

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	Quail Oil & Gas, LC
Well Name	ELLIOTT 1
Doc ID	1728293

All Electric Logs Run

Density/Neutron
Micro
Dual Induction
Sonic



TICKET 36058

CHARGE TO: *Oil & Gas*
 ADDRESS
 CITY, STATE, ZIP CODE

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <i>Ness City</i>	<i>#1</i>	<i>611107</i>	<i>Greba</i>	<i>KS</i>		<i>5-22-03</i>	
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.		<i>L.D.</i>		<i>ST</i>	<i>Greba</i>		
4.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
		<i>oil</i>	<i>Drilling</i>		<i>411141155</i>		
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<i>575</i>					MILEAGE	<i>50</i>	<i>mi</i>			<i>8.00</i>	<i>400.00</i>
<i>579</i>					<i>Pump Change Top to bottom</i>	<i>1</i>	<i>Job</i>			<i>2350.00</i>	<i>2350.00</i>
<i>407</i>					<i>Insert Head shoe w/ A.H.F.I.</i>	<i>1</i>	<i>ea</i>			<i>400.00</i>	<i>400.00</i>
<i>402</i>					<i>Control Valve</i>	<i>10</i>	<i>ea</i>			<i>90.00</i>	<i>900.00</i>
<i>403</i>					<i>CMT Bucket</i>	<i>3</i>	<i>ea</i>			<i>55.00</i>	<i>165.00</i>
<i>406</i>					<i>Loch down plug + basket</i>	<i>1</i>	<i>ea</i>			<i>300.00</i>	<i>300.00</i>
<i>281</i>					<i>mod Flash</i>	<i>500</i>	<i>gal</i>			<i>2.50</i>	<i>1250.00</i>
<i>221</i>					<i>Legend Kit</i>	<i>2</i>	<i>gal</i>			<i>25.00</i>	<i>50.00</i>
<i>290</i>					<i>B-Ac</i>	<i>4</i>	<i>gal</i>			<i>42.00</i>	<i>168.00</i>

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

X

DATE SIGNED _____ TIME SIGNED _____
 A.M. P.M.

REMIT PAYMENT TO:
SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY		AGREE	UNDECIDED	DISAGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					<i>#1 6989.00</i>
WE UNDERSTOOD AND MET YOUR NEEDS?					<i>#2 1400.21, 50</i>
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					<i># 20870.50</i>
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			TAX
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					TOTAL

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR *Peter Stone* APPROVAL _____

