

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 # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or  
Recompletion Date \_\_\_\_\_ Recompletion Date \_\_\_\_\_

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Edison Operating Company LLC
Well Name	WESSELER 1-34
Doc ID	1413285

All Electric Logs Run

DUCP
SONIC
MICRO
DIL



Well Name: Wessler #1-34  
 Surface Location: Sec. 34 - T18S - R10W  
 Bottom Location:  
 License Number: 34434  
 Spud Date: 6/9/2018  
 Region: Rice County  
 Drilling Completed: 6/12/2018  
 Surface Coordinates: 330' FN/L & 604' FE/L  
 Bottom Hole Coordinates:  
 Ground Elevation: 1737.00ft  
 K.B. Elevation: 1745.00ft  
 Logged Interval: 2400.00ft To: 3258.00ft  
 Total Depth: 3258.00ft  
 Formation: Precambrian-Quartzite  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**OPERATOR**  
 Company: Edison Operating Company LLC  
 Address: 8100 E. 22nd St. North  
 Building 1900  
 Wichita, KS 67226  
 Contact Geologist: David Withrow  
 Contact Phone Nbr: 316.613.1544  
 Well Name: Wessler #1-34  
 Location: Sec. 34 - T18S - R10W  
 API: 15-159-22852-0000  
 Pool:  
 State: Kansas  
 Field: Orth  
 Country: USA

**LOGGED BY**  
 Company: Edison Operating Company LLC  
 Address: 8100 E. 22nd St. North  
 Building 1900  
 Wichita, KS 67226  
 Phone Nbr: 316.655.3550  
 Logged By: Geologist Name: Derek W. Patterson

**REMARKS**

After review of the geologic log, positive structural position, and the open hole logs for the Wessler #1-34, it was decided upon by operator to run 5 1/2" production casing for further evaluation of the Precambrian Quartzite section.

The well samples were saved, submitted, and will be available for review at the Kansas Geologic Survey's Well Sample Library located in Wichita, KS.

Respectfully Submitted,

*Derek W. Patterson*

**GENERAL INFORMATION**

**Service Companies**

Drilling Contractor: Southwind Drilling - Rig #3  
 Tool Pusher: Jay Krier  
 Daylight Driller: Darrell Yoff  
 Evening Driller: Jim Pfatt  
 Morning Driller: Shawn Epp  
 Drilling Fluids: Mud-Co/Service Mud Inc.  
 Engineers: Rick Hughes  
 Logging Company: Eli Wireline  
 Engineer: Gus Pfannkuefer  
 Logs Ran: DI, CDNL, Micro, Sonic  
 Gas Detector: Bluestem Environmental  
 Engineer: Keith Reavis  
 Unit: 5279  
 Operational By: 2240'  
 Testing Company: Diamond Testing  
 Tester: Jacob McCallie

Deviation Survey		Pipe Strap	
Depth	Survey	Depth	Pipe Strap
392'	1/4"	n/a	n/a
3090'	1 1/4"		
RTD - 3258'	1 3/4"		

Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4"	J-2	RR	392'	392'	392'	392'	5.75
2	7 7/8"	Varel	HE29	1577441	392'	3090'	2698'	44.5
3	7 7/8"	Varel	HE29	1565860	3090'	3194'	104'	7.5
4	7 7/8"	Varel	HE29	RR	3194'	3259'	65'	6.0

**Surface Casing**

6.8.2018 Ran 9 joints of new 2 3/8" 8 5/8" surface casing, tallying 382.56', set @ 392' KB. Cemented with 200 sacks 60/40 Poz, 4% cc, 2% gel, 1/4 #/sx floccel. Cement did circulate. Plug down @ 0015 hrs 6.8.18. By Quality Oilwell Cementing.

**Production Casing**

6.13.2018 Ran 83 joints of used and tested 5 1/2" production casing, tallying 3257' set @ 3258' KB. Cemented with 175 sacks AA-2 10% salt, 5% gypsum, 0.5% defoamer, 0.5% fluid loss, & 5# / sx gilsonite. Cement did circulate. Plug down @ 1700 hrs 6.13.18. By Basic Energy Services.

**DAILY DRILLING REPORT**

Date	0700 Hrs Depth	Previous 24 Hours of Operations
6.11.2018	2849'	Drilling and connections upper Pennsylvanian beds. Geologist Derek W. Patterson on location 1935 hrs 6.10.18. Drilling and connections Topeka, CFS @ 2662' (Plattsmouth Zone), Resume drilling and connections Topeka, Heebner, Toronto, Douglas, and into Brown Lime. Short trip @ 2840', 0450 hrs 6.11.18. Conduct 17 stand short trip, CTCH. Resume drilling following short trip, 0630 hrs 6.11.18. Drilling and connections Brown Lime. Made 1287' over past 24 hrs of operations. WOB: 30k RPM: 80 PP: 975 SPM: 60 DMC: \$3,119.96 CMC: \$3,119.96
6.12.2018	3193'	Drilling and connections in Lansing-Kansas City. Drilling and connections Lansing-Kansas City. Stop for bit trip @ 3090', 1715 hrs 6.11.18. Drop survey, strap out for bit trip, CTCH. Resume drilling following bit trip 2300 hrs 6.11.18. Drilling and connections Lansing-Kansas City, Base Kansas City, and into Precambrian Quartzite. Drilling and connections Precambrian Quartzite. Made 344' over past 24 hrs of operations. WOB: 30k RPM: 80 PP: 975 SPM: 60 DMC: \$687.15 CMC: \$3,807.11
6.13.2018	LTD - 3260' RTD - 3258'	Drilling Precambrian Quartzite. Stop for bit trip @ 3194', 0720 hrs 6.12.18. Decision made to run DST across lower Quartzite barrel. Rig up tester, make up tool, TIH with tool. Conduct DST #1, test unsuccessful - packer failure. TIH with tool, CTCH. Resume drilling following DST #1 1745 hrs 6.12.18. Drilling and connections Quartzite ahead of RTD of 3258'. RTD reached 305 hrs 6.12.18. CTCH, drop survey, TOH for open hole logging operations. Rig up Eli Wireline. Commence open hole logging operations 0230 hrs 6.13.18, conclude open hole logging operations 0545 hrs 6.13.18. Waiting on orders from operator. Made 65' over past 24 hrs of operations. WOB: 30k RPM: 80 PP: 1000 SPM: 60 DMC: \$688.07 CMC: \$4,495.18
6.14.2018	LTD - 3260' RTD - 3258'	Orders received to run 5 1/2" production casing to further test the Precambrian Quartzite. Geologist of location 0710 hrs 6.13.18. Made 0' over past 24 hrs of operations. WOB: n/a RPM: n/a PP: n/a SPM: n/a DMC: \$1,125.85 CMC: \$5,621.03

