

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) (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	KREHBIEL 1-21
Doc ID	1620846

All Electric Logs Run

Quad Combo Log
Dual induction Log
Compensated Density/Neutron PE Log
Sonic Log
Micro Log

Lmsts w/interbeds Shales
 1. Lms. trs to abn. wht. to cream-chlk + cream. to tan; crypto. to v. v. fn. xln sub-chlk, sub-sucra. to v. sucra. + pachostn.; dul. lt. yel. to dul yel. fluor. No cut; abn. pr. to tr micro-pp + prob. interbed. por IP's
 2. w/interbeds Shs med to v. dul. gry - sl; to extly. czlc. IP's

3700

Brazelton
3781-863

Sh v. dul. gry to black
 Lms. lt. gry to tan; crypto. to v. v. fn. xln sub-sucra. + pachostn.; Shly. IP's No fluor., cut or vi's por w/trs Sh lt. gry to lt. green, soft + mushy when wet

Toronto
3800-382
Trap Check

3800

Lms. abn. wht. to cream-chlk + cream to tan, grayish. IP's; to trs. lt. gry. crypto. to v. v. fn. xln, sub-chlk, sub-sucra. to trs. sucra. and pachostn.; dul. yel. fluor. IP's; No cut; trs. pr. micro-pp por. IP's w/Prob. interbeds, Shs. med to v. dul. gry. - sl; to extly. czlc. IP's

381

Lansing
3866-948

Lms. abn. to v. abn. wht. to cream-chlk + cream to tan; crypto to v. v. fn. xln; trs phantom oolitic, trs. trs. sub-chlk, sub-sucra. to trs. sucra. + trs. pachostn.; trs. dul. yel. fluor.; No cut; trs. pr. micro-pp por. IP's
 Lms. lt. gry. to tan; crypto to v. v. fn. xln; sub-sucra. + pachostn. + sub-lithogr.; trs. v. dul. lt. yel. fluor.; No cut; No vi's por

3800

Lansing 1112

Lms. v. to extly. abn. wht. to cream-chlk + tan; grayish IP's; crypto to v. v. fn. xln; sub-chlk, sub-sucra. to sucra. + trs pachostn.; dul. lt. yel. fluor. IP's; No cut; trs to abn. pr. to trs. tr micro-pp + prob. interbed. por. IP's

Lms. tan, grayish. IP's; to hvy trs lt. gry; crypto. to v. v. fn. xln. j.,

v. v. fluor. sub-chlk, sub-sucro. to
sucro. + tes pectstn; dul. H.
yel. fluor. IP's; No cut; tes to abn
por. to tes. to microp. IP + prob
interx. l. por. IP's

Lms. tan, grayish. IP's; to kv. tes
H. gray; crypto. to v. v. fa. xln. j
sub-sucro. + pectstn; dul. H.
to H. yel. fluor. IP's; No cut;
Novis. Por.; w/interbeds Shs
med. to v. dark gray - sli. to
extaly. calc. IP's; + TRS Chert
gray to tan

Lms. w/interbeds Shs
1. Lms. H. gray to tan; crypto. to v. v. fa. xln. j
sub-sucro. + pectstn + sub-lithogr.; dul.
yel. fluor. IP's; No cut; Novis. Por.
2. Sh. med. to v. dark gray calc. IP's to
v. dark gray to black
Lms. H. gray to tan; crypto. to v. v. fa. xln. j
sub-sucro. + pectstn. + sub-lithogr.
tes. dul. H. yel. fluor.; No cut; Novis. Por.

Sh v. dark gray to black
Interbedded Lmsts + Shales
① Lms. H. tan, grayish. IP's; crypto. to
v. v. fa. xln. j tes. sub-sucro. + pectstn
+ sub-lithogr.; dul. H. yel. fluor. IP's
No cut; Novis. Por.
② Sh. med. to v. dark gray - calc. IP's
Lms. tan; crypto. to v. v. fa. xln. j; very
to extaly. oolitic. sli. to very
oolitic. IP's; matrix sub-sucro. +
pectstn. j dul. yel. to yel. fluor. j
No cut; abn. gd. to excel oolitic
Por. j v. Quest. Perm

Lms. H. gray - crypto. xln. j pectstn
to sub-lithogr. + abn. wht. to cream
chlk + cream to tan; crypto. to v. v. fa.
xln. j sub-chlk, sub-sucro. and
pectstn; dul. yel. to yel. fluor.;
No cut; Novis. Por.

