

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

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	Raydon Exploration, Inc.
Well Name	CT 1-16
Doc ID	1409284

All Electric Logs Run

Array Compensated True Resistivity Log
Annular Hole Volume
Microlog
Dual Spaced Neutron Spectral Density Log
Wavesonic Delta-T Log



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING

Job Log

Customer:	Raydon Exploration	Cement Pump No.:	70897-19570 10 HRS	Operator TRK No.:	96815
Address:	1601 NW Expressway STE 1300	Ticket #:	1718-15642 L	Bulk TRK No.:	27808-19883 14355-37724
City, State, Zip:	Oklahoma City Ok 73118	Job Type:	Z42 - Cement Surface Casing		
Service District:		Well Type:	OIL		

Well Name and No.:	CT 1-16	Well Location:	16,34,28	County:	Meade	State:	Ks
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Type of Cmt	Sacks	Additives	Truck Loaded On		
A-CON BLEND	400	3%CaCl, 1/4#POLYFLAKE, .2%WCA-1	27808-19883	Front	Back
PREMIUM PLUS	150	2%CaCl, 1/4#POLYFLAKE	14355-37724	Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	11.4	2.95	18.1	1180	Man Hours:	55
Tail:	14.8	1.34	6.33	201	# of Men on Job:	4

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
20:30							4/9/18 ON LOC, SAFTEY MTG, R.U.
5:43						2600	TEST LINES
5:47 AM	6					200	START LEAD@ 11.4#
6:24 AM	6.2	210				120	ON TAIL @ 14.8#
6:33 AM		36					SHUT DOWN, DROP PLUG
6:35	5.5					120	START DISPLACEMENT, WASHUP
6:54	1.7	85				280	SLOW RATE
6:57 AM	1.2	90				300	SLOW RATE
7:07		99.25				330-960	PLUG DOWN
7:09						960-0	RELEASE PSI, FLOAT HELD
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!

Size Hole	12 1/4	Depth			TYPE	
Size & Wt. Csg.	8 5/8 24	Depth	1602	New / Used	Packer	Depth
Tbg.		Depth			Retainer	Depth
Top Plugs		Type			Perfs	CIBP

Customer Signature:	Basic Representative:	CHAD HINZ
	Basic Signature:	
	Date of Service:	4/10/2018



Company: Raydon Exploration, Inc
Lease: CT #1-16

SEC: 16 TWN: 34S RNG: 28W
 County: MEADE
 State: Kansas
 Drilling Contractor: Quest Drilling Services, LLC - Rig 102
 Elevation: 2322 GL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 145

DATE
 April
16
 2018

DST #1 Formation: Swope Test Interval: 4930 - 4981' Total Depth: 4981'
 Time On: 14:30 04/16 Time Off: 01:45 04/17
 Time On Bottom: 17:47 04/16 Time Off Bottom: 22:17 04/16