**WELL COMPARISON SHEET**

Drilling Well	Comparison Well	Comparison Well	Comparison Well
Edison Operating - Wessler #1-34 Sec. 34 - T18S - R10W 1745 KB 1737' FC 330' FN/L & 604' FE/L	Birmingham-Barlett - Wessler #1-34 Sec. 34 - T18S - R10W 1747 KB Oil - Quartzite Structural Relationship	Birmingham-Barlett - Wessler #2 Sec. 34 - T18S - R10W 1738 KB Oil - Quartzite Structural Relationship	Birmingham-Barlett - Herzog #1 Sec. 27 - T18S - R10W 1742 KB SE SE SE Oil - Quartzite Structural Relationship
Formation	Log	Log	Log
Topoka	2452 - 705	2455 - 712	2454 - 716
King Hill	2549 - 804	2551 - 813	2549 - 804
Queen Hill	2627 - 882	2631 - 893	2627 - 882
Plattsmouth	2661 - 916	2666 - 928	2661 - 916
Heebner	2715 - 971	2722 - 984	2719 - 981
Toronto	2737 - 992	2743 - 1005	2737 - 992
Douglas	2743 - 998	2750 - 1012	2743 - 998
Brown Lime	2832 - 1087	2833 - 1088	2832 - 1087
Lansing-Kansas City	2853 - 1108	2862 - 1124	2857 - 1119
LKC 'D'	2915 - 1150	2917 - 1153	2915 - 1150
LKC 'E'	2924 - 1179	2922 - 1175	2924 - 1179
LKC 'F'	2931 - 1186	2928 - 1181	2931 - 1186
Muncie Creek	2991 - 1246	2990 - 1243	2991 - 1246
LKC 'H'	2999 - 1254	2998 - 1251	2999 - 1254
LKC 'I'	2991 - 1186	2990 - 1185	2991 - 1186
LKC 'J'	3014 - 1259	3013 - 1258	3014 - 1259
LKC 'K'	3033 - 1288	3035 - 1290	3033 - 1288
Stark	3061 - 1316	3062 - 1315	3061 - 1316
LKC 'L'	3067 - 1322	3068 - 1324	3067 - 1322
Hushpuckney	3096 - 1351	3097 - 1350	3096 - 1351
LKC 'M'	3106 - 1361	3106 - 1361	3106 - 1361
Base Kansas City	3120 - 1375	3120 - 1375	3120 - 1375
Conglomerate	Not Present	Not Present	Not Present
Arbuckle	Not Present	Not Present	Not Present
Precambrian Quartzite	3129 - 1384	3130 - 1385	3129 - 1384
Total Depth	3258 - 1513	3260 - 1515	3258 - 1513

IP: 50 BOPD	IP: 1310 - 1103	IP: 1953 (1473) - (1477)	IP: 30 BOPD
Perf 1502 (1390) - (1410)	Perf 1517 (1410) - (1415)	Perf 1511 (1417) - (1422)	Perf 1512 (1407) - (1438)
IP: 50 BOPD	IP: 60 BOPD + 25% Water	IP: 60 BOPD + 25% Water	IP: 30 BOPD

**ROCK TYPES**

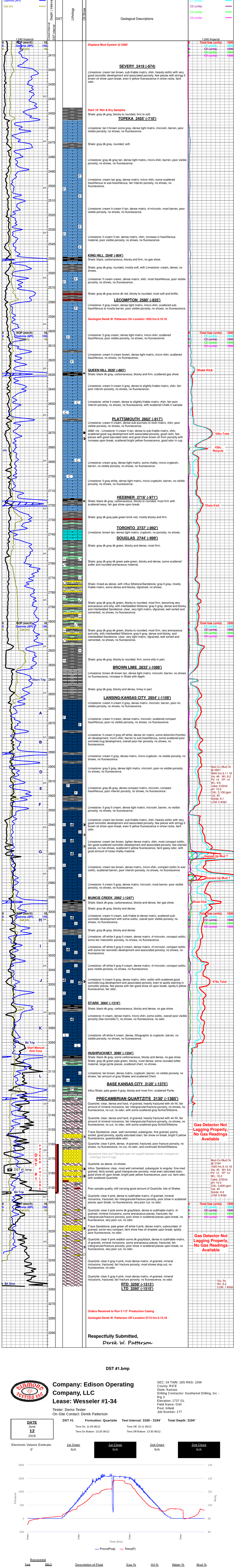
LMST1	LMST4	SCHIST	SHALE GRN
LMST2	QRTZITE	SILTSTONE	SHALE BLK
LMST3	Ss	SHALE CAR	SHALE RED

**ACCESSORIES**

<b>MINERAL</b> P Pyrite S Silty Chert White	<b>FOSSIL</b> F Fossils < 20% O Oolite C Oolitic	<b>STRANDER</b> S Sandstone Shale Gray Shale Red	<b>TEXTURE</b> C Chalky L Lithogr
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**OTHER SYMBOLS**

MISC	DST
DR Daily Report	DST1
Digital Photo	DST2
Document	DST3
Folder	Core
Link	Tail pipe
Vertical Log File	
Horizontal Log File	
Core Log File	
Drill Cuttings Ppt	



**DST #1.bmp**

Company: Edison Operating Company, LLC  
 Lease: Wessler #1-34  
 Tester: Site Tester  
 On-Demo Contact: Derek Patterson

SEC. 34 T2N: 18S R10W  
 County: RICE  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc.  
 Rig # 3  
 Elevation: 1737 Gt  
 Field Name: Orth  
 Pool: Infield  
 Job Number: 177

DATE	DST #1	Formation: Quartzite	Test Interval: 3160 - 3194'	Total Depth: 3194'
June 12 2018	Time On: 11:49:32.1	Time Off: 15:13:06.2	Time Off: 15:13:06.2	Time Off Bottom: 13:30:06.12
Electronic Volume Estimate: 0'	1st Open: N/A	1st Close: N/A	2nd Open: N/A	2nd Close: N/A



Foot	Recovery	Description of Fluid	Gas %	Oil %	Water %	Mud %
219	3.11637	M	0	0	100	0

Total Recovered: 219 ft  
 Total Barrels Recovered: 3.11637

Initial Hydrostatic Pressure	1570	PSI
Initial Flow	0	PSI
Initial Closed in Pressure	0	PSI
Final Flow Pressure	0	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	1568	PSI
Temperature	119	F
Pressure Change Initial Close / Final Close	0.0	%

REMARKS:  
 Packers failed to seat.

