

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	STUDE 1-6
Doc ID	1690530

All Electric Logs Run

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



QUASAR ENERGY SERVICES, INC.

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

Form 185-2N.2

1/23/23

CEMENTING JOB LOG

CEMENTING JOB LOG

Company: RAYDON EXPLORATION INC.		Well Name: STUDE 1-6	
Type Job: PLUG/PTA		AFE #: 0	
CASING DATA			
Size:	8 5/8	Grade:	J55
		Weight:	24
Casing Depths	Top: 0	Bottom: 0	
Drill Pipe:	Size: 4 1/2	Weight: 16	
Tubing:	Size: 0	Weight: 0	Grade: 0
			TD (ft): 4950
Open Hole:	Size: 7 7/8	T.D. (ft): 4950	
Perforations	From (ft): 0	To: 0	Packer Depth(ft): 0
CEMENT DATA			
Spacer Type:			
Amt.	Sks Yield	ft³/sk	Density (PPG)
LEAD:			Excess
Amt.	Sks Yield	ft³/sk	Density (PPG)
TAIL:	CLASS A 60/40/4		Excess
Amt. 210	Sks Yield 1.5	ft³/sk	Density (PPG) 13.51
WATER:			
Lead:	gals/sk:	Tail:	gals/sk:
			Total (bbls):
Pump Trucks Used:			
Bulk Equipment:			
Disp. Fluid Type:		Amt. (Bbls.):	Weight (PPG):
Mud Type:			Weight (PPG):
COMPANY REPRESENTATIVE:		CEMENTER: CHAD HINZ	

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS	
	AM/PM	Casing	Tubing	ANNULUS	TOTAL		RATE
1330						ON LOC, SAFTEY MTG, R.U.	
1732			200			4	H2O SPACER
1735			210		10	4.5	START MIXING 50 SX @ 1860'
1742			0		13.4	4.5	START DISPLACEMENT
1745			80		3	6	ON MUD
1747					19		SHUT DOWN, TOO
1823			120			4	H2O SPACER
1827			130		10	4.5	START MIXING 50SX @ 1050'
1832			0		13.35	4.5	START DISPLACEMENT
1836					10.5		SHUT DOWN, TOO
1900			80			4	H2O SPACER
1904			90		10	4.5	START MIXING 40SX @510'
1909					10.6	4.5	START DISPLACEMENT
1911					4.5		SHUT DOWN, TOO
1933					5	2	PLUG @ 60' 20SX
1944							PLUG R & M
2000							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!

Interbedded Lms + scattered thin Sh
Lms. frs to hv. trs. w/ to cam-chalk
Hfract tan; crypto. to vfn. vln. Chk;
sub-chk, sub-sucro to sucro plectn.
sherton oolitic oolitic IP's; dul. H
yel. fluor. No cut; abn. micro-pp and
prob. interxln. por.

② Lms. H to med. gray. - silt. f. y. Shly
crypto. to v. v. fn. silt. sub-chk. f. a. sily
+ plectn. trs. dul. H. yel. fluor.,
No cut. No vis. por.
③ scattered thin Shs med to deli
gray - silt. to calc. IP's

Lms. abn. w/lt to cam-chk. lct-crim. to
tan, grayish IP's; crypto. to v. v. fn.
sub-chk, sub-sucro to u. sucro. IP's;
silt. to v. micro. to sm. oolitic IP's
dul. H. yel. fluor. IP's; No cut;
abn. por. f. a. to gd. oolitic and
interxln. por.

Lms. grayish tan to tan; crypto. to v. v. fn.
silt. sub-sucro + aach. f. dul. yel
fluor. 1 plectn. No vis. por. w/ trs
black - carb looking Shs

Interbedded Lms.

① Lms. abn. to v. abn. w/lt to cam-chk. of
grayish. tan to tan; crypto. to v. v. fn.
sub-chk, sub-sucro to u. sucro. IP's
+ plectn. trs. oolitic f. a. sily
IP's; silt. to v. oolitic trs
dul. yel. fluor. IP's; No cut
trs. fr. to plectn. trs. and
abn. plectn. trs. PP, micro-pp and
interxln. por.

② Lms. grayish. tan to tan; crypto. to
v. v. fn. silt. sub-sucro + plectn. trs;
dul. yel. fluor.; No cut; No vis. por.

Sh. v. drab gray to blk-carb.

Sh. H. gray to green silt. IP's; very
soft + mushy when wet

Lms. y. abn. w/lt. to cream. = blk v. cream.
to H. tan grayish IP's; crypto. to v. v. fn.
silt. sub-chk, sub-sucro to v. sucro.
+ plectn. trs. dul. H. yel. fluor. + fluo.
IP's; No cut; abn. por. fr. to gd. micro-pp

3800

3700

Base Headmark
3838-9711

Forran's
3857-988

Sh. v. dk grey to black carb.
Lms. similar 4081-4092 4100

Lms. v. dbn. wkt. to cam. silk & ren. to
trans. crypto. to v. fu. xln; sub-clk sub-succa
to hy. fns. succro + packstn. i. dul. yel.
fluor. 1P5; No cast; 3bn. p. a. micro-pp
part. post. in f. cast. in. p. a. 1P5 w/ 1P5.
shert. lt. grey. 1 opaque

Sh. v. dk grey to black carb

Interbedded Lms. w/ scattered thin ShS
① Lms. H. grey to tan; crypto. to v. fu. xln.
sub-succro. packstn. fns. sub-fns. 1P5; No
cast. H. yel. fluor. 1P5; No cast; No 1P5 p. a.

Lms. med. to dk. grey - Sh. j. crypto.
xln; j. packstn; No fluor. No cast; No 1P5 p. a.
② Sh. med. to v. dk. grey - sl. to very
calc. 1P5

Lms. v. zbn. wkt. to cam. silk & ren. to tan
crypto. to w. fu. xln. v. to ext. hy. oolitic
of v. to ext. hy. oolitic. m. str. r. cl. k.
sub-clk; j. sub-succro + packstn; sl. m.
lt. yel. fluor. No cast; sl. m. p. a. to gd
oolitic. p. a.; Quest. Fern.

Lms. H. grey to grey. tan; crypto. to
v. fu. xln; j. sub-succro; packstn. to
sub-lithogr. j. phant. oolitic 1P5;
dul. lt. yel. fluor. 1P5; No cast; No 1P5 p. a.

Sh. v. dk grey to black carb.

Lms. similar 4199-4222

Kans. 4199-4222

Lms. similar 4199-4222 w/
incr. in sub-lithogr.