Lms. H. to med. gray, crypto. xln. j
sli. to v. shly; pectstn + sub-lithogr.
No fluor.; No cut; Novis. Por.
Sh. v. dark gray to black

Lms. H. gray to tan; crypto. to
v. v. fa. xln. j; tes. sub-chlk,
sub-sucro., pectstn + tes.
sub-lithogr. j hvy. tes. oolitic
(tan + H. to med. gray); dul. H.
to H. yel. fluor. IP's; No cut
Novis. Por.; sli. ties. Chert wht.
to gray; j opaque

4000

GR

4000

4100

Trap Check

Blk Sh 100

Kansas City Fm
4749-123

Lms. Lt. to med. gray, crypto. xln,
sli. to v. shly, pachstn, sub-lithogr
No fluor; No cut; No vis por
= Sh. v. drk. gray to black

OK Sh 104

Lms. Lt. gray to tan; crypto. to
v.v. xln; tan sub-chlk,
sub-sucroa, pachstn + trs,
sub-lithogr; hyp. trs oolitic
(tan + lt. to med. gray); dul. lt.
to lt. yel. fluor. IP's; No cut
No vis. por; sli. trs. chert wht.
to gray; opaque

Kansas City, Mo
4749-1959

= Sh. v. drk. gray to blk carb

OK Sh 154

Lms. Lt. gray to tan; crypto. to v.v. xln
sub-sucroa, pachstn, trs
sub-lithogr; dul. lt. to sli. trs
lt. yel. fluor. IP's; No cut;
No vis por; w/ sli. trs chert
lt. to med. gray, opaque; abu
sh. cavings in samples

4200

4211

Lms. tan, grayish. IP's, crypto. to
v.v. xln; sli. to extaly. oolitic
+ / or sli. to extaly. oolitic; matrix
sub-sucroa, pachstn and trs
sub-lithogr; dul. yel. fluor. IP's;
No cut; abu. por. fr. to excel
olitic por.; V. Quest. Perm.

Trap Check

Lms. Lt. gray to tan; crypto. to v.v. xln
xln; sub-sucroa, pachstn and
sub-lithogr; trs. dul. lt. yel.
fluor; No cut; No vis por.

sh med to v. drk gray, sli. to
extaly. calc. IP's grading
to shly lms and v. drk.
gray to black

Mazonia
4299-1981

Lms. abu. wht. to can-chlk + can
to tan, grayish. IP's; sub-chlk,
sub-sucroa, pachstn
sub-lithogr; trs sli. to extaly.
oolitic; dul. yel. to tan yel. fluor;
No cut; No vis por.

4300

= Sh. v. drk. gray to black carb

OK Sh 94

Lms. Lt. to med. gray; crypto. to tan
v.v. xln; trs sub-sucroa, pachstn
to trs sub-lithogr; No fluor
No cut; No vis por.

Lms. similar 4325-4339 w/ v. abu
Lms. Lt. gray to tan, crypto. xln;
pachstn to sub-lithogr; dul.
yel. fluor. IP's; No cut; No vis por
w/ trs. Chert lt. to med. gray, opaque

= Sh. v. drk. gray to black

Prunee
4367-1999

Lms. Similar 4339-4364 w/ 1
inch. in chert to abu
4381-4386 Lms. tan, wht. to can-
chlk + tan; crypto. to v.v. xln;
oolitic - crypto. xln; matrix
sub-sucroa to narrow; trs sub-lithogr
sub-lithogr; dul. yel. fluor. w/ milky to tan kng cuts
matrix + trs oolitic - opaque; in calc.
xln clusters + por. in matrix
por. + por. in matrix
4386-4395 Lms. similar