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 842

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-9-18	34	18	10	Rice	KS		12:15A
				Location: Clear (6E to 54K) 53 HW Sinto			

Lease	Wesseler	Well No.	1-34	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Southwind #3				
Type Job	Surface				
Hole Size	13 1/4	T.D.	392	Charge To	Edison Operating
Csg.	8 5/8	Depth	391	Street	
Tbg. Size		Depth		City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	15'	Shoe Joint		Cement Amount Ordered	200 <sup>lb</sup> /40 4/CC 2/6cc
Meas Line		Displace	24 BX		

**EQUIPMENT**

Pumptrk	No. 18	Cement		Common
		Helper		Poz. Mix
Bulktrk	No. 14	Driver	Graig	Gel.
		Driver	Doug	Calcium

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38

8 5/8 on bottom first circulation  
mix 200 lb 4/CC  
Cement Circulated

**FLOAT EQUIPMENT**

8 5/8 Swage	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge	
Mileage	
	Tax
	Discount
	Total Charge

X Signature 



PAGE 1 of 1	CUST NO 1007020	YARD # 1718	INVOICE DATE 06/14/2018
INVOICE NUMBER <b>92732419</b>			

Pratt (620) 672-1201  
 B EDISON OPERATING COMPANY LLC  
 1 8100 E 22ND ST N  
 L WICHITA  
 L KS US 67226  
 T  
 O ATTN: DAVID WITHROW

J LEASE NAME Wesseler 1-34  
 O B LOCATION  
 COUNTY Rice  
 STATE KS  
 S JOB DESCRIPTION Cement-New Well Casing/Pi  
 I T JOB CONTACT  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.		TERMS	DUE DATE
41113590	19843			Net - 30 days	07/14/2018
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 06/13/2018 to 06/13/2018</i>					
0041113590					
171816583A Cement-New Well Casing/Pi 06/13/2018 Cement/Longstring					
AA2 Cement		175.00	EA	9.69	1,695.75
60/40 POZ		50.00	EA	6.84	342.00
C-41P		83.00	EA	2.28	189.24
Salt		881.00	EA	0.28	251.08
C-17		83.00	LB	11.40	946.20
Gilsonite		875.00	EA	0.38	334.16
"Auto Fill Float Shoe 5 1/2" (Blue)"		1.00	EA	205.20	205.20
"Latch Down Plug & Baffle, 5 1/2" (Blue)"		1.00	EA	228.00	228.00
"5 1/2" Basket (Blue)"		1.00	EA	165.30	165.30
"Turbolizer, 5 1/2" (Blue)"		10.00	EA	62.70	627.00
Mud Flush		500.00	EA	0.86	427.50
Claymax KCL Substitute		8.00	EA	19.95	159.60
"Unit Mileage Chg (PU, cars one way)"		75.00	MI	2.56	192.37
Heavy Equipment Mileage		150.00	MI	4.28	641.25
776---Bulk Del Chgs per ton mil		1.00	EA	1,106.17	1,106.17
Depth Charge; 3001-4000'		1.00	EA	1,231.20	1,231.20
Blending & Mixing Service Charge		225.00	BAG	0.80	179.55
Plug Container Util. Chg.		1.00	EA	142.50	142.50
"Service Supervisor, first 8 hrs on loc.		1.00	EA	99.75	99.75

*u/m  
ms*  
  
*CEMENT For 5 1/2" CSW  
9245  
~*

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	9,163.82
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	0.00
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	9,163.82
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244-NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

34-185-10W

FIELD SERVICE TICKET  
1718 16583 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <b>6/13/2018</b> DISTRICT <b>Pratt, KS</b>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO. _____								
CUSTOMER <b>Edison Operations</b>		LEASE <b>Wesseler</b> WELL NO. <b>1-34</b>								
ADDRESS _____		COUNTY <b>Rice</b> STATE <b>KS</b>								
CITY _____ STATE _____		SERVICE CREW <b>Dgrin, Ed, Cgilos</b>								
AUTHORIZED BY _____		JOB TYPE: <b>2 42/5 1/2 Longstrings</b>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<b>19843</b>	<b>3/4</b>						<b>6/13</b>			<b>10:00</b>
<b>73768</b>	<b>1/2</b>					ARRIVED AT JOB	<b>6/13</b>			<b>1:00</b>
						START OPERATION	<b>6/13</b>			<b>4:15</b>
						FINISH OPERATION	<b>6/13</b>			<b>5:00</b>
						RELEASED	<b>6/13</b>			<b>3:30</b>
						MILES FROM STATION TO WELL	<b>81</b>			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *[Signature]*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA2 Cement	SK	175		2,975 00
CP103	60/40 Paz	SK	50		600 00
CC105	C-41 P	Lb	83		332 00
CC111	S91+	Lb	981		446 50
CC148	C-17	Lb	83		1,660 00
CC201	Gilsonite	Lb	875		386 25
CF1251	Auto Fill Flost Shoe 5 1/2 (Blue)	E9	1		360 00
CF607	Latch Down Plug & Baffle, 5 1/2 (Blue)	ES	1		400 00
CF1901	5 1/2 Basket (Blue)	E9	1		290 00
CF1651	Turbolizer, 5 1/2 (Blue)	ES	10		1,100 00
CC151	Mud Flush	Gsl	500		750 00
C704	Clymer KCL Substitute	Gsl	8		280 00
E100	Unit milesse Chesse- Pickups, Small Lens & Cers <sup>008</sup>	m.	75		337 50
E101	Heavy Equipment milesse	m.	150		1,125 00
E113	Proppant & Bulk Delivery Chesse, Per ton mile	Tolm	776		1,940 63
CE204	Depth chesse; 3,001-4,000'	4hr	1		2,160 00
CE240	Blenders & mixing Service Chesse	SK	225		315 00
CE504	Plug cont. ner Utilization Chesse	Job	1		250 00
S003	Service Supervisor, first 8 hrs on loc.	ES	1		175 00
SUB TOTAL					<b>16,076 88</b>

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
Discount		TOTAL DLS	<b>9,863 82</b>

SERVICE REPRESENTATIVE *[Signature]* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. \_\_\_\_\_



## Agreement of Terms and Conditions

All sales of services, products, or materials by Basic Energy Services LP, (hereinafter called BES) to any Customer, unless otherwise set out in writing, are subject to the terms and conditions set out herein.

