### KOLAR Document ID: 1358441

Confiden	tiality 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	& I FASE
	III JIONI	- DESCRIF HOR		a LLASL

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / 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:
	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
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 EOR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:      EOR Permit #:	Location of fluid disposal if hauled offsite:
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec Twp S. R East _ West
Recompletion Date Recompletion Date	County: Permit #:

#### AFFIDAVIT

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

### Submitted Electronically

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

#### KOLAR Document ID: 1358441

Operator Nam	ne:			Lease Name:	Well #:
Sec	Twp	S. R	East West	County:	

Page Two

**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 Sh	acate)	Y	′es 🗌 No			og Formatio	n (Top), Depth a	and Datum	Sample
Samples Sent to Geolo			⁄es 🗌 No	1	Name	Э		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:		□ Y □ Y	Yes ☐ No Yes ☐ No Yes ☐ No						
		Rep	CASING ort all strings set-c		] Ne	w Used rmediate, productio	on. etc.		
Purpose of String	Size Hole Drilled	Siz	ze Casing et (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
[			ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose:	Depth Top Bottom	Туре	e of Cement	# Sacks Use	d		Type and	Percent Additives	
Protect Casing Plug Back TD Plug Off Zone									
<ol> <li>Did you perform a hydra</li> <li>Does the volume of the</li> <li>Was the hydraulic fracture</li> </ol>	total base fluid of the	hydraulic fr	acturing treatment		-	☐ Yes ns? ☐ Yes ☐ Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Production/Inj Injection:	jection or Resumed Pr	oduction/	Producing Meth	iod:		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF GAS:		Ν	IETHOD OF COM	MPLE	TION:		PRODUCTIC Top	DN INTERVAL: Bottom
Vented Sold (If vented, Subn	Used on Lease		Open Hole		-	·	nit ACO-4)	юр	Bollom
	foration Perform Top Botto		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeezend of Material Used)	
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Becker Oil Corporation
Well Name	FROMHOLTZ 1
Doc ID	1358441

Tops

Name	Тор	Datum
Stone Corral Anhydrite	2446	(+447)
Heebner Shale	3903	(-1010)
Lansing Group	3940	(-1047)
Base Kansas City	4209	(-1316)
Pawnee	4332	(-1439)
Myrick Station	4369	(-1476)
Ft. Scott	4400	(-1507)
Cherokee Shale	4429	(-1536)
Base Penn. Ls.	4484	(-1591)
Miss.	4494	(-1601)
TD (Drlr.)	4560	(-1667)
TD (Log)	4562	(-1669)

Form	ACO1 - Well Completion
Operator	Becker Oil Corporation
Well Name	FROMHOLTZ 1
Doc ID	1358441

### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	24	241	common	3%cc, 2% gel

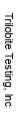
	RILOBITE	Becker Oil Corperation			36	10s 31w	, Tho	mas, KS	
	ESTING , INC.	PO Box 1150				omholtz		·	
		Ponka City, Ok 74602			Job	Ticket: 67	1324	DST	ſ#: 1
		ATTN: Clyde Becker			Tes	t Start: 20	017.03.0	)3 @ 21:59:(	0
GENERAL	INFORMATION:								
	LKC - GHI No Whipstock: ened: 00:22:15 led: 05:52:15	ft (KB)			Tes	ter:	Conven Bradley 78	tional Bottom Walter	ı Hole (Initial)
nterval:	4050.00 ft (KB) To 41	55.00 ft (KB) (TVD)			Ref	erence Ele	evations	: 2893	.00 ft (KB)
Total Depth:	4155.00 ft (KB) (Tv								.00 ft (CF)
Hole Diameter	: 7.88 inchesHole	Condition: Good				KB1	to GR/C	F: 5	.00 ft
<b>Serial #: 8</b> Press@RunDe Start Date: Start Time:		@ 4056.00 ft (KB) End Date: End Time:		2017.03.04 05:52:14	Capacity Last Calii Time On Time Off	b.: Btm:		8000 2017.03 8.04 @ 00:21 8.04 @ 03:30	:45
TEST COM	MENT: IF: BOB @ 5 min. ISI: 1" return, rec FF: BOB @ 6 min FSI: 7" return, rec	eded tp 1/2".							
TEST COM	ISI: 1" return, rec FF: BOB @ 6 min FSI: 7" return, rec Pressure vs. T	eded tp 1/2". ceded to 5". 						MMARY	
TEST COM	ISI: 1" return, rec FF: BOB @ 6 min FSI: 7" return, rec	eded tp 1/2". ceded to 5".		Time (Min.)	Pr Pressure (psig)	RESSUF Temp (deg F)	Anno	MMARY	
2000	ISI: 1" return, rec FF: BOB @ 6 min FSI: 7" return, rec Pressure vs. T	eded tp 1/2". ceded to 5". 	- 120	(Min.) 0	Pressure (psig) 2001.97	Temp (deg F) 108.17	Anno Initial I	otation Hydro-static	
2000	ISI: 1" return, rec FF: BOB @ 6 min FSI: 7" return, rec Pressure vs. T	eded tp 1/2". ceded to 5". 	- 110	(Min.) 0 1	Pressure (psig) 2001.97 53.75	Temp (deg F) 108.17 107.33	Anno Initial I Open	otation Hydro-static To Flow (1)	
2000	ISI: 1" return, rec FF: BOB @ 6 min FSI: 7" return, rec Pressure vs. T	eded tp 1/2". ceded to 5". 	-	(Min.) 0	Pressure (psig) 2001.97	Temp (deg F) 108.17 107.33 121.13	Anno Initial I Open Shut-I	otation Hydro-static To Flow (1)	
2300	ISI: 1" return, rec FF: BOB @ 6 min FSI: 7" return, rec Pressure vs. T	eded tp 1/2". ceded to 5". 		(Min.) 0 1 21 62 62	Pressure (psig) 2001.97 53.75 159.39 614.42 173.48	Temp (deg F) 108.17 107.33 121.13 120.28 120.05	Anno Initial I Open Shut-I End S Open	Hydro-static To Flow (1) n(1) hut-In(1) To Flow (2)	
2000	ISI: 1" return, rec FF: BOB @ 6 min FSI: 7" return, rec Pressure vs. T	eded tp 1/2". ceded to 5". 	110 110 100 100 100 	(Min.) 0 1 21 62 62 104	Pressure (psig) 2001.97 53.75 159.39 614.42 173.48 294.49	Temp (deg F) 108.17 107.33 121.13 120.28 120.05 124.81	Anno Initial I Open Shut-I End S Open Shut-I	Hydro-static To Flow (1) n(1) hut-In(1) To Flow (2) n(2)	
2000	ISI: 1" return, rec FF: BOB @ 6 min FSI: 7" return, rec Pressure vs. T BOT Resure	eded tp 1/2".	- 110 - 100 100 100 100 20 	(Min.) 0 1 21 62 62	Pressure (psig) 2001.97 53.75 159.39 614.42 173.48	Temp (deg F) 108.17 107.33 121.13 120.28 120.05	Anno Initial H Open Shut-I End S Open Shut-I End S	Hydro-static To Flow (1) n(1) hut-In(1) To Flow (2)	
2000 773 1250 1	ISI: 1" return, rec FF: BOB @ 6 min FSI: 7" return, rec Pressure vs. T BOFRESURE	eded tp 1/2".  ceded to 5". 		(Min.) 0 1 21 62 62 104 188	Pressure (psig) 2001.97 53.75 159.39 614.42 173.48 294.49 607.66	Temp (deg F) 108.17 107.33 121.13 120.28 120.05 124.81 122.91 123.38	Anno Initial I Open Shut-I End S Open Shut-I End S Final I	Hydro-static To Flow (1) n(1) hut-In(1) To Flow (2) n(2) hut-In(2) Hydro-static	
2000 1759 1250 1250 1250 1000 759 250 250 0 100 1000 1	ISI: 1" return, rec FF: BOB @ 6 min FSI: 7" return, rec Pressure vs. T BOG Pressure defensive de	eded tp 1/2".	- 110 - 100 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -	(Min.) 0 1 21 62 62 104 188	Pressure (psig) 2001.97 53.75 159.39 614.42 173.48 294.49 607.66	Temp (deg F) 108.17 107.33 121.13 120.28 120.05 124.81 122.91 123.38	Anno Initial I Open Shut-I End S Final I Final I	Hydro-static To Flow (1) n(1) hut-In(1) To Flow (2) n(2) hut-In(2) Hydro-static	Gas Rate (Mcf
2000 1750 1750 1200 1250 1000 759 500 10	ISI: 1" return, rec FF: BOB @ 6 min FSI: 7" return, rec Pressure vs. T BFGREAUE INFORMATIONI INFORMATIONI INFORMA	eded tp 1/2".	- 110 - 100 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -	(Min.) 0 1 21 62 62 104 188	Pressure (psig) 2001.97 53.75 159.39 614.42 173.48 294.49 607.66	Temp (deg F) 108.17 107.33 121.13 120.28 120.05 124.81 122.91 123.38	Anno Initial I Open Shut-I End S Final I Final I	etation Hydro-static To Flow (1) n(1) hut-ln(1) To Flow (2) n(2) hut-ln(2) Hydro-static	Gas Rate (Mcf
2000 7759 1500 750 500 750 500 750 750 750	ISI: 1" return, rec FF: BOB @ 6 min FSI: 7" return, rec Pressure vs. T BF6 Presure	eded tp 1/2".  ceded to 5".	- 110 - 100 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -	(Min.) 0 1 21 62 62 104 188	Pressure (psig) 2001.97 53.75 159.39 614.42 173.48 294.49 607.66	Temp (deg F) 108.17 107.33 121.13 120.28 120.05 124.81 122.91 123.38	Anno Initial I Open Shut-I End S Final I Final I	etation Hydro-static To Flow (1) n(1) hut-ln(1) To Flow (2) n(2) hut-ln(2) Hydro-static	Gas Rate (Mcf
2000 1750 1750 1000 760 500 760 770 770 770 770 770 770 7	ISI: 1" return, rec FF: BOB @ 6 min FSI: 7" return, rec Pressure vs. T BOG RESULE INTERNAL IN	eded tp 1/2".  ceded to 5".	- 110 - 100 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -	(Min.) 0 1 21 62 62 104 188	Pressure (psig) 2001.97 53.75 159.39 614.42 173.48 294.49 607.66	Temp (deg F) 108.17 107.33 121.13 120.28 120.05 124.81 122.91 123.38	Anno Initial I Open Shut-I End S Final I Final I	etation Hydro-static To Flow (1) n(1) hut-ln(1) To Flow (2) n(2) hut-ln(2) Hydro-static	Gas Rate (Mcf
2000 1750 1750 1000 1000 1000.00	ISI: 1" return, rec FF: BOB @ 6 min FSI: 7" return, rec Pressure vs. T BEFREENCE	eded tp 1/2".  ceded to 5".       	- 110 - 100 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -	(Min.) 0 1 21 62 62 104 188	Pressure (psig) 2001.97 53.75 159.39 614.42 173.48 294.49 607.66	Temp (deg F) 108.17 107.33 121.13 120.28 120.05 124.81 122.91 123.38	Anno Initial I Open Shut-I End S Final I Final I	etation Hydro-static To Flow (1) n(1) hut-ln(1) To Flow (2) n(2) hut-ln(2) Hydro-static	Gas Rate (Mcf