4400

No Apparent Gas

Trap Check

4403-1990

DS 111
500

matrix sub-sucro; dist. yet. thin IP's
No cut; No Vis. Por. - spacer lms ben
from oil str; Reuzel solid to lms;
matrix sub-sucro; sub-litho;
v. dol. gl. yel. fluor. w/ht to
excl. stannous; trs. pa
micro - pp. pb. w/ pap.
interlu por. IP's v. distinct

5100 1700
4629 4723

4629-4723 Lms. trs. whit to crm.
chk + tan, grayish tan to grays;
crypto. to v. fine; sub-chk;
trs. sub-sucro, patchy to
sub-litho; trs. to huy trs. li
to faly. oolitic (symtomak) scattered
trs. dub. H. yel. fluor.; No cut;
No Vis. Por. w/ trs. to huy trs.
Chert grays to tan, opaque;
w/ pos. scattered trs. interbeds
shs med. to v. dk. gr. - sli + o
extrly. calc. IP's

4700

4723-4775 Lmsts., chert
similar 4629-4723
w/ extr. zbn. Shs. H. med. dk
to v. dk. grays + trs. greens;
w/ trs. to huy trs. Qtz sst. H. to med
gray; v. v. fine to fine + trs. med. gr. grs.
zbn. to sub-zbn.; all dense;
tite + hard; poor to gd. sorting;
No cut; No fluor.; No Vis Por.

Lms. med to dk. gray - v. to extrly
shly. gading to calc. shs.; crypto
xln.; sub-chk to v. shly. patchy
No fluor.; No cut; No Vis Por

4800

4807-4891 Qtz sst. H. gray to crm.
fat med. gr., zbn. to sub-zbn.
por. to fr. + trs. gd. sorting; No fluor.
No cut; huy. trs. pa. to faintly por.
w/ huy trs. siltstns blue green when
wet - tanish gray when dry; v. fine
silt dense; tite + hard w/ huy
trs. Shs. blue green; firm to v. soft
+ mushy when wet
Lms. tan to lt. gray; crypto. to v. med
majority extrly. oolitic (micro-symtomak)
sub-sucro. to patchy and patchy
+ sub-litho w/ thopolites. trs. dub.
yel. fluor.; No cut; No Vis Por w/ trs.
siltstns + shs similar

Trap Check

4849-4866 Sh. med. to dk. gray - st. to
extrly. calc. gading to shly. Lms.
zbn. Lms. + trs. siltstns + shs
similar 4831-4860

4866-4914 Lms. trs. to huy trs. whit
to crm. chk + tan, grayish, IP's
sli. to fully dolomitic IP's; zbn.
extrly. oolitic (micro to sm) w/
zbn. Qtz gas, v. v. fine to fine;
matrix sub-sucro; w/ patchy

7 7/8 In. Bit In. in out
 1 Smith PLS 516-PQC 1810 3381
 2 Smith FH124 Button Bit 3381
 Dev. Suez. Cir Points
 1. 819 1/2° 1 4345
 2. 1810 1/2° 2 4390
 3. 2349 1/4° 3 4576
 4. 2850 1/4° 4 4590
 5. 3381 1/2° 5 4610
 6. 3990 1/4° 6 4630
 7. 5100 8 4650

9 4720
 10 4820
 11 5100 TO

Daily Drilg Progress:

1 3060 7AM 2-7-22
 2 3549 7AM 2-8-22
 3 4126 7AM 2-9-22
 4 4390 7AM 2-10-22
 5 4543 7AM 2-11-22
 6 4720 7AM 2-12-22
 7 5003 7AM 2-13-22
 8 5100 7AM 2-14-22

DST #1 Pawnee 4378-4390
 10 weak surf. blow built to 1 inch
 FOW weak surf. blow built to 1/2 inch
 Rec 20ft. 100% Mud Max Temp. 112°F
 1HP 7-14-1#
 1FP 7-21-1# in 30 min.
 1SIP 1143# in 60 min.
 FFP 22-28# in 60 min.
 FSIP 1131# in 90 min.
 FHP 2123#

Mud Info:

Date	2-8	2-9	2-10	2-11	2-12	2-13
Depth	3565	4156	4390	4565	4749	5017
WT.	9.1	9.2	9.1	9.3	8.9	9.2
Vis	35	45	56	64	48	65
PV	13	16	16	24	16	24
YP	11	14	15	16	14	15
GS	7/14	13/21	13/24	19/29	13/21	14/24
WL	10.0	7.0	7.0	6.0	6.5	6.0
Cake	1/32	1/32	1/32	1/32	1/32	1/32
pH	10.5	10.5	10.5	10.5	10.5	10.5
Chl	6000	4000	4000	5000	4000	4000
C2	120	120	120	120	120	100
LCM	2.0	2.0	4.0	4.0	4.0	4.0

OPERATOR Raydon Exploration, Inc. LOCATION 1980' FSL + 660' FEL
 LEASE Krehbiel NO. 1-21 SEC. 21S TWP. 33N RNO. _____
 ELEVATION 2918 KB RTD 5100 COUNTY Finney STATE Kansas



DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration, Inc.**

1601 NW Expressway Ste 1300
Oklahoma City, Ok 73118

ATTN: Ed Grieves

Krehbiel #1-21

21-21s-35w Finney,KS

Start Date: 2022.02.10 @ 05:18:00

End Date: 2022.02.10 @ 17:23:30

Job Ticket #: 68058 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.02.15 @ 15:51:41



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Raydon Exploration, Inc.

21-21s-35w Finney, KS

1601 NW Expressway Ste 1300
Oklahoma City, Ok 73118

Krehbiel #1-21

Job Ticket: 68058

DST#: 1

ATTN: Ed Grieves

Test Start: 2022.02.10 @ 05:18:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:02:45

Time Test Ended: 17:23:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 4378.00 ft (KB) To 4390.00 ft (KB) (TVD)

Reference Elevations: 2918.00 ft (KB)

Total Depth: 4390.00 ft (KB) (TVD)

2909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8874 Outside

Press@RunDepth: 28.33 psig @ 4379.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.02.10

End Date: 2022.02.10

Last Calib.: 2022.02.10

Start Time: 05:18:05

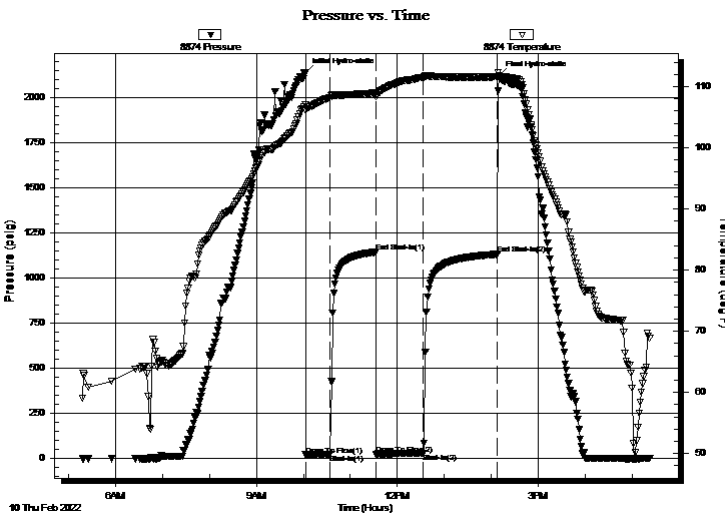
End Time: 17:23:30

Time On Btm: 2022.02.10 @ 10:02:30

Time Off Btm: 2022.02.10 @ 14:09:45

TEST COMMENT: 30- IF: 1" blow.
60- IS: No return.
60- FF 1 1/2" blow.
90- FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2141.09	107.05	Initial Hydro-static
1	17.98	106.06	Open To Flow (1)
32	21.59	108.20	Shut-In(1)
90	1143.66	108.95	End Shut-In(1)
91	22.46	108.40	Open To Flow (2)
151	28.33	111.51	Shut-In(2)
246	1131.90	111.59	End Shut-In(2)
248	2123.40	111.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100m	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration, Inc.