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

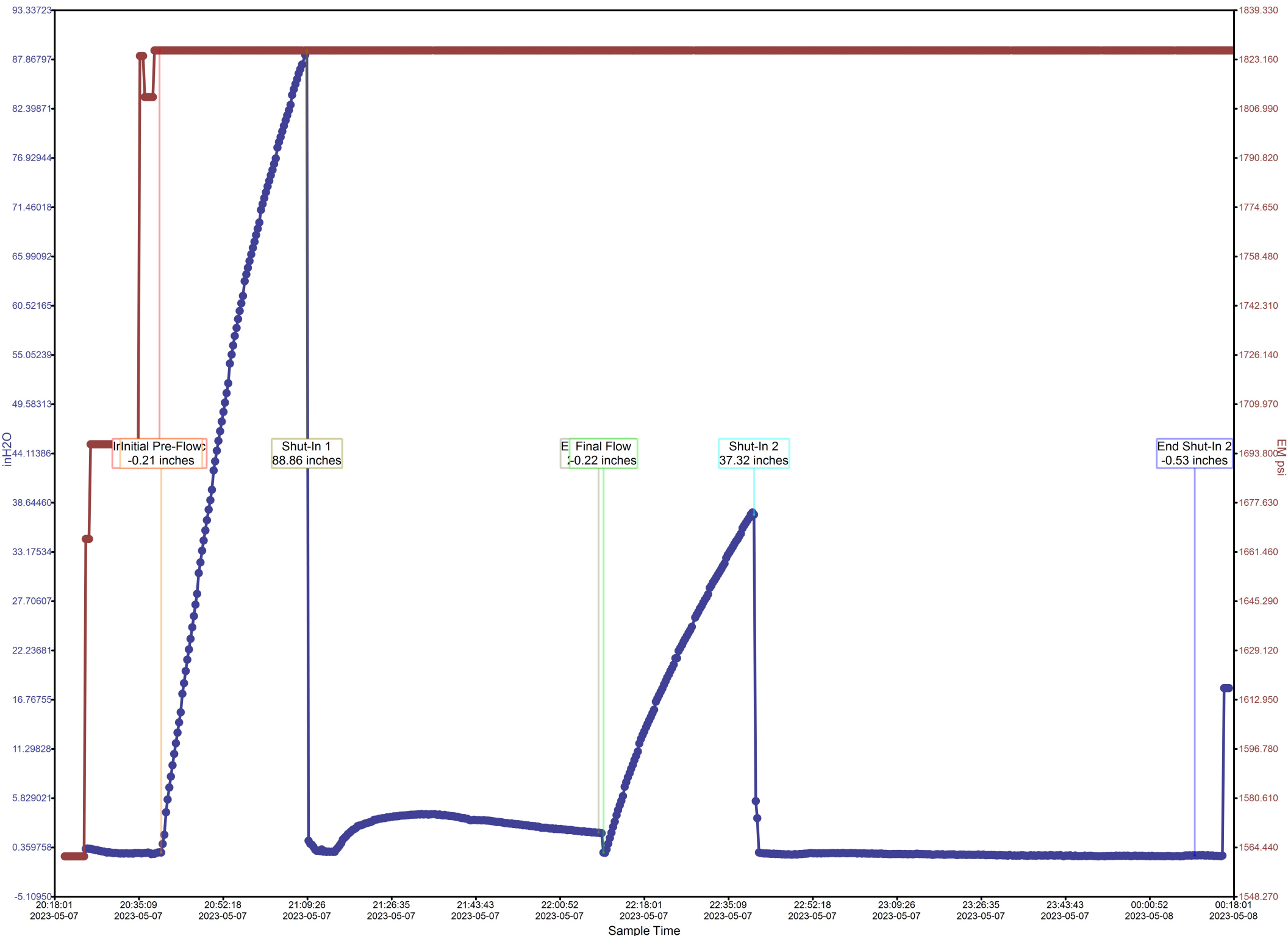
TICKET No. 36058

CUSTOMER: Quail Oil & Gas
WELL: #111 #1
DATE: 8-9-23
PAGE: 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U/M		
330						5 MD	350	SK		7350.00
276						Flare	88	lb	4.00	352.00
325						STD cement	150	SK	16.00	2400.00
284						Col Seal	7	SK	50.00	350.00
283						Salt	250	lb	0.75	187.50
292						Hold 322	100	lbs	9.00	900.00
276						Flare	50	lbs	4.00	200.00
581						CMT Service Charge	500	SK	2.00	1000.00
583						Drygas	5052	lbs	1.46	7375.92
						SERVICE CHARGE				
						MILEAGE CHARGE				
						TOTAL WEIGHT				
						LOADED MILES				
						CUBIC FEET				
						TON MILES				

