KOLAR Document ID: 1462290

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #		API No.:				
Name:		Spot Description:				
Address 1:			est			
Address 2:		Feet from North / South Line of Section				
City: State:	++	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-Entr	y Workover	Field Name:				
] SWD	Producing Formation:				
Gas DH] SWB] EOR	Elevation: Ground: Kelly Bushing:				
	GSW	Total Vertical Depth: Plug Back Total Depth:				
CM (Coal Bed Methane)	_	Amount of Surface Pipe Set and Cemented at: F	eet			
	ol., etc.):	Multiple Stage Cementing Collar Used? Yes No				
If Workover/Re-entry: Old Well Info as		If yes, show depth set: Feet				
Operator:		If Alternate II completion, cement circulated from:				
Well Name:		feet depth to:w/sx c	cmt.			
Original Comp. Date:						
Deepening Re-perf. Plug Back Liner	Conv. to EOR Conv. to SWD Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)				
□ O		Chloride content:ppm Fluid volume:b	bls			
_ •	rmit #:	Dewatering method used:				
	rmit #: rmit #:					
	rmit #:	Location of fluid disposal if hauled offsite:				
	rmit #:	Operator Name:				
33		Lease Name: License #:				
Spud Date or Date Reached	Completion Data co	Quarter Sec TwpS. R	/est			
Recompletion Date	d TD Completion Date or Recompletion Date	Countv: Permit #:				

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY								
Confidentiality Requested								
Date:								
Confidential Release Date:								
Wireline Log Received Drill Stem Tests Received								
Geologist Report / Mud Logs Received								
UIC Distribution								
ALT I II III Approved by: Date:								

KOLAR Document ID: 1462290

Page Two

Operator Name: _				Lease Name:			Well #:		
Sec Twp.	S. R.	E	ast West	County:					
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,	
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log	
Drill Stem Tests Ta			Yes No			g Formation (Top), Depth and Datum			
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum	
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No						
		B	CASING eport all strings set-c		New Used	ion, etc.			
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD				
Purpose:		epth T Bottom	ype of Cement	# Sacks Used	s Used Type and Percent Additives				
Perforate Protect Casi Plug Back T									
Plug Off Zor									
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,	
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity	
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom	
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT	
,	,			B.11 B1					
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record	
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:					
TODING RECORD:	. 3126.		n.	i donei Al.					

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	RICHARDS 15
Doc ID	1462290

Tops

Name	Тор	Datum
Anhydrite	1557	541
Topeka	3140	-1042
Heebner	3350	-1252
Toronto	3370	-1272
Lansing	3388	-1290
Base KC	3622	-1524
Marmaton	3630	-1532
Conglomerate	3655	-1556
Arbuckle	3703	-1605

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	RICHARDS 15
Doc ID	1462290

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugTyp e	BridgePlugSet At	Material Record
4	3398	3402			
4	3428	3432			
4	3470	3474			
4	3482	3486			
4	3522	3526			
4	3560	3568			
4	3576	3580			

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	RICHARDS 15
Doc ID	1462290

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	20	261	60/40 poz		4%CC 2% Gel
Production	7.875	5.5	14	3768	60/40 poz	160	10%salt,2 %gel

OUALITY OILWELL CEIVENTING, 110-

Federal Tax I.D.# 20-2886107

No. 1175 Home Office P.O. Box 32 Russell, KS 67665 Phone 785-483-2025 Cell 785-324-1041 Finish On Location State Sec. Twp. Range County · 025 Fllis Location Ellis - N chards th Rd Well No. 15 Owner to 100 Lease To Quality Ollwell Cementing, Inc. Contractor Southwind E # You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. Type Job operations 1/41 Hole Size T.D. 75/211 Street Depth Csg. Depth City State Tbg. Size The above was done to satisfaction and supervision of owner agent or contractor. Depth Tool. 60/40 40/6 CC 2% Cel Cement Amount Ordered 180 15 Shoe Joint Cement Left in Csg. Displace Meas Line EQUIPMENT Common //O Cementer Helper David 70 Poz. Mix Pumptrk 1 Driver No. Gel. Bulktrk 14 Jack No. Driver Calcium JOB SERVICES & REMARKS Hulls Salt ement Remarks Flowseal Rat Holemand just owner Kol-Seal Mouse Hole Mud CLR 48 Centralizers : CFL-117 or CD110 CAF 38 Baskets DN or Port Collar. Handling FLOAT EQUIPMENT Guide Shoe Centralizer Baskets. AFU Inserts Float Shoe Lafch Down Tax .41 Discount Total Charge

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

Phone 785-483-2025 Cell 785-324-1041

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

No. 1181

1.0.10	Sec.	Twp.	Range		County	State	On Location	Finish		
Date 1 - 02 - 19	6		30	FI	5	K5		8:15AM		
0.5	të fe			Location	on Ethys	- N to CIL	West Cu	(a) @ 11/41		
Lease Kichaic	15		Well No. # \	> av for	Owner \	1/4 F N1-	ENL N. +.	F-4, 1211		
Contractor Touthw	band	# 3)	- 11 To 31	To Quality Oilwell Cementing, Inc.					
Type Job long	CT NO	-		5 16	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Hole Size	17/8"	4.D.	3770'		Charge Mag of Operations					
Csg. SK" NEW 1	H#	Depth	3768.	64	Street	keven on horo	en e	Trailing of the Con-		
Tbg. Size		Depth			City .		State			
Tool Port Calla	() 15 ·	Depth	1543,20'		The above wa	s done to satisfaction ar	nd supervision of owner	agent or contractor.		
Cement Left in Csg.	3.01	Shoe J	oint 23,0	11.00	Cement Amo	ount Ordered \(50	60/40 70% Sal	+ AM Gel		
Meas Line	27. 27.41	Displac	e 91 1/4	BLS	Vy# Flores	1 - 1000 00	of Mind Cka	r.48==		
	EQUIPN	IENT		te. Little	Common	Author a gray	1 mg			
Pumptrk Helpe		149			Poz. Mix					
Bulktrk \ S No. Driver	1700	0			Gel.		* 1 28 - 1 - 1			
Bulktrk No. Driver		()			Calcium					
JOB SE	RVICES	& REMA	RKS		Hulls	e estados estados	southern at 19.			
Remarks:	11212				Salt					
Rat Hole 36 SX	ant esti so	in mai		10 to	Flowseal					
Mouse Hole	, 49.00			3.4 (2)	Kol-Seal					
Centralizers \ _ \ \	52			t. (4)	Mud CLR 48					
Baskets 53	5.012.				CFL-117 or CD110 CAF 38					
D/V or Port Collar	3-1-5	54312	20/	e teks	Sand					
Dipe on both	OW.	0920	K Circul	otim	Handling		ad ya resemble o			
dung wood	0/ 10	0 422	1801 48 g	ync.	Mileage			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Pottlide W	7305	c , \	my 45	Rug		FLOAT EQUIPM	ENT			
lasing t mo	× 13	5 5x	Compat. «	1(Guide Shoe	Port Coll	ar			
laun @ wash p	amp	+/10	185 METO	Tared	Centralizer	13	i emiliari, io. ione.			
Stuon 119/1/4/	1362	t 20	120, 1	10750-11	Baskets	e constant	elesets in the second			
Release	beck	* //3	212	1	AFU Inserts	A CONTRACTOR	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1			
LEFT 00005W	(6	600	#	1 /5	Float Shoe	A H H F COLE	Control of the Control			
Land plug	1200	# /	, rigids	Latch Down						
			Tallan and			a constant	Littlement I have the	***		
					-1					
	- 4		11.		Pumptrk Cha	arge	terminal of			
	1		e ko e		Mileage	Z state a separation	April pellocati			
		7			a serie		Tax	<u></u>		
v / ////		7		A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Discount	- J		
X Signature	[]. L	; 1;	1200	na spai	cy sylfetence o	gras Kapang Anta S	Total Charge			

QUALITY UILWELL CEIVIENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 1224

Cell 785-324-1041						1		7
	Sec.	Twp.	Range		County	State	On Location	Finish
Date 2-18-19	family 1	,		PI	3 pm	K.5	. 1 a	11,00Hm-
	es lighte est an ele		1 11.1.1	Location	on Palco	5 COLine	3w 400 /s	ZE 1/ yEinto
Lease Kichard	gara e		Well No.15		Owner	, a., harana a sa	to de la	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Contractor Express	YV V	in the second		Park P	You are here	Dilwell Cementing, In aby requested to ren	t cementing equipmen	t and furnish
Type Job Port Cal	20	, '-,		1. 1. 1		nd helper to assist or	wner or contractor to de	work as listed.
Hole Size > 78		T.D		· · · · · · · · · · · · · · · · · · ·	Charge M	lai Oil		
Csg 5/2		Depth			Street	Action of		
Tbg. Size 278	- : :	Depth			City		State	*
Tool Part Cala	<u> </u>	Depth	1543		The above w	as done to satisfaction	and supervision of owner	
Cement Left in Csg.	a' 1 " .	Shoe	oint		Cement Am	ount Ordered 22	5 BO CIMDO	1/4#10
Meas Line		Displac	e 784		6 91/	801	<u> </u>	<u> </u>
8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EQUIP	AENT			Common	140 20	mbe	
Pumptrk / 7 No. Come Helpe	1	2			Poz. Mix		The state of the s	1 in the same
Bulktrk No. Drive				•	Gel.	· · · · · · · · · · · · · · · · · · ·		
Bulktrk /1/ No. Drive		el .			Calcium		<u> </u>	1
JOB SE	RVICES	& REM	ARKS -	1, 1, 11,5	Hulls	*		12.00 5 1
Remarks: KCC Pa	4 540	.Ь		*	Salt	- 1	<u>, , , , , , , , , , , , , , , , , , , </u>	
Rat Hole		. 1	the state	· · ·	Flowseal	5071	and the second of the second o	County of the first of
Mouse Hole				(1.1	Kol-Seal			
Centralizers		1 , 1	*. · · ·	· · · · ·	Mud CLR 4	8		
Baskets			·		CFL-117 or	CD110 CAF 38		
D/V or Port Collar	. ,	- Inc.		•	Sand	and the second second		1
Jes 5/2 1	900	<u>.</u> ⊵0	# 3/4	10	Handling	75	September 1	
Paul Contract To) T	الف	Mex 3	place y	Mileage 14		A STATE OF THE PARTY OF THE PAR	
BS+ Coultand		4051	10/20	. restant	2	FHEAT EQUIP	MENT	*
De Tool Tay	10 9700	* A	STODA-SY W	chille	Guide Sho	θ \$		
1405	KI	X/	(A		Centralizer			
<u> </u>		<u>)</u>	- XW	<u> </u>	Baskets	- 10	***	
7		4			AFU Insert		APPEN S	
1. And 1. Washington	1	a pet			Float Shoe			
		0.1/2		18 7th	Latch Dow	n .		
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	1		¥ 10 Mg 10	***		<u>h</u>		
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Signature (10	<u> </u>				en and pro-	Total Charge	
1/0/								$^{\prime}$ + 2 V $_{2}$ for eq. (), 7 $^{\prime\prime}$ for z

