drill	Pipe Length		2982 R.	1.D	3 1/2	ie
	NO	Number		Test	Tool Length		26 ft.	Tool Size	3 1/2-IF	-
Did Well Flow?	and the state of t	leversed Out	NO		IN ANCHOR		23 ft.	Size	4 1/2-FH	
Main Hole Size 7 7/8	T	ool Joint Size	4 1/2 XH in	Surfa	Choke Size	e <u> </u>	in.	and the second sec	oke Size 5/8	
Blow 1st Open: WEAL	K 3/4 INC	H BLOW,	BUILDING	TO 3	1/2 INCH	ES.		Training and the second	D BB)	-
2nd Open: WEAK	SURFA	CE BLOW,	BUILDING T	041	ICHES.				D BB)	-
	of DRILLING							(14)	J DDj	_
Recovered 65 ft. d	HWCM,	49% WATER,	51% MUD							-
	TOTAL F									
Recoveredft.c	of									
	of		CHLORIDES: 2	2 000 n	0m					
	f		PH: 6.0	1,000 P	Pin		Price	Sec. 2		
Remarks:			RW: .36 @ 58	nah 8			Other	Charges		
WE SLID ABOUT 8-10	FEET WH	EN SETTIN	TOOL AND	T KED	LOOMON	(FLOUIN	Insura	ance		-
TOOL SAMPLE:64% W	ATER, 36%	UD	FICOL, AND	TREP	LOSINGW	EIGHT.	-			
ime Set Packer(s)	2:32 PM	A.M.			5 00 PM	AM	Total			
			me Started Off Bi		5:02 PM		Maximum 1	Temperatu	e 96 deg.	-
itial Hydrostatic Pressure				(A)_		1560 P.S.	I.			
litial Flow Period			the set and some other than the set of the s	(B)		61 P.S.	I. to (C)		78 P.S.I.	
itial Closed In Period			THE REAL PROPERTY OF A DESCRIPTION OF A	(D)	And Party in Laboratory	891 P S				
nal Flow Period			The second s	(E)		82 P.S.I	to (F)	1	08 P.S.I.	
nal Closed In Period			CONTRACTOR OF THE OWNER	(G)		845 P.S.I			Cashi,	
nal Hydroetatic Dransure				(H)		1547				
Diamond Testing shall not be lia the use of its equipment, or its of			the second s	A		P. 0.				

DST #	2 TORONTO - LKC F 3410' - 3510'	
	DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544	TIME ON: 11:41
A A	(800) 542-7313 DRILL-STEM TEST TICKET	TIME OFF: 20:21
Company JASON OIL COMPANY, LLC Contractor DISCOVERY DRILLING, INC., RI	Lease & Well No. ARNHOLD	
Elevation 2156 KB Formation	TORONTO-LKC "F" Effective Pay	
Date 11-26-16 Sec. 3 Twp Test Approved By JEFF LAWLER	12 S Range 18 W Cou Diamond Representative	TO TIGNOT TAD.
Formation Test No. 2 Interval Teste Packer Depth 3405 ft. Size 6		t. Total Depth3510 ft.



DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313 DRILL-STEM TEST TICKET FILE: ARNHOL D1DST2