### Terms:

All Service Charges and materials included in service price list are NET. Unless satisfactory credit has been established, cash payment will be required in advance. Credit Customer agrees to pay BES in its office in Cisco, Texas, for all services and materials on or before the 20th of the following month after the date of the invoice. Customer's invoice is considered in default if payment has not been received by the last day of the month following the month in which the invoice is dated and services delivered. Past due accounts will be subject to a charge for interest at the highest rate allowable by law, and if placed in the hands of an attorney for collection, Customer agrees to pay all collection costs, reasonable attorney fees and court costs.

### Taxes:

All prices are exclusive of any Federal, State or Special Taxes imposed on the sale or use of the merchandise and services listed, which taxes will be added to quoted prices where applicable. If payment of any applicable royalty or license fee is required in connection with any service performed by BES for Customer, such royalty or license fee will be billed to the Customer in addition to the price of the services performed.

### Special Pricing Provisions:

All materials listed in the price schedule are F.O.B. our field stock.

All prices are subject to change without notice.

The prices in this price list apply to normal operations. Special jobs under unusual circumstances on jobs requiring unusual mobilization of equipment and/or personnel, such as blowouts, experimental jobs, etc., are to be subject to special price quotations.

Orders for products of special design, size or materials are not subject to cancellation after processing of such order has begun by BES. Equipment altered, made to Customer's specifications, or requiring special handling, is subject to special prices.

If materials or services are ordered and the Customer cancels same after the materials have been prepared, a charge will be made to the Customer for expenses incurred.

Customer states that the well and all support personnel and services not being supplied by BES are ready and in condition to receive the materials and services being supplied by BES. Customer will be subject to a charge for "stand-by" time incurred by BES. For all BES services, stand-by time is all time our equipment is on location prior to commencement of operations or after completion of operations and is not operating for reasons not within the control of BES. Stand-by time is calculated from time of arrival on location or arrival time as scheduled by Customer, whichever is later, and until equipment is released by Customer.

### Towing Charges:

We will make reasonable attempts to get to and from the well under our own power. Should we be unable to do so because of poor or inadequate road conditions, and it becomes necessary to employ a tractor or other pulling equipment, such equipment will be supplied by the customer, or if furnished by us, the cost will be charged to the customer. In either event, Customer assumes liability for any damages arising from such pulling or arising from inadequate access to the well site.

### Product Return:

Any BES Products that have been in the hands of the Customer, if not special or obsolete, will be accepted for credit, subject to our approval and inspection, if they are new unused and in salable condition. The Customer will pay the return freight, and will receive credit at the original purchase price less the original outbound freight. Any material classified or ordered as special is not subject to return or cancellation privileges.

### Service Warranty:

There are obviously many conditions in and about the well which we can have no knowledge and over which we can have no control. Therefore, we do not guarantee any particular results from services to be performed hereunder. In interpreting information and making recommendations, either written or oral, as to type or amount of material or service to be furnished, or manner of performance, or in predicting results to be obtained therefrom, BES will give Customer the benefit of its best judgment based on its experience in the field. However, due to the Customer's control of the well the impracticality of providing BES with all the data concerning same, and the necessary reliance of BES upon supporting services, data and facts supplied by others, BES does not guarantee or warrant the accuracy or correctness of any facts, information or data furnished by BES or any interpretation of tests, meter readings, chart information, analysis of research or recommendations made by BES, unless caused by the willful misconduct or gross negligence of BES in the preparation of furnishing of such facts, information or data and NO WARRANTY IS GIVEN CONCERNING THE RECOMMENDATIONS MADE OR SERVICES RENDERED BY THE COMPANY AND NO WARRANTY IS MADE CONCERNING THE RESULTS SOUGHT TO BE OBTAINED THROUGH USE OF MATERIALS RECOMMENDED BY THE COMPANY. The Company's liability for injury to all persons or damage to any property or property rights, including but not limited to reservoir damage sub-surface trespass or drainage, etc., occasioned by reason of materials sold or rented or services performed hereunder shall be limited to those occurring due to the acts of willful misconduct or gross negligence of BES, and Customer agrees to be responsible for and indemnify BES against any loss or damage it may sustain by reason of materials sold or rented or services performed hereunder, unless such loss or damage is caused by the willful misconduct or gross negligence of BES.

### Product Warranty:

BES warrants all materials, products and supplies manufactured or furnished by it to be free from defects in material and workmanship, under normal use and service, when installed, used and serviced in the manner provided and intended, and that it can convey good title thereto. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OR MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. BES's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale of use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on the return to BES or at BES's option, to the allowance to the customer of credit for the cost of such items. In no event shall BES be liable for special, incidental, indirect, punitive or consequential damages.

### Service Conditions:

Because there are so many uncertain and unknown conditions not subject to our control, we can neither be liable for injuries to property or persons nor for loss or damage arising from the performance of our services or resulting therefrom.

BES shall not be liable or responsible for a Customer shall defend, indemnify, and save BES harmless, and its officers, agents or employees, from and against any and all claims or causes of action for damage to Customer's property and of the well owner, or any third person, and for bodily injury, sickness or disease, including death resulting therefrom, brought by or on behalf of Customer, the well owner, or any third person, arising out of or in connection with BES's performance of services or the furnishing of materials, products and supplies, unless caused by the willful misconduct or gross negligence of BES.

Customer shall also be responsible for and shall defend, indemnify and save BES harmless, and its officers, agents or employees, from and against any and all claims, causes of action and liabilities for damages occur-

ring as a result of sub-surface trespass arising out of any well operations or services performed by BES, this provision applying to any claims or legal actions or royalty owners, working interest holders, overriding royalty interest holders, or any other person or concern.

Should any of our equipment, tools or instruments become lost in the well when performing or attempting to perform our services hereunder, it is understood that the Customer shall make reasonable effort to recover the lost equipment. The Customer shall assume the entire responsibility for such fishing operations in the recovery or attempted recovery of any such lost equipment, tools or instruments and if such equipment, tools or instruments are not recovered, Customer shall pay BES its replacement cost unless such loss is due to the sole negligence of BES. If BES's equipment, tools or instruments are damaged in the well, Customer shall pay BES the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of BES.

Work done by BES shall be under the direction, supervision and control of the owner, operator, or his agent and BES will perform the work as an independent contractor and not as an employee or agent of the owner or operator.

The Customer shall at all times have complete care, custody and control of the well, the drilling and production equipment at the well and the premises about the well.

Any delays or failure by BES in the performance of this contract shall be excused if and to the extent caused by war, fire, flood, strike, labor trouble, accident riot, acts of God, or any contingencies beyond the reasonable control of BES. Disposal of the chemicals used in the performance of this contract is the responsibility of Customer. Customer agrees the chemicals will be disposed of in accordance with all applicable Federal, State and local laws and regulations.