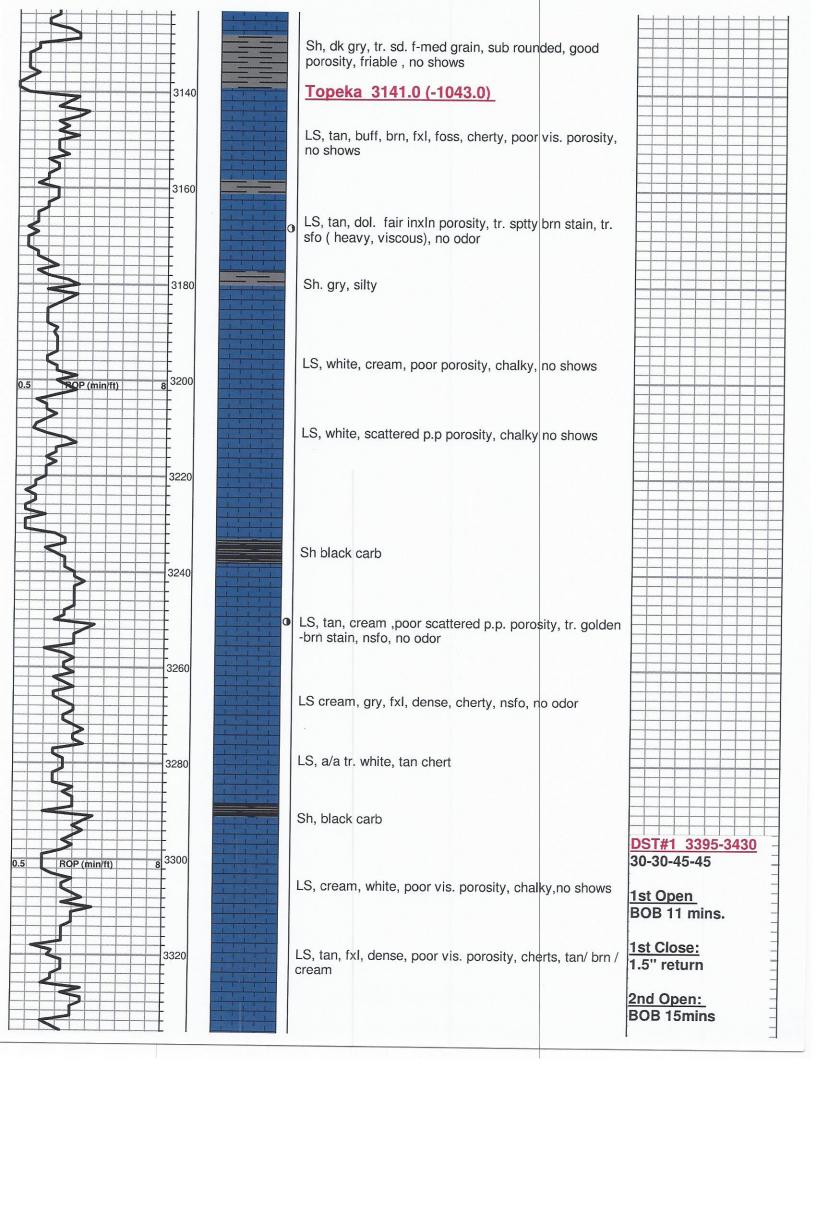


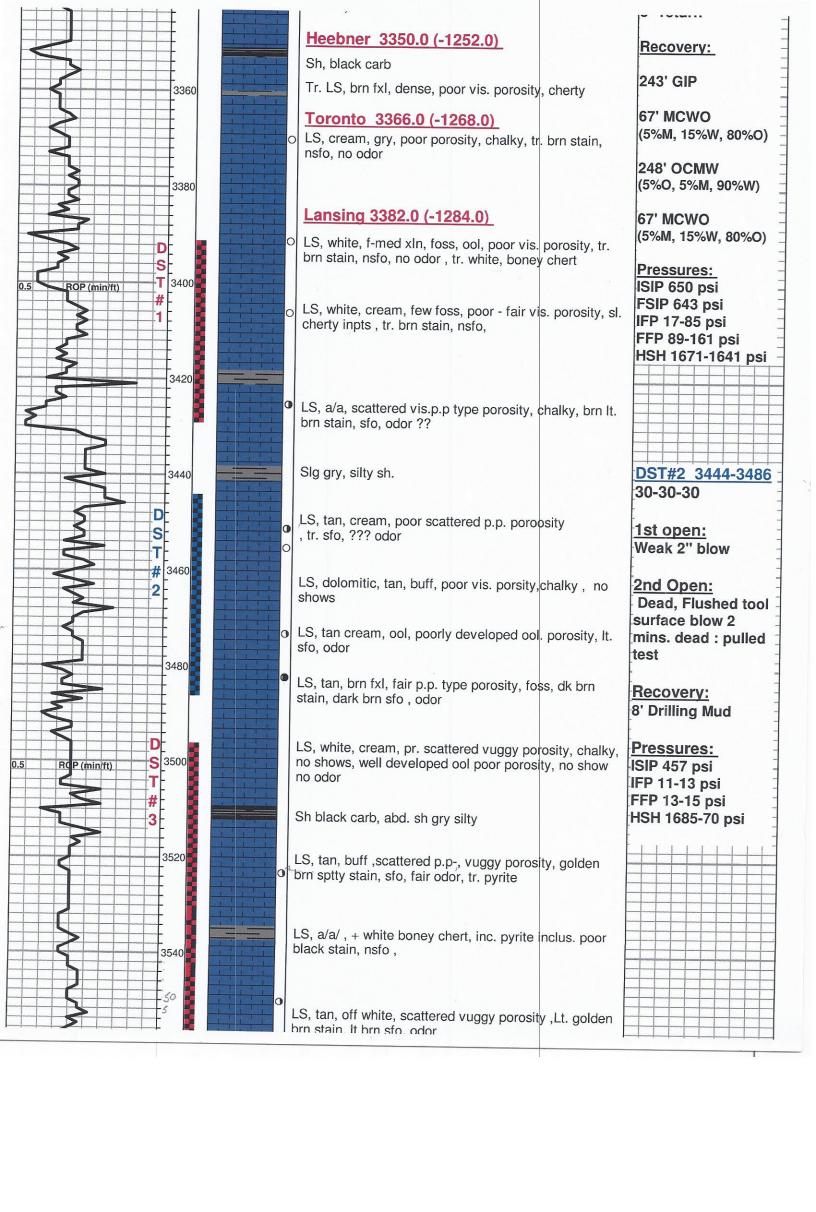
GEOLOGIST'S REPORT

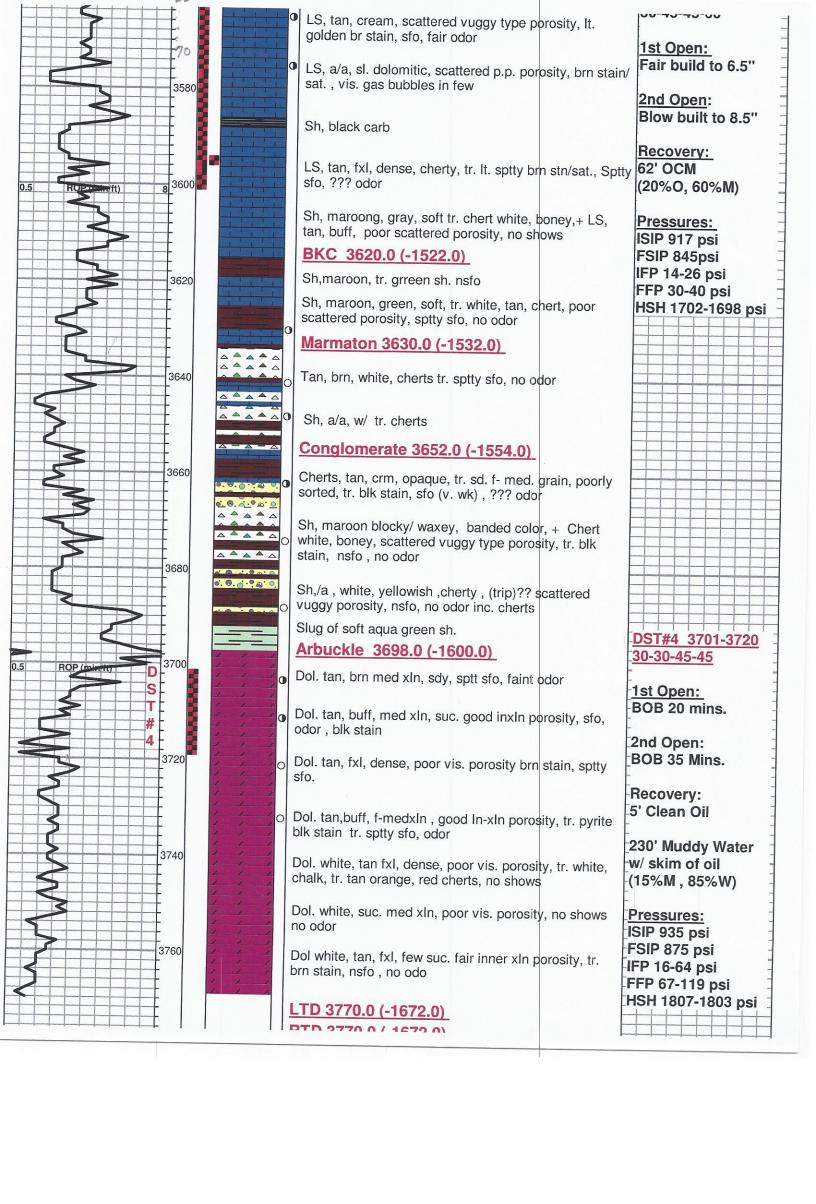
DRILLING TIME AND SAMPLE LOG

	DIVILL'INO TIMIL	AND SAMILL	-00		
COMPANY Mai Oil Op	ELEVATIONS				
LEASE <u>Richards #</u>	KB_2098'				
FIELD Mendota					
LOCATION SW-NE-S	W-SE(680' FSL	& 1915' FEL)	DF		
SEC 6 TWS	P 11S RGE	20W		<u>D'</u>	
COUNTY Ellis			Measurements Are All From <u>KB</u>		
CONTRACTOR Southw	rind Drilling, inc.	(Rig#3)	SUPEACES	CASING 5/8"@1'	
SPUD 1/12/2018	COMP 1/22/20	18	PRODUCTION	5 1/2" @3768	
RTD 3770'	LTD <u>3770'</u>		ELECTR	ICAL SURVEYS	
MUD UP 2900'	TYPE MUD_C	hemical	ELI Wireline ; DIL, Micro, CDL/CNL		
SAMPLES SAVED FRO)M3	000'	то	RTD	
DRILLING TIME KEP	T FROM3	000'	то	RTD	
SAMPLES EXAMINED	FROM3	000'	то		
GEOLOGICAL SUPERV					
GEOLOGIST ON WELL		Wyatt Urb	an		
FORMATION TOPS	LOG	SAMPLES			
Anhydrite	1558 +540	Congl. 3655 (-15	the same of the sa	and a state of a state of the s	
B. Anhydrite	1609 +489	Arbuckle 3703 (-160			
Topeka	3140 (-1042)				
King Hill Queen Hill	3228 (-1190) 3288 (-1190)		41		
				, , , , ,	