CONTINUATION TOTAL 14002.52

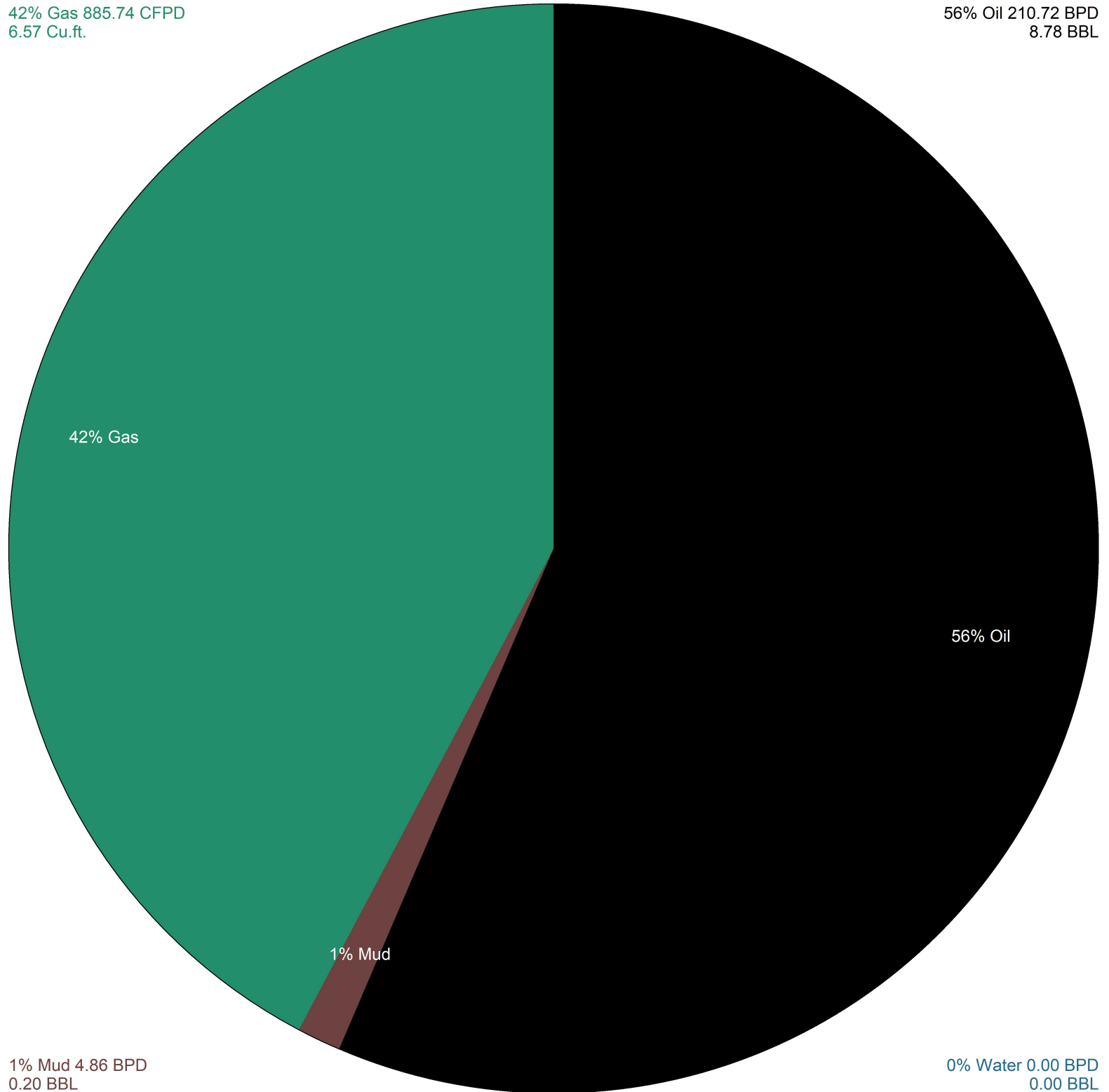
Quail Oil & Gas - Elliott 1 - DST #2



Calculated Recovery Analysis - Quail Oil & Gas - Elliott 1 - DST #2

42% Gas 885.74 CFPD
6.57 Cu.ft.