### General Provisions:

Wherever the initials BES appear in this document, they are intended solely to be an abbreviation of Basic Energy Services LP, and are used in substitution of such full name as if the full name were set out in each instance.

Any modifications of this document by the Customer, and all additional or different terms included in the Customer's purchase order or any other document responding to this document, are hereby objected to BY REQUESTING ANY OF THE GOODS AND SERVICES SET FORTH HEREIN BUYER AGREES TO ALL THE TERMS AND CONDITIONS CONTAINED IN THIS DOCUMENT.

BES reserves the right to change or modify the design of any BES product without obligation to furnish or install such changes or modification on products previously or subsequently sold.

Information regarding our services rendered in Customer's well is held in strict confidence and will be released to others only upon written approval by owner, or when required by Federal, State or Local Laws, Regulations, Orders or Ordinances, or for use as evidence in court proceedings involving the subject matter of services rendered.

Failure to enforce any or all of the herein specified terms or conditions in any particular instance shall not constitute a continuing waiver, or preclude subsequent enforcement thereof.

No employee, representative or agent other than an officer of BES is empowered to alter any of the herein specified terms and conditions.

These terms and condition shall be governed by the laws of the State of Texas, and in case of any one or more of the provisions contained herein shall for any reason be held to be invalid, illegal or unenforceable in any respect, such shall not affect any other provision hereof and this Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.



# BASIC

ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

311-185-1061

## FIELD SERVICE TICKET

1718 16583 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <i>6/11/2016</i> DISTRICT <i>Pic</i>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER <i>F... Qu...</i>		LEASE <i>W... 10</i>				WELL NO. <i>1</i>				
ADDRESS		COUNTY <i>R Ge</i>		STATE <i>Ks</i>						
CITY STATE		SERVICE CREW <i>D... G... C...</i>								
AUTHORIZED BY		JOB TYPE: <i>2 1/2 1/2 Lines</i>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<i>17943</i>	<i>2 1/2</i>						<i>6/11</i>			<i>1:00</i>
<i>75768</i>	<i>1/2</i>									
						ARRIVED AT JOB	<i>6/11</i>			<i>4:15</i>
						START OPERATION	<i>6/11</i>			<i>5:00</i>
						FINISH OPERATION	<i>6/11</i>			<i>5:00</i>
						RELEASED	<i>6/11</i>			<i>5:00</i>
						MILES FROM STATION TO WELL	<i>81</i>			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA 2 Cement	SK	175		2,975.00
CP103	Leidho Paz	SK	50		600.00
CC105	C 41 P	LB	83		332.00
CC111	Sc 12	LB	881		4110.50
CC147	C 17	LB	83		1,660.00
CC101	G 1500	LB	870		386.25
CF1251	Mud. Filtr. Paper 5 1/2 (Blue)	FS	1		360.00
CF207	Leidho Plus 5 1/2 (Blue)	FS	1		460.00
CF1901	5 1/2 Bore (Blue)	FS	1		270.00
CF1651	Turnover 5 1/2 (Blue)	FS	10		1,100.00
CC154	Mud Filtr. Paper	FS	694		750.00
CF011	Cic. mc. 1. CL 5 1/2	FS	8		280.00
F101	1/2" m. wireline	M	70		337.20
F101	Heavy Gauge wireline	M	150		1,125.00
F101	Wireline	Yds	776		1,940.63
CF241	Derrick ch. 3001 4' x 6'	Yds	1		2,160.00
CF140	Block & m...	SK	225		315.00
CF 504	Pl...	SK	1		250.00
S003	S...	SK	1		175.00
SUB TOTAL					16,076.88
CHEMICAL / ACID DATA:					
SERVICE & EQUIPMENT					%TAX ON \$
MATERIALS					%TAX ON \$
Discreet TOTAL					7,861.82

SERVICE REPRESENTATIVE *[Signature]*

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*

FIELD SERVICE ORDER NO. \_\_\_\_\_

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

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### Product Warranty:

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Customer shall also be responsible for and shall defend, indemnify and save BES harmless, and its officers, agents or employees, from and against any and all claims, causes of action and liabilities for damages occur-

ring as a result of sub-surface trespass arising out of any oil well operations or services performed by BES, this provision applying to any claims or legal actions or royalty owners, working interest holders, overriding royalty interest holders, or any other person or concern.

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Work done by BES shall be under the direction, supervision and control of the owner, operator, or his agent and BES will perform the work as an independent contractor and not as an employee or agent of the owner or operator.

The Customer shall at all times have complete care, custody and control of the well, the drilling and production equipment at the well and the premises about the well.

Any delays or failure by BES in the performance of this contract shall be excused if and to the extent caused by war, fire, flood, strike, labor trouble, accident riot, acts of God, or any contingencies beyond the reasonable control of BES. Disposal of the chemicals used in the performance of this contract is the responsibility of Customer. Customer agrees the chemicals will be disposed of in accordance with all applicable Federal, State and local laws and regulations.

### General Provisions:

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BES reserves the right to change or modify the design of any BES product without obligation to furnish or install such changes or modification on products previously or subsequently sold.

Information regarding our services rendered in Customer's well is held in strict confidence and will be released to others only upon written approval by owner, or when required by Federal, State or Local Laws, Regulations, Orders or Ordinances, or for use as evidence in court proceedings involving the subject matter of services rendered.

Failure to enforce any or all of the herein specified terms or conditions in any particular instance shall not constitute a continuing waiver, or preclude subsequent enforcement thereof.

No employee, representative or agent other than an officer of BES is empowered to alter any of the herein specified terms and conditions.

These terms and condition shall be governed by the laws of the State of Texas, and in case of any one or more of the provisions contained herein shall for any reason be held to be invalid, illegal or unenforceable in any respect, such shall not affect any other provision hereof and this Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.

# BASIC

energy services, L.P.