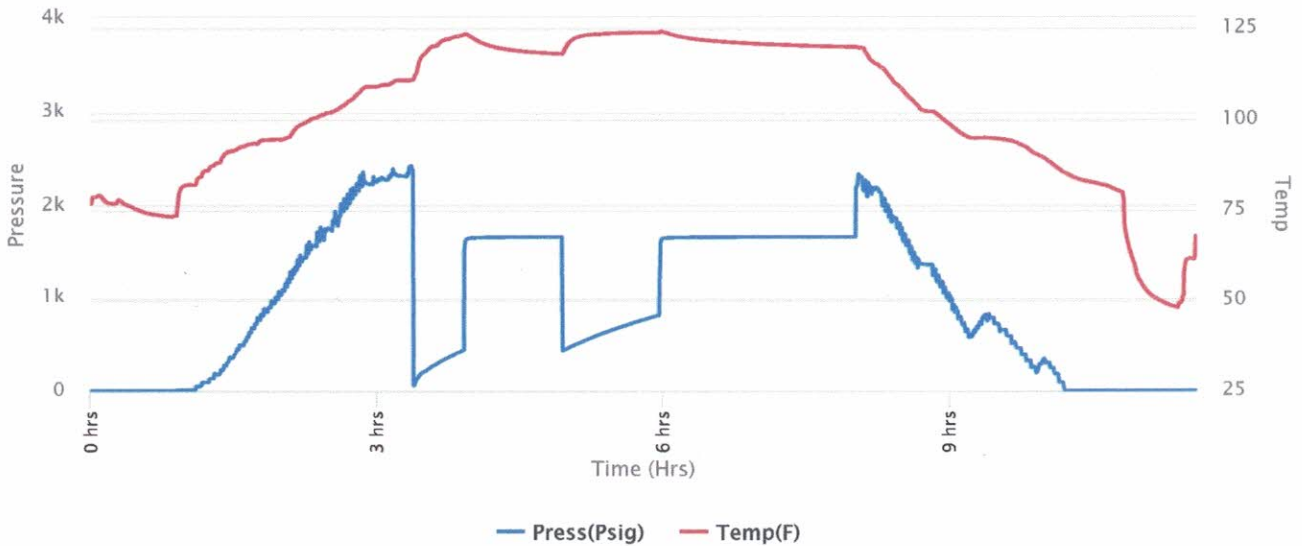
Electronic Volume Estimate:
 1883'

1st Open
 Minutes: 30
 58.0" at 30 min

1st Close
 Minutes: 60
 1.1" at 60 min

2nd Open
 Minutes: 60
 87.9" at 60 min

2nd Close
 Minutes: 120
 0" at 120 min





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Time On: 14:30 04/16 Time Off: 01:45 04/17
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Recovered

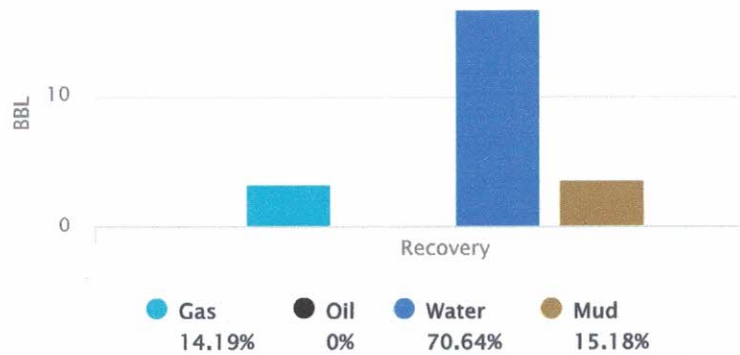
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
235	3.34405	G	100	0	0	0
325	4.62475	HMCW	0	0	53	47
1310	15.6056814	SLMCW	0	0	91	9

Total Recovered: 1870 ft

Total Barrels Recovered: 23.5744814

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	2310	PSI
Initial Flow	51 to 436	PSI
Initial Closed in Pressure	1661	PSI
Final Flow Pressure	431 to 807	PSI
Final Closed in Pressure	1661	PSI
Final Hydrostatic Pressure	2302	PSI
Temperature	125	°F
Pressure Change Initial Close / Final Close	0.0	%



**Company: Raydon Exploration,
Inc**
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State: Kansas
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Services, LLC - Rig 102
Elevation: 2322 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 145

DATE April 16 2018

DST #1	Formation: Swope	Test Interval: 4930 - 4981'	Total Depth: 4981'
	Time On: 14:30 04/16	Time Off: 01:45 04/17	
	Time On Bottom: 17:47 04/16	Time Off Bottom: 22:17 04/16	

REMARKS:

Initial Flow: Blow increasing. BOB in 5 mins.
Initial Shut-in: 1 in. blow back.
Final Flow: Blow increasing. BOB in 9 mins.
Final Shut-in: No blow back.