56% Oil 210.72 BPD
8.78 BBL



42% Gas

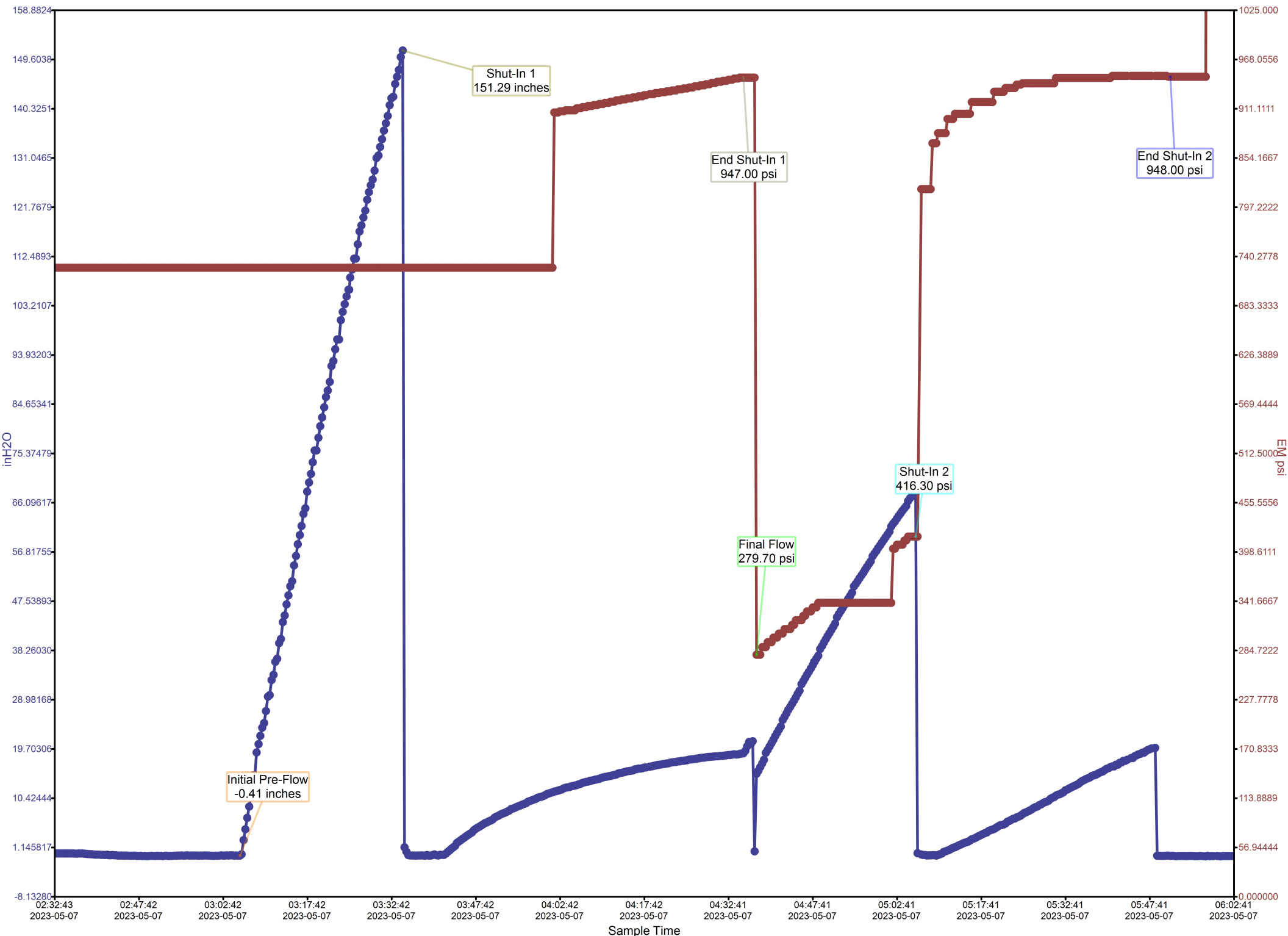
56% Oil

1% Mud

1% Mud 4.86 BPD
0.20 BBL

0% Water 0.00 BPD
0.00 BBL

Quail Oil & Gas - Elliott 1 - DST #1



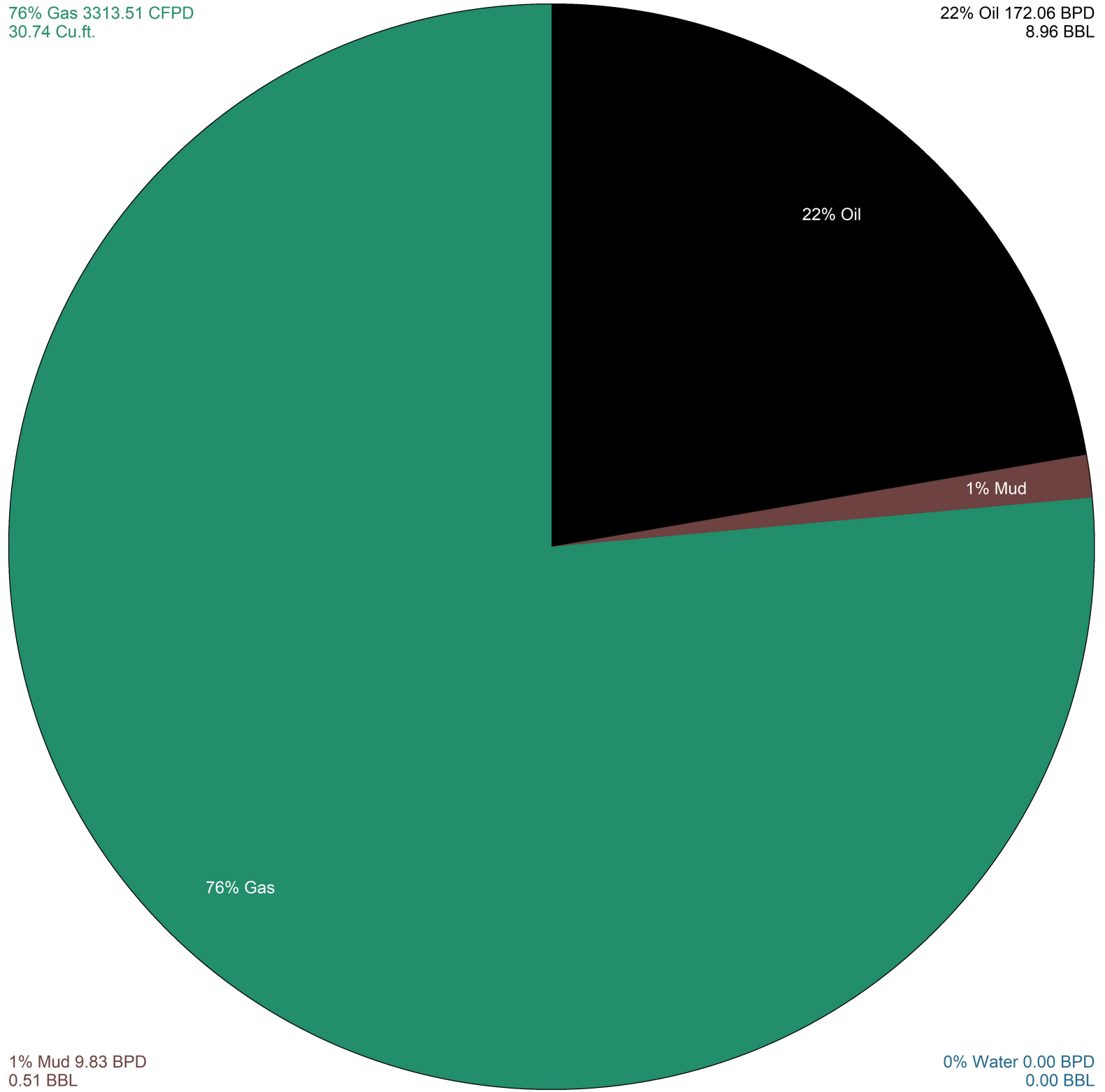
Calculated Recovery Analysis - Quail Oil & Gas - Elliott 1 - DST #1

76% Gas 3313.51 CFPD
30.74 Cu.ft.