Sh. v. dk grey to black carb.

Lms. w/ scattered thin ShS
① Lms. H. grey to tan; crypto. to v. fu. xln.
xln; j. sub-succro; packstn. sub-lithogr.
trans. phant. oolitic to trans. oolitic. p. a.
dul. lt. yel. fluor. 1P5; No cast; No 1P5 p. a.

Lms. lt. to med. grey - sl. j. crypto.
xln; j. sub-clk. j. on Sh. j. packstn;
No fluor. No cast; No 1P5 p. a.

② scattered thin ShS. med. to v. dk
grey - calc. 1P5 to v. dk grey to
black carb.

4385-4383 Interbedded lms.

① Lms. tan; crypto. to v. fu. xln; v. to
ext. hy. oolitic w/ fns. sl. to v. oolitic
mostly sub-clk; j. sub-succro + packstn; dul.
yel. fluor. 1P5; No cast; fns. p. a. to v. fu. xln.
oolitic. p. a.; No 1P5 p. a. to v. fu. xln.
② Lms. tan; crypto. to v. fu. xln; v. to
ext. hy. oolitic w/ fns. sl. to v. oolitic
mostly sub-clk; j. sub-succro + packstn; dul.
yel. fluor. 1P5; No cast; fns. p. a. to v. fu. xln.
oolitic. p. a.; No 1P5 p. a. to v. fu. xln.

4383-4379 Sh. med. to v. dk. grey -
sl. to ext. hy. calc. grading to sl. v.
Lms. to

Kans. 4379-4383

4600

TRAP ROCK Q25K

interbedded limestone mainly 506-4651
w/ scattered fresh gray w/ tan to brown
striae, conch to v. fine v. fine sub-surface
fracture; silty. 71 dm. yellow fluor. w/ strong
quartz. Quartz pebbles in coarse pp. pore
interbedded with sands + silts.

1. Qtz. silt tan to brown. From oil stn.
gray. 1P5 v. fine. gray and pebbles
sort clay + silt filled. 1P5. trace w/
fine disintegrated pyrite. 1P5. 191 dm. to
yellow fluor. and strong cat's.
a by. pe to fine trace micro-pp. partly
+ silty. pe to good trace coarse. 1P5. 191 dm. to
pp. (1P5) med. gray w/ silty luster +
fine gray, trace pyrite

lms. buff. res. w/ht. to cream. chalk w/
chalk oolites + thin v. fine. gr. Qtz. 995,
Zug. in top of zone + it falls to
tan, gray. 1P5, conch to v. fine. xln's
micro to fine sm. dolitic w/
v. fine gray Qtz. silt, aug. in matrix
Chlk. sub-chlk. sub-succ. to succ.
dul. Hyal. Fluor. 1P5, No cat. No silts for

4700

SUGAR SAND 1P5
4703-4834

Lms. similar 4703-4755 (992)
w/ TRS. Lms. gray tan to tan. 3 pieces w/
brn. oil stn. v. coarse dolitic (sm. med. to b.)
matrix sub-chlk. sub-succ. to succ. 1P5.
w/ 2 pieces having succ. and silty. 1P5. 191 dm. to
fluid strong cat's. 1P5. pieces w/ silty v. fine
micro-pp. + it falls in pp. 1P5. 191 dm. to
chert gray opaque

TRAP ROCK
4705-4993

Lms. gray to tan, crypto. tan v. fine xln's,
ext. r. y. oolitic (sm. med. to b.) in matrix
sub-chlk. sub-succ. to succ. 1P5. 191 dm. to
from 4707-4994 had sp. of brn. dolitic
w/ glauy ol. fluor. w/ good strong cat's. w/
pe to good micro-pp. 1P5. Quartz pebbles
the rest zone disintegrated pyrite
1P5. v. dul. yellow. Fluor. No cat. No silts
for. w/ silts chert gray opaque

4800

TRAP ROCK
4805

Lms. gray to tan, crypto. tan v. fine xln's
to ext. r. y. oolitic (sm. med. to b.) in matrix
sub-chlk. sub-succ. to succ. 1P5. 191 dm. to
No oolites, crypto. thin packets. No trace w/ht. to
clean calc. xln's. 1P5. 191 dm. to
1P5. No cat. No silts for

4900

TRAP ROCK
4905

Lms. res. w/ht. chlk. + gray to tan, crypto.
to v. fine xln's. 2/3 No dolite, crypto.
thin packets. 1/3 v. to ext. r. y. oolitic,
sm. med. trace for matrix. No silts

5000

TRAP ROCK
5005

Lms. gray to tan; crypto. tan w/ white
 to extra oil; (5m pale olive) on 1/2
 sub-chk; sub-succo to p. ch. 1/3 w/
 No oil; crypto. tan; p. ch. 1/3 w/
 clear scale. No V. d. w/ 1/2 oil; 1/2
 1P; No cut; No V. d. w/ 1/2 oil

Lms. tres. w/ chalk & gray to tan; crypto.
 to v. v. fu. xlm; 2/3 No dolite; crypto
 xlm. p. ch. 1/3; 1/3 v. to extra oil; 1/2
 (sm. med. tres) (sm. med. tres) (sm. med. tres)
 sub-succo & p. ch. 1/3; 1/3 v. to extra oil; 1/2
 1P; No cut; No V. d. w/ 1/2 oil; 1/2
 w/ hu. tres. chert w/lt, H. gray to tan;
 Opque

Lms. Doloto dolo Lms. H. gray to
 H. tan; v. v. fu. xlm; v. succo; tres. d. w/ 1/2
 1P; No cut; tres. p. ch. 1/3; 1/3 v. to extra oil; 1/2
 Lms. Similane 4657-4889 w/ even less
 Sample w/ dolites 4900

~~Prob. Lms. Doloto Dolo Lms. Similane 4989-4992~~

Lms. H. tan to tan; grayish. 1P; crypto
 to w. fu. xlm; sub-chk; sub-succo;
 p. ch. 1/3; 1/3 v. to extra oil; 1/2
 hu. tres. w/ dolite; tres. (sm. med. tres)
 tres. v. d. w/ 1/2 oil; 1/2 v. to extra oil; 1/2
 No V. d. w/ 1/2 oil; 1/2 v. to extra oil; 1/2
 tan; opque

7/8 inch Bit-Tool:
 PDC 1820 to 3509
 Rod Bit 8D52C 3509 to 4950 TD

Dev. Surveys:
 1. 519 3/4 5. 2818 3/4
 2. 1022 3/4 6. 3509 1/2
 3. 1021 1 7. 4485 1/2
 4. 2315 3/4 8. 4900 TD