TIME ON: 11:41

TIME OFF: 20:21

V		FILE: A	RNHOLD1DST2					
Company JASON OIL CO	OMPANY, LLC	0	Lease & Wall					
	CLUNG, INC., P	TIG #1	Charge to 141	SON OIL COMPA				
Elevation 2156 KB	Formation	TORONTO-LI	KC "F" Egention					
Date 11-26-16 Sec.	3 Twp	12	Effective Pay_		F	t Ticke	t No	T575
Test Approved By JEFF LAWLE	R		s Range	18 W Cour		ELLIS	State	KAN
Formation Test No. 2			Diamond Repres	entative	TI	M VEN	TERS	
Formation Test No. 2 Packer Deoth	3405	sted from	3410 ft. to	3510 _{ft.}	Total De	pth		3510
	T. Size	<u>0 3/4</u> in	Packer depth_		ft.	Size	6 3/4	in
Depth of Selective Zone Set	3410 ft. Size	6 3/4 in	Packer depth			Size_		in
Top Recorder Depth (Inside)		2208						
Bottom Recorder Depth (Outside		3398 ft	Lesson and Lening	er	5504 Cap		5,000	PS
Below Straddle Recorder Depth	and the second se	3507 ft.	Recorder Numb	er1	1029 Ca	p	5,025	PS
	And the second s	h.	Recorder Numb					P.S.
		68	Drill Collar Leng	th		and the second se	2 1/4	
V A	iter Loss	7.2	cc. Weight Pipe Len	igth	243		2 7/8	
Chlorides		5,500 P.P.M.	Drill Pipe Length		070	I.D		
Jars: Make STERLING S	erial Number		Test Tool Length				e 3 1/2	
Did Weil Flow? NO	Reversed Out	NO			11.	TOOL SIZE	e 1/2	-11-
		NO I	Anchor Length		36	-		-
The second se	Tool Joint Size	4 1/2 XH	Anchor Length 64 CP IN ANCHOR Surface Choke S	1		Size		
Blow: 1st Open: WEAK 1/2	Tool Joint Size	4 1/2 XH in BUILDING	Surface Choke S	OP & MIN	in, i	Bottom (Choke Size	
Blow: 1st Open: WEAK 1/2	Tool Joint Size	4 1/2 XH in BUILDING	Surface Choke S	OP & MIN	in, i	Bottom (
Blow: 1st Open: WEAK 1/2 2nd Open: WEAK 1/2 II	Tool Joint Size INCH BLOW, NCH BLOW, B	4 1/2 XH in BUILDING	Surface Choke S	OP & MIN	in, i	Bottom (N	Choke Size	
Blow: 1st Open: WEAK 1/2 2nd Open: WEAK 1/2 If Recovered 175 ft. of GAS I	Tool Joint Size INCH BLOW, NCH BLOW, E	4 1/2 XH ir BUILDING BUILDING, R	Surface Choke S REACHING BOE	OP & MIN	in, i	Bottom (N	Choke Size O BB)	
Blow: 1st Open: WEAK 1/2 2nd Open: WEAK 1/2 II Recovered 175 ft. of GAS I Recovered 85 ft. of G.SW	Tool Joint Size INCH BLOW, NCH BLOW, E IN PIPE HOCM, 3% GAS,	4 1/2 XH ir BUILDING BUILDING, R	Surface Choke S REACHING BOE	30B 8 MIN 3 10 1/2 MIN	in, i	Bottom (N	Choke Size O BB)	
Blow: 1st Open: WEAK 1/2 2nd Open: WEAK 1/2 II Recovered 175 ft. of GAS I Recovered 85 ft. of G.SW Recovered 65 ft. of G.SW	Tool Joint Size INCH BLOW, NCH BLOW, E IN PIPE HOCM, 3% GAS, VHOCM, 2% GAS	4 1/2 XH ir BUILDING BUILDING, R 22% OIL, 75% I 8, 35% OIL, 79	Surface Choke S REACHING BOE MUD % WATER, 54% M	30B 8 MIN. 3 10 1/2 MIN	in, i	Bottom (N	Choke Size O BB)	