21-21s-35w Finney,KS

1601 NW Expressway Ste 1300
OKlahoma City, Ok 73118

Krehbiel #1-21

Job Ticket: 68058

DST#: 1

ATTN: Ed Grieves

Test Start: 2022.02.10 @ 05:18:00

Tool Information

Drill Pipe:	Length: 4371.00 ft	Diameter: 3.80 inches	Volume: 61.31 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4378.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4349.00	
Shut In Tool	5.00			4354.00	
Hydraulic tool	5.00			4359.00	
EM tool	3.00			4362.00	
Jars	5.00			4367.00	
Safety Joint	2.00			4369.00	
Packer	5.00			4374.00	30.00 Bottom Of Top Packer
Packer	4.00			4378.00	
Stubb	1.00			4379.00	
Recorder	0.00	8319	Inside	4379.00	
Recorder	0.00	8874	Outside	4379.00	
Perforations	8.00			4387.00	
Bullnose	3.00			4390.00	12.00 Bottom Packers & Anchor

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raydon Exploration, Inc.

21-21s-35w Finney,KS

1601 NW Expressway Ste 1300
OKlahoma City, Ok 73118

Krehbiel #1-21

Job Ticket: 68058

DST#: 1

ATTN: Ed Grieves

Test Start: 2022.02.10 @ 05:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	mud 100m	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

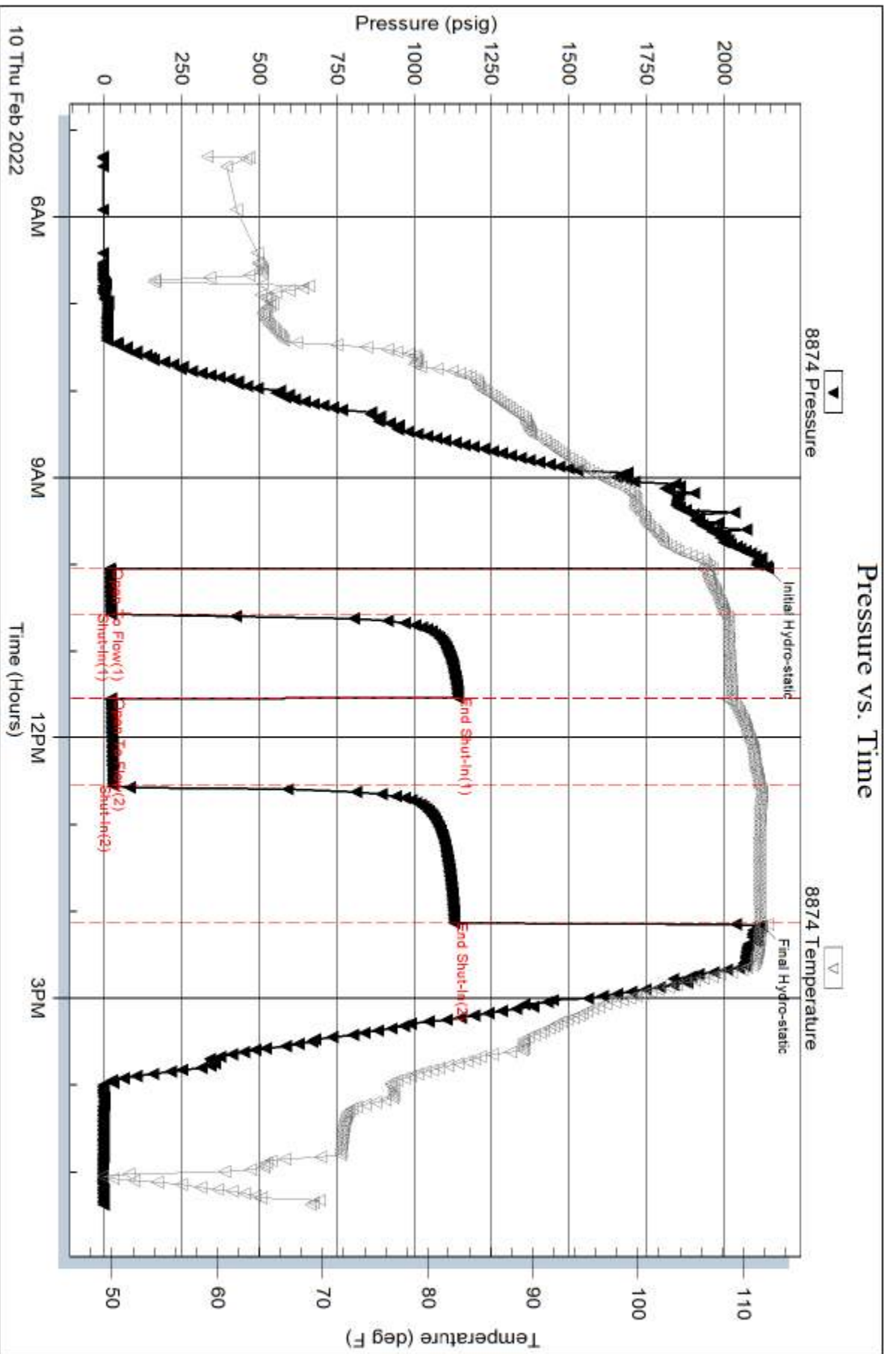
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