Marmaton		3630	(-1532)			>			
			-						
			LEGEND						
Show Good Show Fair Show Poor Show Spotted or Trace Questionable Stn Dead Oil Stn Fluorescence Gas	DST DST Int DST alt Core tail pipe								
Curve Track #1			Printed by G	EOstrip VC Striplo	og versi	on 4.0	.8.15 (1	www.c	jrsi.
P (min/ft)	Cored Interval DST Interval CG C	Lithology	Geological Descriptions				а, СТ -		
1:240 Imperial ROP (min/ft)	8					1.2	40 Impe	mai	
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	3080								
		17121	I C top but f made to the						
	_	11111	LS, tan, brn, f- med xln, sl. chalky, poor tr. brn stain, tr. sfo (golden brown)	vis. porosity,				\Box	
			(golden brown)						
	-								
	12100								
ROP (min/ft)	8 3100	1111					1		
	F								_
	-								#
			Samples , a/a			++		-	+









Prepared For: Mai Oil Operations Inc

8411 Preston Rd Suite 800 Dallas TX 75225+5520

ATTN: Wyatt Urban

Richards #15

6-11S-20W Ellis, KS

Start Date: 2019.01.18 @ 12:37:00

End Date: 2019.01.18 @ 18:49:02

Job Ticket #: 65084

DST#: 1

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



Mai Oil Operations Inc

8411 Preston Rd Suite 800 Dallas TX 75225+5520

ATTN: Wyatt Urban

6-11\$-20W Ellis,KS

Richards #15

Job Ticket: 65084

DST#: 1

Test Start: 2019.01.18 @ 12:37:00

GENERAL INFORMATION:

Formation:

LKC A-C

Deviated:

No Whipstock:

ft (KB)

Time Tool Opened: 14:20:02

Time Test Ended: 18:49:02

Interval: Total Depth: 3395.00 ft (KB) To 3430.00 ft (KB) (TVD)

3395.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester:

Ken Sw inney

Unit No:

Reference Elevations:

2098.00 ft (KB)

2090.00 ft (CF)

KB to GR/CF:

8.00 ft

Serial #: 8365

Press@RunDepth:

Inside

161.70 psig @ 2019.01.18

3396.00 ft (KB) End Date:

2019.01.18

Capacity:

psig

Start Date: Start Time:

12:37:01

End Time:

18:49:02

Last Calib.: Time On Btm: 2019.01.18

Time Off Btm:

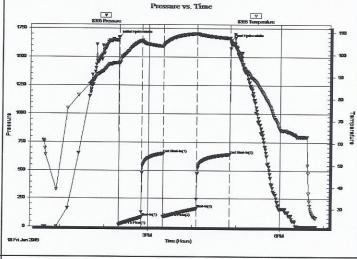
2019.01.18 @ 14:19:32 2019.01.18 @ 16:51:47

TEST COMMENT: IFP 30 Minutes Blow built to BOB in 11 min/ Total build 27"

ISI 30 Minutes 1 1/2" blow back

FFP 45 Mintues Blow built to BOB in 15 min/ Total build 32 1/2"

FSI 45 Minutes 5" blow back



Time	Pressure		RE SUMMARY Annotation	
		Temp	Annotation	
(Min.)	(psig)	(deg F)		
0	1671.39	96.43	Initial Hydro-static	
1	17.73	95.89	Open To Flow (1)	
31	85.51	106.24	Shut-In(1)	
61	650.18	103.74	End Shut-In(1)	
61	89.63	103.81	Open To Flow (2)	
106	161.70	109.46	Shut-In(2)	
152	643.39	107.44	End Shut-In(2)	
153	1641.33	105.50	Final Hydro-static	
	18 4 1 TS			
	77-15-3			
	176411			

	Recovery	
Length (ft)	Description	Volume (bbl)
67.00	Mud Cut Watery Oil/ M 5 W 15 O 80	0.94
248.00	S Oil cut Muddy Water/ O 5 M 5 W 90	3.48
0.00	243 feet GIP	0.00
- Mante-se		

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

Trilobite Testing, Inc

Ref. No: 65084



Mai Oil Operations Inc

8411 Preston Rd Suite 800 Dallas TX 75225+5520

ATTN: Wyatt Urban

6-11\$-20W Ellis,KS

Richards #15

Job Ticket: 65084

DST#: 1

Test Start: 2019.01.18 @ 12:37:00

GENERAL INFORMATION:

Formation:

LKC A-C

Deviated:

Total Depth:

Hole Diameter:

No Whipstock: Time Tool Opened: 14:20:02

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Sw inney

Unit No:

Time Test Ended: 18:49:02 Interval: 3395.00 ft (KB) To 3430.00 ft (KB) (TVD)

3395.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

Reference Elevations:

2098.00 ft (KB)

2090.00 ft (CF)

KB to GR/CF:

8.00 ft

Serial #: 6752 Press@RunDepth:

Outside

641.83 psig @ 2019.01.18

3397.00 ft (KB) End Date:

Capacity: 2019.01.18 Last Calib.: psig

Start Date: Start Time:

12:37:01

End Time:

18:50:02

Time On Btm:

2019.01.18 2019.01.18 @ 14:19:32

Time Off Btm:

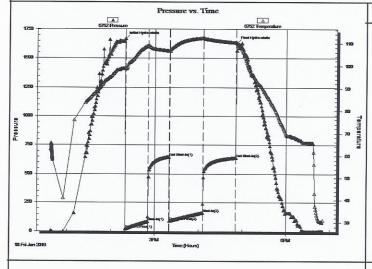
2019.01.18 @ 16:51:47

TEST COMMENT: IFP 30 Minutes Blow built to BOB in 11 min/ Total build 27"

ISI 30 Minutes 1 1/2" blow back

FFP 45 Mintues Blow built to BOB in 15 min/ Total build 32 1/2"

FSI 45 Minutes 5" blow back



Time	Pressure	Temp	Annotation	
(Min.)	(psig)	(deg F)		
C	1671.09	98.96	Initial Hydro-static	
1	18.92	98.71	Open To Flow (1)	
31	86.54	108.97	Shut-In(1)	
61	649.82	106.61	End Shut-In(1)	
61	88.98	106.53	Open To Flow (2)	
106	161.56	112.34	Shut-In(2)	
152	641.83	110.31	End Shut-In(2)	
153	1634.38	109.76	Final Hydro-static	
1 31 61 61 106 152	18.92 86.54 649.82 88.98 161.56 641.83	98.71 108.97 106.61 106.53 112.34 110.31	Open To Flow (1) Shut-In(1) End Shut-In(1) Open To Flow (2) Shut-In(2) End Shut-In(2)	

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
67.00	Mud Cut Watery Oil/ M 5 W 15 O 80	0.94
248.00	S Oil cut Muddy Water/ O 5 M 5 W 90	3.48
0.00	243 feet GIP	0.00

	Rates	
Choke (inch	es) Pressure (psig)	Gas Rate (Mcf/d
n 3 (1 n - 3 n		

Trilobite Testing, Inc

Ref. No: 65084



TOOL DIAGRAM

Mai Oil Operations Inc

8411 Preston Rd Suite 800 Dallas TX 75225+5520

6-11\$-20W Ellis,KS

Richards #15

Job Ticket: 65084

DST#: 1

ATTN: Wyatt Urban

Test \$tart: 2019.01.18 @ 12:37:00

Tool Information

Drill Pipe: Length: 3385.00 ft Diameter:

3.80 inches Volume: 47.48 bbl Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume:

0.00 bbl Total Volume: 47.48 bbl

Tool Weight: Weight set on Packer: 20000.00 lb

2000.00 lb

Weight to Pull Loose: 50000.00 lb Tool Chased 2.00 ft

String Weight: Initial 42000.00 lb

Final 45000.00 lb

Drill Pipe Above KB: 10.00 ft
Depth to Top Packer: 3395.00 ft
Depth to Bottom Packer: ft

Interval between Packers: 35.00 ft
Tool Length: 55.00 ft
Number of Packers: 2 Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3380.00		:
Hydraulic tool	5.00			3385.00		
Top Packer	5.00			3390.00		
Packer	5.00			3395.00	20.00	Bottom Of Top Packer
Recorder	1.00	8365	Inside	3396.00		
Recorder	1.00	6752	Outside	3397.00		
Anchor	30.00			3427.00		
Bullnose	3.00			3430.00	35.00	Anchor Tool
T-4-17						

Total Tool Length: 55.00

Trilobite Testing, Inc

Ref. No: 65084



FLUID SUMMARY

Mai Oil Operations Inc

6-11S-20W Ellis,KS

8411 Preston Rd Suite 800 Dallas TX 75225+5520

Richards #15 Job Ticket: 65084

ft

bbl

psig

DST#: 1

ATTN: Wyatt Urban

Test \$tart: 2019.01.18 @ 12:37:00

Mud and Cushion Information

Mud Type: Gel Chem Mud Weight:

9.00 lb/gal

Viscosity:

57.00 sec/qt

Water Loss: Resistivity: Salinity:

Filter Cake:

1500.00 ppm

6.19 in³ ohm.m

1.00 inches

Cushion Length: Cushion Volume:

Cushion Type:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

37 deg API

Water Salinity: 24000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
67.00	Mud Cut Watery Oil/ M 5 W 15 O 80	0.940
248.00	S Oil cut Muddy Water/ O 5 M 5 W 90	3.479
0.00	243 feet GIP	0.000

Total Length:

315.00 ft

Total Volume:

4.419 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

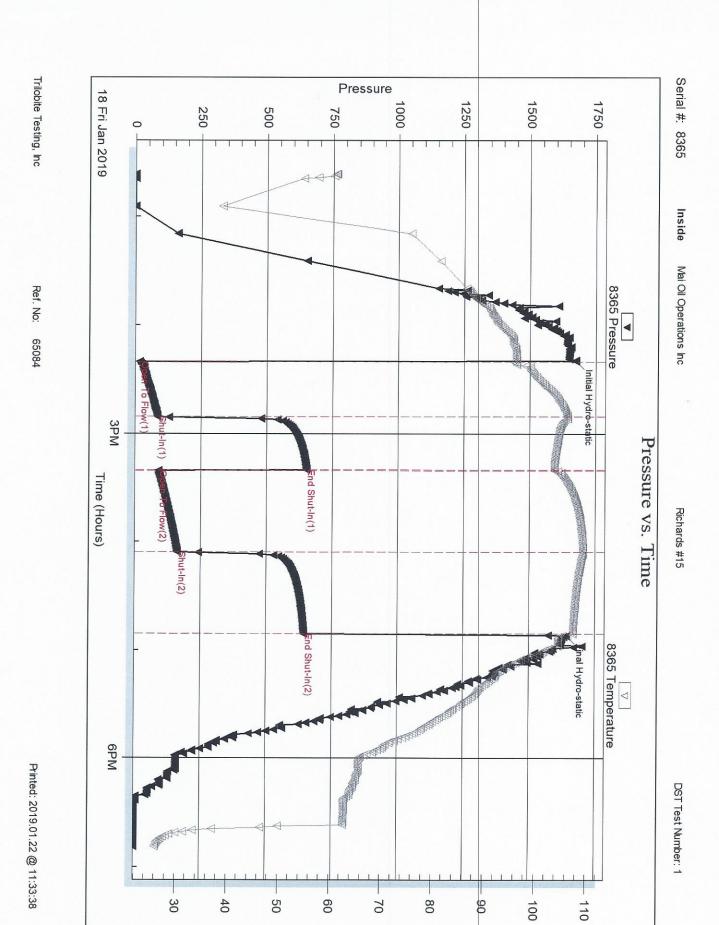
Laboratory Name:

Laboratory Location:

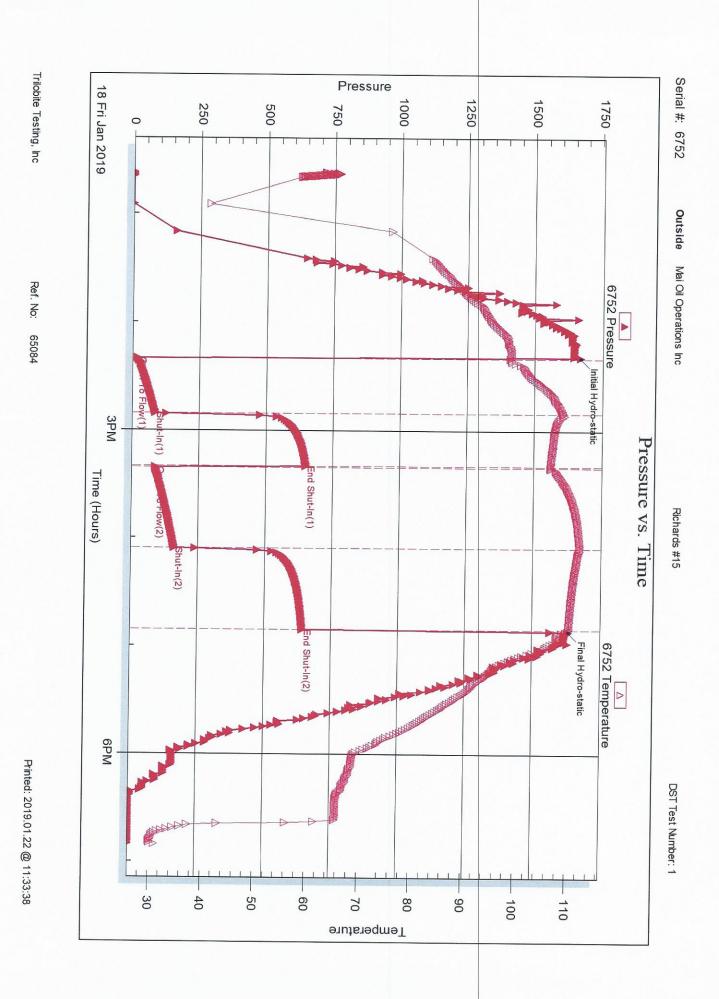
Recovery Comments: Recovery Resistivity .515 ohms @ 37 deg.

Trilobite Testing, Inc

Ref. No: 65084



Temperature





Prepared For:

Mai Oil Operations Inc

8411 Preston Rd Suite 800 Dallas TX 75225+5520

ATTN: Wyatt Urban

Richards #15

6-11S-20W Ellis, KS

Start Date: 2019.01.19 @ 05:15:00 End Date: 2019.01.19 @ 09:57:17 Job Ticket #: 65085 DST #: 2

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



Mai Oil Operations Inc

6-11S-20W Ellis, KS

8411 Preston Rd Suite 800 Dallas TX 75225+5520

Richards #15 Job Ticket: 65085

DST#: 2

ATTN: Wyatt Urban

Test \$tart: 2019.01.19 @ 05:15:00

GENERAL INFORMATION:

Time Test Ended: 09:57:17

Formation: LKC D-G

Deviated:

Interval:

Total Depth:

Hole Diameter:

No Whipstock: Time Tool Opened: 07:02:47

ft (KB)

Test Type: Conventional Bottom Hole (Initial) Tester:

Ken Sw inney

Unit No:

72

2098.00 ft (KB)

Reference Elevations:

2090.00 ft (CF)

KB to GR/CF:

8.00 ft

Serial #: 8365

Press@RunDepth:

7.88 inches Hole Condition: Fair

Inside

3486.00 ft (KB) (TVD)

13.69 psig @

3444.00 ft (KB) To 3486.00 ft (KB) (TVD)

3445.00 ft (KB)

Last Calib.:

Capacity:

Start Date: Start Time:

2019.01.19 05:15:01

End Date: End Time:

2019.01.19 09:57:17

Time On Btm:

2019.01.19 2019.01.19 @ 07:02:17

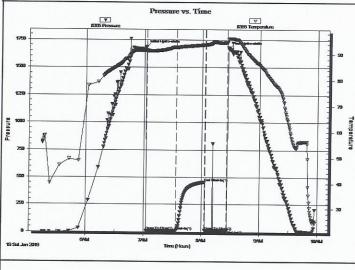
Time Off Btm:

2019.01.19 @ 08:27:32

TEST COMMENT: IFP 30 Minutes Blow built to 2"

ISI 30 Minutes No blow back

FFP 30 Minutes Dead - Flush tool - Surface blow 2 minutes then dead - pull test



1		PI	RESSUF	RE SUMMARY	
	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	0	1685.91	91.64	Initial Hydro-static	
	1	11.55	91.30	Open To Flow (1)	
	32	13.69	92.72	Shut-In(1)	
	61	457.05	93.76	End Shut-In(1)	
	61	13.35	93.58	Open To Flow (2)	
	84	15.67	94.73	Shut-In(2)	
	86	1670.06	96.13	Final Hydro-static	
1					
1					
1					
	4				
1					

	Recovery	
Length (ft)	Description	Volume (bbl)
8.00	Mud 100%	0.11

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

Trilobite Testing, Inc

Ref. No: 65085



Mai Oil Operations Inc

6-11\$-20W Ellis,KS

8411 Preston Rd Suite 800 Dallas TX 75225+5520

Richards #15 Job Ticket: 65085

DST#: 2

ATTN: Wyatt Urban

Test \$tart: 2019.01.19 @ 05:15:00

GENERAL INFORMATION:

Formation:

LKC D-G

Deviated:

No Whipstock: Time Tool Opened: 07:02:47

ft (KB)

Test Type:

Conventional Bottom Hole (Initial)

Tester:

Ken Sw inney

Unit No:

72

KB to GR/CF:

2098.00 ft (KB)

Reference Elevations:

2090.00 ft (CF) 8.00 ft

Interval: Total Depth: 3444.00 ft (KB) To 3486.00 ft (KB) (TVD)

3486.00 ft (KB) (TVD)

Hole Diameter:

Time Test Ended: 09:57:17

7.88 inches Hole Condition: Fair

Outside

455.89 psig @ 2019.01.19

3446.00 ft (KB) End Date:

2019.01.19

Capacity:

Start Date: Start Time:

05:15:01

End Time:

09:58:02

Last Calib .: Time On Btm:

2019.01.19 2019.01.19 @ 07:02:32

Time Off Btm:

2019.01.19 @ 08:27:32

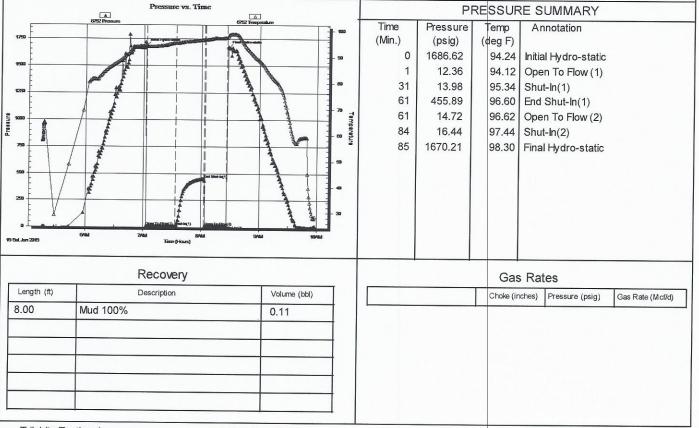
Serial #: 6752

Press@RunDepth:

TEST COMMENT: IFP 30 Minutes Blow built to 2"

ISI 30 Minutes No blow back

FFP 30 Minutes Dead - Flush tool - Surface blow 2 minutes then dead - pull test



Trilobite Testing, Inc

Ref. No: 65085



Mai Oil Operations Inc

6-11S-20W Ellis,KS

8411 Preston Rd Suite 800 Dallas TX 75225+5520

Richards #15 Job Ticket: 65085

DST#: 2

TOOL DIAGRAM

ATTN: Wyatt Urban

Test \$tart: 2019.01.19 @ 05:15:00

Tool Information

Drill Pipe: Length: 3448.00 ft Diameter:

3.80 inches Volume: 48.37 bbl Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume:

0.00 bbl 0.00 bbl Total Volume: 48.37 bbl Tool Weight: 2000.00 lb Weight set on Packer: 20000.00 lb Weight to Pull Loose: 45000.00 lb

Tool Chased 0.00 ft

String Weight: Initial 43000.00 lb Final 43000.00 lb

Drill Pipe Above KB: 24.00 ft
Depth to Top Packer: 3444.00 ft
Depth to Bottom Packer: ft

Interval between Packers: 42.00 ft Tool Length: 62.00 ft
Number of Packers: 2 Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Le	ngths	
Shut-In Tool	5.00			3429.00			
Hydraulic tool	5.00			3434.00			
Top Packer	5.00			3439.00			
Packer	5.00			3444.00	2	0.00	Bottom Of Top Packer
Recorder	1.00	8365	Inside	3445.00			
Recorder	1.00	6752	Outside	3446.00			
Anchor	37.00			3483.00			
Bullnose	3.00			3486.00	4	2.00	Anchor Tool
T / 1 T .							