## TREATMENT REPORT

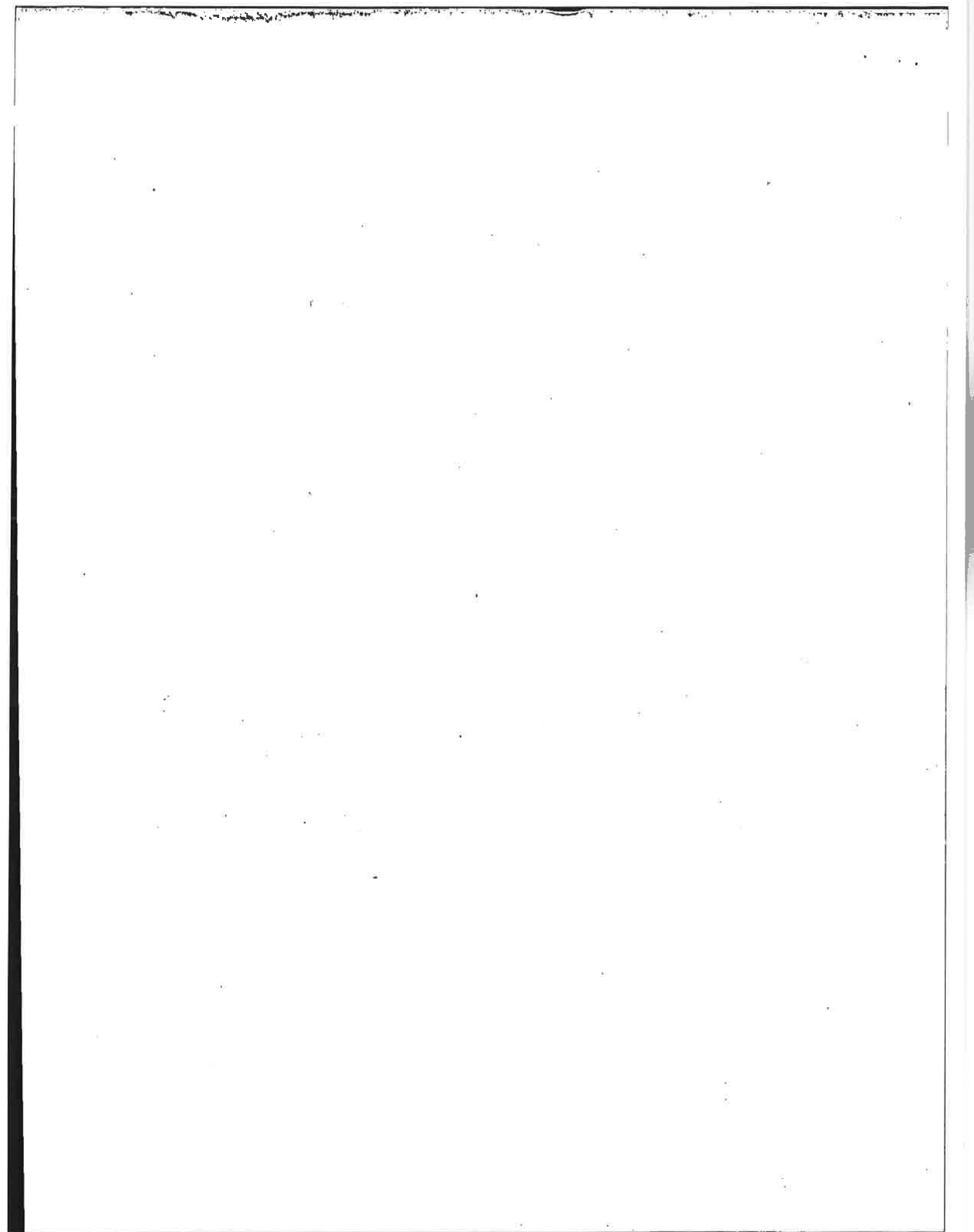
Customer <b>Edison Operations</b>	Lease No.	Date <b>6/13/2018</b>
Lease <b>Wesseler</b>	Well # <b>1-34</b>	
Field Order # <b>16583</b>	Station <b>Pratt, KS</b>	Casing <b>5 1/2</b>
		Depth <b>3255</b>
Type Job <b>242/5 1/2 Longstrings</b>	Formation <b>TD-3260</b>	County <b>Rice</b>
		State <b>KS</b>
		Legal Description <b>34-18s-10w</b>

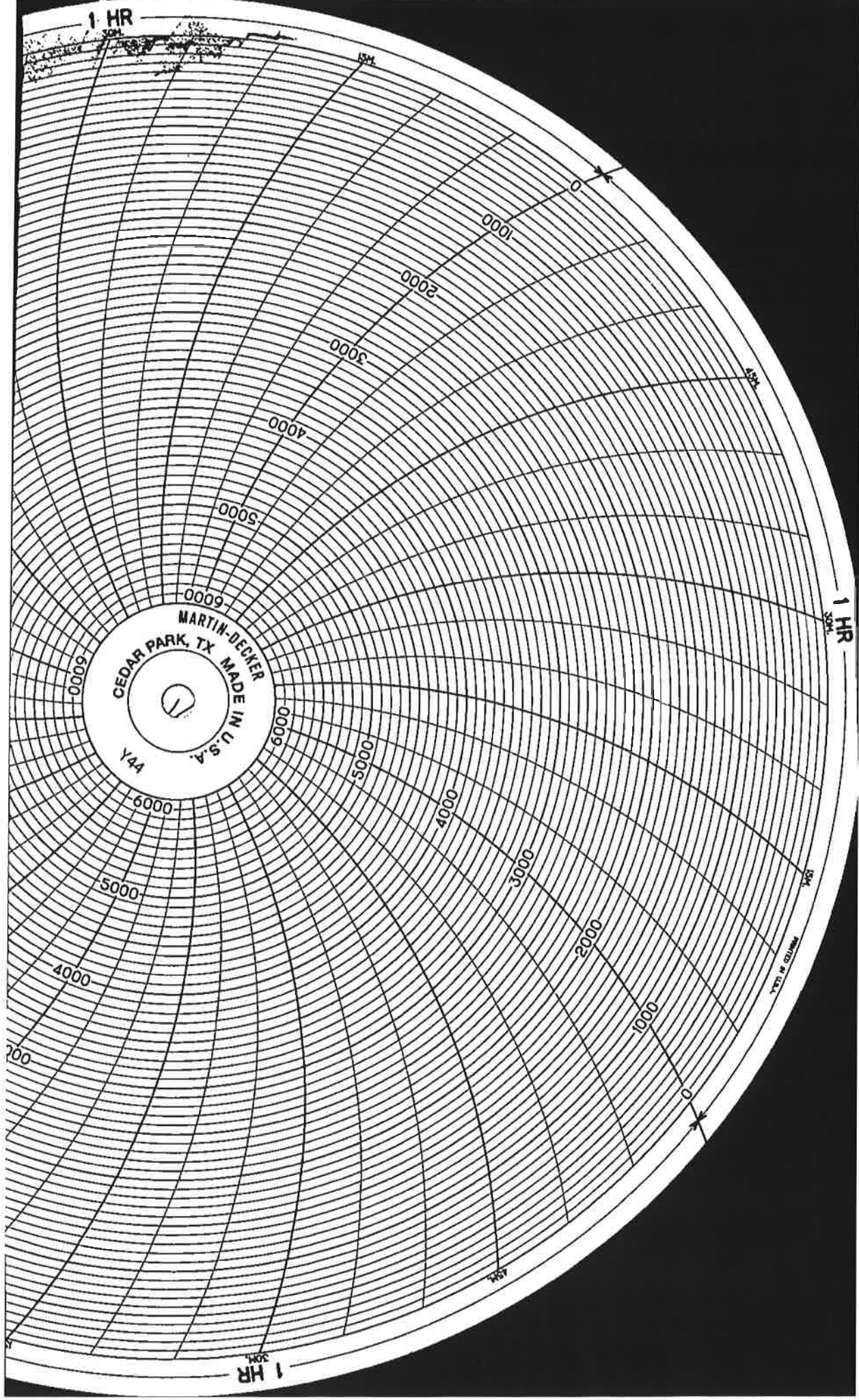
PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2								
Depth 3255	Depth	From	To	Pre Pad	Max			5 Min.
Volume 75.5	Volume	From	To	Pad	Min			10 Min.
Max Press 1500	Max Press	From	To	Frac	Avg			15 Min.
Well Connection 521	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 3215	Packer Depth	From	To	Flush <b>KCL water</b>	Gas Volume			Total Load