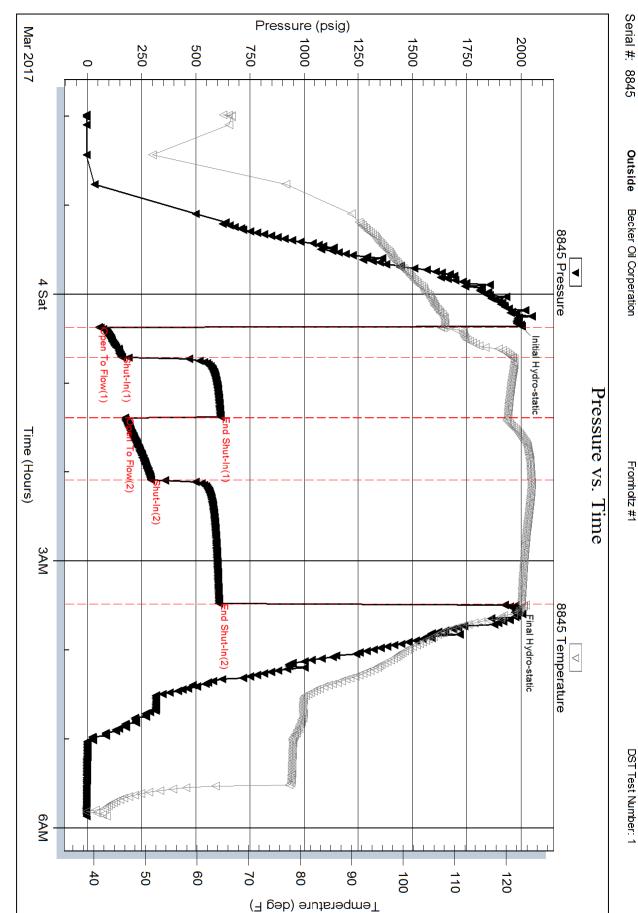
Image: Circle of the sector	N. 4-4/	RILOBITE	Becker Oil Corperation		36 10s 31	w, Thoma	as, KS	
ATTN: Oyde Bocker     Job Indet: 01324     Do Int.1       CENERAL INFORMATION:     Formation:     LKC - GH I       Deviated:     No     Whipstock:     ft (KB)       Time Test Ended: 0552:15     Test Type:     Conventional Bottom Hole (Initial)       Time Test Ended: 0552:15     Test Type:     Conventional Bottom Hole (Initial)       Time Test Ended: 0552:15     Test Type:     Conventional Bottom Hole (Initial)       Total Ender     7.88 Incheshole Condition: Good     KB to GRVCF:     5.00 ft (KB)       Start Date:     2017.03.03     End Date:     2017.03.04       Start Time:     2159.05     End Time:     2017.03.04     East Call bit:       Start Time:     2159.05     End Time:     2017.03.04     East Call bit:     2017.03.04       Start Time:     2159.05     End Time:     2017.03.04     East Call bit:     2017.03.04       TEST COMMENT:     Ft BOB @ 5 min.     St. 1* return, receded to 5*.     Time Off Bitrit     Time Off Bitrit       Recovery       Call Rates       Conventional Bottom Hole (Initial)       Time Test Hole & Total       Start Time:     2017.03.04       Start Time:     2017.03.04       Start Time:     2017.03.04       Time O		ESTING , INC.	I O BOX I IOU		Fromhol	tz #1		
GENERAL INFORMATION:         GENERAL INFORMATION:         Generation:         Life interval:         No       Winjstock:       ft (KB)         Test Type: Conventional Bottom Hole (Initial)         Test Type: Solve (KB) (TVD)         Reference Bevalions: 2893.00 ft (KB)         Capacity: 8305         Solve (KB) (TVD)         New Type: Conventional Bottom Hole (Initial)         Solve (KB) (TVD)         Reference Bevalions: 2893.00 ft (KB)         Solve (KB) (TVD)         Solve (True (Tru			Ponka City, Ok 74602		Job Ticket:	61324	DST#: 1	1
Formation: LKC - G H I Deviated: No Whipstock ft (KB) The Tool Openet: 002215 The Test Ended: 0552:15 The Test Ended: 0552:15 The Test Ended: 0552:15 The Dameter 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft (KB) Start Date: 2017.03.03 End Date: 2017.03.04 Start Date: 21159:06 Test Comments and the feature of the test of test			ATTN: Clyde Becker		Test Start:	2017.03.03 (	@ 21:59:00	
Deviated:       No       Whipstock:       ft (KB)       Test Type:       Conventional Bottom Hole (nitial)         Time Tool Opened:       00522:15       Test Type:       Eradley Wale:       Test Type:       Eradley Wale:         Interval:       4050.00 ft (KB) To 4155.00 ft (KB) (TVD)       Reference Elevations:       2893.00 ft (KB)       2888.00 ft (CP)         Fold Deph:       4155.00 ft (KB) (TVD)       Reference Elevations:       2893.00 ft (KB)         Serial #:       385       Inside       2017.03.03       End Date:       2017.03.04       Last Calib.:       2017.03.04         Start Time:       215.9.05       End Time:       05:52:14       Time On Btrr:       2017.03.04         Start Time:       21:59:05       End Time:       05:52:14       Time On Btrr:       2017.03.04         TEST COMMENT:       F: BOB @ 5 min.       FS: 1* return, receded to 1/2*.       FF: BOB @ 6 min.       FS: 1* return, receded to 5*.         Test True       216 @ 6 min.       FS: 0* return, receded to 5*.       Time Of Btrr:       Time Of Btrr:         Test Type:       Conde (none)       Monotation       (deg F)       Annotation         Minicipion       Minicipion       Cas Rates       Conde (none)       Time (main)         Minicipion       Minicipion       G	GENERAL I	NFORMATION:						
Total Depti:       4155.00 ft (KB) (TVD)       2888.00 ft (CF)         Hole Diameter:       7.88 inchesHole Condition: Good       KB to GRCF:       5.00 ft         Serial #: 8365       Inside       8000.00 psig       8000.00 psig         Presse@RunDepth:       2017.03.03       End Date:       2017.03.04       Last Calib ::       2017.03.04         Start Time:       21:59:05       End Time:       2017.03.04       Last Calib ::       2017.03.04         TEST COMMENT:       F: BOB @ 5 min.       Ft: BOB @ 6 min.       Ft: BOB @ 6 min.       Ft: BOB @ 6 min.         St 1* return, receded tp 1/2".       Ft: BOB @ 6 min.       Ft: BOB @ 6 min.       Ft: BOB @ 6 min.         Ft: BOB @ 6 min.       Ft: Presure to Time       Time Off Btm:       Time Off Btm:         Test 0       Gas Rates       Manotation       Manotation         Model of the form of t	Deviated: Time Tool Open	No Whipstock: ned: 00:22:15	ft (KB)		Tester:	Bradley Wa		le (Initial)
Hole Diameter:       7.88 inchesHole Condition: Good       KB to GRUCF:       5.00 ft         Serial #: 8365       Inside Press@RunDepth:       psig @ 4056.00 ft (KB) Start Date:       Capacity::       8000.00 psig         Start Time:       2017.03.03       End Date:       2017.03.04       Last Calib::       2017.03.04         Start Time:       21:59.05       End Time:       05:52:14       Time On Btm:       2017.03.04         TEST COMMENT:       F: BOB @ 5 min. Bit 1"return, receded tp 1/2". FF: BOB @ 6 min. FSI: 7" return, receded to 5".       Time Off Btm:       Time Off Btm:         Term Off Btm:         Term Off Btm:         Time Of Btm:         Term Off Btm:         Time Of Btm:         Term Off Btm:	Interval:	4050.00 ft (KB) To 41	55.00 ft (KB) (TVD)		Reference	Elevations:	2893.00	ft (KB)
Serial #: 8365       Inside         Press@RunDepth:       psig @       4056.00 ft (KB)       Capacity:       8000.00 psig         Start Date:       2017.03.04       Last Calib::       2017.03.04         Start Time:       2159.05       End Time:       05:52:14       Time On Bitri:         TEST COMMENT:       F: BOB @ 5 min.       ISt 1" return, receded to 5".       Time Off Bitri:         Pressure vs Time         OF SUPE SUMMARY         Time off Bitri:         Time off Bitri:         Time off Bitri:         Superior vs Time         Pressure vs Time         Pressure vs Time         Time off Bitri:         Colspan="2">Time off Bitri:         Bitri								. ,
Press@RunDepth: psig @ 4056.00 ft (KB) Capacity: 8000.00 psig Start Date: 2017.03.03 End Date: 2017.03.04 Last Calib.: 2017.03.04 Time OB Bim THE COMMENT: FF: BOB @ 5 min. IS: 1" return, receded to 11/2". FF: BOB @ 6 min. FSI: 7" return, receded to 5".	Hole Diameter:	7.88 inchesHole	Condition: Good		ĸ	B to GR/CF:	5.00	ft
Start Date: 2017.03.03 End Date: 2017.03.04 Last Calib.: 2017.03.04 Start Time: 21:59:05 End Time: 2017.03.04 Time On Btm: The Off Btm: TEST COMMENT: IF: BOB @ 5 min. Si: 1" return, receded tp 1/2". FF: BOB @ 6 min. FS: 7" return, receded tp 5".								
Start Time: 21:59.05 End Time: 05:52:14 Time On Bim: Time Off Bim: TEST COMMENT: IF: BOB @ 6 min. FS: 1" return, receded to 1/2". FF: BOB @ 6 min. FSI: 7" return, receded to 5".			-	2017 02 04				1 0
TEST COMMENT: IF: BOB @ 5 min. Bit: 1" return, receded to 1/2". Fi: BOB @ 6 min. Fit: 7" return, receded to 5".							2017.03.04	
St. 1° return, receded to 1/2°. F: BOB @ 6 min. Fist 7° return, receded to 5°. Pressure vs. Time PRESSURE SUMMARY Time (Mn.) Pressure (psig) Annotation (deg F)				00102111				
Image: constrained of the second of the s		Pressure vs. T	ime		DDESSI			
Length (ft)         Description         Volume (bbl)           520.00         gmcw 5g 15m 80w         6.21           100.00         gow cm 25g 10o 10w 55m         1.40           100.00         go 30g 70o         1.40	2000 -			(Min)	Pressure Temp	Annotat		
520.00         gmcw 5g 15m 80w         6.21           100.00         gow cm 25g 10o 10w 55m         1.40           100.00         go 30g 70o         1.40				- 190 - 190 - 90 - 90 - 70 - 70 - 70 - 70 - 70 - 70 - 70 - 7	Pressure Temp	Annotat		
100.00     gow cm 25g 10o 10w 55m     1.40       100.00     go 30g 70o     1.40		A Constraints of the second se		- 190 - 190 - 90 - 90 - 70 - 70 - 70 - 70 - 70 - 70 - 70 - 7	Pressure Temp (psig) (deg l	Annotat		
100.00 go 30g 70o 1.40	1759 1000 100 1000 1	ASSE Presure	B305 Tempenalue	- 190 - 190 - 90 - 90 - 70 - 70 - 70 - 70 - 70 - 70 - 70 - 7	Pressure Temp (psig) (deg l	Annotat F) Gas Rates	tion	as Rate (Mcf/d)
	1729 1729	15d Tree(kars) Recovery Description gmcw 5g 15m 80w	B305 Tempinare	- 190 - 190 - 90 - 90 - 70 - 70 - 70 - 70 - 70 - 70 - 70 - 7	Pressure Temp (psig) (deg l	Annotat F) Gas Rates	tion	as Rate (Mcf/d)
	1759 1000 759 279 279 279 279 279 279 279 27	All	B30 Temporare B30 Temporare Volume (bbl) 6.21 m 1.40	- 190 - 190 - 90 - 90 - 70 - 70 - 70 - 70 - 70 - 70 - 70 - 7	Pressure Temp (psig) (deg l	Annotat F) Gas Rates	tion	as Rate (Mcf/d)
	1730 1730 1730 1730 1730 1730 1730 1730 100 100 100 100 100 100 100 1	Exception     Secore plan     Secore pla	3360 Tempenare 3360 Tempenare Volume (bbl) 6.21 m 1.40 1.40	- 190 - 190 - 90 - 90 - 70 - 70 - 70 - 70 - 70 - 70 - 70 - 7	Pressure Temp (psig) (deg l	Annotat F) Gas Rates	tion	as Rate (Mcf/d)
	1730 1530	Exception     Secore plan     Secore pla	3360 Tempenare 3360 Tempenare Volume (bbl) 6.21 m 1.40 1.40	- 190 - 190 - 90 - 90 - 70 - 70 - 70 - 70 - 70 - 70 - 70 - 7	Pressure Temp (psig) (deg l	Annotat F) Gas Rates	tion	as Rate (Mcf/d

Will USTEWTEST REPORT         Becker Oil Corperation       36 10s 31w, Thomas,         PO Box 1150       Fromholtz #1         Doka City, Ok 74602       Job Ticket: 61324         ATTN: Clyde Becker       Test Start: 2017.03.03 @ 2         Mud Yopgin:       Golb bigal       Cushion Type:         Mud Yopgin:       Golb bigal       Cushion Length:       ft         Water Salinity:       Viscosity:       64.00 sec/qt       Oushion Volume:       bbl         Water Loss:       6.80 in <sup>2</sup> Gas Cushion Pressure:       psig         Salinity:       1700.00 ppm       Fitter Cake:       inches         Recovery Information       Recovery Table       Outware         Length       Description       Volume         100.00       go 30g 700       1.403         0.00       660 GiP       0.000         0.00       660 GiP       0.000         Otal Length:       720.01 ft       Total Volume:       9.016 bbl         Mum Fluid Samples: 0       Num Gas Bombs:       0       Serial #:         Laboratory Name:       Laboratory Location:       Recovery Contents: rw is .379 @ 41f = 32000ppm	
Ponka City, Ok 74602       Job Ticket: 61324         ATTN:       Clyde Becker       Test Start: 2017.03.03 @ 2         Aud and Cushion Information       AtTN:       Cushion Type:       Oil AP:         Aud Ype:       Gel Chem       Cushion Length:       ft       Water Salinity:         Aud Weight:       9.00 lb/gal       Cushion Length:       ft       Water Salinity:         Vater Loss:       6.80 in <sup>3</sup> Gas Cushion Type:       Bol         Vater Loss:       6.80 in <sup>3</sup> Gas Cushion Type:       Bol         Vater Loss:       6.80 in <sup>3</sup> Gas Cushion Pressure:       psig         Salinity:       1700.00 ppm       Bol       Bol       Bol         Recovery Information       Recovery Table       Elength       Description       Volume         Modio       going goi	KS
ATTN: Clyde Becker Test Start: 2017.03.03 @ 2 Aud and Cushion Information Aud Type: Gel Chem Cushion Type: Oil AP: Aud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: Aud Weight: 9.00 sec/qt Cushion Volume: bbl Vater Loss: 6.80 in <sup>3</sup> Gas Cushion Type: Resistivity: ohm.m Gas Cushion Pressure: psig Salinity: 1700.00 ppm Titler Cake: inches Recovery Information  Length Description Volume bbl 520.00 gmcw 5g 15m 80w 6.210 100.00 go 30g 70o 1.403 100.00 go 30g 70o 1.403 100.00 go 30g 70o 1.403 0.00 660 GIP 0.000  Total Length: 720.00 ft Total Volume: 9.016 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:	
Aud and Cushion Information         Aud Type:       Gel Chem       Cushion Type:       Oil API:         Aud Weight:       9.00 lb/gal       Cushion Length:       ft       Water Salinity:         /iscosity:       64.00 sec/qt       Cushion Volume:       bbl       bbl         Vater Loss:       6.80 in <sup>3</sup> Gas Cushion Type:       Besistivity:       ohm.m       Gas Cushion Pressure:       psig         Salinity:       1700.00 ppm       Total Length       Description       Volume       bbl         Recovery Information         Clength       Description       Volume         ft       Description       Volume       bbl         100.00       go 30g 70o       1.403       0.000         Total Length:       720.00 ft       Total Volume:       9.016 bbl         Num Fluid Samples: 0       Num Gas Bombs:       0       Serial #:         Laboratory Name:       Laboratory Location:       Serial #:	DST#: 1
Aud Type: Gel Chem Cushion Type: Oil API: Aud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: /iscosity: 64.00 sec/qt Cushion Volume: bbl Vater Loss: 6.80 in <sup>3</sup> Gas Cushion Type: Resistivity: ohm.m Gas Cushion Pressure: psig Salinity: 1700.00 ppm iffter Cake: inches Recovery Information Recovery Information $\frac{Length ft Description Volume bbl}{520.00 gmcw 5g 15m 80w 6.210} \\ 100.00 go 30g 70o 14.003 \\ 100.00 go 30g 70o 14.003 \\ 0.00 660 GIP 0.000$ Total Length: 720.00 ft Total Volume: 9.016 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:	1:59:00
Mud Weight:       9.00 lb/gal       Cushion Length:       ft       Water Salinity:         Viscosity:       64.00 sec/qt       Cushion Volume:       bbl         Vater Loss:       6.80 in <sup>3</sup> Gas Cushion Type:       bbl         Lesistivity:       ohm.m       Gas Cushion Pressure:       psig         ialinity:       1700.00 ppm       inches       station Pressure:       psig         Recovery Information         Clength       Description       Volume         ft       100.00       gow cm 25g 100 10w 55m       1.403         100.00       go 30g 70o       1.403       0.000         100.00       go 30g 70o       1.403       0.000         Total Length:       720.00 ft       Total Volume:       9.016 bbl         Num Fluid Samples: 0       Num Gas Bombs:       0       Serial #:         Laboratory Name:       Laboratory Location:       Serial #:	
riscosity: 64.00 sec/qt Cushion Volume: bbl Vater Loss: 6.80 in³ Gas Cushion Type: Lesistivity: ohm.m Gas Cushion Pressure: psig alinity: 1700.00 ppm ilter Cake: inches Recovery Information Recovery Table Length Description Volume ft Description Volume bbl 520.00 gmcw 5g 15m 80w 6.210 100.00 go w cm 25g 10o 10w 55m 1.403 100.00 go 30g 70o 1.403 100.00 go 30g 70o 1.403 100.00 go 30g 70o 1.403 0.00 660 GIP 0.000 Total Length: 720.00 ft Total Volume: 9.016 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:	40 deg API
Vater Loss:       6.80 in <sup>3</sup> Gas Cushion Type:         esistivity:       ohm.m       Gas Cushion Pressure:       psig         alinity:       1700.00 ppm       inches	32000 ppm
esistivity: ohmm Gas Cushion Pressure: psig alinity: 1700.00 ppm ter Cake: inches ecovery Information Ecovery Information Length Description Volume ft Description Volume bbl 520.00 gmcw 5g 15m 80w 6.210 100.00 go vcm 25g 10o 10w 55m 1.403 100.00 go 30g 70o 1.403 0.00 660 GIP 0.000 Total Length: 720.00 ft Total Volume: 9.016 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:	
alinity: 1700.00 ppm Iter Cake: inches Recovery Information Recovery Table Length Description Volume bbl 520.00 gmcw 5g 15m 80w 6.210 100.00 go x cm 25g 10o 10w 55m 1.403 100.00 go 30g 70o 1.403 0.00 660 GIP 0.000 Total Length: 720.00 ft Total Volume: 9.016 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:	
Iter Cake:         inches           Recovery Information         Recovery Table           Length         Description         Volume bbl           520.00         gmcw 5g 15m 80w         6.210           100.00         gow cm 25g 10o 10w 55m         1.403           100.00         go 30g 70o         1.403           0.00         660 GIP         0.000           Total Length:         720.00 ft         Total Volume:         9.016 bbl           Num Fluid Samples: 0         Num Gas Bombs:         0         Serial #:           Laboratory Name:         Laboratory Location:         Volume:	
Lecovery Information         Length       Description       Volume         ft       Description       6.210         520.00       gmcw 5g 15m 80w       6.210         100.00       gow cm 25g 10o 10w 55m       1.403         100.00       go 30g 70o       1.403         0.00       660 GIP       0.000         Total Length:       720.00 ft       Total Volume:       9.016 bbl         Num Fluid Samples: 0       Num Gas Bombs:       0       Serial #:         Laboratory Name:       Laboratory Location:       100.00       Serial #: <td></td>	
Recovery TableLength ftDescriptionVolume bbl520.00gmcw 5g 15m 80w6.210100.00gow cm 25g 10o 10w 55m1.403100.00go 30g 70o1.4030.00660 GIP0.000Total Length: 720.00 ft720.00 ftTotal Volume:9.016 bblNum Fluid Samples: 0Num Gas Bombs:0Serial #:Laboratory Name:Laboratory Location:	
Length ft         Description         Volume bbl           520.00         gmcw 5g 15m 80w         6.210           100.00         gow cm 25g 10o 10w 55m         1.403           100.00         go 30g 70o         1.403           0.00         660 GIP         0.000           Total Length:         720.00 ft         Total Volume:         9.016 bbl           Num Fluid Samples: 0         Num Gas Bombs:         0         Serial #:           Laboratory Name:         Laboratory Location:         Laboratory Location:	
ft         bbl           520.00         gmcw 5g 15m 80w         6.210           100.00         gow cm 25g 10o 10w 55m         1.403           100.00         go 30g 70o         1.403           0.00         660 GIP         0.000           Total Length:         720.00 ft         Total Volume:         9.016 bbl           Num Fluid Samples: 0         Num Gas Bombs:         0         Serial #:           Laboratory Name:         Laboratory Location:         Value Samples:         Value Samples:	
100.00         gow cm 25g 10o 10w 55m         1.403           100.00         go 30g 70o         1.403           0.00         660 GIP         0.000           Total Length:         720.00 ft         Total Volume:         9.016 bbl           Num Fluid Samples:         0         Num Gas Bombs:         0         Serial #:           Laboratory Name:         Laboratory Location:         1000000000000000000000000000000000000	
100.00       go 30g 70o       1.403         0.00       660 GIP       0.000         Total Length:       720.00 ft       Total Volume:       9.016 bbl         Num Fluid Samples:       0       Num Gas Bombs:       0       Serial #:         Laboratory Name:       Laboratory Location:       Laboratory       Laboratory	
0.00       660 GIP       0.000         Total Length:       720.00 ft       Total Volume:       9.016 bbl         Num Fluid Samples: 0       Num Gas Bombs:       0       Serial #:         Laboratory Name:       Laboratory Location:       Laboratory Location:	
Total Length: 720.00 ft Total Volume: 9.016 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:	
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:	
Laboratory Name: Laboratory Location:	
Laboratory Name: Laboratory Location:	