Cir Points
 1. 4480 6. 4720
 2. 4500 7. 4750
 3. 4660 8. 4785
 4. 4680 9. 4800
 5. 4698 10. 4950 TD

Daily Drilg Progress:
 1-13-23 3509 At 7:00 AM
 1-14-23 4002 At 7:00 AM
 1-15-23 4466 At 7:00 AM
 1-16-23 4517 At 7:00 AM
 1-17-23 4698 At 7:00 AM
 1-18-23 4793 At 7:00 AM
 1-19-23 4950 At 7:00 AM TD

DST#1 Pawnee 4454-4480
 To Blow Bit- to pipe died back to work succ
 blow

FO No Blow
 Rec 5 ft Mud w/ tres oil BHT 1110F
 14P 2494#
 15P 17-20# in 30 min
 16P 794# in 60 min
 17P 21-22# in 30 min
 18P 621# in 12 min
 19P 218#

DST#2 MORROW 4638-4698
 To 1/2" Blow at open died back to work at sea off
 Blow

4. 2315 7/4 8.4900 TD

Cir Points
 1. 4480 6. 4720
 2. 4500 7. 4750
 3. 4660 8. 4785
 4. 4680 9. 4800
 5. 4698 10. 4950 TD

Daily Drilg Progress:
 1-13-23 3509 At 7:00 AM
 1-14-23 4002 At 7:00 AM
 1-15-23 4466 At 7:00 AM
 1-16-23 4517 At 7:00 AM
 1-17-23 4698 At 7:00 AM
 1-18-23 4799 At 7:00 AM
 1-19-23 4950 At 7:00 AM TD

DST#1 Paunee 4454-4480
 To Blow out to 4 1/2" die back to well seat
 blow
 No Blow
 Rec 5 ft Mud w/ tracers oil BHT 1119F
 IAP 2494# in 30 min
 IEP 17-20# in 60 min
 ISIP 794# in 30 min
 FSP 21-21# in 120 min
 FHP 621#
 FHP 2183#

DST#2 MORROW 4638-4698
 To 4 1/2" Blow at open die back to well seat.
 blow
 No Blow
 Rec 8" Mud w/ tracers oil BHT 1139F
 IH 2253# in 30 min
 IEP 19-21# in 60 min
 ISIP 256# in 30 min
 FSP 22-23# in 30 min
 FSP 935# in 120 min
 FHP 2246#

Mud Type	1-14-23	1-15-23	1-16-23	1-17-23	1-18-23
Date	1-14-23	1-15-23	1-16-23	1-17-23	1-18-23
Depth	3511	4007	4519	4698	4812
WT	8.2	9.1	9.2	9.1	9.3
Vis	41	49	59	64	74
PV	17	19	23	22	31
YP	11	13	17	18	19
GS	4/10	7/15	9/18	9/18	9/20
WL	10.2	9.2	8.4	8.2	7.4
cake	1/31	2/32	1/32	1/32	1/32
PH	11.2	11.2	11.2	11.2	10.5
Chl	3560	5600	5000	5000	1505
Ca	120	60	60	60	60
LCM	1.2	4.2	4.2	4.2	2.2

OPERATOR Raydon Exploration, Inc. LOCATION 990' ENL + 1780' ENL
 LEASE Stade NO. 1-6 SEC 6 TWP. 23S ANG. 32W
 ELEVATION 2864 KB RTD 4950 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

Stude #1-6

6-23s-32w Finney,KS

Start Date: 2023.01.15 @ 15:33:00

End Date: 2023.01.15 @ 23:28:21

Job Ticket #: 68846 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2023.01.19 @ 12:06:45



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Raydon Exploration Inc
1601 NW Expressway
STE 1300
Oklahoma City, OK 73118
ATTN: Ed Grieves

6-23s-32w Finney,KS

Stude #1-6

Job Ticket: 68846

DST#: 1

Test Start: 2023.01.15 @ 15:33:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:31:51

Time Test Ended: 23:28:21

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 73

Interval: 4454.00 ft (KB) To 4480.00 ft (KB) (TVD)

Reference Elevations: 2864.00 ft (KB)

Total Depth: 4480.00 ft (KB) (TVD)

2852.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6771 Inside

Press@RunDepth: 21.41 psig @ 4455.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.01.15 End Date: 2023.01.15

Last Calib.: 2023.01.15

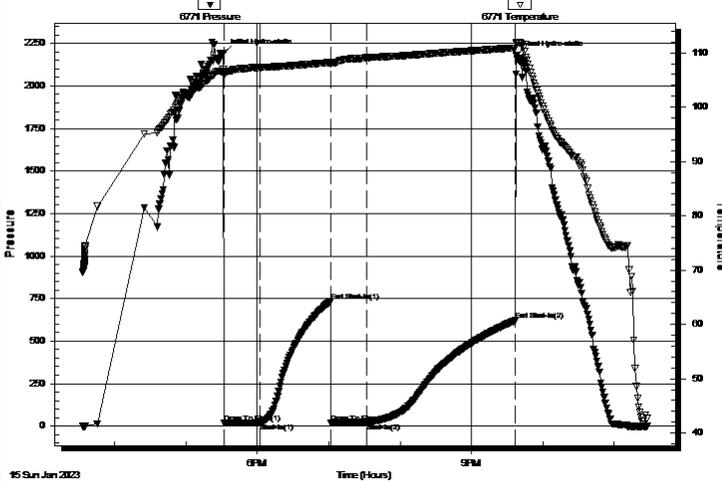
Start Time: 15:33:01 End Time: 23:28:21

Time On Btm: 2023.01.15 @ 17:31:36

Time Off Btm: 2023.01.15 @ 21:38:06

TEST COMMENT: 30 - IF: Blow built to 1/4", died back to weak surface blow
60 - IS: No blow
30 - FF: No blow
120 - FS: No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2193.63	106.97	Initial Hydro-static
1	17.30	105.84	Open To Flow (1)
31	20.05	107.25	Shut-In(1)
90	734.29	108.23	End Shut-In(1)
90	21.10	107.93	Open To Flow (2)
121	21.41	109.15	Shut-In(2)
246	621.35	110.92	End Shut-In(2)
247	2182.74	111.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w /trace oil 100%m	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration Inc