Blow: 1st Open: WEAK 1/2 2nd Open: WEAK 1/2 II Recovered 175 ft. of GAS I Recovered 85 ft. of G.SW Recovered 65 ft. of G.SW Recovered 310 ft. of G.W8	Tool Joint Size INCH BLOW, NCH BLOW, E IN PIPE HOCM, 3% GAS, VHOCM, 2% GAS, 3MCO, 6% GAS,	4 1/2 XH ir BUILDING, R 3UILDING, R 22% OIL, 75% I 8, 35% OIL, 79 51% OIL, 249	MUD WATER, 54% M	30B 8 MIN. 3 10 1/2 MIN	in, i	Bottom (N	Choke Size O BB)	
Blow: 1st Open: WEAK 1/2 2nd Open: WEAK 1/2 II Recovered 175 ft. of GAS I Recovered 85 ft. of G.SW Recovered 65 ft. of G.SW Recovered 310 ft. of G.W8 Recovered 460 ft. of TOAL	Tool Joint Size INCH BLOW, NCH BLOW, E IN PIPE HOCM, 3% GAS, VHOCM, 2% GAS, SMCO, 6% GAS, FLUID	4 1/2 XH ir BUILDING BUILDING, R 22% OIL, 75% I S, 35% OIL, 79 51% OIL, 24% CHLORIDES: 3	MUD WATER, 54% M	30B 8 MIN. 3 10 1/2 MIN	in, 1	Bottom ((N (W	Choke Size O BB)	
Blow: 1st Open: WEAK 1/2 2nd Open: WEAK 1/2 II Recovered 175 ft. of GAS I Recovered 85 ft. of G.SW Recovered 65 ft. of G.SW Recovered 310 ft. of G.W& Recovered 460 ft. of TOAL recovered ft. of	Tool Joint Size INCH BLOW, NCH BLOW, E IN PIPE HOCM, 3% GAS, VHOCM, 2% GAS, SMCO, 6% GAS, FLUID	4 1/2 XH ir BUILDING, R 3UILDING, R 22% OIL, 75% I 8, 35% OIL, 79 51% OIL, 249	MUD WATER, 54% M	30B 8 MIN. 3 10 1/2 MIN	Price J	Bottom ((N (W	Choke Size O BB) /S BB)	
Blow: 1st Open: WEAK 1/2 2nd Open: WEAK 1/2 II Recovered 175 ft. of GAS I Recovered 85 ft. of G.SW Recovered 65 ft. of G.SW Recovered 310 ft. of G.W8 Recovered 460 ft. of TOAL recovered ft. of emarks:	Tool Joint Size INCH BLOW, NCH BLOW, E IN PIPE HOCM, 3% GAS, VHOCM, 2% GAS, SMCO, 6% GAS, FLUID	4 1/2 XH ir BUILDING, R 22% OIL, 75% I 8, 35% OIL, 75% I 51% OIL, 24% CHLORIDES: : PH: 6.0 RW, 28 @ 5	MUD WATER, 54% M WATER, 19% M 38,000 ppm	30B 8 MIN. 3 10 1/2 MIN UD UD	Price J Other (Bottom ((N (W	Choke Size O BB) /S BB)	
Blow: 1st Open: WEAK 1/2 2nd Open: WEAK 1/2 II Recovered 175 ft. of GAS I Recovered 85 ft. of G.SW Recovered 65 ft. of G.SW Recovered 310 ft. of G.W8 Recovered 460 ft. of TOAL Recovered ft. of remarks: THE BLOW BACK DURING F	Tool Joint Size INCH BLOW, NCH BLOW, E IN PIPE HOCM, 3% GAS, VHOCM, 2% GAS, VHOCM, 2% GAS, FLUID	4 1/2 XH ir BUILDING, R 3UILDING, R 22% OIL, 75% I 5, 35% OIL, 79 51% OIL, 24% CHLORIDES: 1 PH: 6.0 RW: .28 @ 5 DIDN'T LAST 1	MUD WATER, 54% M WATER, 19% M 38,000 ppm	30B 8 MIN. 3 10 1/2 MIN UD UD	Price J	Bottom ((N (W	Choke Size O BB) /S BB)	