Printed: 2017.03.04 @ 07:37:54

Ref. No: 61324





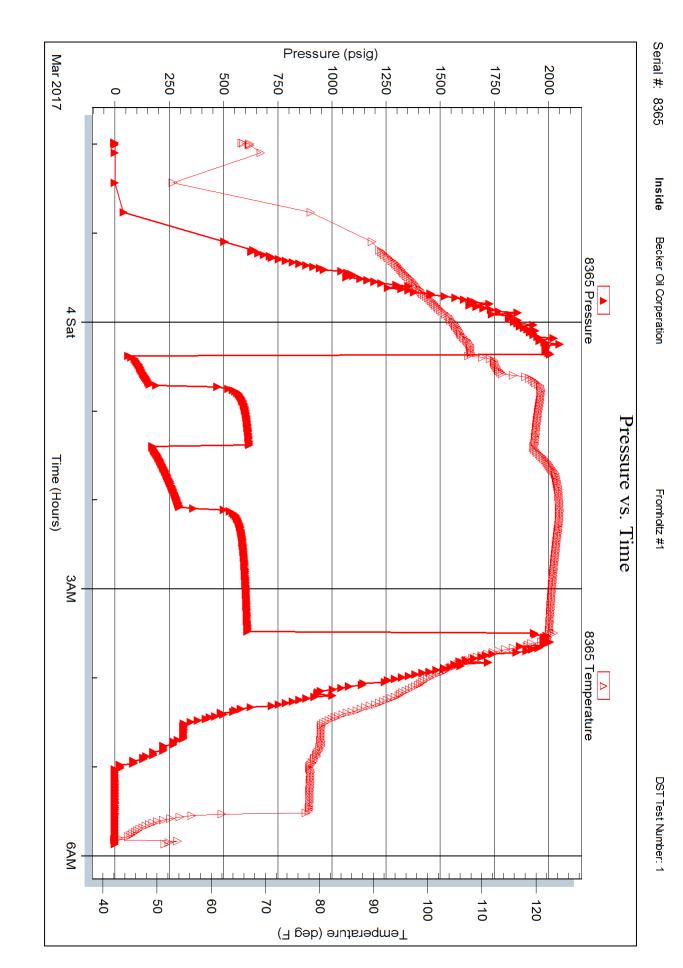
DST Test Number: 1

Serial #: 8845 Outside Becker Oil Corperation

Printed: 2017.03.04 @ 07:37:54

Ref. No: 61324

Trilobite Testing, Inc



	DRILL STEM TES	T REP	ORT				
RILOBITE	Becker Oil Corperation		36 10	0s 31w,	Thomas	, KS	
ESTING , INC	PO Box 1150		Fron	nholtz #	#1		
	Ponka City, Ok 74602		Job Ti	icket: 613	325	DST#:	:2
	ATTN: Clyde Becker		Test S	Start: 201	17.03.04 @	23:53:00	
GENERAL INFORMATION:							
Formation:Pawnee - Myric StateDeviated:NoWhipstock:Time Tool Opened:02:22:30Time Test Ended:07:17:30	ti ft (KB)		Test T Teste Unit N	r: B	Conventional Bradley Walto 8		ole (Reset)
Interval:4305.00 ft (KB) To43Total Depth:4395.00 ft (KB) (TVHole Diameter:7.88 inchesHole			Refer	ence ⊟ev KB to	vations:	2888.00	0 ft (KB) 0 ft (CF) 0 ft
Serial #: 8845OutsidePress@RunDepth:130.25 psigStart Date:2017.03.04Start Time:23:53:05TEST COMMENT:IF: 4" blow . ISI: No return.	@ 4306.00 ft (KB) End Date: End Time:	2017.03.05 07:17:29	Capacity: Last Calib.: Time On Bt Time Off Bi	tm: 2	2 017.03.05 @ 017.03.05 @	-	5
FF: 4" blow . FSI: No return. Pressure vs. 13	inne	1	PRE	ESSURI	E SUMM/	ARY	
2270 - 2395 Pressure	2845 Temperature	Time	Pressure	Temp	Annotatio		
		(Min.) 0		(deg F) 111.72	Initial Hydro	-static	
	- 110	1			Open To Flo	ow (1)	
1530		28 72	94.34 986.05		Shut-In(1) End Shut-In	(1)	
		73			Open To Flo	ow (2)	
		106 181	130.25 988.75		Shut-In(2) End Shut-In	(2)	
70 500 200 55an 34d Time(Has)		183	2151.39		Final Hydro		
Recovery			ļļ_	Gas	Rates		
Length (ft) Description	Volume (bbl)			Choke (in		e (psig)	Gas Rate (Mcf/d)
250.00 mcw 40m 60w (oil spots)	) 2.42						
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 61325			Drintod: (	2017.03.05	@ 11.10.2	20

RILOBITE	Becker Oil Corperation		36 10s 31	w, Thoma	s, KS
TESTING , INC.	PO Box 1150		Fromholt		
	Ponka City, Ok 74602		Job Ticket: (	61325	DST#:2
	ATTN: Clyde Becker		Test Start: 2	2017.03.04 @	) 23:53:00
GENERAL INFORMATION:					
Formation:     Pawnee - Myric Stat       Deviated:     No     Whipstock:       Time Tool Opened:     02:22:30       Time Test Ended:     07:17:30	ti ft (KB)		Test Type: Tester: Unit No:	Conventiona Bradley Wa 78	al Bottom Hole (Reset) Iter
Atterval:         4305.00 ft (KB) To         4395.00 ft (KB) (TV           Total Depth:         4395.00 ft (KB) (TV           Hole Diameter:         7.88 inchesHole			Reference E KE	evations:	2893.00 ft (KB) 2888.00 ft (CF) 5.00 ft
Serial #: 8365       Inside         tress@RunDepth:       psig         start Date:       2017.03.04         start Time:       23:53:05         TEST COMMENT:       IF: 4" blow . ISI: No return.	<ul> <li>4306.00 ft (KB)</li> <li>End Date:</li> <li>End Time:</li> </ul>	2017.03.05 07:15:32	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 psig 2017.03.05
FSI: No return.		nture (deg F)	PRESSU Pressure Temp (psig) (deg F	RE SUMM	
regin (ft) Description 250.00 mcw 40m 60w (oil spots)	Volume (bbl)			as Rates (inches) Pressi	ure (psig) Gas Rate (Mcf/d)

	DRI	LL STEM TEST REPO	ORT	FL	
	Becker	Oil Corperation	36 10s 31v	w, Thomas, KS	6
RILOBITE		1150 Xity, Ok 74602	Fromholt: Job Ticket: 6		DST#:2
	ATTN:	Clyde Becker	Test Start: 2	2017.03.04 @ 23:5	3:00
Mud and Cushion Informat	ion				
Mud Type:Gel ChemMud Weight:9.00 lb/galViscosity:50.00 sec/qtWater Loss:7.99 in³Resistivity:ohm.mSalinity:2200.00 ppmFilter Cake:1.00 inches		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil API: Water Salinity:	0 deg API 39000 ppm
Recovery Information		Recovery Table			
	Length ft	Description	Volume bbl		
	250.00	mcw 40m 60w (oil spots)	2.42	3	
Recovery	Comments: rw	is .325 @ 42F = 39000ppm			
Trilobite Testing, Inc	Re	ef. No: 61325	Printed	d: 2017.03.05 @ 1 <sup>-</sup>	1:18:32

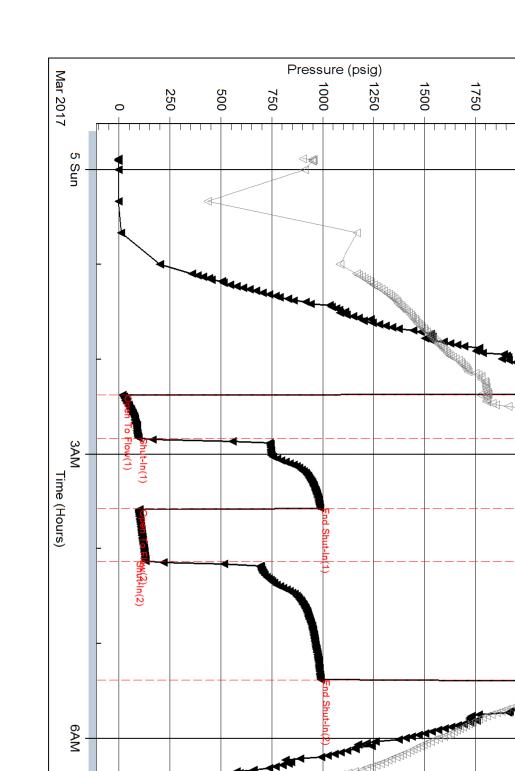
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50

60

Ref. No: 61325

Trilobite Testing, Inc



AND A CONTRACTOR

90

Temperature (deg F)

80

70

DST Test Number: 2

Serial #: 8845 Outside Becker Oil Corperation

2250 -

▼ 8845 Pressure

Initial Hydro-static

2000

Fromholtz #1

Pressure vs. Time

8845 Temperature

Final Hydro-static

**7** 

120

110

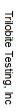
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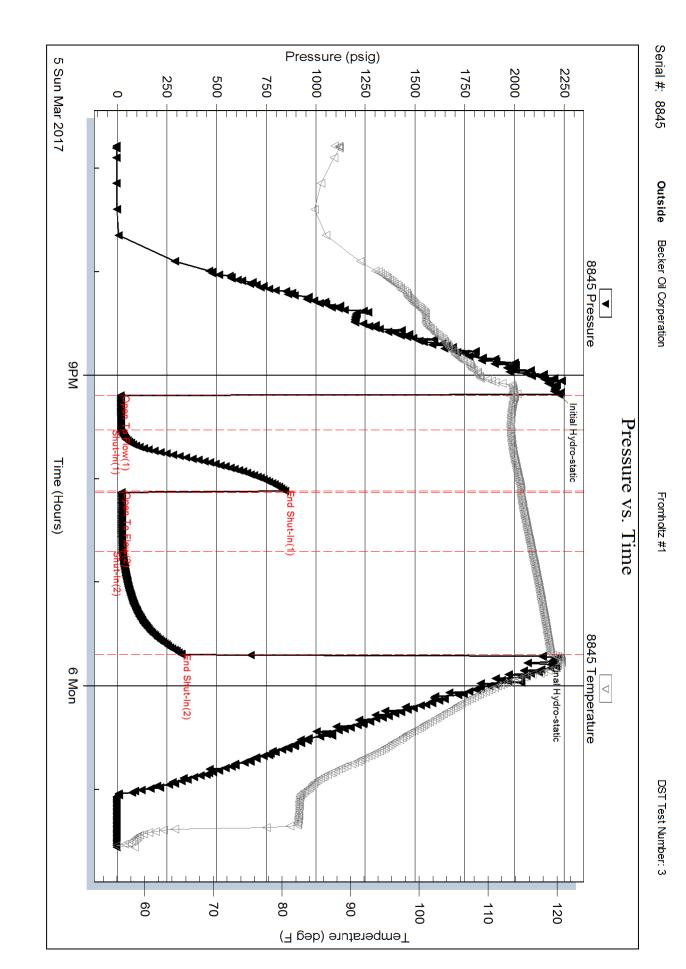
	DRILL STEM TES	TREP	ORT			
RILOBITE -	Becker Oil Corperation		36 10	0s 31w, 1	Гhomas, KS	
ESTING , INC.	PO Box 1150		From	nholtz #1	I	
	Ponka City, Ok 74602		Job Ti	icket: 6375	51 <b>DS</b>	Г#: З
	ATTN: Clyde Becker		Test S	Start: 2017	7.03.05 @ 18:47:0	00
GENERAL INFORMATION:						
Formation:CherokeDeviated:NoWhipstock:Time Tool Opened:21:11:30Time Test Ended:01:33:15	ft (KB)		Test T Tester Unit N	r: Bra	nventional Bottom adley Walter	n Hole (Reset)
Interval:         4475.00 ft (KB) To         4524           Total Depth:         4520.00 ft (KB) (TV E         4520.00 ft (KB) (TV E           Hole Diameter:         7.88 inches Hole C	))		Refere	ence Eleva KB to 0	2888	8.00 ft (KB) 8.00 ft (CF) 5.00 ft
Serial #: 8845OutsidePress@RunDepth:25.46 psig @Start Date:2017.03.05Start Time:18:47:05TEST COMMENT:IF: Surface blow .ISI: No return.ISI: No return.FF: Weak surface		2017.03.06 01:33:14	Capacity: Last Calib.: Time On Bt Time Off Bt	:m: 201	8000 2017.03 17.03.05 @ 21:11 17.03.05 @ 23:42	:00
FSI: No return.		1	DDD		SUMMARY	
The sine vs. And The sine vs	Turning return (Ger)	Time (Min.) 0 1 21 56 57 92 151 152	Pressure (psig) 2223.31 17.78 20.04 845.39 21.63 25.46 324.44	Temp (deg F) 114.27 In 113.05 C 113.32 S 114.85 E 114.74 C 116.37 S 119.13 E	Annotation itial Hydro-static open To Flow (1) hut-ln(1) nd Shut-ln(1) open To Flow (2) hut-ln(2) nd Shut-ln(2) inal Hydro-static	
Recovery				Gas I	1	
Length (ft)     Description       20.00     socm 2o 98m	Volume (bbl) 0.10			Choke (inch	es) Pressure (psig)	Gas Rate (Mcf/d)
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 63751			Drintad: 20	17.03.06 @ 07:1	8.52