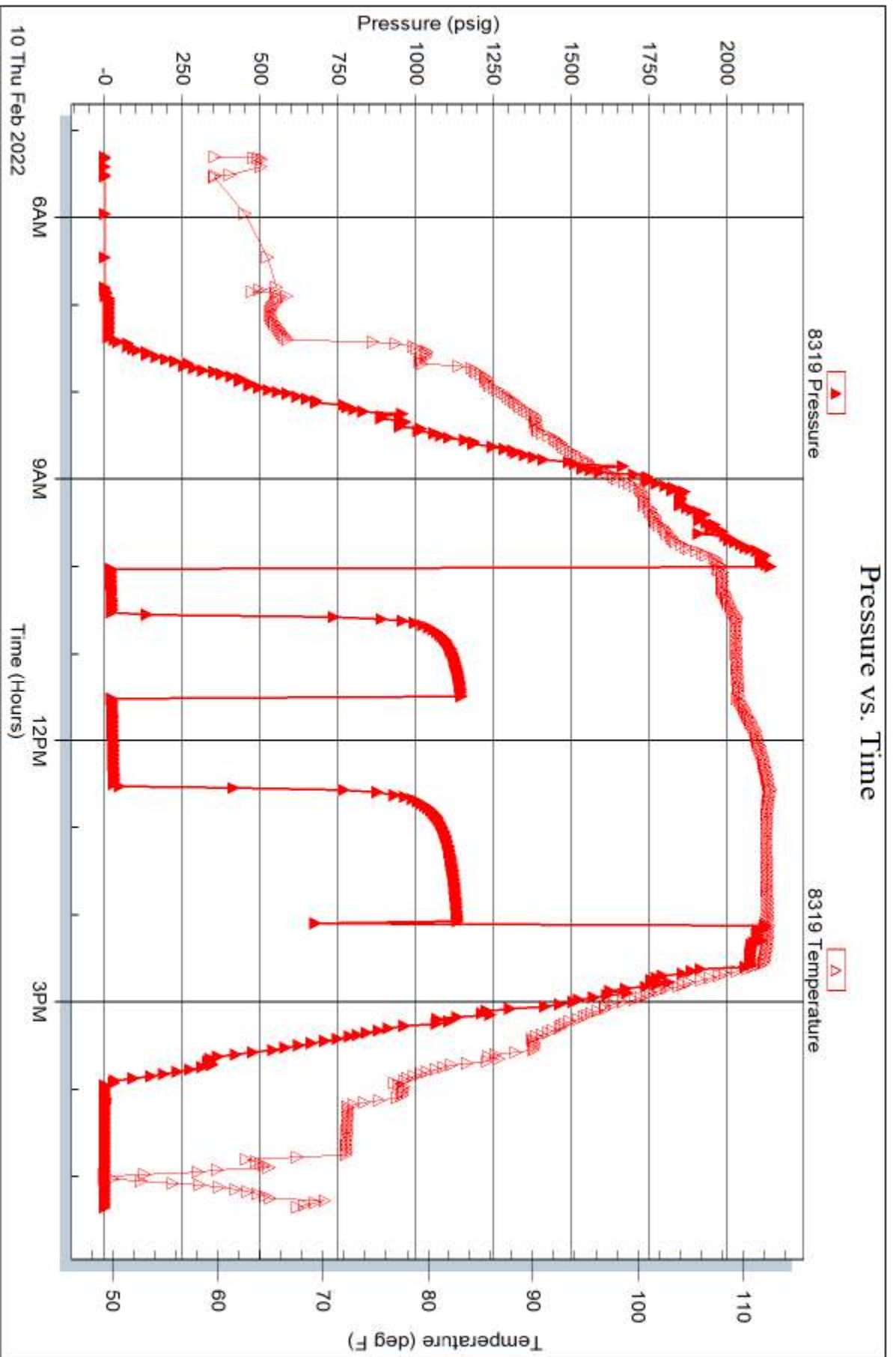
Serial #: 8319

Inside

Raydon Exploration, Inc.

Krehbiel #1-21

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68058

Printed: 2022.02.15 @ 15:51:42



QUASAR ENERGY SERVICES, INC.

3288 FM 51
 Gainesville, Texas 76240
 Office: 940-612-3336
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Form 185-2c

2/4/22
 CEMENTING JOB LOG

CEMENTING JOB LOG

Company: Raydon Exploration, Inc.				Well Name: Krehbiel #1-21			
Type Job: Cement- Surface				AFE #:			
CASING DATA							
Size: 8 5/8		Grade:		Weight: 24			
Casing Depths Top:		Bottom: 1810					
Drill Pipe: Size:		Weight:		Packer:			
Open Hole: Size: 12 1/4		T.D. (ft):		Perfs.:			
CEMENT DATA							
Spacer Type:							
Amt.	Sks Yield	0	ft³/sk	Density (PPG)			
LEAD: Class A: 2% Gyp., 2% SMS., 2% Calcium Chloride, 1/4# Celloflake, .2% C-51						Excess	
Amt. 450	Sks Yield	1314	ft³/sk	2.92	Density (PPG)	11.43	
TAIL: Class A: 2% Calcium Chloride, 2% Gel, 1/4# Celloflake						Excess	
Amt. 150	Sks Yield	205.5	ft³/sk	1.37	Density (PPG)	14.81	
WATER:							
