

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 Recompletion Date _____ 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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--



QUASAR ENERGY SERVICES, INC.

3288 FM 51
 Gainesville, Texas 76240
 Office: 940-612-3336
 Fax: 940-612-3336 | qesi@qeserve.com

Form 185-2c

1/28/21

CEMENTING JOB LOG

CEMENTING JOB LOG

Company: RAYDON EXPLORATION INC. **Well Name:** CATHER 1-6

Type Job: Cement- Surface **AFE #:**

CASING DATA

Size:	8 5/8	Grade:	J-55	Weight:	24
Casing Depths	Top:	Bottom:			
Drill Pipe:	Size:	Weight:			
Tubing:	Size:	Weight:		Grade:	TD (ft):
Open Hole:	Size:	T.D. (ft):			
Perforations	From (ft):	To:	Packer Depth(ft):		

CEMENT DATA

Spacer Type:						
Amt.	Sks Yield		ft ³ /sk	Density (PPG)		
LEAD:	CLASS A 3%CaCl, 2%GEL, 1/4#POLYFLAKE				Excess	
Amt.	250	Sks Yield	1.38	ft ³ /sk	Density (PPG)	14.8#
TAIL:					Excess	
Amt.	Sks Yield		ft ³ /sk	Density (PPG)		

WATER:							
Lead:	6.5	gals/sk:	38.7	Tail:		gals/sk:	Total (bbls): 38.7

Pump Trucks Used: 210-DP11

Bulk Equipment: 229 660-23

Disp. Fluid Type: FRESH Amt. (Bbls.) 19.7 Weight (PPG): 8.3

Mud Type: Weight (PPG):

COMPANY REPRESENTATIVE: MYRON HESTON **CEMENTER:** CHAD HINZ

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
	AM/PM	Casing	Tubing	ANNULUS	TOTAL	
2100						ON LOC, SAFTEY MTG 1/28/21
2344	2000					TEST LINES 1/29/21
2347	120				4.2	START MIXING @ 14.8#
007				61.5		SHUT DOWN, DROP PLUG
007					2	START DISPLACEMENT
015	61			19.75		SHUT DOWN
017						RELEASE PSI, NO FLOWBACK
						JOB COMPLETE
						THANK YOU FOR YOUR BUSINESS!!!



Company: Raydon Exploration, Inc

Lease: Cather #1-6

SEC: 6 TWN: 34S RNG: 7W
County: HARPER
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 7
Elevation: 1364 EGL
Field Name: Shock
Pool: WILDCAT
Job Number: 469
API #: 15-077-22186

Operation:
Test Complete

DATE
February
02
2021

DST #1 **Formation: Tonkawa** **Test Interval: 3768 - 3780'** **Total Depth: 3780'**
Time On: 19:32 02/02 Time Off: 05:38 02/03
Time On Bottom: 21:19 02/02 Time Off Bottom: 01:49 02/03

Electronic Volume Estimate:
N/A

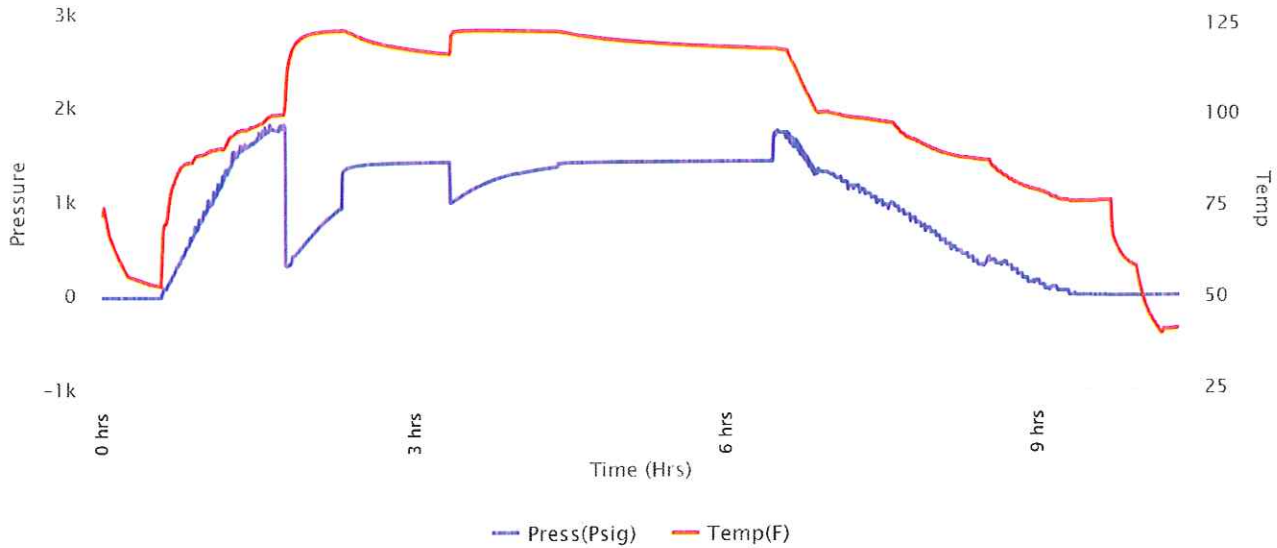
1st Open
Minutes: 30
Current Reading:
300" at 30 min
Max Reading: 300"