22% Oil 172.06 BPD
8.96 BBL

1% Mud 9.83 BPD
0.51 BBL

0% Water 0.00 BPD
0.00 BBL



Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Andrew J. French, Chairperson
Dwight D. Keen, Commissioner
Annie Kuether, Commissioner

Laura Kelly, Governor

October 03, 2023

Wray Valentine
Quail Oil & Gas, LC
2005 North Taylor Avenue
PO BOX K
GARDEN CITY, KS 67846-9633

Re: ACO-1
API 15-065-24245-00-00
ELLIOTT 1
NW/4 Sec.34-08S-23W
Graham County, Kansas

Dear Wray Valentine:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 05/01/2023 and the ACO-1 was received on September 22, 2023 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department

GEOLOGIC REPORT

DAVID J. GOLDAK

WICHITA, KANSAS
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Elliot #1
API: 15-065-24245-0000
Location: Section 34 - T8S - R23W
License Number: _____
Spud Date: 05 / 01 / 2023
Surface Coordinates: 1180' FNL and 335' FWL
SE - SW - NW - NW
Bottom Hole Coordinates: _____
Ground Elevation (ft): 2290' K.B. Elevation (ft): 2295'
Logged Interval (ft): 3400' To: 4124' Total Depth (ft): 4124'
Formation: at TD: Arbuckle
Type of Drilling Fluid: Chemical - Mud Co

Region: Graham Co., KS
Drilling Completed: 05 / 09 / 2023

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Quail Oil & Gas, LC
Address: PO Box K
Garden City, KS 67846

GEOLOGIST

Name: David J. Goldak
Company: D. J. GOLDAK, INC.
Address: 12427 W Ridgepoint Cir
Wichita, Kansas 67235

General Information

CONTRACTOR: L D Drilling, Rig #1

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12.25	Varel ?	3-15s	264'	264'	3.25
2	7.875	Varel HE-27	14-14-15	4124'	3860'	84.25

SURVEYS: 264'-0.75, 3750'-0.75, 4124'-

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 16 collars (6.25"x2.25"): 482.10'
Drilling with 37,000-38,000 lbs on bit and 60-70 RPM
Pumping 58 S/M; 8.0 B/M; and 800-900 PSI at the standpipe

Daily Status

05/01/23 - Spud at 2:30 PM; Set 8-5/8" Csg at 261'; PD @ 9:45 PM; DP @ 5:45 AM 05/02
 05/02/23 - 385' Drilling
 05/03/23 - 1,289' Waiting on replacement pump
 05/04/23 - 2,115' Drilling
 05/05/23 - 2,925' Drilling; Displace mud @ 3,115'
 05/06/23 - 3,490' Drilling
 05/07/23 - 3,750' TOOH with DST #1; DST #2 @ 4,792'
 05/08/23 - 3,820' Drilling
 05/09/23 - 4,124' Logging

Log Tops Sample Tops



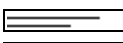

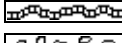



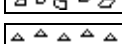



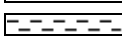
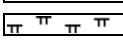



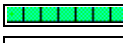



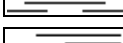








Anhydrite	1956 (+339)
Base/Anhy	1993 (+302)
Oread	3524 (-1229)
Heebner	3575 (-1280)
Lansing	3618 (-1323)
Muncie Ckeek Sh	3731 (-1436)
Base KC	3832 (-1537)
Basal Chert	4069 (-1774)
Arbuckle	4119 (-1824)
Total Depth	4124 (-1829)

DSTs

DST #1: 3,728' - 3,750' (LKC 'H' Zone)
 30" - 60" - 30" - 45"
 IF: Blow building to BOB in 2 minutes
 ISI: Blow building to BOB in 21 minutes
 FF: Blow building to BOB immediately
 FSI: Blow building to BOB in 23 minutes
 RECOVERY: 1,810' GIP & 1,018' Total Fluid, consisting of:
 928' GO (35% G & 65% O); Gravity: 36 API
 90' GOCM (30% G, 30% O & 40% M)
 IFF: 47-200; ISIP: 889; FFP: 208-343; FSIP: 872; BHT: 119

DST #2: 3,756' - 3,792' (LKC 'I' & 'J' Zones)
 30" - 60" - 30" - 90"
 IF: Blow building to BOB in 3 minutes
 ISI: Return blow building to 4 inches
 FF: Blow building to BOB in 7 minutes
 FSI: No return blow
 RECOVERY: 53' GIP & 1,003' Total Fluid, consisting of:
 10' SGO (2% G & 98% O); Gravity: 42 API
 898' GCO (40% G & 60% O)
 95' GMCO (70% G, 15% O & 15% M)
 IFF: 39-191; ISIP: 883; FFP: 198-323; FSIP: 867; BHT: 118