Total Tool Length: 62.00

Trilobite Testing, Inc

Ref. No: 65085



FLUID SUMMARY

Mai Oil Operations Inc

6-11S-20W Ellis,KS

8411 Preston Rd Suite 800 Dallas TX 75225+5520

Richards #15

Job Ticket: 65085

DST#: 2

ATTN: Wyatt Urban

Test \$tart: 2019.01.19 @ 05:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

57.00 sec/qt 6.19 in³ ohm.m

1400.00 ppm 1.00 inches Cushion Type: Cushion Length: Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft bbl Oil API:

deg API

Water Salinity:

ppm

Recovery Information

Water Loss:

Resistivity:

Filter Cake:

Salinity:

Recovery Table

Length ft	Description	Volume bbl
8.00	Mud 100%	0.112

Total Length:

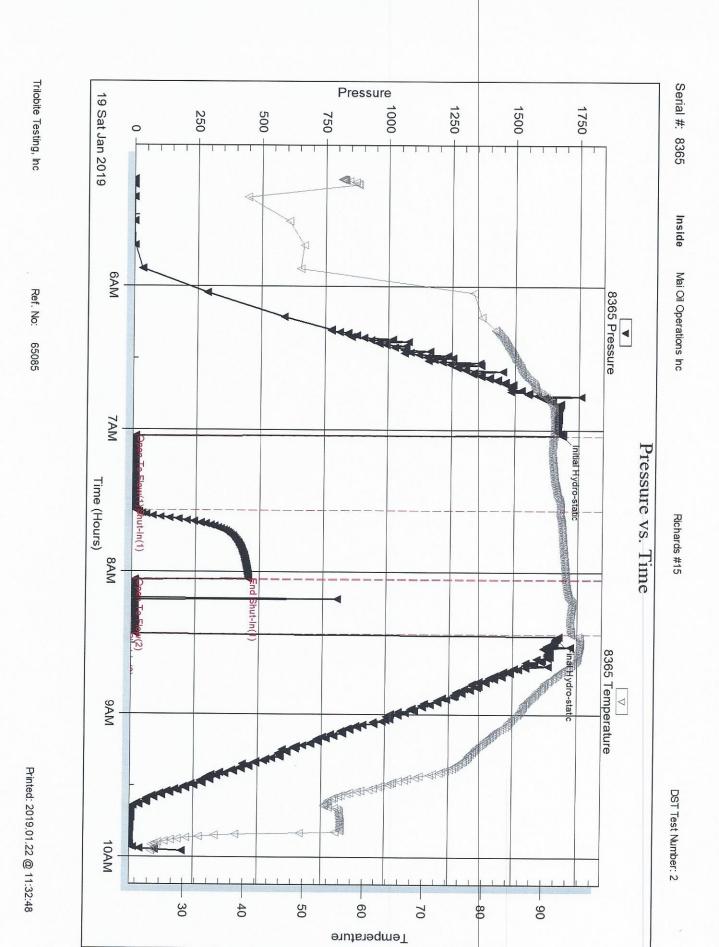
8.00 ft

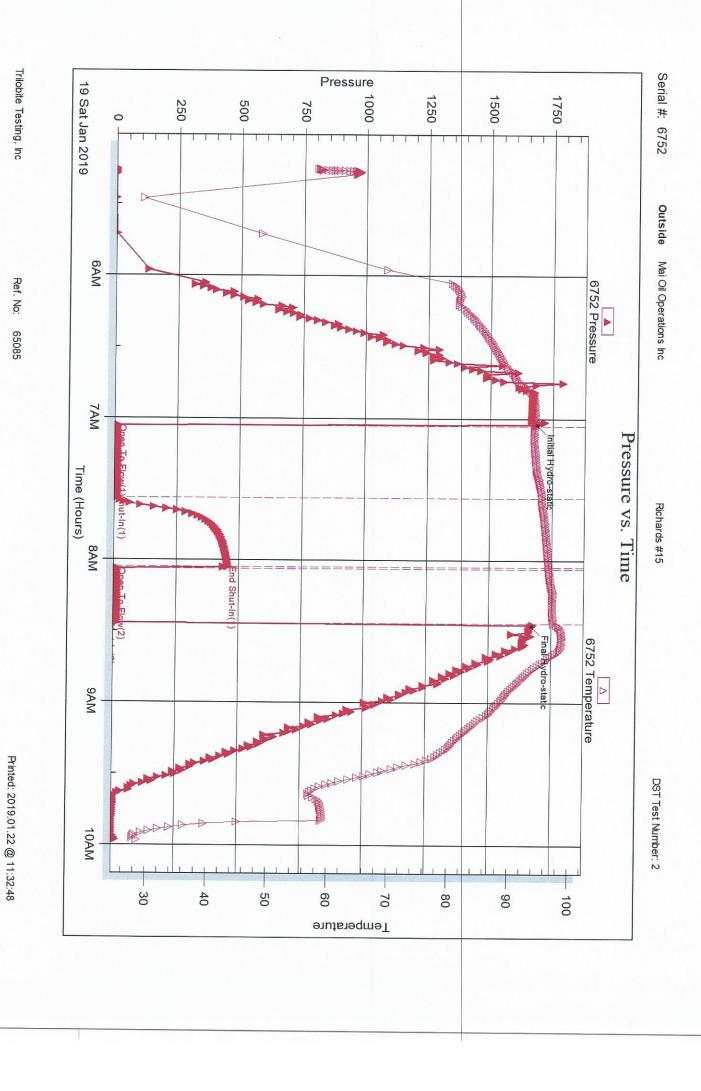
Total Volume:

0.112 bbl

Num Fluid Samples: 0 Laboratory Name: Num Gas Bombs: 0 Laboratory Location: Serial #:

Recovery Comments:







Prepared For: Mai Oil Operations Inc

8411 Preston Rd Suite 800 Dallas TX 75225+5520

ATTN: Wyatt Urban

Richards #15

6-11S-20W Ellis, KS

Start Date: 2019.01.19 @ 23:21:00 End Date: 2019.01.20 @ 05:49:02 Job Ticket #: 65086 DST#: 3

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



Mai Oil Operations Inc

8411 Preston Rd Suite 800 Dallas TX 75225+5520

ATTN: Wyatt Urban

6-11\$-20W Ellis,KS

Richards #15

Job Ticket: 65086

DST#: 3

Test \$tart: 2019.01.19 @ 23:21:00

GENERAL INFORMATION:

Time Test Ended: 05:49:02

Formation:

Interval:

Total Depth:

Hole Diameter:

LKC H-L

Deviated:

No Whipstock: Time Tool Opened: 01:03:02

3600.00 ft (KB) (TVD)

3497.00 ft (KB) To 3600.00 ft (KB) (TVD)

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Sw inney

Unit No:

Reference Elevations:

2098.00 ft (KB)

KB to GR/CF:

2090.00 ft (CF) 8.00 ft

Serial #: 8365

Press@RunDepth:

7.88 inches Hole Condition: Fair

Inside 40.27 psig @

3498.00 ft (KB) End Date:

2019.01.20 Last Calib .:

Capacity:

psig

Start Date: Start Time:

2019.01.19 23:21:01

End Time:

05:49:02

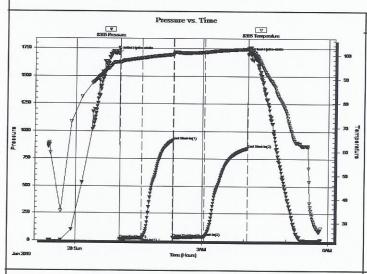
Time On Btm:

2019.01.20

Time Off Btm:

2019.01.20 @ 01:01:32 2019.01.20 @ 04:07:47

TEST COMMENT: IFP 30 Minutes Blow built to 6 1/2" ISI 45 Minutes No blow back FFP 45 Minutes Blow built to 8 1/2" FSI 60 Minutes No blow back



-					
		PF	RESSUF	RE SUMMARY	
Ī	Time	Pressure	Temp	Annotation	
I	(Min.)	(psig)	(deg F)		
١	0	1702.89	96.98	Initial Hydro-static	
ı	2	14.77	97.02	Open To Flow (1)	
l	33	26.93	98.72	Shut-In(1)	
l	77	917.83	100.21	End Shut-In(1)	
l	78	30.06	100.11	Open To Flow (2)	
l	122	40.27	101.21	Shut-In(2)	
l	183	845.67	102.59	End Shut-In(2)	
	187	1698.89	103.19	Final Hydro-static	

	Recovery					
Length (ft)	Description	Volume (bbl)				
62.00	Oil cut Mud/ Oil 20% Mud 80%	0.87				

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

Trilobite Testing, Inc

Ref. No: 65086



Mai Oil Operations Inc

8411 Preston Rd Suite 800 Dallas TX 75225+5520

ATTN: Wyatt Urban

6-11S-20W Ellis, KS

Richards #15

Job Ticket: 65086

Test Type:

Reference Elevations:

KB to GR/CF:

Tester:

Unit No:

DST#: 3

2098.00 ft (KB)

2090.00 ft (CF)

8.00 ft

Conventional Bottom Hole (Initial)

Test \$tart: 2019.01.19 @ 23:21:00

Ken Sw inney

GENERAL INFORMATION:

Formation:

LKC H-L

Deviated:

No Whipstock:

ft (KB)

Time Tool Opened: 01:03:02 Time Test Ended: 05:49:02

Total Depth:

3497.00 ft (KB) To 3600.00 ft (KB) (TVD)

Hole Diameter:

Start Date:

Start Time:

3600.00 ft (KB) (TVD) 7.88 inches Hole Condition: Fair

Serial #: 6752

Press@RunDepth:

Outside

845.41 psig @

2019.01.19

23:21:01

End Date:

End Time:

3499.00 ft (KB)