	DRILL STEM TES		ORT			
RILOBITE	Becker Oil Corperation		36 10s 31	lw, Thoma	s, KS	
ESTING , INC	PO Box 1150 Ponka City, Ok 74602		Fromhol Job Ticket:		DST#:3	2
	ATTN: Clyde Becker			2017.03.05 @		•
GENERAL INFORMATION:						
Formation:CherokeeDeviated:NoWhipstock:Time Tool Opened:21:11:30Time Test Ended:01:33:15	ft (KB)		Test Type: Tester: Unit No:	Convention Bradley Wa 78	al Bottom Hol alter	e (Reset)
Interval:4475.00 ft (KB) To45Total Depth:4520.00 ft (KB) (TVHole Diameter:7.88 inchesHole				Elevations: B to GR/CF:	2893.00 2888.00 5.00	ft (CF)
Serial #: 8365 Inside			0		0000.00	
Press@RunDepth:psigStart Date:2017.03.05Start Time:18:47:05	<ul><li>4476.00 ft (KB)</li><li>End Date:</li><li>End Time:</li></ul>	2017.03.06 01:33:14	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 2017.03.06	psig
FSI: No return. Pressure vs. T			PRESS	URE SUMM	IARY	
220 200 100 100 100 100 100 100	SD5 Impender	Time (Min.)	Pressure Temp (psig) (deg		ion	
Recovery				Gas Rates	(	<b>D</b> ( ( ( ))
Length (ft)     Description       20.00     socm 2o 98m	Volume (bbl) 0.10		Cho	ke (inches) Press	sure (psig) Ga	is Rate (Mcf/d)
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 63751		Printe	ed: 2017.03.06	6 @ 07:18:52	,

Printed: 2017.03.06 @ 07:18:52

Ref. No: 63751

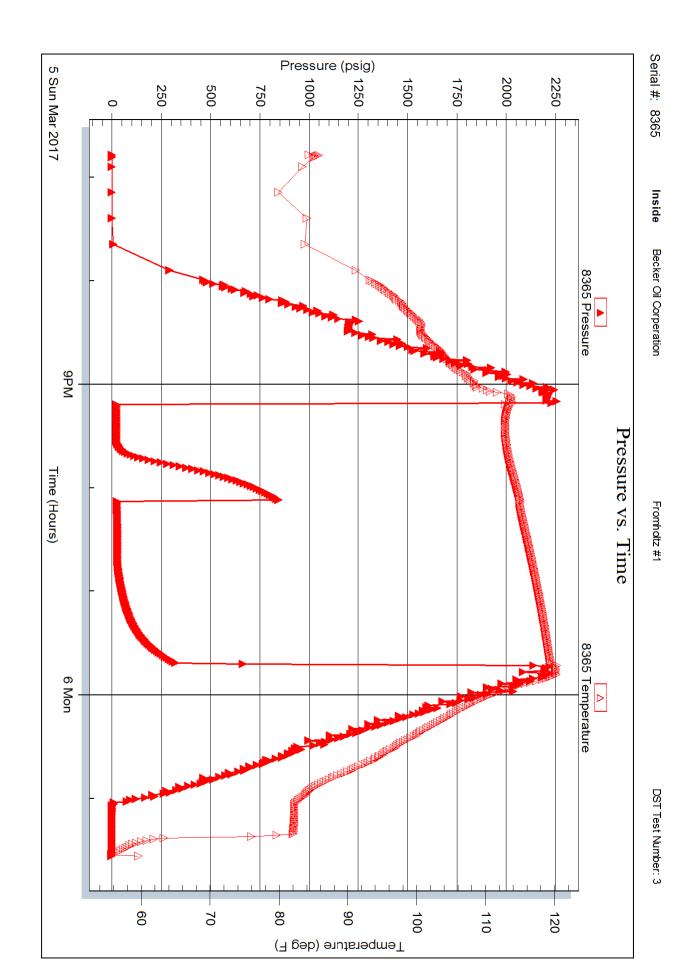




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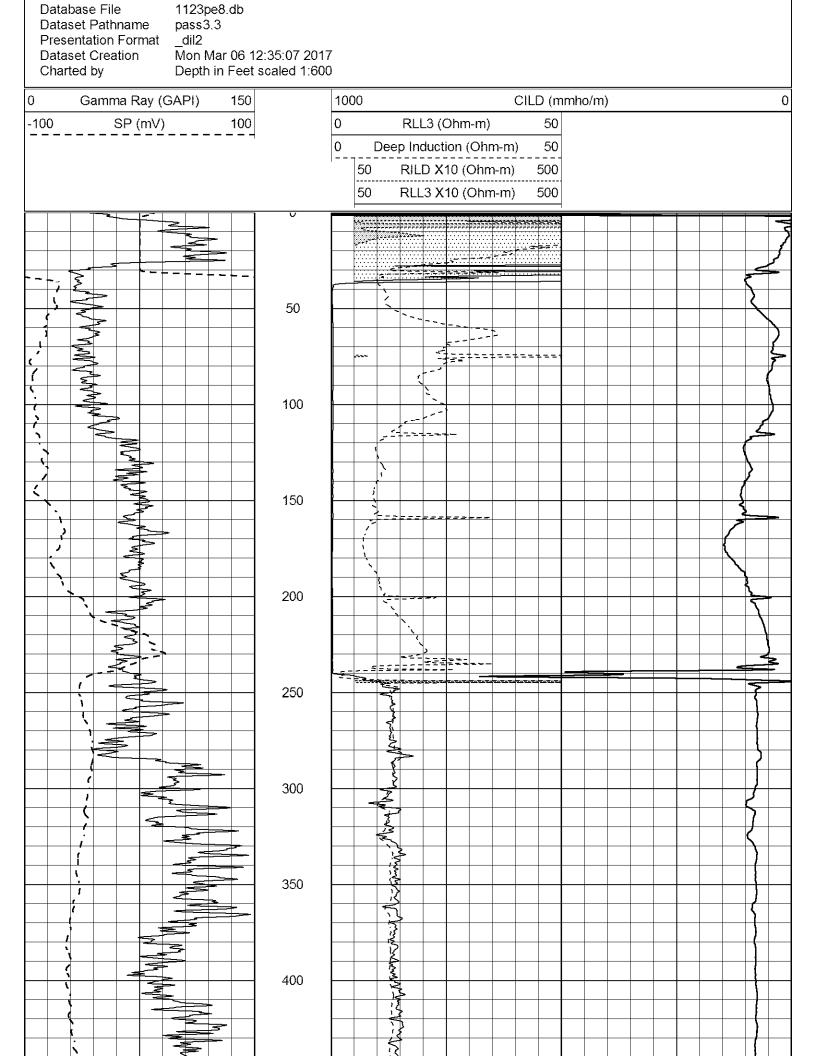
Trilobite Testing, Inc

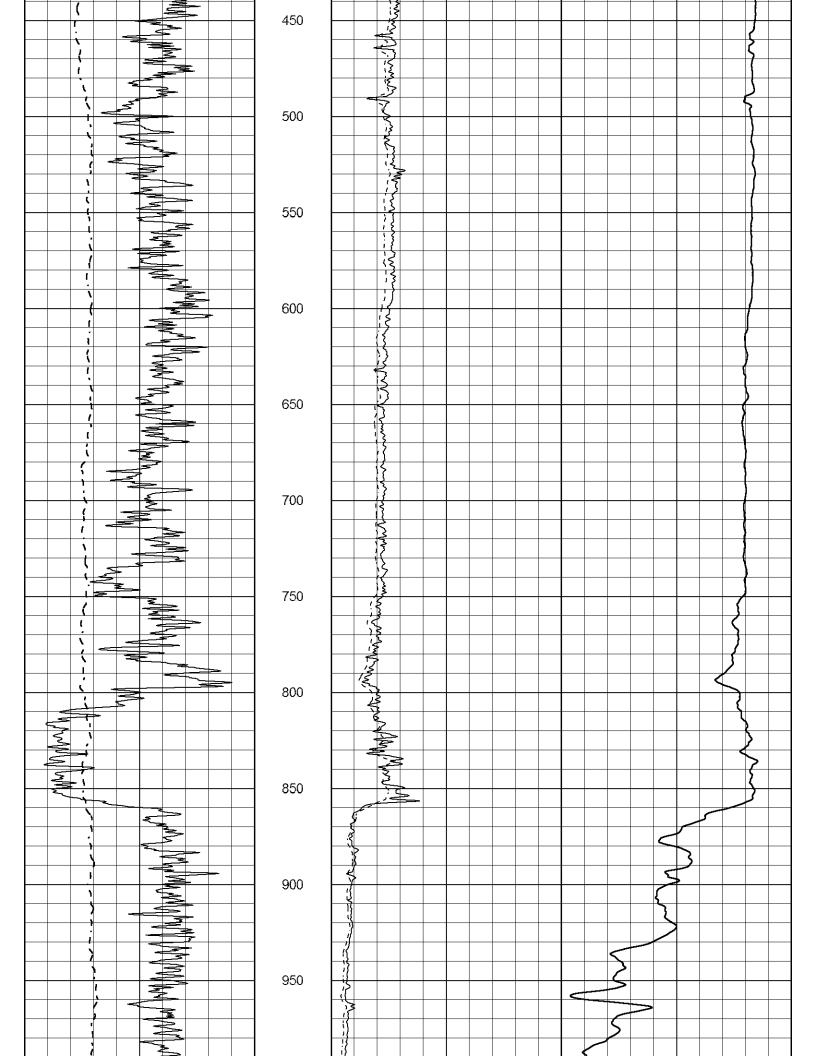


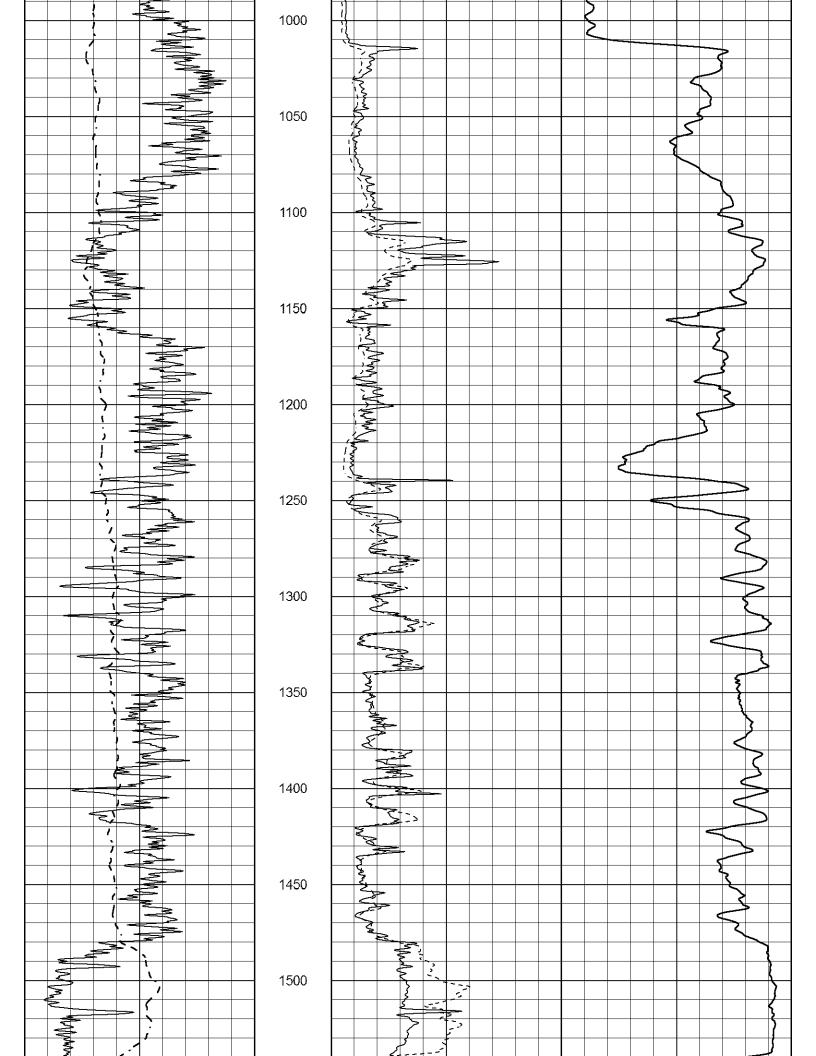
	INDUCTION	
	Company BECKER OIL CORPORATION	
N	Well #1 FROMHOLTZ	
RATIC	Field	
ORPO Z	County THOMAS State KAI	KANSAS
IHOL I	Location: API # : 15-193-20989-0000	Other Services
CKER FROM OMAS NSAS	2306' FSL & 990' FEL	
#1 TH	SEC 36 TWP 10S RGE 31W	Elevation
Company /Vell Field County State	Permanent Datum GROUND LEVEL Elevation 2888 Log Measured From KELLY BUSHING 5' A.G.L Drilling Measured From KELLY BUSHING	K.B. 2893 D.F. 2891 G.L. 2888
Date	3/6/17	
Run Number	ONE	
Depth Uniler	4560	
Bottom Logged Interval		
Top Log Interval	00 5.0" @ 244	
Casing Logger	241	
Bit Size		
Density / Viscosity		
pH / Fluid Loss	10.5/8.0	
Source of Sample	FLOWLINE	
Rm @ Meas. Temp	1.3 @ 77F	
Rmf @ Meas. Temp	.97 @ 77F	
Rmc @ Meas. Temp	1.5 @ 77F	
Source of Rmf/Rmc	MEASUREMENT	
Time Logger on Bottom	m 2 HOURS	
Maximum Recorded Temperature	emperature 121F	
Equipment Number		
Location	HAYS, KANSAS	
Recorded By Witnessed By	CI VITE RECKER	
,		