ROCK TYPES

 Anhy	 Gyp	 Shgy	 Sandylms
 Bent	 Igne	 Sltst	 Shale
 Brec	 Lmst	 Ss	 Sltstn
 Cht	 Meta	 Till	 Shlyslts
 Clyst	 Mrlst	 Carb sh	 Sltys h
 Coal	 Salt	 Dol	 Lms
 Congl	 Shale	 Dtd	
 Dol	 Shcol	 Gry sh	

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr



- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Silty

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram



- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh



- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

INTERVALS

- Core
- Dst
- Dst_1_t
- Dst_1_b
- Dst

EVENTS

- Rft
- Sidewall



Conn

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint



Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

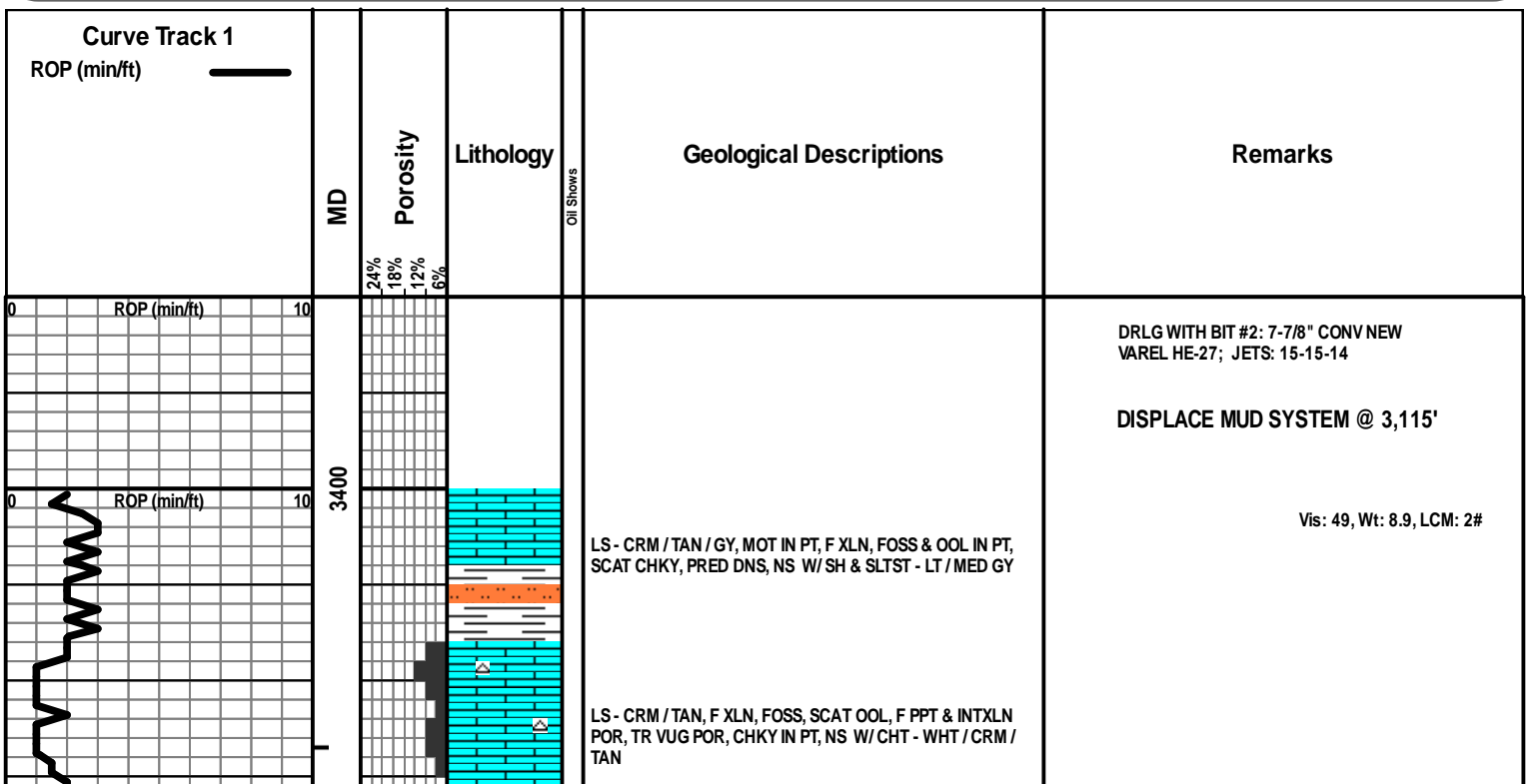
- Rounded
- Subrnd

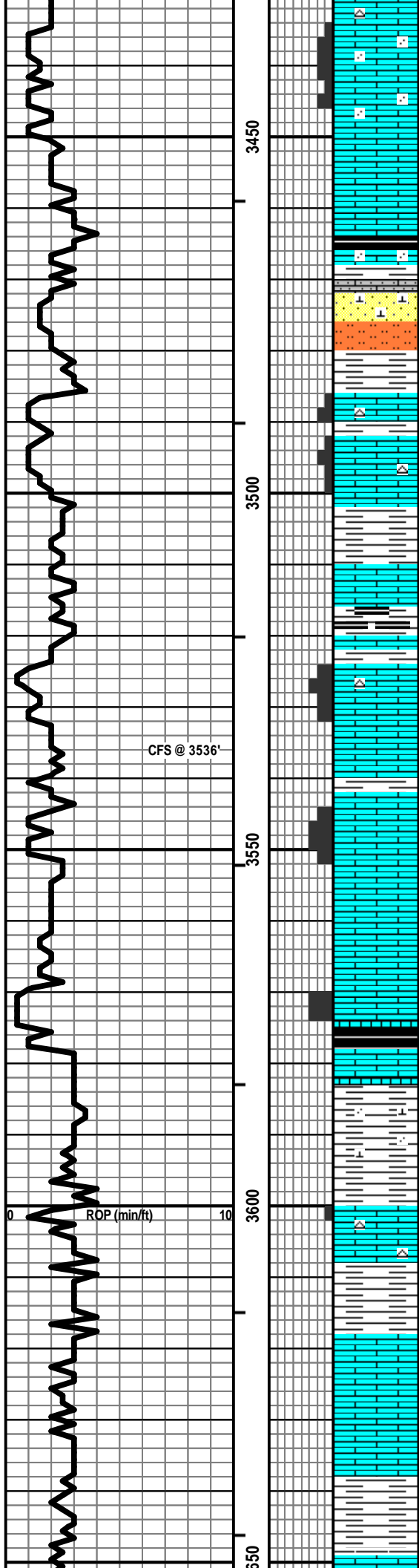


Subang
Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show





LS - CRM / SCAT TAN / SCAT GY, VF / F XLN, AREN IN PT, P / F PPT & INTXLN & FOSSMOLD POR, SCAT DNS, NS W/ SCAT CHT - ASABOVE

LS - CRM / LT GY, VF / F XLN, MODAMT REXLN CALC, SCAT OOL, PRED DNS, NS

LS - AA W/LS - GY / BRN, MOT, F XLN, SCAT FOSS, AREN IN PT, PRED DNS, NS W/ SH - BLK, CARB