2019.01.20

05:48:02

Last Calib.:

Time On Btm:

Capacity:

Time Off Btm:

2019.01.20

2019.01.20 @ 04:07:32

TEST COMMENT: IFP 30 Minutes Blow built to 6 1/2"

ISI 45 Minutes No blow back FFP 45 Minutes Blow built to 8 1/2" FSI 60 Minutes No blow back

PRESSURE SUMMARY

1	TREGOOKE SOMMAKT				
	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
1	0	14.87	99.57	Open To Flow (1)	
	31	26.50	101.13	Shut-In(1)	
1	76	918.47	102.72	End Shut-In(1)	
1	77	26.27	102.97	Open To Flow (2)	
1	121	40.42	103.71	Shut-In(2)	
	182	845.41	105.28	End Shut-In(2)	
1	185	1699.85	105.93	Final Hydro-static	
1	T ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '				
1					
1					

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Oil cut Mud/ Oil 20% Mud 80%	0.87

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 65086



TOOL DIAGRAM

Mai Oil Operations Inc

8411 Preston Rd Suite 800 Dallas TX 75225+5520

6-11\$-20W Ellis,KS

Richards #15

DST#: 3

Job Ticket: 65086

Test Start: 2019.01.19 @ 23:21:00

ATTN: Wyatt Urban

Tool Information

Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl Drill Collar: Length:

Drill Pipe: Length: 3510.00 ft Diameter: 3.80 inches Volume: 49.24 bbl

Total Volume:

0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl

49.24 bbl

Tool Weight: Weight set on Packer: 20000.00 lb

2000.00 lb

Weight to Pull Loose: 75000.00 lb

Tool Chased

0.00 ft

String Weight: Initial 46000.00 lb

Final 46000.00 lb

Drill Pipe Above KB: Drill Pipe Above KB: 33.00 ft
Depth to Top Packer: 3497.00 ft
Depth to Bottom Packer: ft

33.00 ft

Interval between Packers: 102.67 ft

Tool Length: 122.67 ft
Number of Packers: 2 Diameter:
Tool Comments

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3482.00		
Hydraulic tool	5.00			3487.00		
Top Packer	5.00			3492.00		
Packer	5.00			3497.00	20.00	Bottom Of Top Packer
Recorder	1.00	8365	Inside	3498.00		
Recorder	1.00	6752	Outside	3499.00		
Anchor	32.00			3531.00		
Change Over Sub	1.00			3532.00		
Drill Pipe	63.67			3595.67		
Change Over Sub	1.00			3596.67		
Bullnose	3.00			3599.67	102.67	Anchor Tool

Total Tool Length: 122.67

Trilobite Testing, Inc

Ref. No: 65086



FLUID SUMMARY

Mai Oil Operations Inc

6-11\$-20W Ellis,K\$

8411 Preston Rd Suite 800 Dallas TX 75225+5520

Richards #15
Job Ticket: 65086

ft

bbl

psig

DST#: 3

ATTN: Wyatt Urban

Test \$tart: 2019.01.19 @ 23:21:00

Mud and Cushion Information

Mud Type: Gel Chem Mud Weight: 9

9.00 lb/gal

Viscosity:

53.00 sec/qt 7.19 in³

Water Loss: Resistivity: Salinity:

Filter Cake:

ohm.m 2800.00 ppm 1.00 inches Cushion Type:

Cushion Length:

Cushion Volume: Gas Cushion Type:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft Description Volume bbl 62.00 Oil cut Mud/ Oil 20% Mud 80% 0.870

Total Length:

62.00 ft

Total Volume:

0.870 bbl

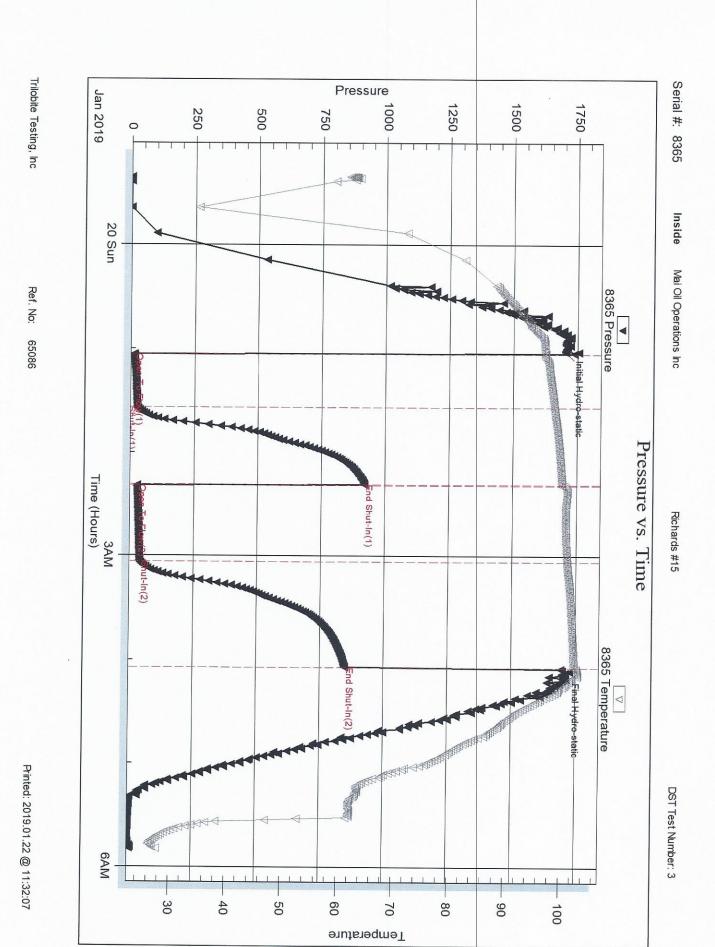
Num Fluid Samples: 0

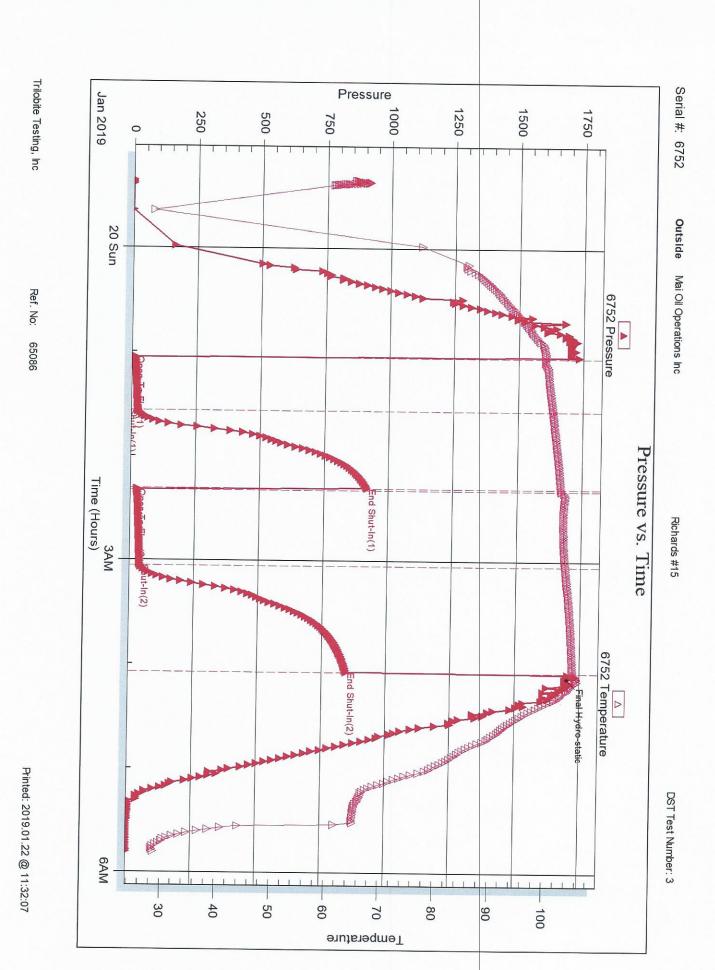
Laboratory Name:

Num Gas Bombs: 0 Laboratory Location:

Serial #:

Recovery Comments:







Prepared For: Mai Oil Operations Inc

8411 Preston Rd Suite 800 Dallas TX 75225+5520

ATTN: Wyatt Urban

Richards #15

6-11S-20W Ellis, KS

Start Date: 2019.01.21 @ 02:55:00 End Date: 2019.01.21 @ 08:53:02 Job Ticket #: 65087 DST#: 4

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



Mai Oil Operations Inc

8411 Preston Rd Suite 800 Dallas TX 75225+5520

ATTN: Wyatt Urban

6-11\$-20W Ellis,KS

Richards #15

Job Ticket: 65087

DST#: 4

Test Start: 2019.01.21 @ 02:55:00

GENERAL INFORMATION:

Formation:

Arbuckle

Deviated:

No Whipstock:

ft (KB)

Time Tool Opened: 04:32:02 Time Test Ended: 08:53:02

Interval: Total Depth:

3701.00 ft (KB) To 3720.00 ft (KB) (TVD) 3720.00 ft (KB) (TVD)

Hole Diameter:

Start Date:

Start Time:

7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester Ken Sw inney

Unit No:

72

Reference Elevations:

2098.00 ft (KB) 2090.00 ft (CF)

KB to GR/CF:

8.00 ft

Serial #: 8365

Press@RunDepth:

Inside

119.78 psig @ 2019.01.21 02:55:01

3702.00 ft (KB) End Date:

End Time:

2019.01.21 08:53:02 Capacity: Last Calib .:

2019.01.21

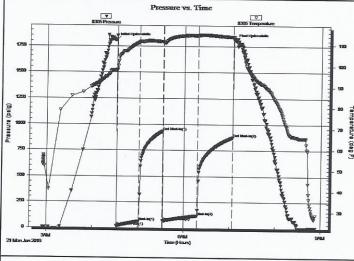
Time On Btm: Time Off Btm: 2019.01.21 @ 04:30:47 2019.01.21 @ 07:06:17

TEST COMMENT: IFP 30 Minutes Blow built to BOB in 20 minutes - Total build 14"

ISI 30 Minutes No blow back

FFP 45 Minutes Blow built to BOB in 35 minutes - Total build 13 1/2"