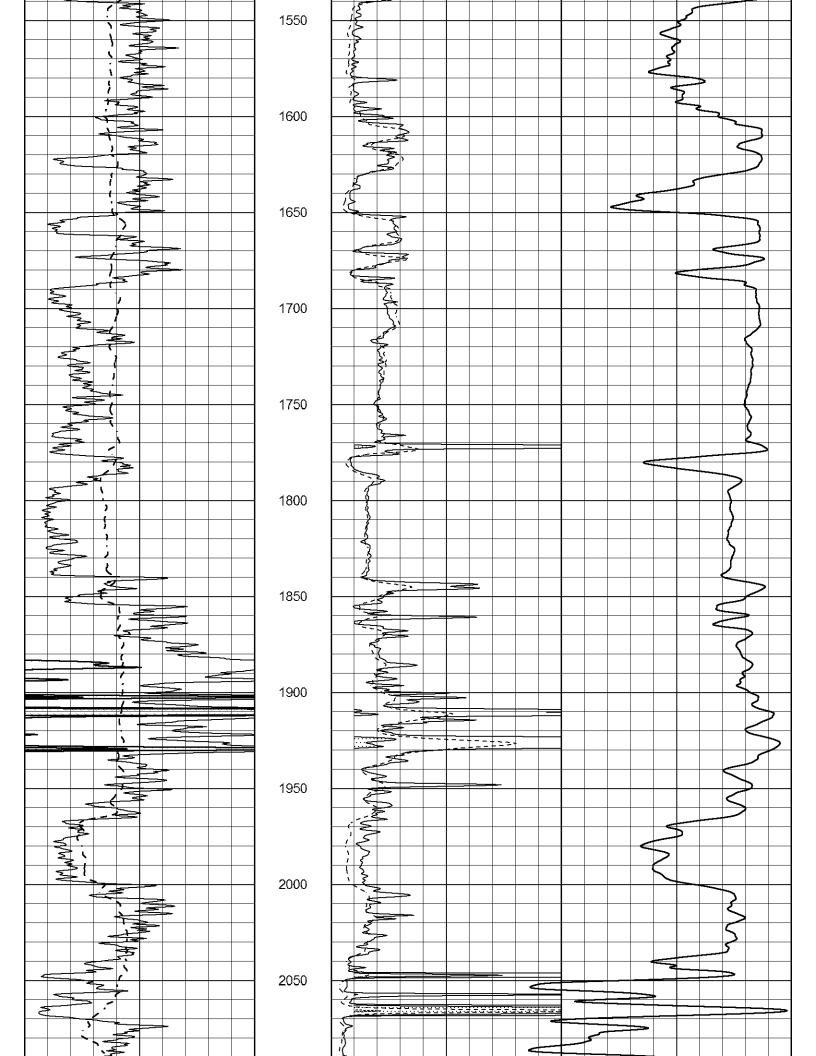
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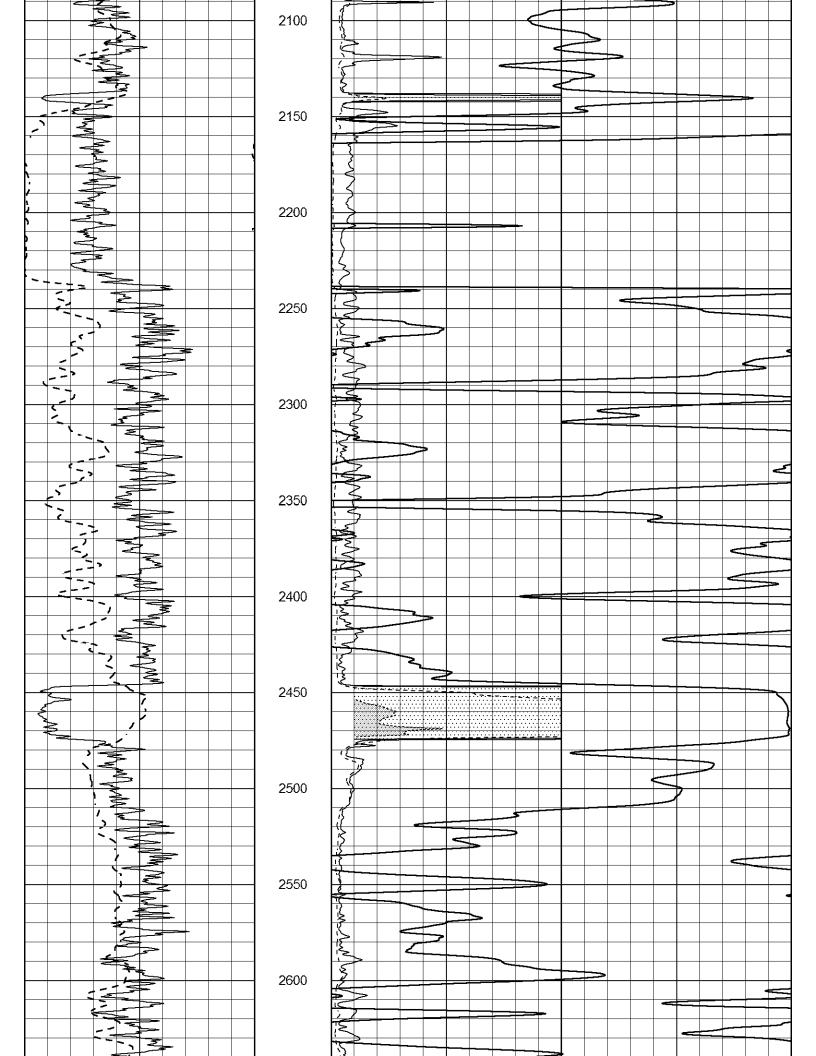
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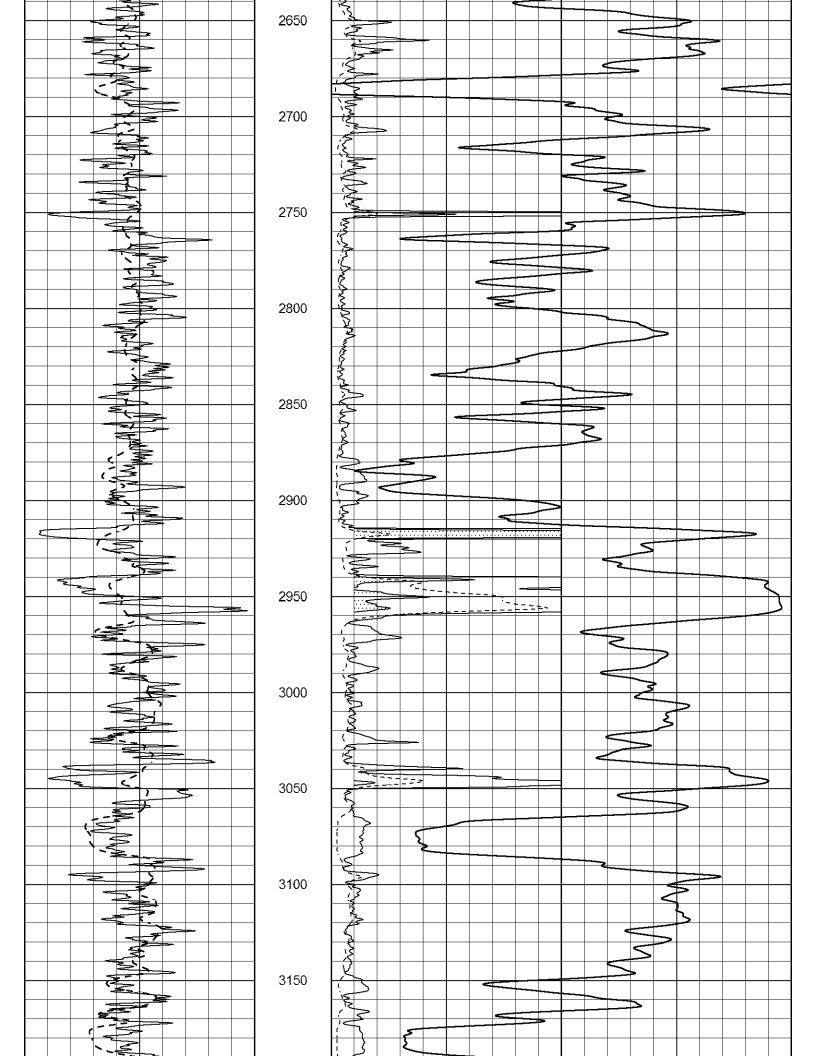


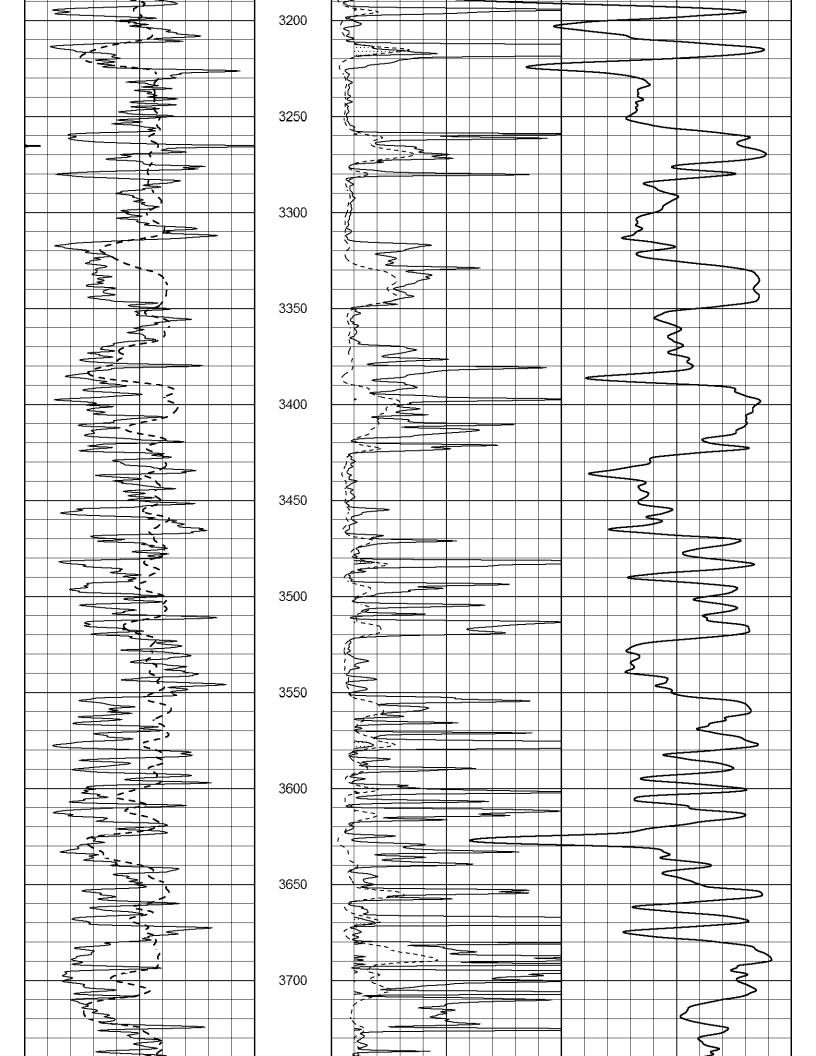


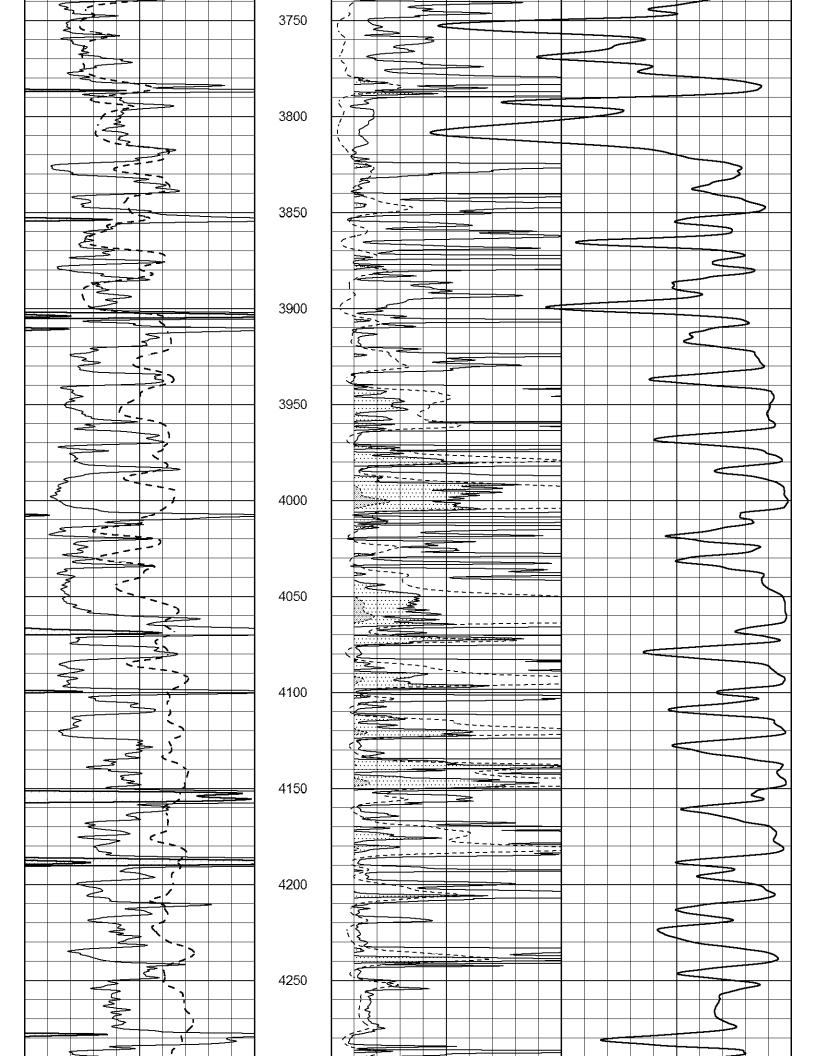


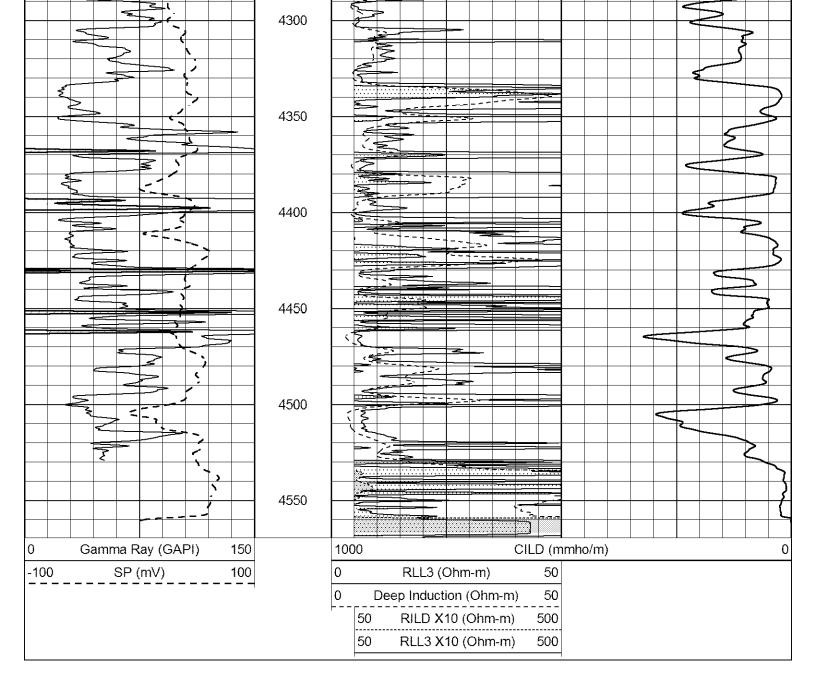




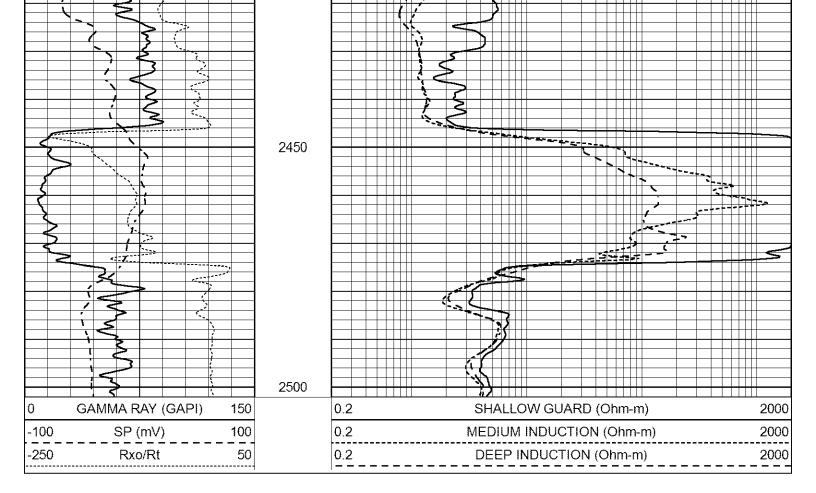








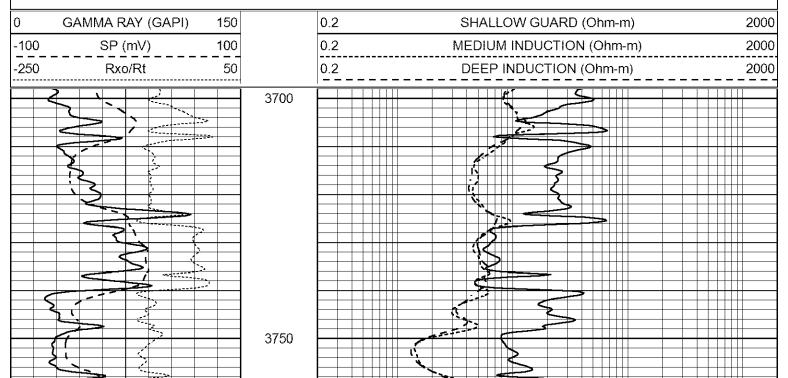
			ANHYDRITE	
Database File Dataset Pathname Presentation Format Dataset Creation Charted by	1123pe8.db pass3.2 _dil Mon Mar 06 1 Depth in Feet			
0 GAMMA RAY (	GAPI) 150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100 SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250 Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000
		2400		