1st Close
Minutes: 60
Current Reading:
4.5" at 60 min
Max Reading: 6.5"

2nd Open
Minutes: 60
Current Reading:
GTS" at 60 min
Max Reading: GTS"

2nd Close
Minutes: 120
Current Reading:
0" at 120 min
Max Reading: 0"

Inside Recorder





Company: Raydon Exploration, Inc

Lease: Cather #1-6

SEC: 6 TWN: 34S RNG: 7W
 County: HARPER
 State: Kansas
 Drilling Contractor: Duke Drilling Company, Inc - Rig 7
 Elevation: 1364 EGL
 Field Name: Shock
 Pool: WILDCAT
 Job Number: 469
 API #: 15-077-22186

Operation:
 Test Complete

DATE
 February
02
 2021

DST #1 **Formation: Tonkawa** **Test Interval: 3768 - 3780'** **Total Depth: 3780'**
 Time On: 19:32 02/02 Time Off: 05:38 02/03
 Time On Bottom: 21:19 02/02 Time Off Bottom: 01:49 02/03

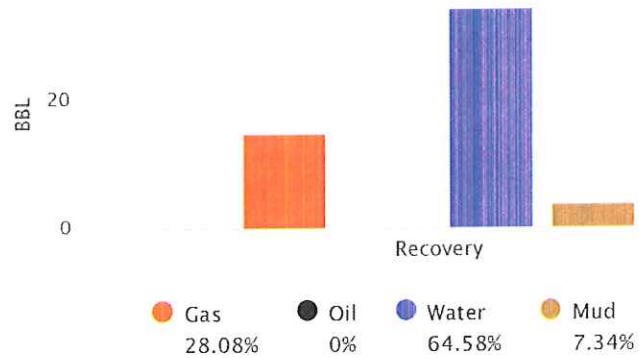
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
1000	14.23	G	100	0	0	0
221	3.14483	SLWCM	0	0	10	90
2520	35.8596	SLGCSLMCW	2	0	95	3

Total Recovered: 3741 ft
 Total Barrels Recovered: 53.23443

Reversed Out
 NO

Initial Hydrostatic Pressure	1774	PSI
Initial Flow	335 to 948	PSI
Initial Closed in Pressure	1437	PSI
Final Flow Pressure	1006 to 1382	PSI
Final Closed in Pressure	1442	PSI
Final Hydrostatic Pressure	1767	PSI
Temperature	125	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 83.92101



Company: Raydon Exploration, Inc

Lease: Cather #1-6

SEC: 6 TWN: 34S RNG: 7W
County: HARPER
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 7
Elevation: 1364 EGL
Field Name: Shock
Pool: WILDCAT
Job Number: 469
API #: 15-077-22186

Operation:
Test Complete

DATE
February
02
2021

DST #1 Formation: Tonkawa Test Interval: 3768 - 3780' Total Depth: 3780'
Time On: 19:32 02/02 Time Off: 05:38 02/03
Time On Bottom: 21:19 02/02 Time Off Bottom: 01:49 02/03

BUCKET MEASUREMENT:

1st Open: 1 in. blow building. BOB in 45 secs.
1st Close: 6 1/2 in. blow back.
2nd Open: 5 1/2 in. blow building. BOB in 1 min.
2nd Close: No blow back.

REMARKS:

Hole was a little sticky as I got about 4 ft. to TD with the Head Joint.
I couldn't smell the gas but it was setting off my gas detector.

Tool Sample: 0% Gas 0% Oil 100% Water 0% Mud

Ph: 7

Measured RW: 2.1 @ 34 degrees °F

RW at Formation Temp: 0.65 @ 125 °F

Chlorides: 125,000 ppm



Company: Raydon Exploration, Inc

Lease: Cather #1-6

SEC: 6 TWN: 34S RNG: 7W
County: HARPER
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 7
Elevation: 1364 EGL
Field Name: Shock
Pool: WILDCAT
Job Number: 469
API #: 15-077-22186

Operation:
Test Complete

DATE
February
02
2021

DST #1 **Formation: Tonkawa** **Test Interval: 3768 - 3780'** **Total Depth: 3780'**
Time On: 19:32 02/02 Time Off: 05:38 02/03
Time On Bottom: 21:19 02/02 Time Off Bottom: 01:49 02/03

Down Hole Makeup

Heads Up: 6.62000000000001 FT	Packer 1: 3763 FT
Drill Pipe: 3741.55 FT <i>ID-3 1/2</i>	Packer 2: 3768 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3751.92 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3770 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: 12	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): 11 FT <i>4 1/2-FH</i>	



**Company: Raydon Exploration,
Inc**

Lease: Cather #1-6

SEC: 6 TWN: 34S RNG: 7W
County: HARPER
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 7
Elevation: 1364 EGL
Field Name: Shock
Pool: WILDCAT
Job Number: 469
API #: 15-077-22186