Customer Representative <b>Dylan Popp</b>	Station Manager <b>Justin Westerman</b>	Treater <b>Darin Franklin</b>
---	---	-------------------------------

Service Units	92911	84981	19843	19903	73768				
Driver Names	Darin	Ed	Ed	Carlos	Carlos				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:00pm					On location / Safety meeting
					T-1,2,3,5,7,9,10,13,15,16 B-4
					3255' 5 1/2 17# Casing
					175SK AD2 Cement, 5% Gypsum, 10% SSIT
					0.5% defoamer, 0.5% Flux loss, 5ppm Silsonite
					15.0 ppg, 1.42 vaild, 6.02 water
					50SK 60/40 P02, 2% G-1
					14.8 ppg, 1.18 vaild, 5.15 water
4:15pm	200		20	5	Pump 20 bbls KCL water
	200		12	5	500 gals mud Flush
	200		44	5	Mix 175SK AD2
					Shut down
					Wash pump & lines & Release Plug
	100		0	6	Start displacement
	400		51	6	Lift Pressure
	400		64	3	Slow Rate
	1500		72	3	Bump Plug
					Flow - Held
	50		7	3	Plug Ret hole
5:00pm					Job complete / Darin & crew





1 HR

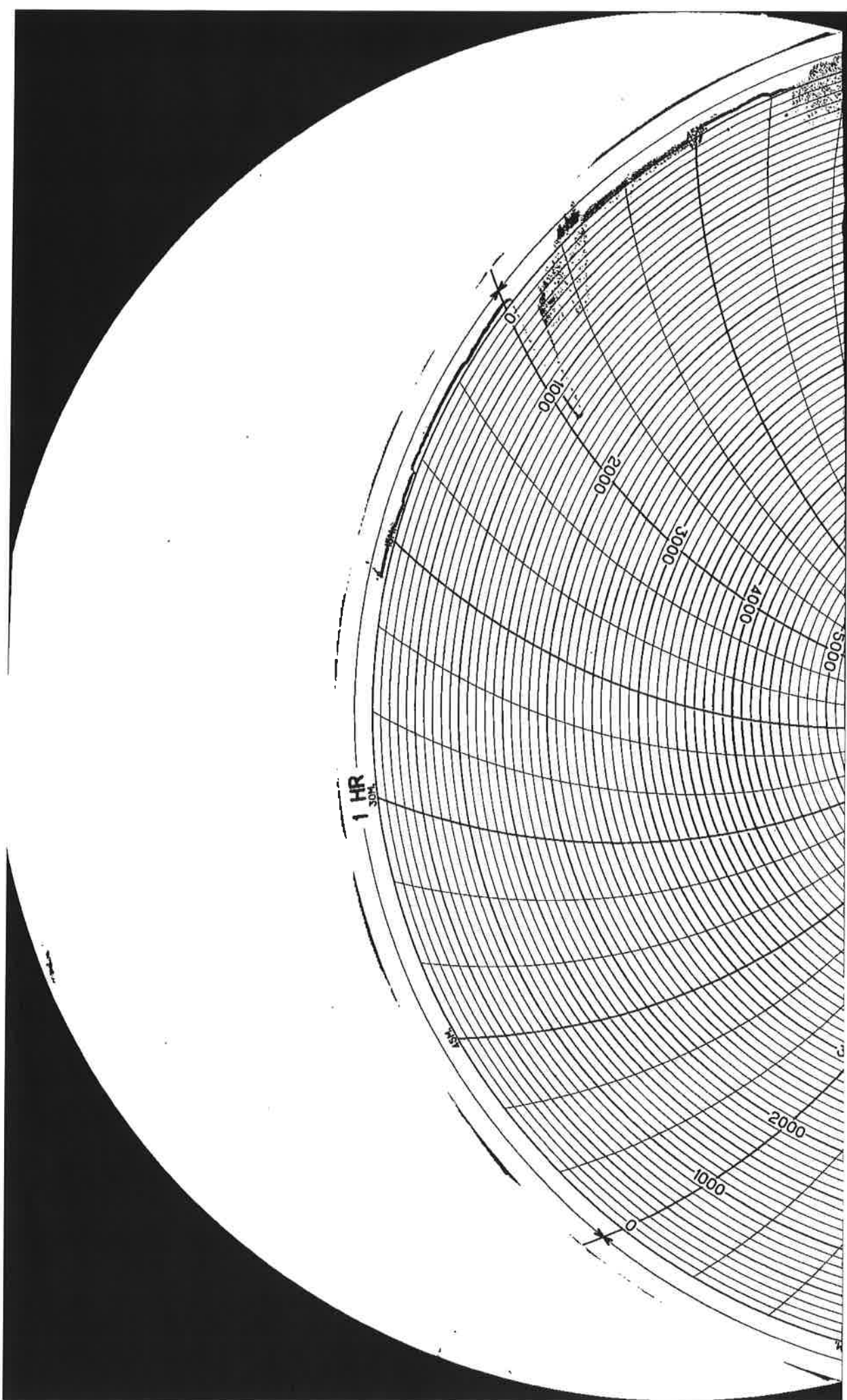
1 HR

1 HR

MARTIN-DECKER  
CEDAR PARK, TX MADE IN U.S.A.  
Y44

0  
1000  
2000  
3000  
4000  
5000  
6000

MADE IN U.S.A.