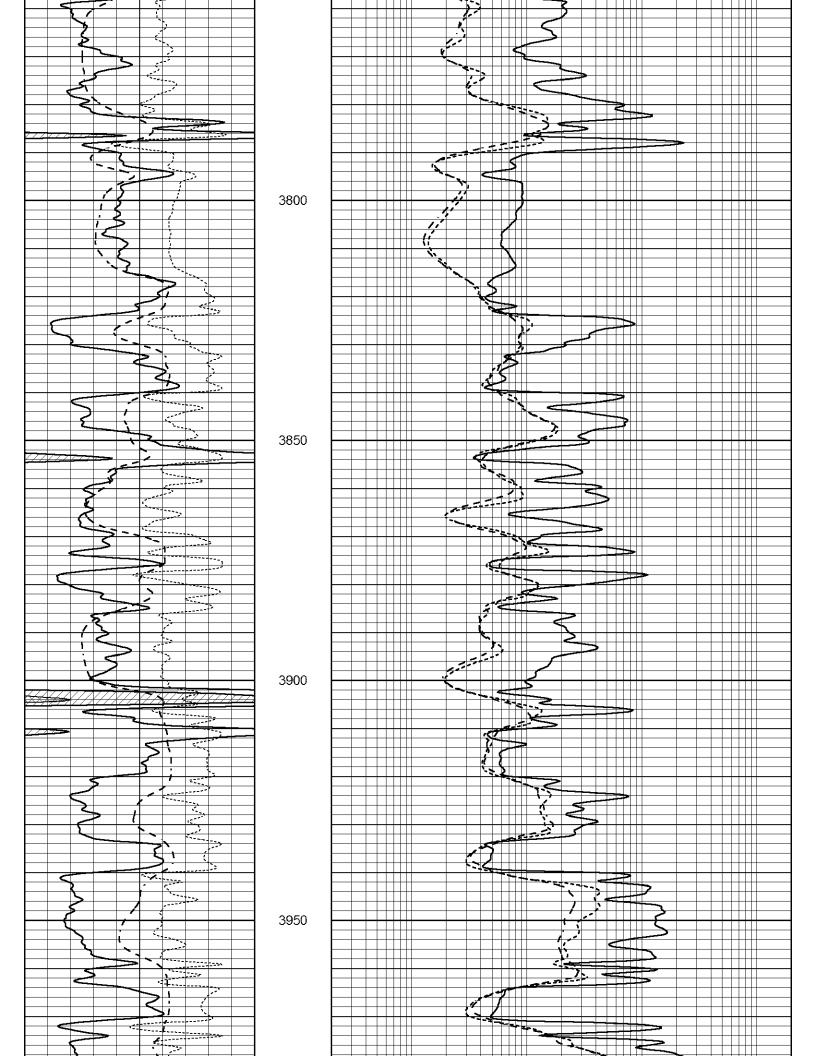


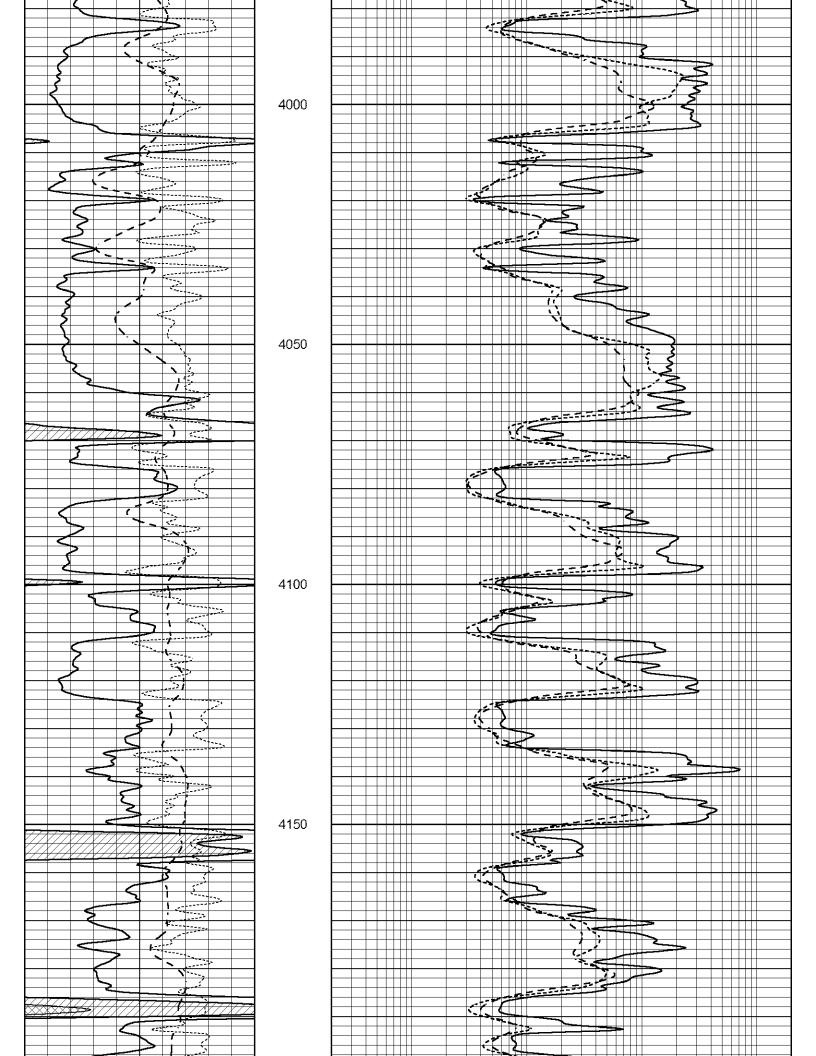


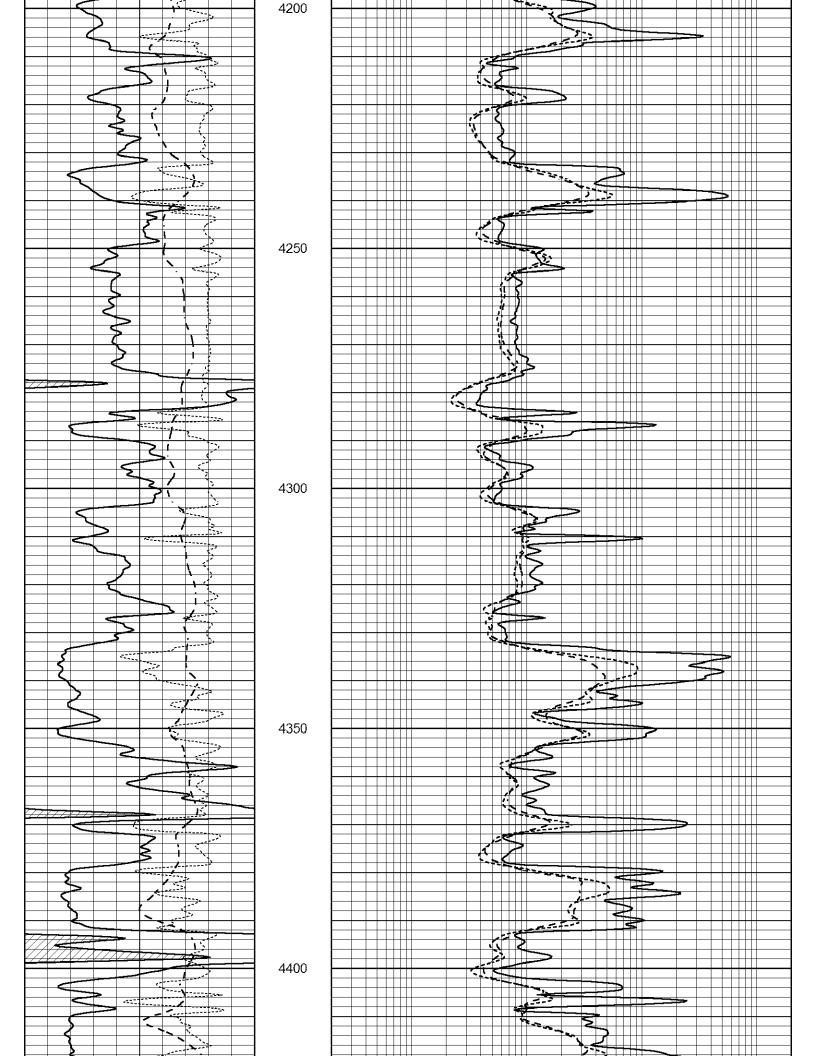
## MAIN SECTION

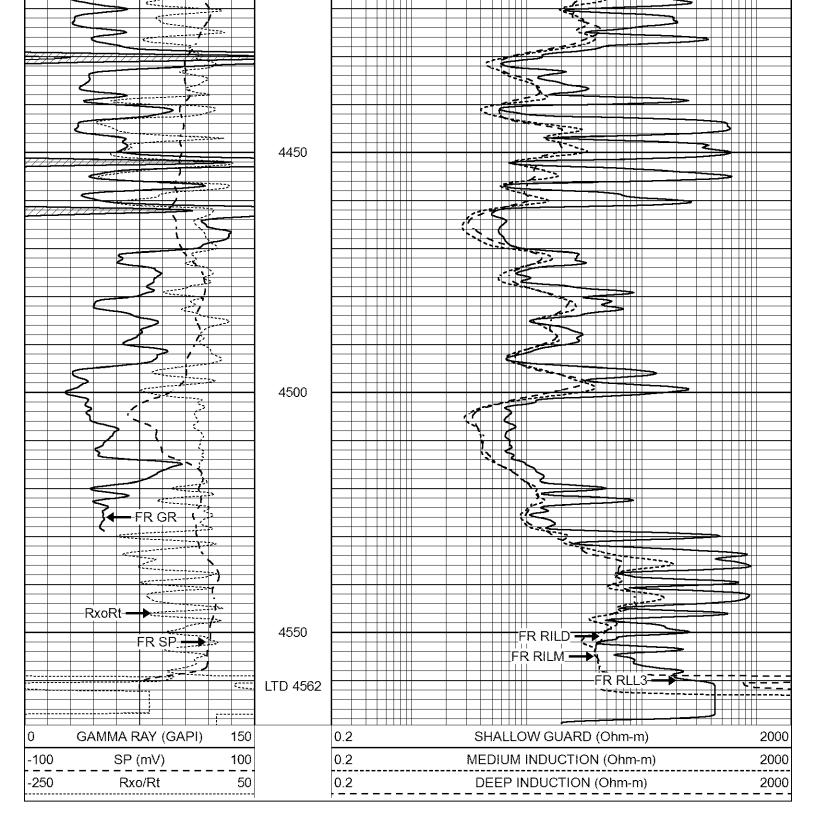
Database File1123pe8.dbDataset Pathnamepass3.1Presentation Format\_dilDataset CreationMon Mar 06 11:39:25 2017Charted byDepth in Feet scaled 1:240







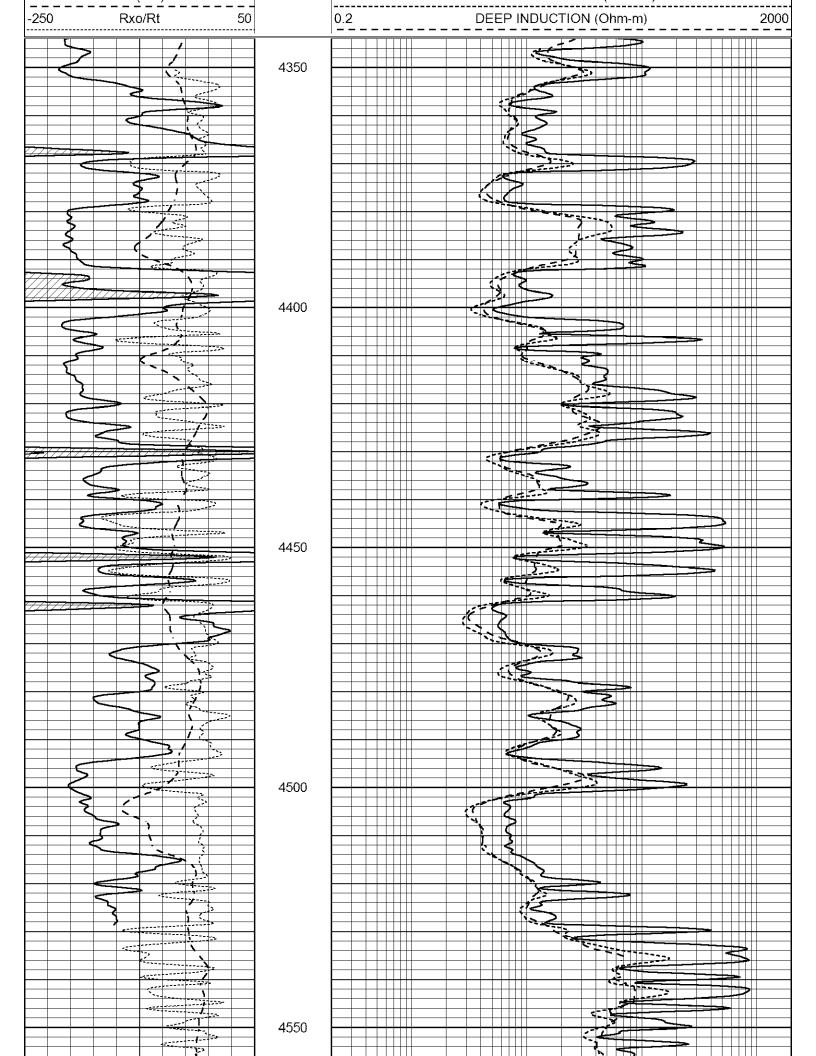






## **REPEAT SECTION**

Data Pres	aset Pathname pas sentation Format _di	23pe8.db ss2.2 I n Mar 06 11:	31:20 2017		
Cha 0	GAMMA RAY (GAP	pth in Feet so l) 150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000



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		450						++1
GAMMA RA 100 SP (m		150 100	0.2			N GUARD (OI	-	2
250 Rxo/F		50	0.2					2
			0.2					
			Calil	bration Repo	rt			
Database File	1123pe8.c	lb	Gain					
Dataset Pathname Dataset Creation	pass2.2 Mon Mar (	06 11:31:20	2017					
				on Calibratic	n Report			
	Serial-N	lodel:			W1410-55-Pi	obe		
	Surface	Cal Perform		T	hu Mar 12 09	27:11 2015		
		le Cal Perfo irvey Verific	ormed: ation Performe		hu Mar 12 09 hu Mar 12 09			
Surface Calibrati		Readings			References		Resu	ts
Loop:	Air	Loop		Air	Loop		m	b
			-					
Deep Medium	0.011 -0.000	0.656 0.731	V V	1.000 1.000	400.000 464.000	mmho/m mmho/m	618.595 632.856	-5.524 1.197
Internal:	Zero	Cal	-	Zero	Cal			b
Deep Medium	0.007 0.004	0.649 0.743	V V	0.000 0.000	400.000 464.000	mmho/m mmho/m	623.784 627.284	-4.595 -2.251
Downhole Calibra	ation							
		Readings			References		Resul	ts
_	Zero	Cal	-	Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium LL3	3.565	471.327 7.503	mmho/m V	3.468	471.590 1500.000	mmho/m Ohm-m	1.001	-0.099
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		
After Survey Ver		Readings			Targets		Resul	ts
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium LL3	0.000	0.000 0.000	mmho/m Ohm-m	3.565	471.327 1500.000	mmho/m Ohm-m	1.000	0.000
LLJ		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		
				ty Calibration erial: 140704				
				idel: V4_10P lumber:  74G				
Master Calibration					Perfo	rmed: Wed F	Feb 11 18:53:41	2015
	Backgroun	d	Aluminum	M	agnesium			
Window 1	613.0	1	6027.40		27508.60	cps		