LS - GY / BRN / TAN, MOT, F XLN, AREN IN PT, NS W/ SLTST - GY W/ SS - GY / CRM, SLT / VF GR, CALC, NS

SH - GY / RED / SCAT GRN

LS - CRM / TAN, F XLN, FOSS, P / SCAT F INTXLN & PPT POR IN PT, CHKY IN PT, NS W/ CHT - WHT - CRM

PRED SH - GY / RED / SCAT GRN, SLTYIN PT

LS - GY / TAN, MOT IN PT, F XLN, FOSS, DNS, NS

ABNT SH - GY / BLK, CARB IN PT W/ LS - SIM TO ABOVE

LS - CRM / TAN, F XLN, OOL, F / G OOM POR, CHKY IN PT, NS W/ SCAT CHT - LT GY / WHT

LS - TAN / BRN / GY, MOT IN PT, F XLN, FOSS, PRED DNS, NS

LS - CRM, F XLN, OOL, F / G INTOOL & VUG & OOM POR, MOD CHKY, NS

LS - TAN / GY, VF / F XLN, SCAT OOL, CHKY IN PT, PRED DNS, NS

LS - ASABOVE W/ LS - TAN, F XLN, G INTXLN POR, NS

SH - BLK, CARB W/ LS - TAN / GY, F XLN, FOSS IN PT, PRED DNS, NS

SH - GY / SCAT GRN, AREN & CALC IN PT

SH - RED / GY

LS - CRM / WHT / LT GY, F / VF XLN, OOL IN PT, SL FOSS, SCAT INTOOL POR, TR FOSSMOLD POR, PRED DNS, NS W/ CHT - WHT

SH - PRED GY

LS - CRM / SCAT TAN / SCAT GY, MOT IN PT, F XLN, OOL, TR FOSS, PRED DNS, NS

LS - CRM / LT GY, F / VF XLN, SCAT REXLN CALC, SUBCHKY IN PT, PRED DNS, NS

SH - PRED GY

Vis: 47, Wt: 9.0, YP: 20,
GelS: 8/17, pH: 11.5, WL: 5.4,
Chl: 1,500, Sol: 4.9, LCM: 1#