**Company: Edison Operating Company, LLC**  
**Lease: Wesseler #1-34**

SEC: 34 TWN: 18S RNG: 10W  
 County: RICE  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1737 GL  
 Field Name: Orth  
 Pool: Infield  
 Job Number: 177

**DATE**  
 June  
**12**  
 2018

**DST #1**    **Formation: Quartzite**    **Test Interval: 3160 - 3194'**    **Total Depth: 3194'**  
 Time On: 11:49 06/12    Time Off: 15:11 06/12  
 Time On Bottom: 13:26 06/12    Time Off Bottom: 13:30 06/12

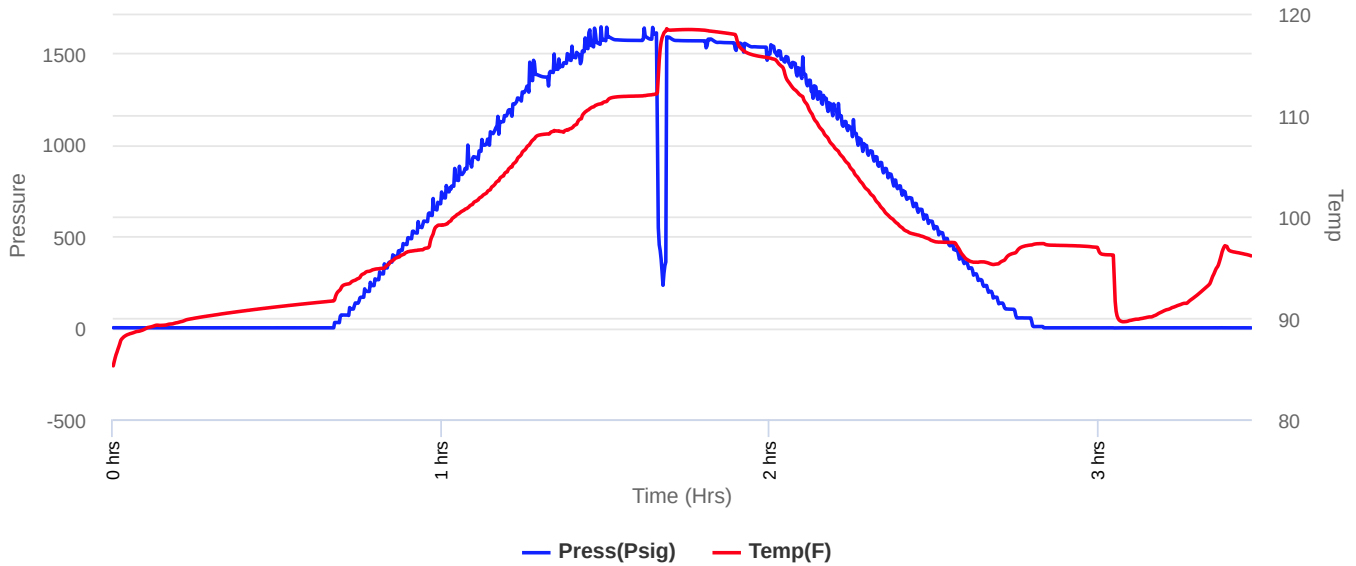
Electronic Volume Estimate:  
 0'

1st Open  
 N/A

1st Close  
 N/A

2nd Open  
 N/A

2nd Close  
 N/A







**Company: Edison Operating Company, LLC**  
**Lease: Wesseler #1-34**

SEC: 34 TWN: 18S RNG: 10W  
 County: RICE  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1737 GL  
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**DATE**  
 June  
**12**  
 2018

**DST #1**    **Formation: Quartzite**    **Test Interval: 3160 - 3194'**    **Total Depth: 3194'**  
 Time On: 11:49 06/12    Time Off: 15:11 06/12  
 Time On Bottom: 13:26 06/12    Time Off Bottom: 13:30 06/12

Recovered

Foot	BBLs
219	3.11637

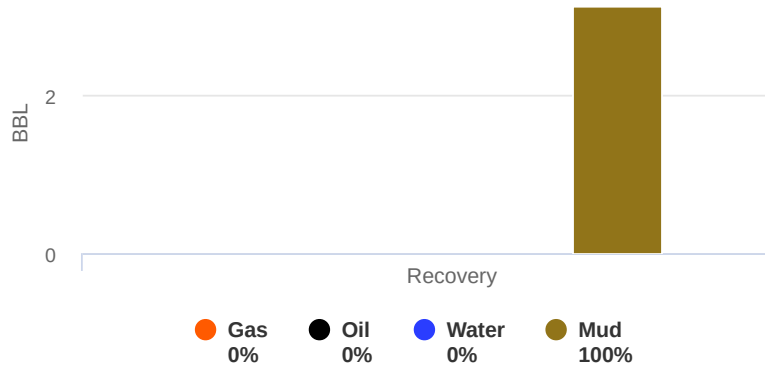
Description of Fluid	Gas %	Oil %	Water %	Mud %
M	0	0	0	100

Total Recovered: 219 ft  
 Total Barrels Recovered: 3.11637

Reversed Out  
 NO

**Recovery at a glance**

Initial Hydrostatic Pressure	1570	PSI
Initial Flow	0	PSI
<b>Initial Closed in Pressure</b>	<b>0</b>	<b>PSI</b>
Final Flow Pressure	0	PSI
<b>Final Closed in Pressure</b>	<b>0</b>	<b>PSI</b>
Final Hydrostatic Pressure	1568	PSI
Temperature	119	°F
Pressure Change Initial Close / Final Close	0.0	%





**Company: Edison Operating  
Company, LLC  
Lease: Wesseler #1-34**

SEC: 34 TWN: 18S RNG: 10W  
County: RICE  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1737 GL  
Field Name: Orth  
Pool: Infield  
Job Number: 177

<b><u>DATE</u></b> June <b>12</b> 2018
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**3194'**

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**REMARKS:**

Packers failed to seat.



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**Down Hole Makeup**

<b>Heads Up:</b> 21.98 FT	<b>Packer 1:</b> 3155 FT
<b>Drill Pipe:</b> 3149.41 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3160 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3144.42 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3163 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 34	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 1 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 32 FT <i>4 1/2-FH</i>	



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**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.6      **Viscosity:** 45      **Filtrate:** 10      **Chlorides:** 5600 ppm