6-23s-32w Finney,KS

1601 NW Expressway
STE 1300
Oklahoma City, OK 73118
ATTN: Ed Grieves

Stude #1-6

Job Ticket: 68846

DST#: 1

Test Start: 2023.01.15 @ 15:33:00

Tool Information

Drill Pipe:	Length: 4440.00 ft	Diameter: 3.80 inches	Volume: 62.28 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 62.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4454.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4422.00	
Shut In Tool	5.00			4427.00	
Hydraulic tool	5.00			4432.00	
Jars	5.00			4437.00	
EM Tool	4.00			4441.00	
Safety Joint	3.00			4444.00	
Packer	5.00			4449.00	33.00 Bottom Of Top Packer
Packer	5.00			4454.00	
Stubb	1.00			4455.00	
Recorder	0.00	6771	Inside	4455.00	
Recorder	0.00	8367	Outside	4455.00	
Perforations	22.00			4477.00	
Bullnose	3.00			4480.00	26.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raydon Exploration Inc

6-23s-32w Finney,KS

1601 NW Expressway
STE 1300
Oklahoma City, OK 73118
ATTN: Ed Grieves

Stude #1-6

Job Ticket: 68846

DST#: 1

Test Start: 2023.01.15 @ 15:33:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 59.00 sec/qt

Water Loss: 8.37 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w /trace oil 100%m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