Blow: 1st Open: WEAK 1/2 2nd Open: WEAK 1/2 II Recovered 175 ft. of GAS I Recovered 85 ft. of G.SW Recovered 65 ft. of G.SW Recovered 310 ft. of G.W8 Recovered 460 ft. of TOAL Recovered ft. of TOAL Recovered ft. of TOAL Recovered ft. of TOAL Recovered 55 ft. of G.SW Recovered 310 ft. of TOAL Recovered ft. of TOAL Recovered 55 ft. of G.SW Recovered 310 ft. of TOAL Recovered 55 ft. of G.SW Recovered 55 ft. of S5 ft. of G.SW Recovered 55 ft. of G.SW Recovered	Tool Joint Size INCH BLOW, NCH BLOW, E IN PIPE HOCM, 3% GAS, VHOCM, 2% GAS, VHOCM, 2% GAS, FLUID	4 1/2 XH ir BUILDING, R 3UILDING, R 22% OIL, 75% I 5, 35% OIL, 79 51% OIL, 24% CHLORIDES: 1 PH: 6.0 RW: .28 @ 5 DIDN'T LAST 1	MUD WATER, 54% M WATER, 19% M 38,000 ppm	30B 8 MIN. 3 10 1/2 MIN UD UD	Price J Other (Insurar	Bottom ((N (W	Choke Size O BB) /S BB)	
Blow: 1st Open: WEAK 1/2 2nd Open: WEAK 1/2 II Recovered 175 ft. of GAS I Recovered 85 ft. of G.SW Recovered 65 ft. of G.SW Recovered 310 ft. of G.W8 Recovered 460 ft. of TOAL Recovered ft. of remarks: THE BLOW BACK DURING F OOL SAMPLE: 4% GAS, 59% O me Set Packer(s) 2:43 P	Tool Joint Size INCH BLOW, NCH BLOW, E IN PIPE HOCM, 3% GAS, VHOCM, 2% GAS, VHOCM, 2% GAS, SMCO, 6% GAS, FLUID FINAL SHUT-IN E OIL, 19% WATER, M P.M. Ti	4 1/2 XH ir BUILDING, R 3UILDING, R 22% OIL, 75% I 51% OIL, 79 51% OIL, 24% CHLORIDES: 1 PH: 6.0 RW: .28 @ 5 DIDN'T LAST 1 , 18% MUD	Surface Choke S , REACHING BOE EACHING BOE MUD % WATER, 54% M % WATER, 19% Mu 38,000 ppm 4 deg. THE WHOLD PERI Notion 5:46 PM	30B 8 MIN. 3 10 1/2 MIN UD UD UD	Price J Other (Bottom ((N (W lob Charges	Choke Size	
Blow: 1st Open: WEAK 1/2 2nd Open: WEAK 1/2 II Recovered 175 ft. of GAS I Recovered 85 ft. of G.SW Recovered 65 ft. of G.SW Recovered 65 ft. of G.SW Recovered 65 ft. of G.SW Recovered 460 ft. of TOAL Recovered	Tool Joint Size INCH BLOW, NCH BLOW, E IN PIPE HOCM, 3% GAS, VHOCM, 2% GAS, VHOCM, 2% GAS, SMCO, 6% GAS, FLUID FINAL SHUT-IN E OIL, 19% WATER, M A.M. P.M. Ti	4 1/2 XH in BUILDING, R 3UILDING, R 22% OIL, 75% I S, 35% OIL, 75% I S, 35% OIL, 24% 51% OIL, 24% CHLORIDES: : PH: 6.0 RVV: .28 @ 5 DIDN'T LAST T , 18% MUD me Started Off B	Surface Choke S , REACHING BOE EACHING BOE MUD % WATER, 54% M % WATER, 19% Mu 38,000 ppm 4 deg. THE WHOLD PERI Notion 5:46 PM	30B 8 MIN. 3 10 1/2 MIN UD UD UD	Price J Other (Insurar Total	Bottom ((N (W lob Charges	Choke Size	5/8