Tool Sample: 99% water, 1% mud

Ph: 7.5

RW: .11 @ 56 degrees F

Chlorides: 100,000 ppm



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 Elevation: 2322 GL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 145

DATE
April
16
2018

DST #1 Formation: Swope Test Interval: 4930 - 4981' Total Depth: 4981'
 Time On: 14:30 04/16 Time Off: 01:45 04/17
 Time On Bottom: 17:47 04/16 Time Off Bottom: 22:17 04/16

Down Hole Makeup

Heads Up: 8.64 FT	Packer 1: 4924.6 FT
Drill Pipe: 4579.61 FT <i>ID-3 1/2</i>	Packer 2: 4930.1 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4914.02 FT
Collars: 326.06 FT <i>ID-2 1/4</i>	Bottom Recorder: 4969 FT
Test Tool: 34.07 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 50.9	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 4 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 30.90 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 13 FT <i>4 1/2-FH</i>	



**Company: Raydon Exploration,
Inc**

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Elevation: 2322 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 145

DATE April 16 2018

DST #1	Formation: Swope	Test Interval: 4930 - 4981'	Total Depth: 4981'
	Time On: 14:30 04/16	Time Off: 01:45 04/17	
	Time On Bottom: 17:47 04/16	Time Off Bottom: 22:17 04/16	

Mud Properties

Mud Type: Chemical	Weight: 8.9	Viscosity: 54	Filtrate: 5.6	Chlorides: 2,600 ppm
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Lease: CT #1-16

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 Elevation: 2322 GL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 145

DATE
 April
18
 2018

DST #2 **Formation: Novinger** **Test Interval: 5202 - 5223'** **Total Depth: 5223'**
 Time On: 05:55 04/18 Time Off: 17:26 04/18
 Time On Bottom: 09:10 04/18 Time Off Bottom: 13:40 04/18

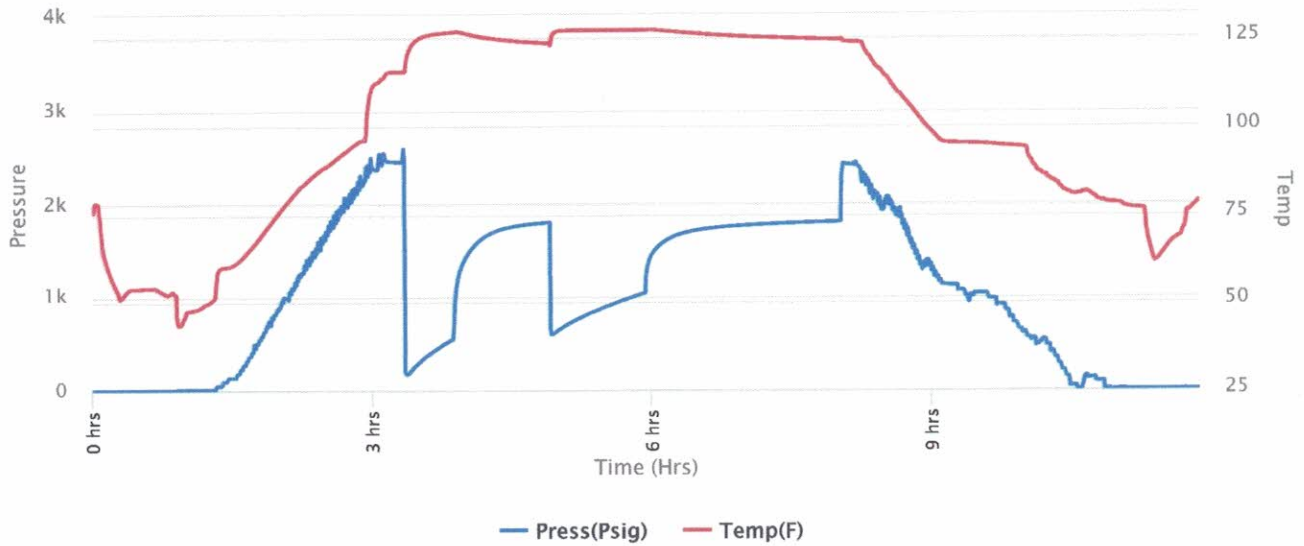
Electronic Volume Estimate:
 2653'