FSI 45 Minutes No blow back



(Min.) (psig) (deg F) 0 1807.06 97.84 Initial Hydro-static 2 16.02 97.88 Open To Flow (1) 31 64.82 111.38 Shut-In(1) 62 935.72 111.57 End Shut-In(1) 62 67.68 111.21 Open To Flow (2) 107 119.78 114.57 Shut-In(2) 153 875.75 113.88 End Shut-In(2) 156 1803.73 112.73 Final Hydro-static	Time	Pressure	Temp	Annotation
2 16.02 97.88 Open To Flow (1) 31 64.82 111.38 Shut-ln(1) 62 935.72 111.57 End Shut-ln(1) 62 67.68 111.21 Open To Flow (2) 107 119.78 114.57 Shut-ln(2) 153 875.75 113.88 End Shut-ln(2)	(Min.)			, motation
2 16.02 97.88 Open To Flow (1) 31 64.82 111.38 Shut-ln(1) 62 935.72 111.57 End Shut-ln(1) 62 67.68 111.21 Open To Flow (2) 107 119.78 114.57 Shut-ln(2) 153 875.75 113.88 End Shut-ln(2)	0	1807.06	97.84	Initial Hydro-static
62 935.72 111.57 End Shut-In(1) 62 67.68 111.21 Open To Flow (2) 107 119.78 114.57 Shut-In(2) 153 875.75 113.88 End Shut-In(2)	2	16.02	97.88	NAME OF THE PARTY
62 67.68 111.21 Open To Flow (2) 107 119.78 114.57 Shut-ln(2) 153 875.75 113.88 End Shut-ln(2)	31	64.82	111.38	Shut-In(1)
107	62	935.72	111.57	End Shut-In(1)
153 875.75 113.88 End Shut-In(2)	62	67.68	111.21	Open To Flow (2)
1 1 1 1 1 1 1 1 1 1	107	119.78	114.57	Shut-In(2)
156 1803.73 112.73 Final Hydro-static	153	875.75	113.88	End Shut-In(2)
	156	1803.73	112.73	Final Hydro-static

Recovery					
Length (ft)	Description	Volume (bbl)			
5.00	Oil 100%	0.07			
230.00	Muddy Water w /skim oil/ M 15 W 85	3.23			

Chok	Choke (inches) Pressure (psig) Gas Rate (Mo				
OTION	e (mones)	Fressure (psig)	Gas Rate (IVICI/O		

Trilobite Testing, Inc

Ref. No: 65087



Mai Oil Operations Inc

6-11\$-20W Ellis,KS

8411 Preston Rd Suite 800 Dallas TX 75225+5520

Richards #15 Job Ticket: 65087

DST#: 4

ATTN: Wyatt Urban

Test \$tart: 2019.01.21 @ 02:55:00

GENERAL INFORMATION:

Formation:

Arbuckle

Deviated:

No Whipstock:

ft (KB)

Time Tool Opened: 04:32:02 Time Test Ended: 08:53:02

Test Type: Conventional Bottom Hole (Initial) Tester: Ken Sw inney

Unit No: 72

Reference Elevations:

2098.00 ft (KB)

2090.00 ft (CF)

KB to GR/CF:

8.00 ft

Interval:

3701.00 ft (KB) To 3720.00 ft (KB) (TVD)

Total Depth:

3720.00 ft (KB) (TVD)

Outside

Hole Diameter:

7.88 inches Hole Condition: Fair

Serial #: 6752

Press@RunDepth:

874.23 psig @ 2019.01.21

3703.00 ft (KB) End Date:

2019.01.21

Capacity: Last Calib.:

psig

Start Date: Start Time:

02:55:01

End Time:

08:52:02

Time On Btm:

2019.01.21 2019.01.21 @ 04:30:47

Time Off Btm:

2019.01.21 @ 07:05:47

TEST COMMENT: IFP 30 Minutes Blow built to BOB in 20 minutes - Total build 14"

ISI 30 Minutes No blow back

FFP 45 Minutes Blow built to BOB in 35 minutes - Total build 13 1/2"

FSI 45 Minutes No blow back

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250	X f		1		4 1.
500				1 1	50
750				1	- ec
Ė	1		d Sharker)	manufa of	- A
1000				3	1
1290				1	94
1500	1				
		1		1	1
1750		A STATE OF THE PARTY OF THE PAR		Plant I placements	1'

		PRESSURE SUMMARY					
The man a section of the section in	Time	Pressure	Temp	Annotation			
	(Min.)	(psig)	(deg F)				
	0	1806.26	100.49	Initial Hydro-static			
	2	16.17	100.47	Open To Flow (1)			
To make a series of the series	31	66.40	114.40	Shut-In(1)			
.	62	934.89	114.43	End Shut-In(1)			
Townson the Table To	62	68.36	114.24	Open To Flow (2)			
	107	119.87	117.56	Shut-In(2)			
	153	874.23	116.80	End Shut-In(2)			
	155	1802.13	116.28	Final Hydro-static			
1							

	Recovery	
Length (ft)	Description	Volume (bbl)
5.00	Oil 100%	0.07
230.00	Muddy Water w /skim oil/ M 15 W 85	3.23

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

Trilobite Testing, Inc

Ref. No: 65087



6-11S-20W Ellis,KS

8411 Preston Rd Suite 800 Dallas TX 75225+5520

Mai Oil Operations Inc

Richards #15 Job Ticket: 65087

DST#: 4

TOOL DIAGRAM

ATTN: Wyatt Urban

Test \$tart: 2019.01.21 @ 02:55:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length: Drill Collar:

Length: 3704.00 ft Diameter: Length:

0.00 ft Diameter: 0.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 0.00 inches Volume:

Total Volume:

51.96 bbl 0.00 bbl 0.00 bbl

51.96 bbl

Tool Weight: Weight set on Packer: 20000.00 lb

2000.00 lb

Weight to Pull Loose: 48000.00 lb Tool Chased

0.00 ft

String Weight: Initial 46000.00 lb

Final 46000.00 lb

Drill Pipe Above KB:

23.00 ft

Interval between Packers: 19.00 ft Tool Length: 39.00 ft

Number of Packers: 2 Diameter:

6.75 inches

Tool Comments:

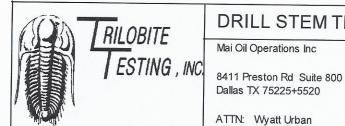
Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths Shut-In Tool 5.00 3686.00 Hydraulic tool 5.00 3691.00 Packer - Shale 5.00 3696.00 Packer 5.00 3701.00 20.00 Bottom Of Top Packer Recorder 1.00 8365 Inside 3702.00 Recorder 1.00 6752 Outside 3703.00 Anchor 14.00 3717.00 Bullnose 3.00 3720.00 9.00 Anchor Tool

Total Tool Length:

39.00

Trilobite Testing, Inc

Ref. No: 65087



Mai Oil Operations Inc

6-11\$-20W Ellis,KS

Richards #15

Job Ticket: 65087

DST#: 4

FLUID SUMMARY

ft

bbl

psig

Test \$tart: 2019.01.21 @ 02:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal Viscosity: 60.00 sec/qt

Water Loss: Resistivity: Salinity:

7.19 in³ ohm.m 3000.00 ppm Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: Cushion Volume:

Gas Cushion Type: Gas Cushion Pressure: Oil API:

deg API

Water Salinity: 17000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volu	10,000
5.00	Oil 100%		0.070
230.00	Muddy Water w /skim oil/ M 15 W 85		3 226

Total Length:

235.00 ft

Total Volume:

3.296 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0 Serial #:

Laboratory Name:

Laboratory Location:

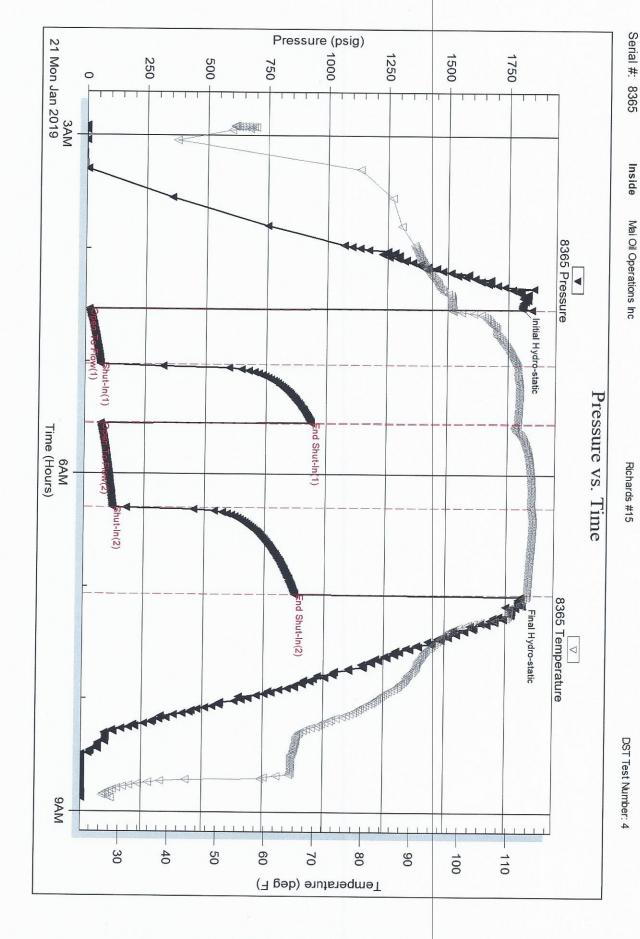
Recovery Comments: Recovery Resistivity .780 ohms @ 34 deg.