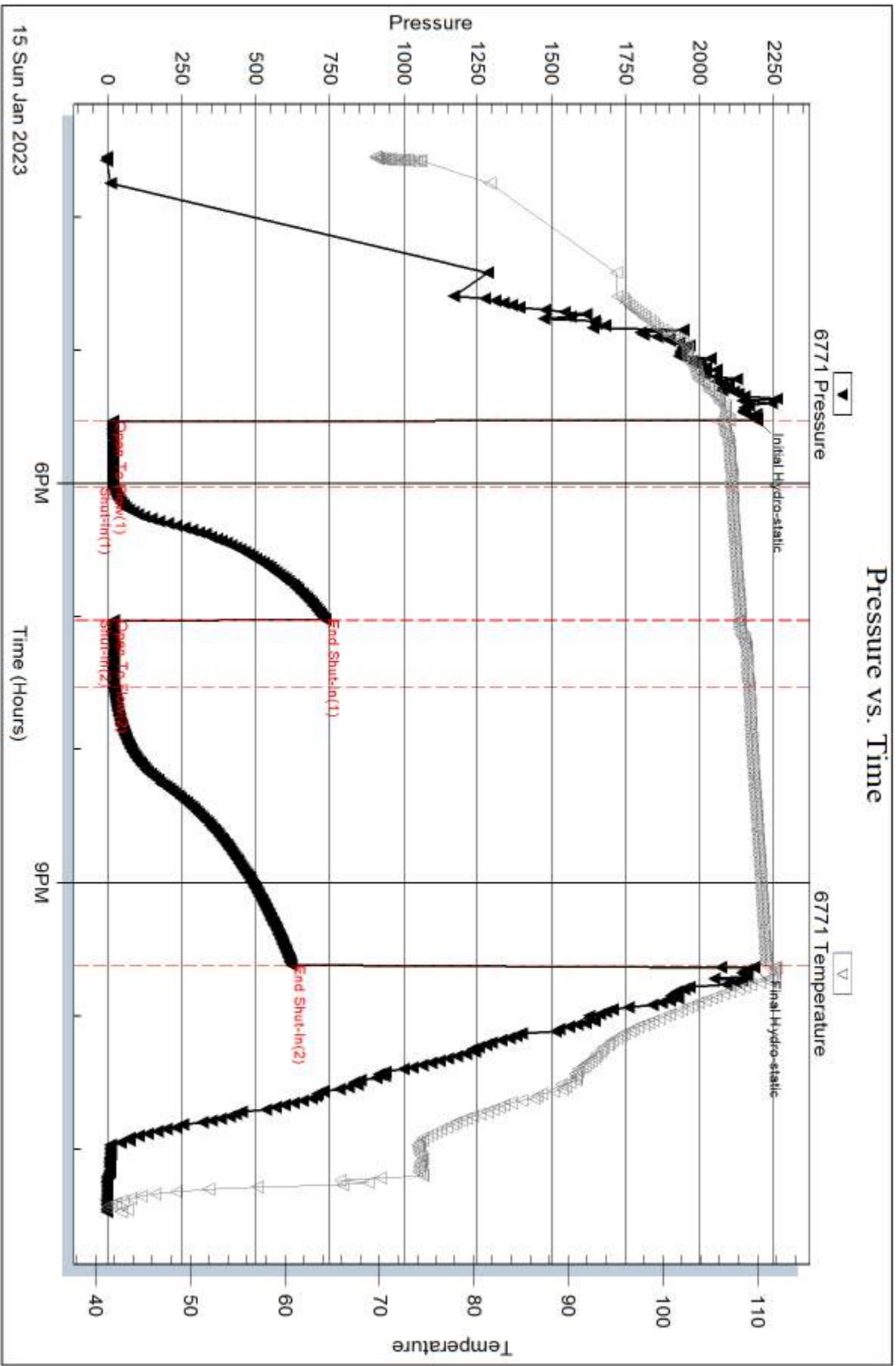
Num Gas Bombs: 0

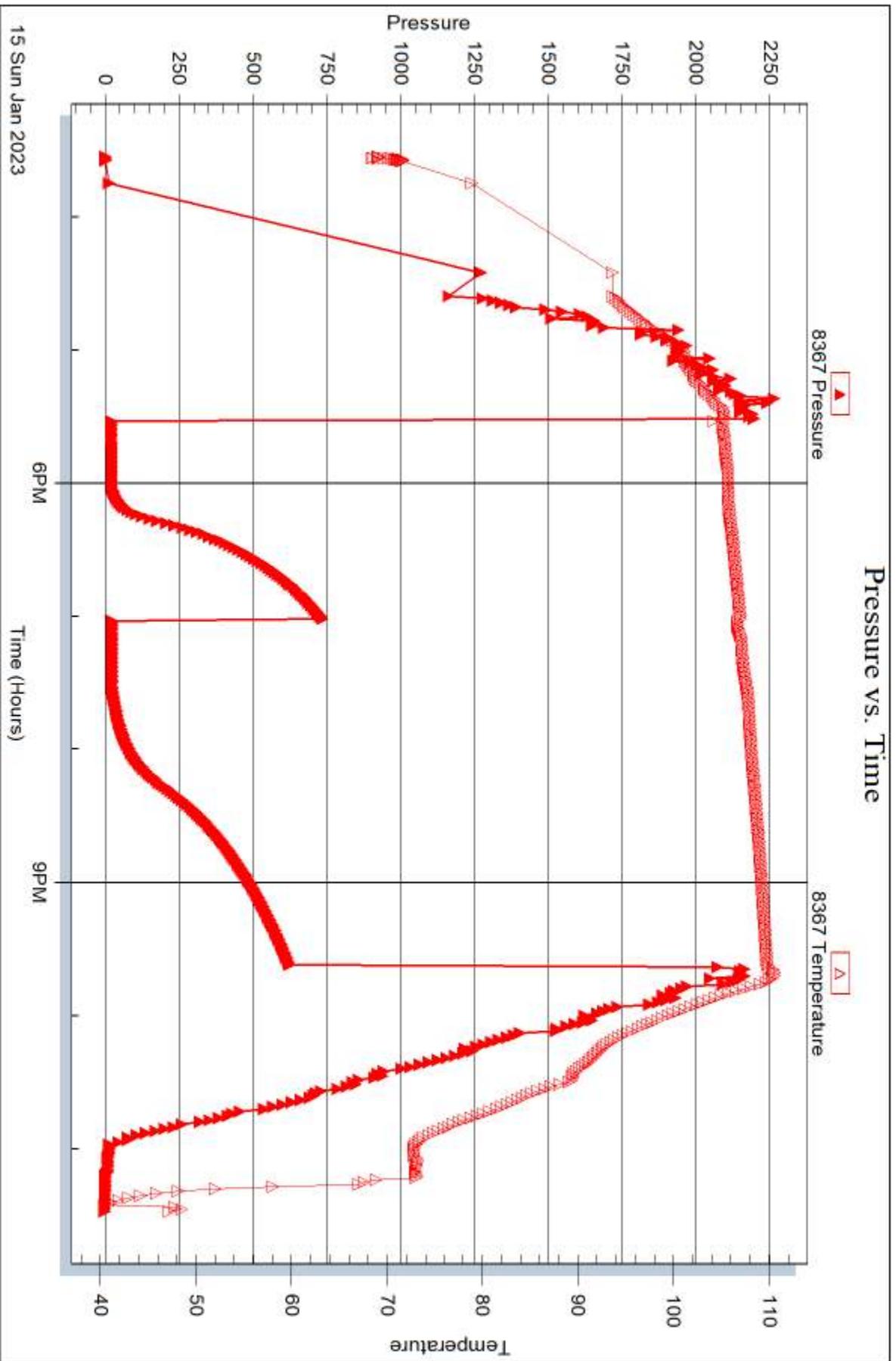
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration Inc**

1601 NW Expressway
STE 1300
Oklahoma City, OK 73118

ATTN: Ed Grieves

Stude #1-6

6-23s-32w Finney,KS

Start Date: 2023.01.17 @ 06:00:00

End Date: 2023.01.17 @ 13:59:21

Job Ticket #: 68847 DST #: 2

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

Printed: 2023.01.19 @ 12:07:56



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Raydon Exploration Inc
 1601 NW Expressway
 STE 1300
 Oklahoma City, OK 73118
 ATTN: Ed Grieves

6-23s-32w Finney,KS

Stude #1-6

Job Ticket: 68847

DST#: 2

Test Start: 2023.01.17 @ 06:00:00

GENERAL INFORMATION:

Formation: **Morrow Sandstone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:09:06

Time Test Ended: 13:59:21

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 4638.00 ft (KB) To 4698.00 ft (KB) (TVD)

Total Depth: 4698.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2864.00 ft (KB)

2852.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6771

Inside

Press@RunDepth: 23.19 psig @ 4639.00 ft (KB)

Start Date: 2023.01.17

End Date: 2023.01.17

Start Time: 06:00:01

End Time: 13:59:21

Capacity: 8000.00 psig

Last Calib.: 2023.01.17

Time On Btm: 2023.01.17 @ 08:08:51

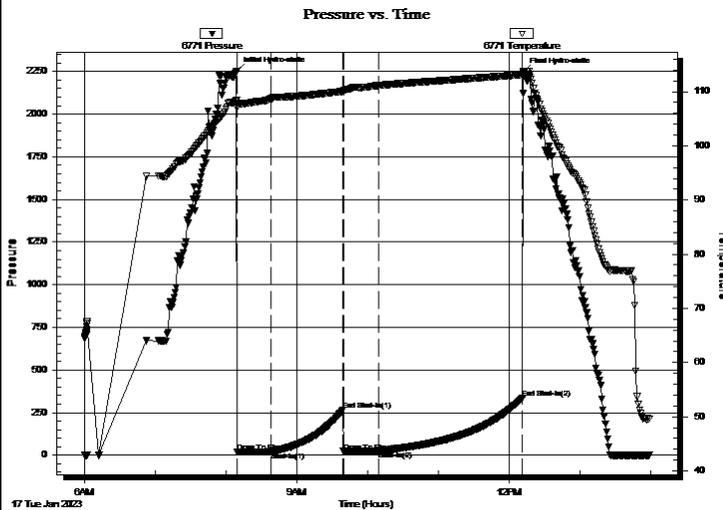
Time Off Btm: 2023.01.17 @ 12:12:21

TEST COMMENT: 30 - IF: 1/4" Blow at open, died back to weak surface blow

60 - IS: No blow

30 - FF: No blow

120 - FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2252.85	108.35	Initial Hydro-static
1	18.85	107.02	Open To Flow (1)
30	20.50	108.69	Shut-In(1)
90	265.02	110.05	End Shut-In(1)
91	21.65	110.00	Open To Flow (2)
121	23.19	111.14	Shut-In(2)
243	335.09	113.13	End Shut-In(2)
244	2245.58	113.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	Mud w /trace oil 100% m	0.11

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration Inc

6-23s-32w Finney,KS

1601 NW Expressway
STE 1300
Oklahoma City, OK 73118
ATTN: Ed Grieves

Stude #1-6

Job Ticket: 68847

DST#: 2

Test Start: 2023.01.17 @ 06:00:00

Tool Information

Drill Pipe:	Length: 4629.00 ft	Diameter: 3.80 inches	Volume: 64.93 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 64.93 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	61000.00 lb
Depth to Top Packer:	4638.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	93.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4606.00	
Shut In Tool	5.00			4611.00	
Hydraulic tool	5.00			4616.00	
Jars	5.00			4621.00	
EM Tool	4.00			4625.00	
Safety Joint	3.00			4628.00	
Packer	5.00			4633.00	33.00 Bottom Of Top Packer
Packer	5.00			4638.00	
Stubb	1.00			4639.00	
Recorder	0.00	6771	Inside	4639.00	
Recorder	0.00	8367	Outside	4639.00	
Perforations	22.00			4661.00	
Blank Spacing	33.00			4694.00	
Perforations	1.00			4695.00	
Bullnose	3.00			4698.00	60.00 Bottom Packers & Anchor