Lead: 450	gals/sk: 18	Tail: 150	gals/sk: 6.5	Total (bbls):		216.1	
Pump Trucks Used:				04, DP03			
Bulk Equipment:				230, 660-24 / 228, 660-20			
Disp. Fluid Type: Water (Supplied)		Amt. (Bbls.): 112.6		Weight (PPG):		8.33	
COMPANY REPRESENTATIVE: Harvey				CEMENTER: Daniel Beck			
TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS	
AM/PM	Casing	Tubing	ANNULUS	TOTAL	RATE		
17:45						ON LOCATION & SAFETY MEETING	
21:25						CIRCULATE	
23:25	400			234slurry	6.5	PUMP 450SX LEAD @ 11.4#	
0:22	450			36.5slurry	5.5	PUMP 150SX TAIL @ 14.8#	
						SHUTDOWN / DROP PLUG	
0:38	250			10	6.0	DISPLACE / CEMENT TO SURFACE	
	250			20	4.8		
	250			30	4.2		
	250			40	4.2		
	250			50	4.2		
	350			60	4.7		
	390			70	4.7		
	430			80	4.7		
	490			90	4.6		
	530			100	4.5		
	550			102	4.4	SLOW RATE TO 2.1BPM @ 500PSI	
	550			110	2.1		
1:08	550			112.6	1.8	LAND PLUG / PRESSURE UP TO 1000PSI	
1:10						RELEASE BACK --- FLOAT HELD	
						JOB COMPLETE	
Company: Raydon Exploration, Inc.				Well Name: Krehbiel #1-21			
Type Job: Cement- Surface				AFE #:			
Date: 2/4/2022		CEMENTING JOB LOG		QUASAR ENERGY SERVICES, INC. 185-2			