1st Open
 Minutes: 30
 109.7" at 30 min

1st Close
 Minutes: 60
 2.5" at 60 min

2nd Open
 Minutes: 60
 104.3" at 60 min

2nd Close
 Minutes: 120
 0" at 120 min





Company: Raydon Exploration, Inc
Lease: CT #1-16

SEC: 16 TWN: 34S RNG: 28W
 County: MEADE
 State: Kansas
 Drilling Contractor: Quest Drilling Services, LLC - Rig 102
 Elevation: 2322 GL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 145

DATE
 April
18
 2018

DST #2 Formation: Novinger Test Interval: 5202 - 5223' Total Depth: 5223'

Time On: 05:55 04/18 Time Off: 17:26 04/18
 Time On Bottom: 09:10 04/18 Time Off Bottom: 13:40 04/18

Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
565	8.03995	G	100	0	0	0
200	2.846	SLOCHWCM	0	2	45	53
190	2.7037	MCW	0	0	80	20
1035	14.72805	SLMCW	0	0	97	3
630	6.4829471	W	0	0	100	0

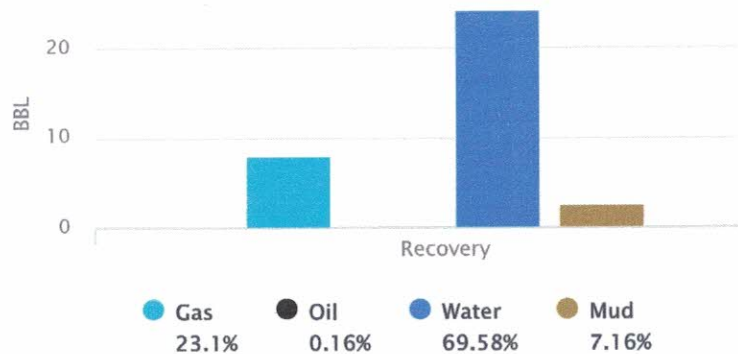
Total Recovered: 2620 ft

Total Barrels Recovered: 34.8006471

Reversed Out
 NO

Initial Hydrostatic Pressure	2443	PSI
Initial Flow	167 to 541	PSI
Initial Closed in Pressure	1798	PSI
Final Flow Pressure	587 to 1030	PSI
Final Closed in Pressure	1802	PSI
Final Hydrostatic Pressure	2435	PSI
Temperature	128	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance





**Company: Raydon Exploration,
Inc**
Lease: CT #1-16

SEC: 16 TWN: 34S RNG: 28W
County: MEADE
State: Kansas
Drilling Contractor: Quest Drilling
Services, LLC - Rig 102
Elevation: 2322 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 145

DATE April 18 2018

DST #2 Formation: Novinger Test Interval: 5202 - Total Depth: 5223'
5223'

Time On: 05:55 04/18 Time Off: 17:26 04/18
Time On Bottom: 09:10 04/18 Time Off Bottom: 13:40 04/18

REMARKS:

Initial Flow: Blow increasing. BOB in 1 min.
Initial Shut-in: 2 1/2 in. blow back.
Final Flow: Blow increasing. BOB in 4 mins.
Final Shut-in: Surface blow back.

Tool Sample: 98% water, 2% mud

Ph: 5.5

RW: .07 @ 81 degrees F

Chlorides: 125,000 ppm



Company: Raydon Exploration, Inc
Lease: CT #1-16

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 County: MEADE
 State: Kansas
 Drilling Contractor: Quest Drilling Services, LLC - Rig 102
 Elevation: 2322 GL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 145

DATE
April
18
2018

DST #2 Formation: Novinger Test Interval: 5202 - 5223' Total Depth: 5223'
 Time On: 05:55 04/18 Time Off: 17:26 04/18
 Time On Bottom: 09:10 04/18 Time Off Bottom: 13:40 04/18