Total Tool Length: 93.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raydon Exploration Inc

6-23s-32w Finney,KS

1601 NW Expressway
STE 1300
Oklahoma City, OK 73118
ATTN: Ed Grieves

Stude #1-6

Job Ticket: 68847

DST#: 2

Test Start: 2023.01.17 @ 06:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 74.00 sec/qt
Water Loss: 7.39 in³
Resistivity: ohm.m
Salinity: 5000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	Mud w /trace oil 100%m	0.112

Total Length: 8.00 ft Total Volume: 0.112 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

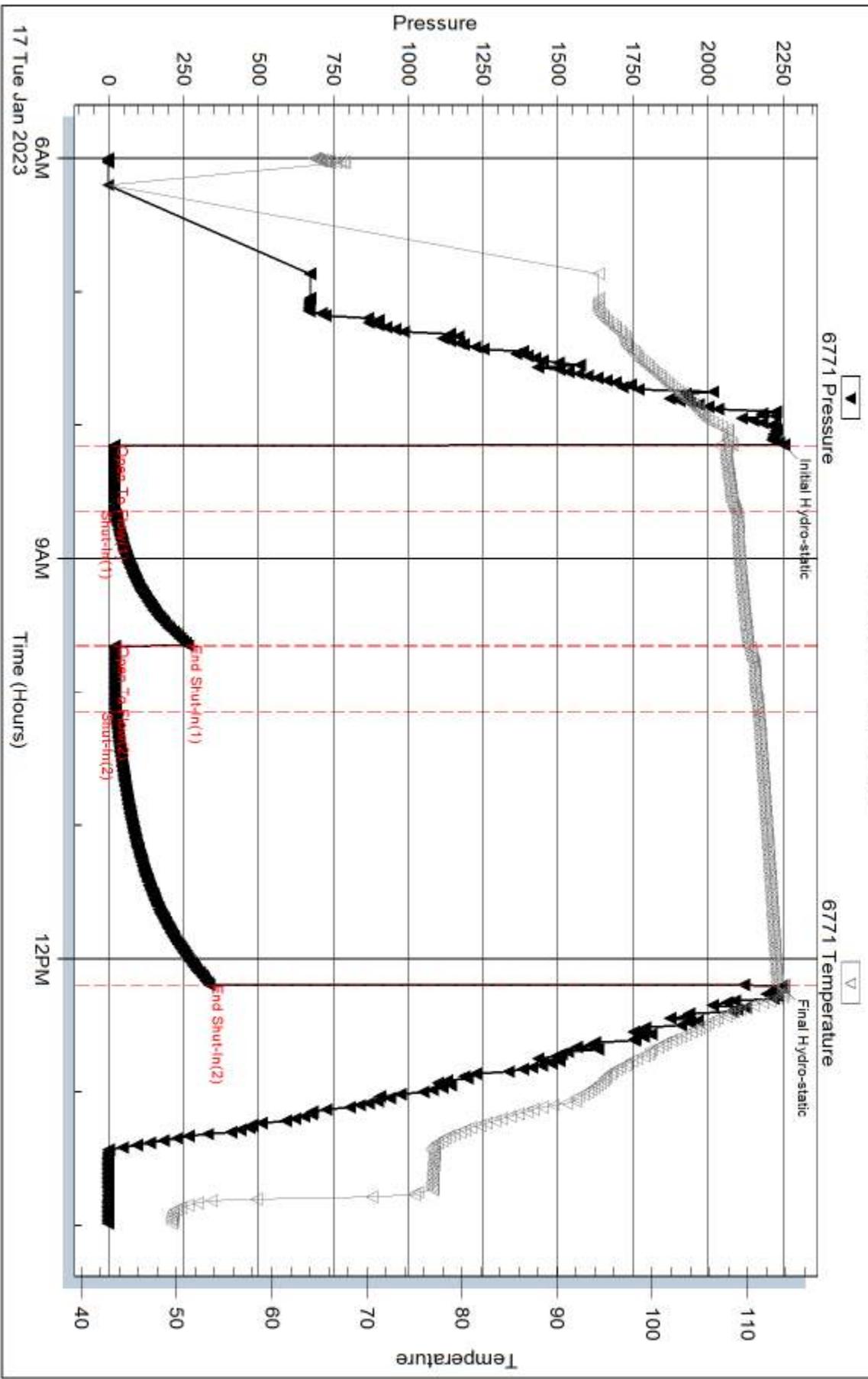
Serial #:

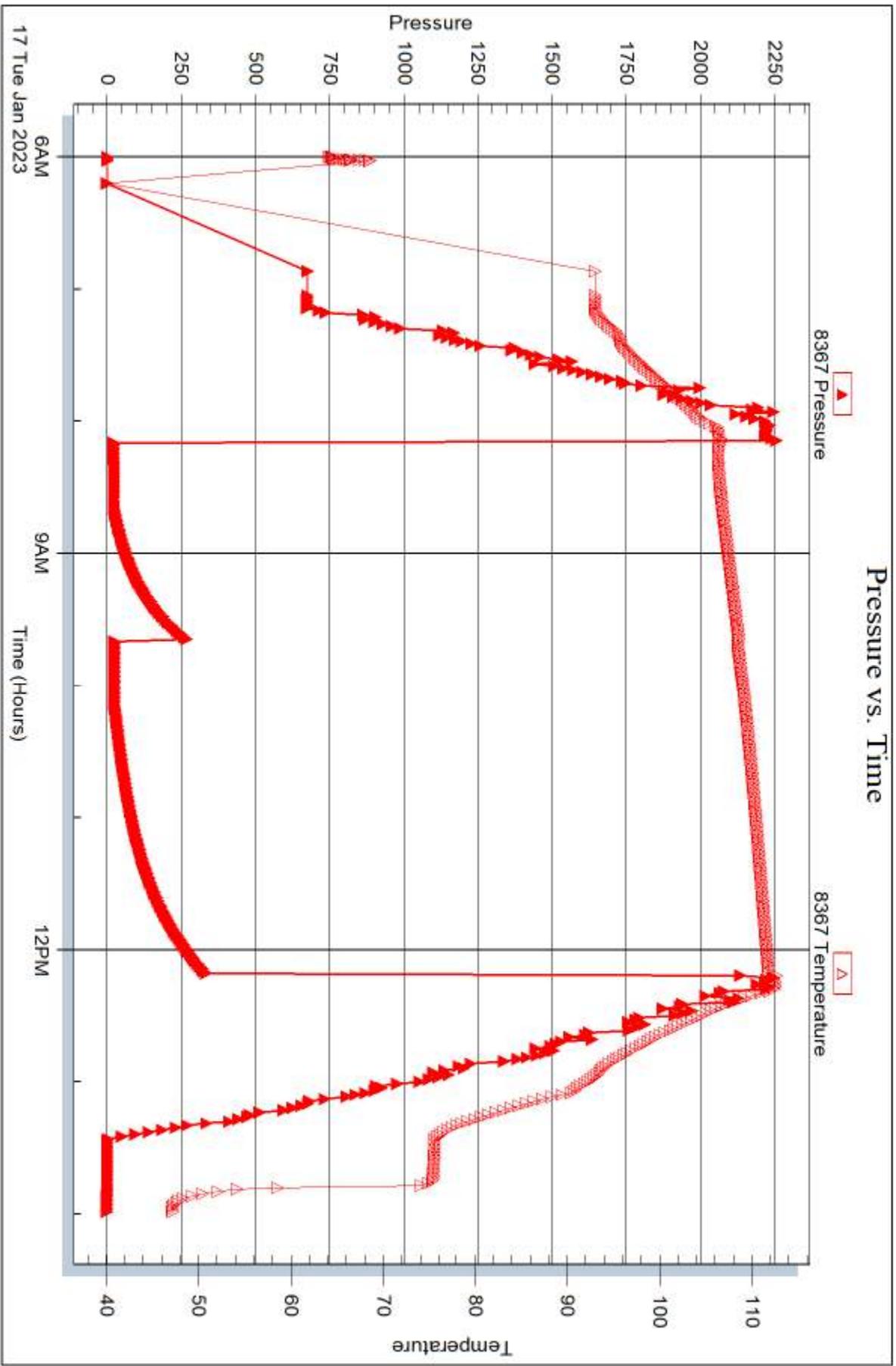
Laboratory Name:

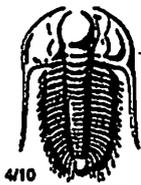
Laboratory Location:

Recovery Comments:

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68846

Well Name & No. Stade #1-6 Test No. 1 Date 1-15-23
 Company Raydon Exploration Inc Elevation 2864 KB 2852 GL
 Address 1601 NW Expressway STE 1300 Oklahoma City OK 73118
 Co. Rep / Geo. Ed Grieves Rig Duke #1
 Location: Sec. 6 Twp 23s Rge. 32w Co. Finney State KS

Interval Tested 4454-4480 Zone Tested Pawnee
 Anchor Length 26 Drill Pipe Run 4440 Mud Wt. 9.2
 Top Packer Depth 4449 Drill Collars Run - Vis 59
 Bottom Packer Depth 4454 (shale) Wt. Pipe Run - WL 8.4
 Total Depth 4480 Chlorides 5000 ppm System LCM 4

Blow Description IF: Blow built to 4" died back to weak surface blow
ISI: No blow
FF: No blow
FSI: No blow

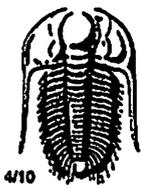
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud w/trace oil</u>	<u>trace</u>	<u>0</u>	<u>100</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 111 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2194 Test 1950 T-On Location 13:45
 (B) First Initial Flow 17 Jars 300 T-Started 15:33
 (C) First Final Flow 20 Safety Joint _____ T-Open 17:31
 (D) Initial Shut-In 734 Circ Sub _____ T-Pulled 21:37
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 23:25
 (F) Second Final Flow 21 Mileage 68 RT to Scott 119 Comments _____
 (G) Final Shut-In 621 Sampler _____
 (H) Final Hydrostatic 2183 Straddle _____ EM Tool -350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 2619 Sub Total 2619 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 120

Approved By Ed Grieves Our Representative James Winkler
 Tribolite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68847

Well Name & No. Stude # 1-6 Test No. 2 Date 1-17-23
 Company Raydon Exploration Inc Elevation 2864 KB 2852 GL
 Address 1601 NW Expressway STE 1300 Oklahoma City OK 73118
 Co. Rep / Geo. Ed Grieves Rig Duke #1
 Location: Sec. 6 Twp 23s Rge. 32w Co. Finney State KS

Interval Tested 4638 - 4698 Zone Tested Morrow Sandstone
 Anchor Length 60 Drill Pipe Run 4629 Mud Wt. 9.1
 Top Packer Depth 4633 Drill Collars Run - Vls 74
 Bottom Packer Depth 4638 (Shale) Wt. Pipe Run - WL 7.4
 Total Depth 4698 Chlorides 5000 ppm System LCM 4
 Blow Description IF: 1/4" Blow at open, died back to weak surface blow
ISI: No blow
FF: No blow
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>8</u>	<u>Mud w/trace oil</u>	<u>trace</u>		<u>100</u>	

Rec Total 8 BHT 113 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2253 Test 1950 T-On Location 4:45
 (B) First Initial Flow 19 Jars 300 T-Started 6:00
 (C) First Final Flow 21 Safety Joint _____ T-Open 8:09
 (D) Initial Shut-In 265 Circ Sub _____ T-Pulled 12:11
 (E) Second Initial Flow 22 Hourly Standby _____ T-Out 13:55
 (F) Second Final Flow 23 Mileage 68 Rt to Scott X2 238 Comments tools loaded 11:35
 (G) Final Shut-In 335 Sampler _____
 (H) Final Hydrostatic 2246 Straddle _____ EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Shale Packer 250 Sub Total 175
 Initial Shut-In 60 Extra Packer _____ Total 2913
 Final Flow 30 Extra Recorder _____ MP/DST Disc't _____
 Final Shut-In 120 Day Standby 1d 5.25h
 Accessibility _____
 Sub Total 2738

Approved By [Signature] Our Representative James Winkler
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



QUASAR ENERGY SERVICES, INC.