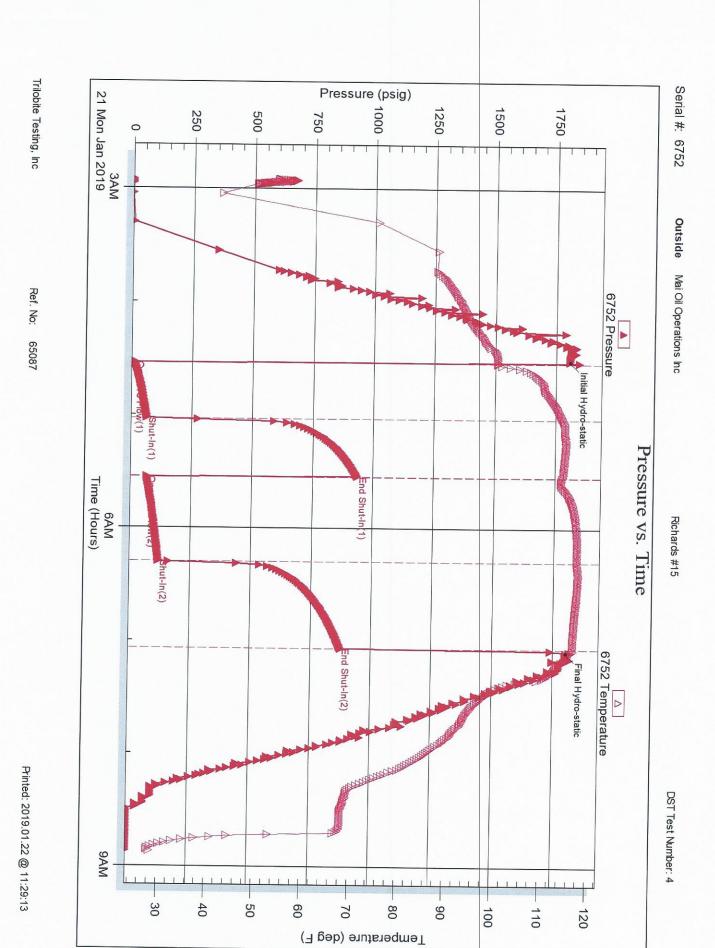
Trilobite Testing, Inc

Ref. No: 65087











1515 Commerce Parkway - Hays, Kansas 67601

Test Ticket

Well Name & NoR	ichards # 15		Test No	1	Date 18 JA	19
Company Mai C	7.1 Operations	Inc	Elevation	2098	KB 209	O GL
	reston Rd Sur					
Co. Rep / Geo. Wy	stt Urban		Rig Sout	Hwind	Rig 3	
Location: Sec.	6 Twp	Rge. 20 W	Co & 11,	.,	State	45
	395-3430		Lansing A			
	35	_	338.5	_	Mud Wt 9)· /
Top Packer Depth	CHE I SUDOVE COUL CE SCREEL DO TO MANDE MANDE CONTROL CONTROL DO TO MANDE CONTROL CONT	-	un		Vis	
	3395				WL 6	
	3 430		1500 ppn	The state of the s	LCM _ 2	
	E Blow to B					
I.S.I 1.5 1	nch slow back	11 21.11	1011100116		inches	
	wilt to BOB		Total 6. H	32%	inches	
	1 6low back	- f		30.7	7710910	
	et of Mad Cut Wester	0:1	%gas 2	30º %oil	15 %water	5 %mud
	et of alcut Mud Wi		%gas	3 %oil	70%water	5 %mud
Rec_ 243 Fee	The same of		100 %gas		%water	%mud
RecFee	et of		Walter Committee	%oil		%mud
RecFee			%gas		%water	%mud
Rec Total	BHT 109	Gravity 37	API RW , 575 @	37 °F	Chlorides 2400	20 nom
(A) Initial Hydrostatic	1671	© (Test1050			ocation	
(B) First Initial Flow	17				ed 12	
(C) First Final Flow	85	☐ Safety Joint				
(D) Initial Shut-In	650			T-Pulled	4.	
(E) Second Initial Flow	89	☐ Hourly Standby			6.3	51 pm
(F) Second Final Flow	161	Mileage		Comme	ents	
(G) Final Shut-In	643	☐ Sampler				
(H) Final Hydrostatic	1641			_	Tabl	
					Tool ned Shale Packer	7/2
Initial Open	30				ned Shale Packer	
Initial Shut-In					a Copies	
Final Flow	45			Sub Tot	al	
Final Shut-In	45			Total	1112	
		Sub Total 111:	2		T Disc't	
Approved By						-



1515 Commerce Parkway - Hays, Kansas 67601

Test Ticket

Well Name & No. Richards #15		Test No	2	19 TA	N19
Company Mc. Oil operations					
Address 8411 Preston Re Suite					
Co. Rep/Geo. Wygtt Wiban					
Location: Sec Twp//_					1//
				State	5
	Zone Tested Lans.	ng/Honsas	,		
Anchor Length 42		3448	Mud	Wt. 9.	. /
Top Packer Depth 3439	Drill Collars Run		Vis	5	7
Bottom Packer Depth 3444	Wt. Pipe Run			6	,2
Total Depth 3-185	Chlorides/5		System LCM	20	7
Blow Description IF Blow built	to 2 inches				
Z.S.I. No blow back		ŝ			
E.F. Dead Flush tool	Surface blew 2 m	in then	dad ;	Pull test	+
Rec_ & Feet of Mad		%gas	%oil	%water	100 %mud
Rec Feet of	<u> </u>	%gas	%oil		
Rec Feet of		%gas	%oil		
Rec Feet of		%gas	%oil		
Rec Feet of		%gas	%oil		
Rec Total BHT 9 4	Gravity API F			rides	
(A) Initial Hydrostatic 168.5				1_ 4,5	
(B) First Initial Flow I i				5:1	
(C) First Final Flow				7:00	
(D) Initial Shut-In_ 4.5-7	Circ Sub	The state of the s		8:20	
(E) Second Initial Flow	☐ Hourly Standby		T-Out		89m
(F) Second Final Flow	Mileage 62				
(G) Final Shut-In					
(H) Final Hydrostatic					
	Straddle				
Initial Open3 o	☐ Shale Packer	The state of the s		nale Packer	
Initial Shut-In3 0	Extra Packer			icker	
Final Flow	☐ Extra Recorder			ies	
Final Shut-In				0	
				2	
Approved By	Sub Total 1112		MP/DST Dis	c't	
Approved By	Accommon and the state of the state of	esentative			



1515 Commerce Parkway - Hays, Kansas 67601

Test Ticket

Well Name & No. R.	chards #15"		Test No	3	Date 19 JA	W 19
Company Mail &	oil operations.	Inc	Elevation 3	048	KB 2090	GL
	reston Rd Suite					
Co. Rep / Geo. Wy	att Wiban		RigSout	hwind .	Rig 3	
Location: Sec.	6 Twp 115					
Interval Tested	14		onsing/Konsas	W. ICO.		
Anchor Length			3510		ıd Wt 9	2.0
Top Packer Depth		Drill Collars Run _			3	
	3497			W	7	, , >
	3600	-	2800 ppm \$		M/	
	Blow built to	***************************************	pp	2) SICIII - LO		
I.S.I. No b					***************************************	
F.F. Blow be	11 to 8 /2 1.	rcl				
E.S.I. No 6.	low back					
Rec 67 Fe	et of Oil cut M	ud	%gas ∅	⊘ %oil	%water	S⇔ %mu
Rec Fe	eet of		%gas	%oil	%water	%mud
Rec Fe	eet of		%gas	%oil	%water	
Rec Fe	et of		%gas	%oil	%water	
Rec Fe	et of		%gas	%oil		
Rec Total 62	BHT 102	Gravity Al	PI RW@	°F Ch	nlorides	
(A) Initial Hydrostatic	1702				ion	
(B) First Initial Flow		☐ Jars			V 11.16	
(C) First Final Flow	26	☐ Safety Joint		T-Open	1:0	2 9m
(D) Initial Shut-In	917	Circ Sub			4:07	
(E) Second Initial Flow	30	O Hourly Standby			5:50	
(F) Second Final Flow	40	Mileage	62	Comments		
(G) Final Shut-In	845	☐ Sampler		-		
(H) Final Hydrostatic	1698	☐ Straddle			ol	
		☐ Shale Packer			Shale Packer	
Initial Open	30	☐ Extra Packer			Packer	
Initial Shut-In		☐ Extra Recorder				
Final Flow		☐ Day Standby		Sub Total O		
The state of the s	60	☐ Accessibility	Caracter (Caracter) Description (Caracter)	Total 1112		
Final Shut-In		A CONTRACTOR OF THE PARTY OF TH				



1515 Commerce Parkway · Hays, Kansas 67601

Test Ticket

Well Name & No. Riz	chards #15		Test No	4	Date _ 2 / 3	AN19
Company Ma. O.	1 Operations	• • • • • • • • • • • • • • • • • • • •	Elevation 2			
Address 8911 Pres	ton Rd Suite					~
Co. Rep / Geo. Wya	41. 11.1					
Location: Sec. 6	Twp//S					KS
Interval Tested 3'7	101-3720	Zone Tested	Arbuc	61e		
Anchor Length	19		3704		Mud Wt.	9,3
Top Packer Depth		Drill Collars Run			Vis	
Bottom Packer Depth	3701	Wt. Pipe Run	-			7.2
Total Depth	3720	Chlorides 3	OOO ppm	System		17#
Blow Description I.F.	Blow built	to BOB in	20 min/	Total o	build 14	10
I.S.I. No :	Slow back					
	If to BOB in	35 min/	Total bu	14	13/2"	
F.S.I. No 6.	law back					0
	t of		%gas /0	%oil	%water	%mud
RecFeel	101 Muddy Wor	ler skim ail	%gas	%oil	85 %water	15 %mud
Rec Feet	t of		%gas	%oil	%water	%mud
Rec Feet	t of		%gas	%oil	%water	%mud
	l of		%gas	%oil	%water	%mud
Rec Total 235	внт	Gravity A	PI RW _750 @	3 4 °F	Chlorides 17	000 ppm
(A) Initial Hydrostatic		2 Test		T-On Lo	ocation	7:00 an
(B) First Initial Flow	16	☐ Jars		T-Starte	d _ 2:55 am 3	1320 m
(C) First Final Flow		☐ Safety Joint		T-Open	4	1320m
(D) Initial Shut-In		Circ Sub			<u> 7:</u>	
(E) Second Initial Flow	67	☐ Hourly Standby			5.4	
(F) Second Final Flow		Mileage 124	62		entsaded tools 1/21 2	
(G) Final Shut-In	875	☐ Sampler				
(H) Final Hydrostatic	1803	☐ Straddle		ОЕМ	Total	
		Shale Packer 2	50		Tool ned Shale Packer_	
Initial Open	30	☐ Extra Packer			ned Packer	
Initial Shut-In	30	☐ Extra Recorder				
Final Flow	45	☐ Day Standby			a Copies	
Final Shut-In	45	☐ Accessibility			1424	
		Sub Total 1424		1000000	T Disc't	
Approved By		Our R	epresentative			
Trilobite Testing Inc. shall not be liable for equipment, or its statements or opinion co	damaged of any kind of the property oncerning the results of any test, tools	4× 44×4×4×4		fered or sustain r whom the test	ed, directly or indirectly, the	rough the use of its

Conservation Division 266 N. Main St., Ste. 220 Wichita, KS 67202-1513



Phone: 316-337-6200 Fax: 346-337-6211 http://kcc.ks.gov/

Laura Kelly, Governor

Dwight D. Keen, Chair Shari Feist Albrecht, Commissioner Susan K. Duffy, Commissioner

June 07, 2019

Brent Homeier Mai Oil Operations, Inc. 8411 PRESTON RD STE 800 DALLAS, TX 75225-5520

Re: ACO-1 API 15-051-26943-00-00 RICHARDS 15 SE/4 Sec.06-11S-20W Ellis County, Kansas

Dear Brent Homeier:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 1/14/2019 and the ACO-1 was received on June 06, 2019 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department