Down Hole Makeup

Heads Up: 21.43 FT	Packer 1: 5196.5 FT
Drill Pipe: 4923.77 FT <i>ID-3 1/2</i>	Packer 2: 5202 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 5185.92 FT
Collars: 266.59 FT <i>ID-2 1/4</i>	Bottom Recorder: 5204 FT
Test Tool: 34.07 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 21	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 20 FT <i>4 1/2-FH</i>	



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DATE April 18 2018

DST #2 Formation: Novinger Test Interval: 5202 - 5223' Total Depth: 5223'

Time On: 05:55 04/18 Time Off: 17:26 04/18
Time On Bottom: 09:10 04/18 Time Off Bottom: 13:40 04/18

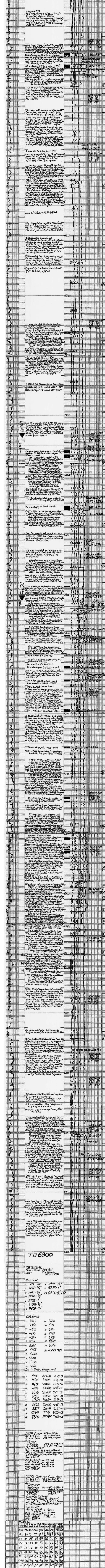
Mud Properties

Mud Type: Chemical **Weight:** 8.8 **Viscosity:** 46 **Filtrate:** 6.0 **Chlorides:** 3,000 ppm

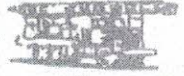
GEOLOGIST'S REPORT

CONTRACT NO. **117-11-21420**
 COUNTY **Meade** STATE **Kansas**
 LOCATION **117-11-21420**
 DATE **APR 15-19-1930**

REMARKS: Earth-Touch #88-513-9378 had an unexplained oxide detection trace on this well from 4000 feet to total depth.



Thank you
 Edwin H. Grouse
 Geologist



Conductor and Rat Hole Drilling, Landfill Gas Drilling and Well Construction Nationwide

Date	Invoice #
4/7/2018	12454

Bill To
Raydon Exploration % Crown Consulting P.O. Box 1618 Liberal, KS 67905

ENTERED
APR 25 2018
KNOLCPA405

Legal Description	Ordered By	Terms	Field Ticket	Lease Name	Drill Rig
SE Meade, KS	Clint/Oscar	Net 30	9292	CT 1-16	Tomcat3/Quest 102

Item	Quantity	Description	Rate	Amount
Conductor	125	Drilled 125' of 30" hole for conductor	50.00	6,250.00
20" Pipe	125	Furnished 125' of 20" conductor pipe	30.00	3,750.00
15"X 30'	30	Furnished 30' x 15" Shuck	20.00	600.00
15"X 20'	20	Furnished 20' x 15" Shuck	20.00	400.00
Dirt Removal	1	Provided Labor and Equipment for dirt removal and cleanup	950.00	950.00
Placement	1	Equipment and Labor to install pipe in holes	1,000.00	1,000.00
Welder	1	Weid pipe	250.00	250.00
Grout	16	Furnished grout	200.00	3,200.00
Equipment	1	Cement pumping	500.00	500.00
Deliver Grout	3	Deliver grout to location	250.00	750.00
Cover Plate	1	Cover Plate	30.00	30.00
Barrier Fence	1	Provided and Set Barrier Fence	75.00	75.00

156500 170

CROWN CONSULTING, INC.

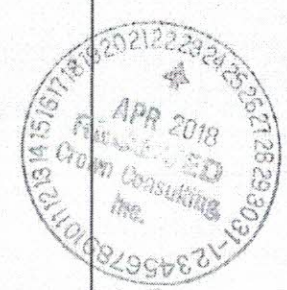
REG. PROD. _____

COMP. _____

LEASE: CT # 1-16

DESCRIPTION: ~~CONDUCTOR~~ CONDUCTOR PIPE

MEAD 4-23-18



Thank you for your business.	Subtotal	\$17,755.00
	Sales Tax (7.5%)	\$604.13
	Total	\$18,359.13