Blow: 1st Open: WEAK 1/2 2nd Open: WEAK 1/2 II Recovered 175 ft. of GAS I Recovered 85 ft. of G.SW Recovered 65 ft. of G.SW Recovered 310 ft. of G.W8 Recovered 460 ft. of TOAL Recovered ft. of remarks: THE BLOW BACK DURING F OOL SAMPLE: 4% GAS, 59% O me Set Packer(s) 2:43 P tial Hydrostatic Pressure. tial Flow Period	Tool Joint Size INCH BLOW, NCH BLOW, E IN PIPE HOCM, 3% GAS, VHOCM, 2% GAS, VHOCM, 2% GAS, SMCO, 6% GAS, FLUID FINAL SHUT-IN E OIL, 19% WATER, M P.M. Ti Minutes	4 1/2 XH ir BUILDING, R BUILDING, R 22% OIL, 75% I S, 35% OIL, 79 51% OIL, 24% CHLORIDES: PH: 6.0 RW: .28 @ 5 DIDN'T LAST 1 , 18% MUD me Started Off B	Surface Choke S , REACHING BOE EACHING BOE MUD % WATER, 54% M % WATER, 19% Mu 38,000 ppm 4 deg. THE WHOLD PERI Notion 5:46 PM	30B 8 MIN. 3 10 1/2 MIN UD UD UD UD 10D.	Price J Other (Insurar Total	Bottom ((N (W lob Charges	Choke Size O BB) /S BB) ure 97	5/8
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Blow: 1st Open: WEAK 1/2 2nd Open: WEAK 1/2 II Recovered 175 ft. of GAS I Recovered 85 ft. of G.SW Recovered 65 ft. of G.SW Recovered 310 ft. of G.W8 Recovered 460 ft. of TOAL Recovered ft. of THE BLOW BACK DURING F OOL SAMPLE: 4% GAS, 59% O Ime Set Packer(s) 2:43 P itial Hydrostatic Pressure Itial Flow Period	Tool Joint Size INCH BLOW, NCH BLOW, E IN PIPE HOCM, 3% GAS, VHOCM, 2% GAS MOCO, 6% GAS, FLUID FINAL SHUT-IN I OIL, 19% WATER, MINUTES Minutes Minutes	4 1/2 XH ir BUILDING, R 3UILDING, R 22% OIL, 75% I S, 35% OIL, 79 51% OIL, 24% CHLORIDES: : PH: 6.0 RW: .28 @ 5 DIDN'T LAST T ,18% MUD me Started Off B 15 48	SCIEP IN ANCHOR Surface Choke S , REACHING BOE EACHING BOE MUD % WATER, 54% M % WATER, 19% Mu % WATER, 19% WU % WU % WATER, 19% WU % WU % WU % WU % WU % WU % WU % WU	BOB 8 MIN. 3 10 1/2 MIN UD UD UD UD UD 10D. 1591 P.S.I 27 P.S.I 773 P.S.I	Price J Other (Insurar Total aximum To	Bottom ((N (W lob Charges hoce emperat	Unoke Size OBB) /SBB) ure 97 125 p.s.	5/8 deg.
Blow: 1st Open: WEAK 1/2 2nd Open: WEAK 1/2 II Recovered 175 ft. of GAS I Recovered 85 ft. of G,SW Recovered 65 ft. of G,SW Recovered 310 ft. of G,W8 Recovered 460 ft. of TOAL Recovered ft. of Remarks: THE BLOW BACK DURING F TOOL SAMPLE: 4% GAS, 59% O	Tool Joint Size INCH BLOW, NCH BLOW, E IN PIPE HOCM, 3% GAS, VHOCM, 2% GAS, VHOCM, 2% GAS, SMCO, 6% GAS, FLUID FINAL SHUT-IN E OIL, 19% WATER, MINUTES Minutes Minutes	4 1/2 XH ir BUILDING, R 3UILDING, R 22% OIL, 75% I 51% OIL, 75% I 51% OIL, 24% CHLORIDES: : PH: 6.0 RVV: .28 @ 5 DIDN'T LAST 1 , 18% MUD me Started Off B 15 48 30 90	Sel CP IN ANCHOR Surface Choke S , REACHING BOE REACHING BOE MUD % WATER, 54% M % WATER, 54% M % WATER, 19% MU 38,000 ppm 4 deg. THE WHOLD PERI kottom 5:46 PM 	BOB 8 MIN. 3 10 1/2 MIN UD UD UD UD IOD. AM AM 1591 P.S.I. 27 P.S.I.1	Price J Other (Insurar Total aximum To	Bottom ((N (W lob Charges hoce emperat	Choke Size O BB) /S BB) ure 97	deg.