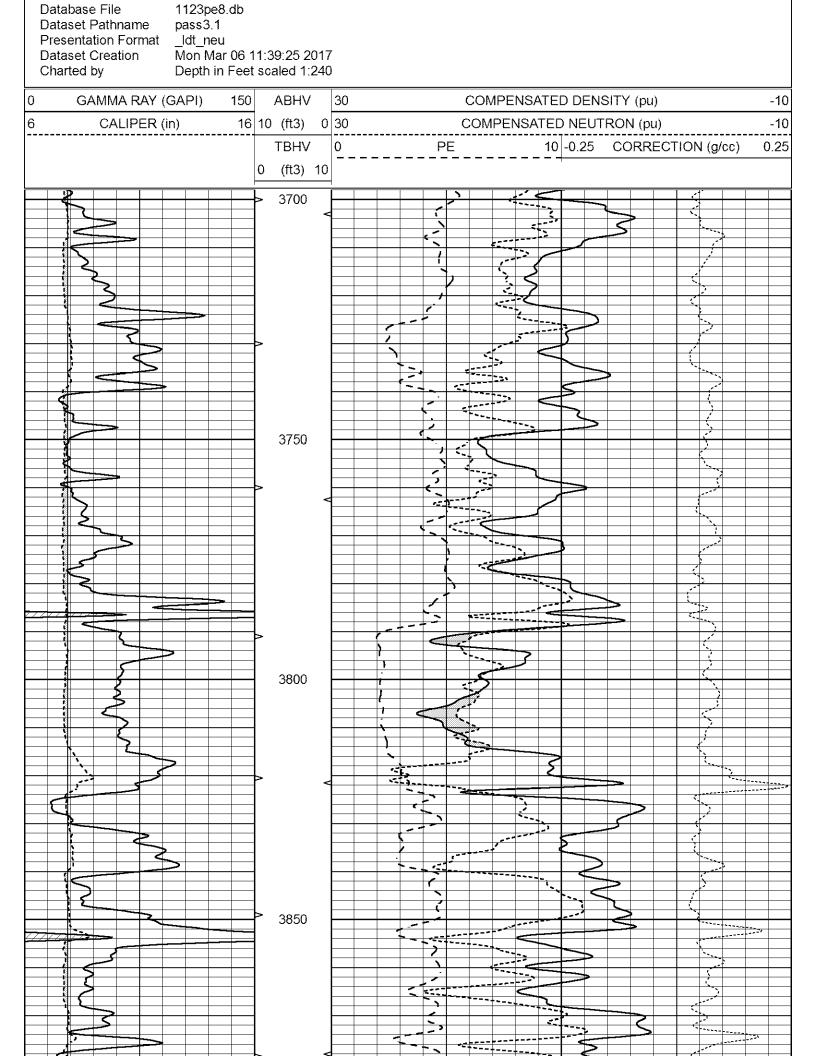
Window 2 Window 4	48.21 266.48	1424.77 1373.19		7132.66 5767.15	cps cps			
Window 5	622.07	10090.30		18937.90	cps			
Window 6 Window 8	49.07 298.04	1682.84 3248.38		3271.18 5980.58	cps cps			
Bulk Density Pe	-	2.6020 3.0000		1.6830 2.5070	g/cc b/e			
LS Alpha: LS Beta:	: -1.8451 : 138648.8473	SS Alpha: : SS Beta: :	-0.7542 21960.9250			S CPE: S CPE:		l.0882 l.5181
	Deskraund Counts Varifia	ation		Dod	o cross di	Wed Dec 3	24 40.00	00 4060
	Backround Counts Verific			Pen	umeu.	vveu Dec	31 10.00.	00 1969
Window 1 Window 2	0.00 0.00	cps						
Window 2 Window 4	0.00	cps cps						
Vinicow 1	0.00	0p0						
Window 5	0.00	cps						
Window 6	0.00	cps						
Window 8	0.00	cps						
After Survey B	ackground Counts Verifica	ation		Perf	ormed:	Wed Dec 3	31 18:00:	00 1969
Window 1	0.00	cps						
Window 2	0.00	cps						
Window 4	0.00	cps						
Window 5	0.00	cps						
Window 6	0.00	cps						
Window 6 Window 8	0.00	cps		Perf	ormed:	Wed Feb 1	1 18:53:4	41 2015
Window 6 Window 8 Lithodensity Ca	0.00 0.00	cps	es (in)	Perf	formed:	Wed Feb 1	1 18:53:4	11 2015
Window 6 Window 8 Lithodensity Ca	0.00 0.00 aliper Calibration	cps cps	es (in) High	Perf	ormed:	Wed Feb 1 Gain	1 18:53:4	11 2015 Offset
Window 6 Window 8 Lithodensity Ca Results Read	0.00 0.00 aliper Calibration dings	cps cps Referenc		Perf	ormed:		1 18:53:4	
Window 6 Window 8 Lithodensity Ca Results Read Low 5123.0	0.00 0.00 aliper Calibration dings High	cps cps Referenc Low	High		formed:	Gain	1 18:53:4	Offset
Window 6 Window 8 Lithodensity Ca Results Read Low 5123.0	0.00 0.00 aliper Calibration dings <u>High</u> 9461.6	cps cps Referenc Low	High		_	Gain	1 18:53:4	Offset
Window 6 Window 8 Lithodensity Ca Results Read Low 5123.0 Before Survey	0.00 0.00 aliper Calibration dings <u>High</u> 9461.6 Caliper Verification	cps cps Referenc Low 8.5	High		_	Gain	1 18:53:4	Offset
Window 6 Window 8 Lithodensity Ca Results Read Low 5123.0	0.00 0.00 aliper Calibration dings <u>High</u> 9461.6 Caliper Verification	cps cps Referenc Low 8.5	High		_	Gain	1 18:53:4	Offset
Window 6 Window 8 Lithodensity Ca Results Read Low 5123.0 Before Survey Caliper (in)	0.00 0.00 aliper Calibration dings <u>High</u> 9461.6 Caliper Verification	cps cps Referenc Low 8.5	High	Perf	_	Gain	1 18:53:4	Offset
Window 6 Window 8 Lithodensity Ca Results Read Low 5123.0 Before Survey Caliper (in)	0.00 0.00 aliper Calibration dings <u>High</u> 9461.6 Caliper Verification Reference	cps cps Referenc Low 8.5	High	Perf	ormed:	Gain	1 18:53:4	Offset
Window 6 Window 8 Lithodensity Ca Results Read Low 5123.0 Before Survey Caliper (in)	0.00 0.00 aliper Calibration dings <u>High</u> 9461.6 Caliper Verification Reference 	cps cps Referenc Low 8.5 Reading	High	Perf	ormed:	Gain	1 18:53:4	Offset
Window 6 Window 8 Lithodensity Ca Results Read Low 5123.0 Before Survey Caliper (in)	0.00 0.00 aliper Calibration dings <u>High</u> 9461.6 Caliper Verification Reference 	cps cps Referenc Low 8.5 Reading	High	Perf	ormed:	Gain	1 18:53:4	Offset
Window 6 Window 8 Lithodensity Ca Results Read Low 5123.0 Before Survey Caliper (in)	0.00 0.00 aliper Calibration dings <u>High</u> 9461.6 Caliper Verification Reference 	cps cps Referenc Low 8.5 Reading	High 14.0	Perf	ormed:	Gain	1 18:53:4	Offset
Window 6 Window 8 Lithodensity Ca Results Read Low 5123.0 Before Survey Caliper (in)	0.00 0.00 aliper Calibration dings <u>High</u> 9461.6 Caliper Verification Reference 	cps cps Referenc Low 8.5 Reading Reading	High 14.0	Perf	ormed:	Gain	1 18:53:4	Offset
Window 6 Window 8 Lithodensity Ca Results Read Low 5123.0 Before Survey Caliper (in) After Survey C Caliper (in)	0.00 0.00 aliper Calibration dings <u>High</u> 9461.6 Caliper Verification Reference 	cps cps Reference Low 8.5 Reading Reading Compensated Number	High 14.0	Perf Perf Perf Dration Repor	ormed:	Gain	1 18:53:4	Offset
Window 6 Window 8 Lithodensity Ca Results Read Low 5123.0 Before Survey Caliper (in) After Survey C Caliper (in)	0.00 0.00 aliper Calibration dings <u>High</u> 9461.6 Caliper Verification Reference 	cps cps Reference Low 8.5 Reading Reading Compensated Number	High 14.0 Neutron Calit	Perf Perf Perf Dration Repor	formed:	Gain	1 18:53:4	Offset

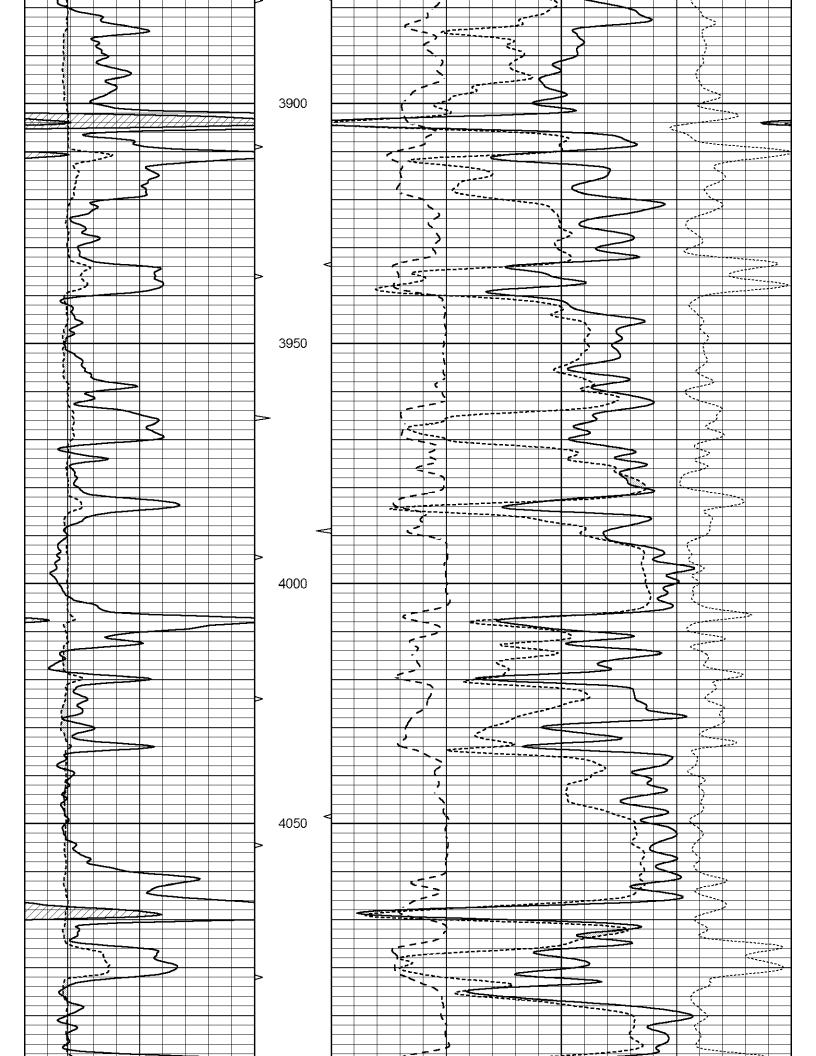
Long Space	cps	pu	pu	
POST-SURVEY VERIFICATI	ON			
Detector	Readings	Measured	Target	
Short Space	cps			
Long Space	cps	pu	pu	
	Gamma Ray (	Calibration Report		
Serial Number:	070558			
Tool Model:	Probe1			
Performed:	Wed Jun 29	08:29:10 2016		
Calibrator Value:	1.0	GAPI		
Background Reading:	0.0	cps		
Calibrator Reading:	1.0	cps		
Sensitivity:	0.3000	GAPI/cps		

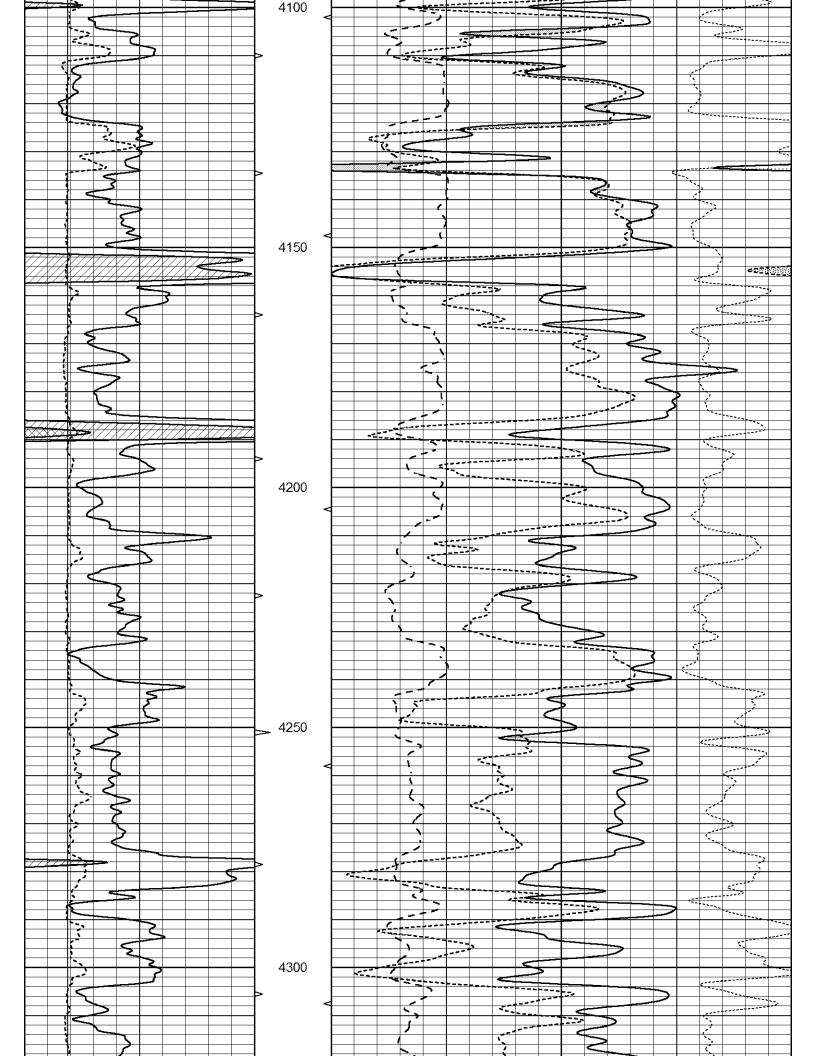
			COMPENSATED DENSITY/NEUTRON PE LOG	Z	ccuracy or correctness ss, costs, damages, or nterpretations are also	6395 DRTH INTO
	Company		BECKER OIL CORPORATION		or any lo	
N	Well	#1 FROMHOLTZ	LTZ		sible fo	
RATIO	Field				espons r empl	
ORPC	County	THOMAS	State KANSAS	AS	le or re ents o	
HOLI	Location:		API # : 15-193-20989-0000	Other Services	e liab ers, ag	
CKER FROM OMAS NSAS		2306' FSL	2306' FSL & 990' FEL	Ċ	part, b r office	
#1 TH(		SEC 36 TWP 1	TWP 10S RGE 31W	Elevation	n our of ou	
Company Well Field County State	Permanent Datum Log Measured From Drilling Measured From	m From	GROUND LEVEL Elevation 2888 KELLY BUSHING 5' A.G.L KELLY BUSHING	K.B. 2893 D.F. 2891 G.L. 2888	gligence o de by any ns set out	SERV TIONS
Date		3/6/17		-	ne ma litio	1E
Run Number		ONE			villful ation cond	LIN
Depth Logger		4562			s or pre	Ľ
Bottom Logged Interval	a	4538			ros: inter	
Casing Oriller		8 5/8" @ 0/1			e of g any	
Casing Logger		¥(			case rom	
Bit Size		7 7/8			the ng f	
Type Fluid in Hole		CHEMICAL MUD	CHLORIDES 3000 PPM		t in sulti	
Density / Viscosity		9.4/53			kcep e res	
Source of Sample		FLOWLINE			ot, e iyor	
Rm @ Meas. Temp		1.3 @ 77F			all n	
Rmf @ Meas. Temp		.97 @ 77F			sha	
Rmc @ Meas. Temp		1.5 @ 77F			we	
Source of Rmf/Rmc Rm @ RHT		MEASUREMENT			and v	
Time Circulation Stopped	ped	2 HOURS			are on,	
Time Logger on Bottom	<b>B</b>				ns a etati	
Maximum Recorded Temperature	emperature	121F			atio rpre	&
Equipment Number		3802			intei	70
Location		HAYS, KANSAS			nterp any i	17
Recorded By		JASON CAPPELLUCC			भा in of a	
a processed of						