3288 FM 51
Gainesville, Texas 76240

Office: 940-612-3336

Fax: 940-612-3336 | qesi@qeserve.com

Form 185-2N

1/10/23

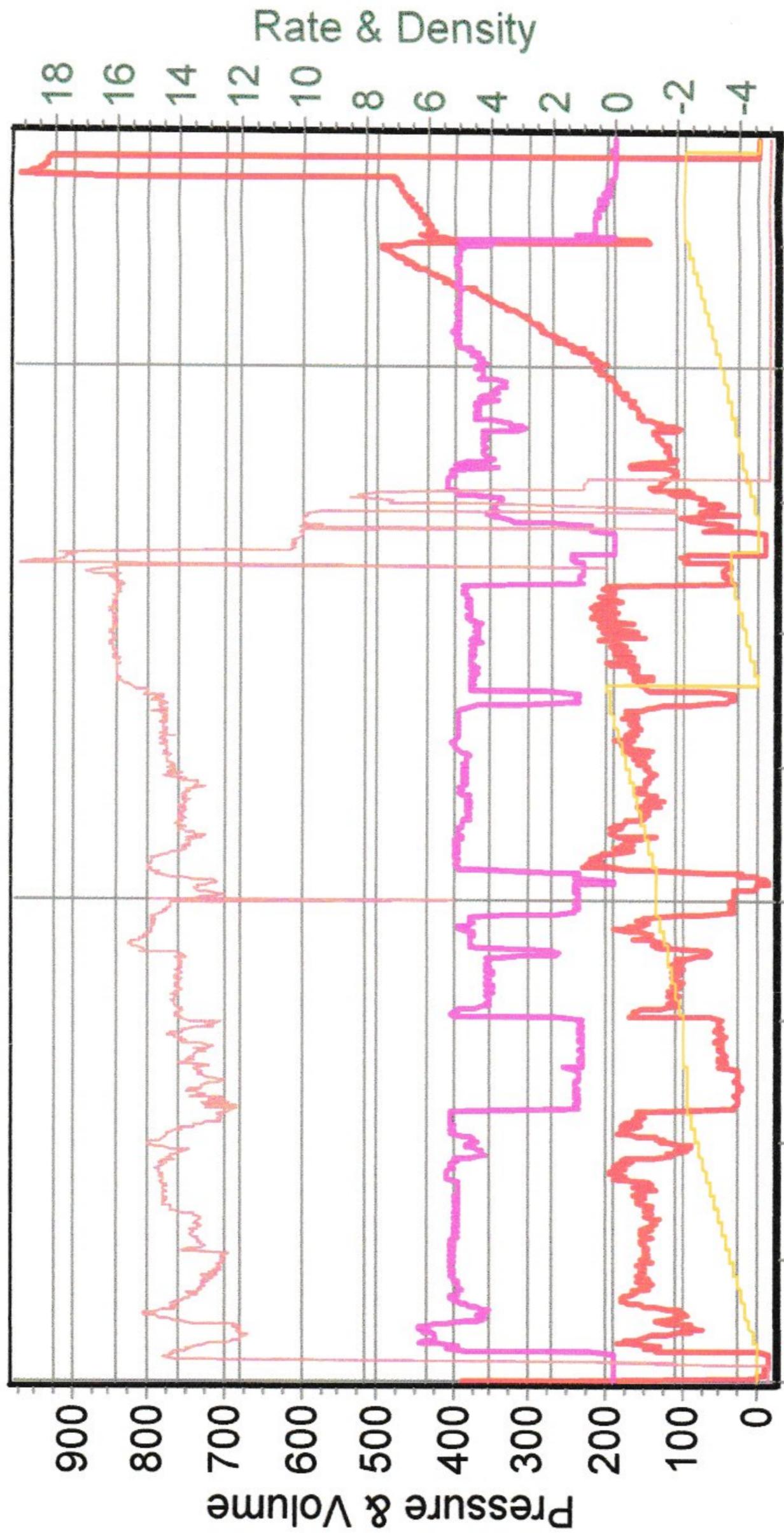
CEMENTING JOB LOG

CEMENTING JOB LOG

Company: Raydon Exploration, Inc.				Well Name: Stude 1-6			
Type Job: SURFACE				AFE #:			
CASING DATA							
Size: 8 5/8		Grade:		Weight: 24			
Casing Depths		Top:		Bottom: 1820			
Drill Pipe:		Size:		Weight:		Depth: 1820'	
Open Hole:		Size: 12 1/4		T.D. (ft):		Hole:	
CEMENT DATA							
Spacer Type:							
Amt.		Sks Yield	0	ft³/sk		Density (PPG)	
LEAD:	Class A: 2% Gyp., 2%SMS., 2% CC., 1/4# Celloflake					Excess	
Amt.	450	Sks Yield	1314	ft³/sk	2.92	Density (PPG)	11.43
TAIL:	Class A: 2% Gel, 2% CC., 1/4# Celloflake					Excess	
Amt.	150	Sks Yield	205.5	ft³/sk	1.37	Density (PPG)	14.82
WATER:							
Lead:	450	gals/sk:	18	Tail:	150	gals/sk:	6.5
						Total (bbls):	216.1
Pump Trucks Used:		04, DP03					
Bulk Equipment:		227, 660-25 / 189, 660-21					
Disp. Fluid Type:		Water (Supplied)		Amt. (Bbls.)	113.3	Weight (PPG):	8.3
COMPANY REPRESENTATIVE:				CEMENTER: Daniel Beck			
TIME AM/PM	PRESSURES PSI			FLUID PUMPED DATA		REMARKS	
	Casing	Tubing	ANNULUS	TOTAL	RATE		
20:20						ON LOCATION & SAFETY MEETING	
21:30						RIG TO PT	
21:36						PRESSURE TEST TO 1500PSI	
21:38	250			234slurry	5.6	PUMP 450SX LEAD @ 11.4#	
22:27	250			36.5slurry	4.6	PUMP 150SX TAIL @ 14.8#	
22:37						SHUTDOWN / DROP PLUG	
22:39	140			10	5.4	DISPLACE / CEMENT TO SURFACE	
	250			20	5.2		
	250			30	5.1		
	250			40	5.2		
	280			50	5.1		
	300			60	5.0		
	380			70	5.1		
	450			80	5.0		
	500			90	5.0		
23:00	600			100	5.0	SLOW RATE TO 2.0BPM @ 500PSI	
23:05	580			113.3	2.0	LAND PLUG / PRESSURE UP TO 1000PSI	
23:07						RELEASE BACK --- FLOAT HELD	
						JOB COMPLETE	
Company:	Raydon Exploration, Inc.			Well Name: Stude 1-6			
Type Job:	SURFACE			AFE #:			
Date:	1/10/2023	CEMENTING JOB LOG		QUASAR ENERGY SERVICES, INC. 185-2			

Raydon Expeoration

Stude 1-6



/10/2023 9:36:07 PM 1/10/2023 10:11:38 PM 1/10/2023 10:51:14 PM