the use of its expupment, or its statement or opinion concerning the result of any lest. Tools lost or damaged in the hole shat be paid for at cost by the party for whom the best is made

DST #3 ARBUCKLE 3647' - 3705'

DIAMOND TRAFT

s of the

Final Hydrostatic Pressure			1589 P.S.L	
Diamond Testing shall not be lieble for damages of any kind t the use of its equipment, or its statement or opinion concernin	The property of page and	f all a second se	and the second se	sustained, directly or indirectly, thro any for whom the test is made
			24	
	OST #3 ARBUCK	LE 3647' - 3705'		
	P.O	D TESTING	TIME ON	14:48
	HOISINGTON	542-7313		21:29
	DRILL-STE	M TEST TICKET	TIME OF	**************************************
Company JASON OIL COMPANY, LL		HOLD1DST3		
Contractor DISCOVERY DRILLING, INC.		Lease & Well No. A		
Elevation 2156 KB Formation	THE REAL PROPERTY AND ADDRESS OF THE REAL PROPERTY ADDRESS	LE Effective Pay	OIL COMPANY, LLC	Ticket No. T576
Date 11-27-16 Sec 3 Two.	12 S (18 W County	ELLIS
Test Approved By JEFF LAWLER	9.	Diamond Representat		M VENTERS
Formation Test No. 3 Interval Te	ested from 3	647 ft. to		
Packer Depth3642 ft. Size	6 3/4 in.	Packer depth	3705 ft. Total De	
Packer Depth 3647 ft. Size	6 3/4 in	Packer depth	The second s	Size 6 3/4 in.
Depth of Selective Zone Set		i dener depri	π	Size 6 3/4 in.
Top Recorder Depth (Inside)	3635 ft	Recorder Number	5504 Ca	5,000 P.S.I
Bottom Recorder Depth (Outside)	3702 _{ft.}	Recorder Number	11029 Ca	And a second s
Below Straddle Recorder Depth	ft	Recorder Number	Car	
Mud TypeCHEMICAL_Viscosity	54	Drill Collar Length		I.D2 1/4
Weight 8.7 Water Loss	7.6 _cc	Weight Pipe Length	212	I.D 2 7/8
Chlorides	7,000 P.P.M.	Drill Pipe Length		LD3 1/2
Jars: Make STERLING Serial Number		Test Tool Length		Tool Size 3 1/2-IF
Did Weil Flow? NO Reversed Out	and the second se	Anchor Length	26 _{ft.}	Size 4 1/2-FH
Main Hole Size 7 7/8 Tool Joint Size	and the second s	32'OP IN ANCHOR Surface Choke Size	1in.	Bottom Choke Size 5/8
Blow: 1st Open: WEAK SURFACE BLO	W, BUILDING	TO 1 INCH.		(NO BB)
2nd Open: VERY WEAK SURFACE	and the second	ING TO 1/4 INCH	4.	(NO BB)
Recovered 20 ft. of HOCM, 46% OIL, 54%				
Recoveredft. of			Price	Job
Recoveredft. of			Othe	Charges
Remarks:			Insura	ance
TOOL SAMPLE: 14% OIL, 86% MUD			Total	
Time Set Packer(s) 5:28 PM P.M.	Time Started Off Bo	ttom 7:28 PM	A.M. P.M. Maximum	Temperature 98 deg.
Initial Hydrostatic Pressure		1755 C 5	1720 P.S.I.	temperature
Initial Flow Period				10
Minul	tes	(B)	11 P.S.I. to (C)	19 P.S.I.

	berevicced	ft. c										
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Re	acovered	ft. c	1						1	Price Jo	b	
Re	ecovered	ft. c	f									
Re	emarks:									Other Cl		
-									_	Insurance	28	
Т	OOL SAMPLE	: 14% O	L, 86% MU	and the second se						Total		
Tir	me Set Packer	(s)	5:28 PM	A.M. P.M.	Time Sta	rted Off Bot	tom	7:28 PM	A.M. P.M.			98 deg.
Init	itial Hydrostatic	Pressure					and the second se			Maximum Ter	mperature	so deg.
Init	tial Flow Period			M	inutes	30	(B)		1720 P.S.I		10	
	tial Closed In P					30	(D)		808 P.S.I	. to (C)	19	P.S.I.
	al Flow Period					30	(E)				22	
	nal Closed In Pe				1000	30			713 P.S.I.	to (F)	p	P.S.I.
	nal Hydrostatic						(G)					
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