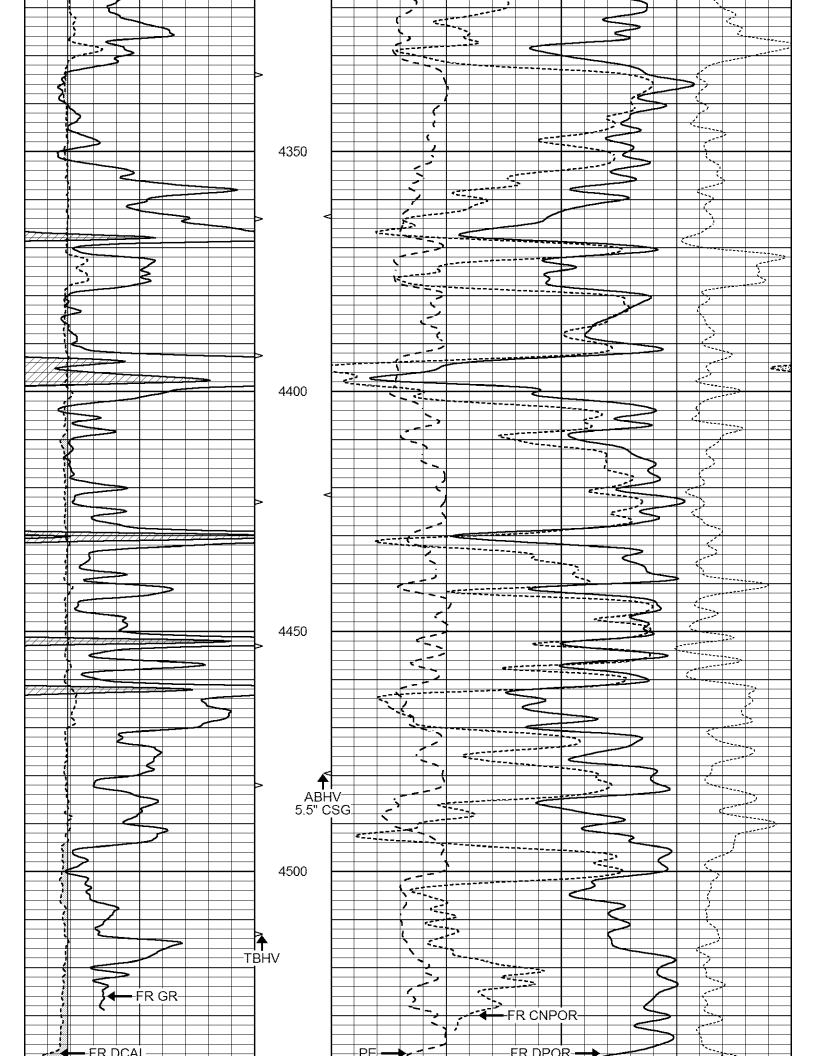


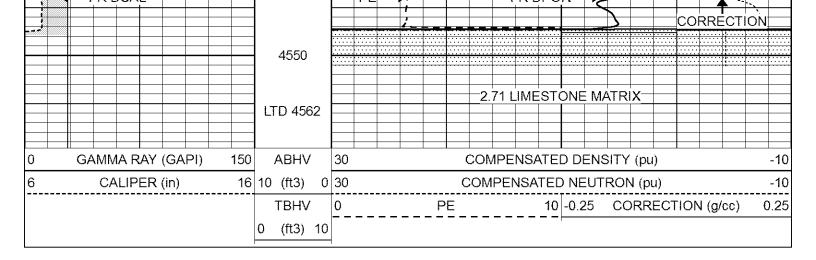
# MAIN SECTION

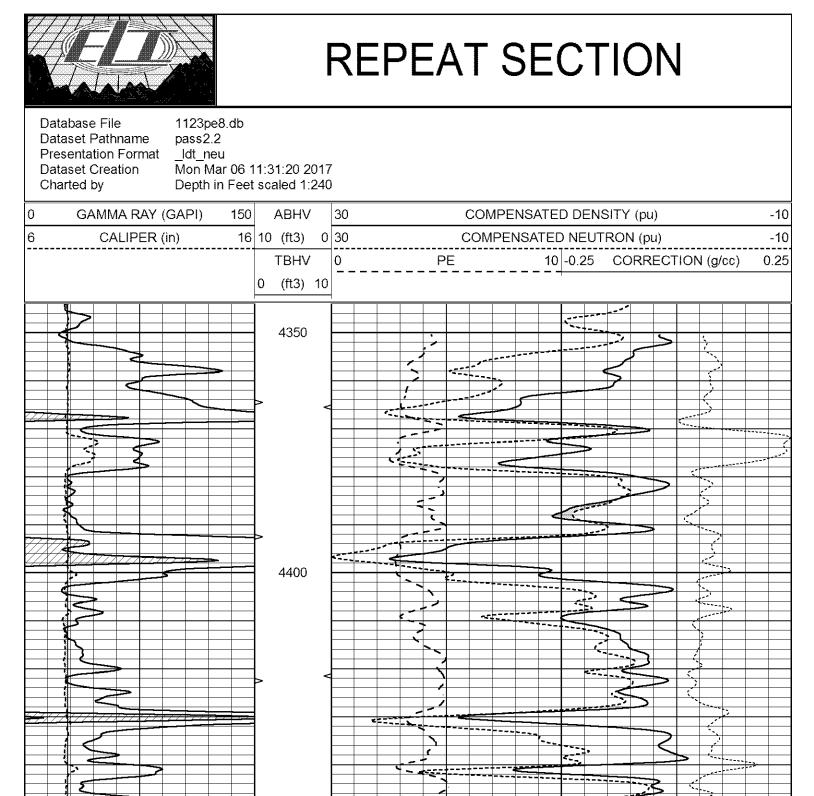


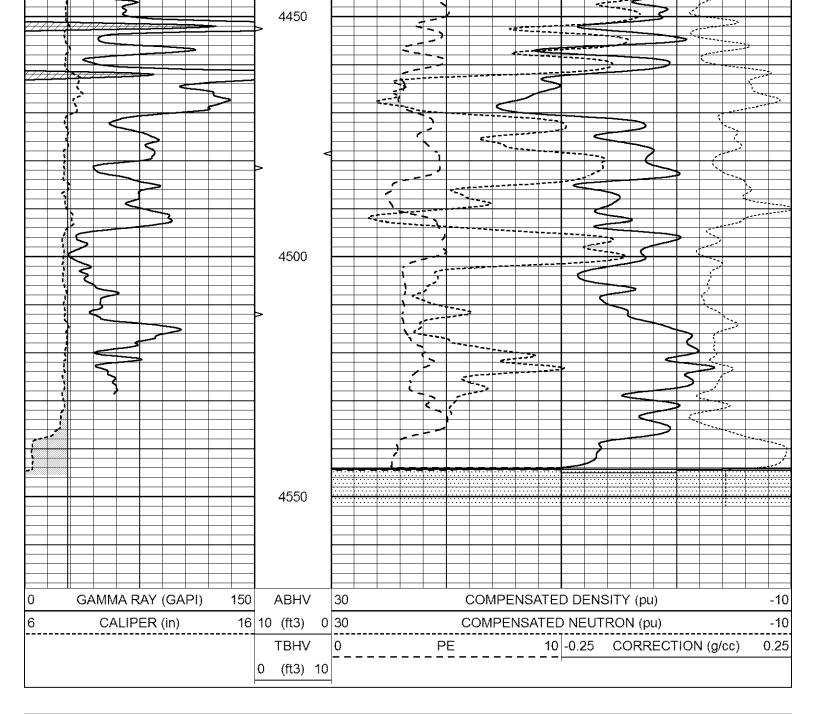












			C	alibration Report	t			
Database File Dataset Pathname Dataset Creation	•	db 06 11:31:20 2		·				
			Dual Indu	ction Calibratior	Report			
	Downh	Model: e Cal Performe ole Cal Perforn urvey Verificat	ned:	Tł Tł	nu Mar 12 09	robe 9:27:11 2015 9:29:20 2015 9:29:20 2015		
Surface Calibra	tion	Readings		F	References		Resu	Its
Loop:	Air	Loop		Air	Loop		m	b
Deep Medium	0.011 -0.000				400.000 464.000	mmho/m mmho/m	618.595 632.856	-5.524 1.197
Internal:	Zero	Cal		Zero	Cal		m	b

Deep Medium	0.007 0.004	0.649 0.743	V V	0.000 0.000	400.000 464.000	mmho/m mmho/m	623.784 627.284	-4.595 -2.251
Downhole Ca	libration	Readings			References		Resu	lts
	Zero	Cal		Zero	Cal		m'	b'
Deep Medium LL3	-0.824 3.565	395.917 471.327 7.503 0.001 -7.481	mmho/m mmho/m V V V	-0.976 3.468	397.550 471.590 1500.000 20.000 3745.000	mmho/m mmho/m Ohm-m Ohm-m mmho-m	1.004 1.001	-0.149 -0.099
After Survey	Verification	Readings			Targets		Resu	Its
	Zero	Cal		Zero	Cal		m'	b'
Deep Medium LL3	0.000 0.000	0.000 0.000 0.000 0.000 0.000	mmho/m mmho/m Ohm-m Ohm-m mmho-m	-0.824 3.565	395.917 471.327 1500.000 20.000 3745.000	mmho/m mmho/m Ohm-m Ohm-m mmho-m	1.000 1.000	0.000 0.000
			Se Mo	ity Calibratio erial: 140704 odel: V4_10P lumber: 74G				
Master Calibrati	on				Perfo	rmed: Wed F	Feb 11 18:53:41	2015
	Backgrou	Ind	Aluminum	M	agnesium			
Window 1 Window 2 Window 4	613. 48. 266.	.21	6027.40 1424.77 1373.19		27508.60 7132.66 5767.15	cps cps cps		
Window 5 Window 6 Window 8	622 49 298	.07	10090.30 1682.84 3248.38		18937.90 3271.18 5980.58	cps cps cps		
Bulk Density Pe	-		2.6020 3.0000		1.6830 2.5070	g/cc b/e		
LS Alpha: LS Beta:	: -1.8451 : 138648.847			-0.7542 21960.9250		LS CPE: SS CPE		
Before Survey E	Backround Cou	Ints Verification	on		Perfo	ormed: Wed [	Dec 31 18:00:00	) 1969
Window 1 Window 2 Window 4	0.	.00 .00 .00	cps cps cps					
Window 5 Window 6 Window 8	0.	00 00 00	cps cps cps					
After Survey Ba	ckground Cou	nts Verificatio	n		Perfo	rmed: Wed [	Dec 31 18:00:00	) 1969
Window 1 Window 2 Window 4	0.	00 00 00	cps cps cps					
Window 5 Window 6	0.	.00 .00	cps cps					

vvindom 8	0.00	cps			
Lithodensity Cal	liper Calibration		Pe	erformed: Wed Feb 11	18:53:41 2015
Results Read	ings	References	(in)		
Low	High	Low H	High	Gain	Offset
5123.0	9461.6	8.5 1	14.0	0.0	1.4
Before Survey (	Caliper Verification		Pe	erformed:	
	Reference	Reading			
Caliper (in)					
After Survey Ca	liper Verification		Pe	erformed:	
	Reference	Reading			
Caliper (in)					
		Compensated Neu	tron Calibration Rep	ort	
		Serial Number: Tool Model:	080621PM0 NABORS	c	
PRE-SL	JRVEY VERIFICATIO	N			
	Detector	Readings	Measured	Target	
	Short Space Long Space	cps cps	pu	pu	
POST-S		N			
	Detector	Readings	Measured	Target	
	Short Space Long Space	cps cps	pu	pu	
		Gamma Ray	Calibration Report		
Tool	l Number: Model: irmed:	070558 Probe1 Wed Jun 2	9 08:29:10 2016		
Calib	rator Value:	1.0	GAPI		
	ground Reading: rator Reading:	0.0 1.0	cps cps		
Sens	itivity:	0.3000	GAPI/cps		



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### TREATMENT REPORT

-																	
Recker Oil Colpoistion						ease No.	Date 2/27/2017										
Lease F(	omhal	12			V	Vell #											
Field Order #	Station	ſ₽	661	+, 10	22			Casing 8	5/8	Depth	218	Count	ッフト	IOM S	5	Sta	te <i>JCS</i>
Type Job	242/8	$s^{s}$	185		fç <u>e</u>	e			For	mation	TD.Z	41		Legal D	escriptior	36-	·105-3
PIPI	E DATA		PERF	ORA	TING	DATA		FLUID U	JSED			TREATMENT RESUME					
CasingSize	Tubing Si	ze	Shots/F	it		Acid					RATE PRI		SS	ISIP			
Depth 218	Depth		From		то		Pre	Pad			Max				5 Min.		
Volume/ 3, 8			From		То		Pac	Pad ···-		··	Min		<u>-</u>				
Max Press	Max Pres	s	From	To			Frac		. Avg					15 Min.			
<b>Vell Connection</b>	on Annulus \	Vol. From 1		то				·		HHP Used				Annulus Pressure		ure	
PlugiDigoty	Packer D		From		То		Flus	sh Fres	ふし	Ster	Gas Volur	ne			Total L	oad	
Customer Rep	presentative	$\mathcal{T}_{\mathcal{O}}$	hn			Statio	n Man	ager D91	いる	Sco	++	Tre	ater )	)9rc	n Fr	- <u>5</u> nx	clin
Service Units	92911		1980	198	43			21010									
Driver Names	Darin			mea	Rev	545	wn	Shawn									
Time	Casing         Tubing           Time         Pressure         Pressure         Bbi					nped		Rate					Serv	ice Log			
7 bopm				<u> </u>						On Locaron/Scherymeet is							
· · · · · · · · · · · · · · · · · · ·		<u> </u>									Sle Casing 24#						
		<u> </u>								170 5K 60/40 PO2, 3% 516, UM Chlori 2% Gel, 14.5pps, 1.26 Veild, 5.63 WE							
		-							2	% (	<u>5el, 1</u>	4.5	pus,	1.26	Veil.	<u>4, 5,</u>	63 wg
		<u> </u>		<u> </u>							- 11						
0 ISpm					$\frac{3}{2\alpha}$			<u></u>			3 bhi						<u> </u>
	200				38	/		5	$m_{i}$	<u>x1</u>	7051	e G	ome	nr			
	200			<u>  / ·</u>	21/	2		3	$\frac{\mathcal{D}}{\mathcal{C}}$	<u>S Pi</u>	IGIC L	<u>V91</u>					
O'Sopm	:	[	••••	┣_─					Sn	17	()						<u>_</u>
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										<u>. em</u>	onr d	<u>.                                    </u>	<u> </u>	- 154	101	<u>50/5</u>	<u> </u>
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Taylor Printing, Inc. 620-672-3656