Operation:
Test Complete

DATE
February
02
2021

DST #1 Formation: Tonkawa Test Interval: 3768 - Total Depth: 3780'
3780'
Time On: 19:32 02/02 Time Off: 05:38 02/03
Time On Bottom: 21:19 02/02 Time Off Bottom: 01:49 02/03

Mud Properties

Mud Type: Chemical **Weight:** 9.1 **Viscosity:** 47 **Filtrate:** .6 **Chlorides:** 9,000 ppm



Company: Raydon Exploration, Inc

Lease: Cather #1-6

SEC: 6 TWN: 34S RNG: 7W
 County: HARPER
 State: Kansas
 Drilling Contractor: Duke Drilling Company, Inc - Rig 7
 Elevation: 1364 EGL
 Field Name: Shock
 Pool: WILDCAT
 Job Number: 469
 API #: 15-077-22186

Operation:
 Test Complete

DATE
 February
02
 2021

DST #1 **Formation: Tonkawa** **Test Interval: 3768 - 3780'** **Total Depth: 3780'**
 Time On: 19:32 02/02 Time Off: 05:38 02/03
 Time On Bottom: 21:19 02/02 Time Off Bottom: 01:49 02/03

Gas Volume Report

Remarks: Gas sample taken 30 mins. into 2nd Opening. GTS in 45 mins.

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D
30	0.125	Too weak to measure	Weak

MCF/D

GEOLOGIST'S REPORT

COMPANY Raydon Exploration, Inc
LEASE Cather NO. 1-6
LOCATION 2265 FSL + 2305 FWL
SEC. 6 **WP.** 345 **RNG.** 7W
COUNTY Harper **STATE** Kansas
FIELD Wildcat

CONTRACTOR Duke Dugdale, Inc #7
COMM. L-28-2021 **COMP.** 2-4-2021
RTD. 4100 **LTD.** 4102

NO. OF DSTS. One **NO. OF CORES** None
SAMPLES SAVED FROM 3100 **TO** TD
DRILLING TIME KEPT FROM 3100 **TO** TD
SAMPLES EXAMINED FROM 3100 **TO** TD
GEOLOGICAL SUPERVISION FROM 3100 **TO** TD
GEOLOGIST ON WELL Edwin H. Galbreath

FORMATION TOPS
Base Heebner 3174 SIBBEA
Tonkawa Zn 3764 2387
Tonkawa Sd 3764 2387
Lansing 4038 2661
TD 4100 0

ELEVATIONS
KE 1377
DF 1376
GL 1376
MEASUREMENTS ARE
ALL FROM KB

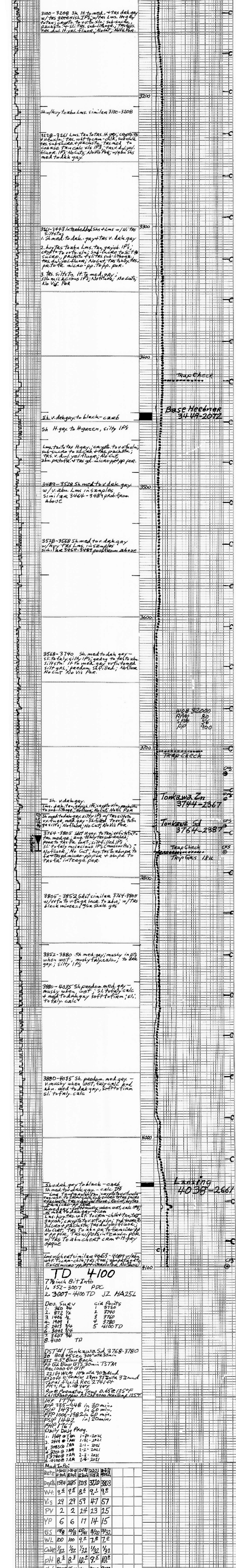
PASINGS RECORDED
858 SI SI SI SI
SI SI SI SI SI
SI SI SI SI SI

DRILLING TIME & SAMPLE LOG
APR 15-07-2021

REMARKS Earth-Tech had a gas detection trailer on this well from 3100 feet to Total depth

Thank you
 Edwin H. Galbreath
 Geologist

LITHOLOGY SANDSTONE, LIMESTONE, SHALE, CHERT, SLTSTONE, DOLOMITE, GRANITE MASS, LANY & GIP
CHROMATOGRAPH HOT WIFE BY TOTAL GAS VOLUME
CI - METHANE, ETHANE, PROPANE, BUTANE, PENTANE, HEXANE, HEPTANE, OCTANE, NONANE, DECANE, UNK.



OPERATOR Raydon Exploration, Inc **LEASE** Cather **NO.** 1-6 **ELEVATION** 1377KB **RTD** 4100 **COMM.** L-28-2021 **COMP.** 2-4-2021 **CONTRACTOR** Duke Dugdale, Inc #7 **FIELD** Wildcat **STATE** Kansas