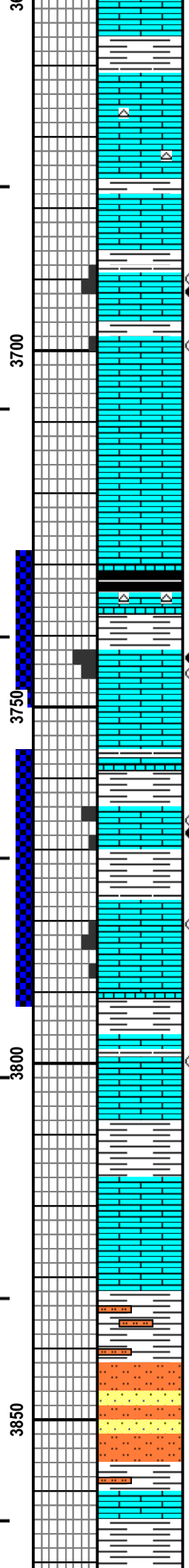
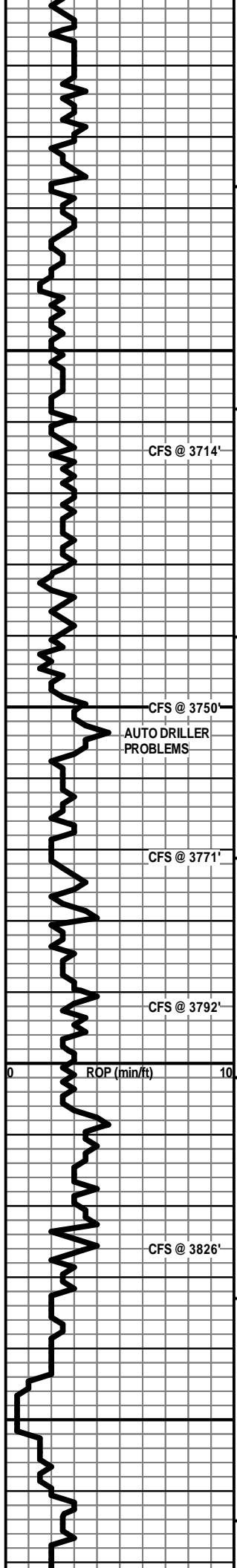
Vis: 51, Wt: 8.9, LCM: 2#

OREAD 3524 (-1229)

HEEBNER 3575 (-1280)

Vis: 52, Wt: 9.0, LCM: 1#

LANSING 3618 (-1323)



LS - TAN, F XLN, FOSS & OOL, PRED DNS, NS

LS - CRM / TAN, F / VF XLN, SCAT OOL, PRED DNS, NS

LS - CRM / WHT, F / VF XLN, TR FOSS, SCAT CHK, PRED DNS, NS W/ SCAT CHT - CRM / WHT

SH - GY / BLK W/LS - GY / TAN, F XLN, SCAT REXLN CALC, SL FOSS, PRED DNS, NS

LS - CRM / WHT, F / SCAT M XLN, OOL, P / F INTOOL POR, P / F INTPART & VUG POR, SL / F SFO, SSGB, V FT ODOR, SPTY / SCAT SAT STN

LS - TAN / CRM, F XLN, SCAT OOL & FOSS, SCAT P VUG POR, PRED DNS, SCAT P SFO, NO ODOR, TR SPTY STN, PRED NS

LS - CRM / WHT, F XLN, OOL IN PT, SL FOSS, PRED DNS, NS

LS - CRM / LT GY / WHT, F / VF XLN, SUBCHKY IN PT, PRED DNS, NS

LS - ASABOVE W/SH - BLK, CARB

LS - BRN / TAN / GY, MOT, SL FOSS, DNS, NS W/ CHT - DK GY W/SH - GY / BLK

LS - CRM / LT GY / TAN, PRED F XLN, FOSS IN PT, F / G INTXLN POR, SCAT F VUG POR, F / G SFO, SL / F SGB, G ODOR, SAT / SPTY STN W/ DNS, NS

LS - CRM / TAN / GY, MOT IN PT, F / VF XLN, SCAT OOL, PRED DNS, SCAT ARGIL, NS W/SH - GY

LS - CRM / LT GY, MOT IN PT, F / VF XLN, OOL, P / F INTPART & PPT & VUG POR IN PT, SL / G SFO, SL / F SGB, V FT ODOR, SPTY / SAT BRN STN, SCAT GILS STN W/SH - GY / RED

SH - GY / RED W/LS - CRM / WHT, F XLN, FOSS & OOL, P / SCAT F INTXLN POR, TR FOSSMOLD POR, SL / SCAT F SFO, SSGB, NO ODOR, SPTY BRN STN, SCAT GILS STN

LS - CRM / WHT, F / M XLN, FOSS & OOL, P / SCAT F INTXLN POR, TR VUG & PPT & FOSSMOLD POR, SL / SCAT F SFO, V FT ODOR, SPTY / SUBSAT BRN STN, SCAT GILS STN

SH - GY / RED W/LS - CRM / WHT, PRED F XLN, SCAT REXLN CALC, OOL & FOSS IN PT, PRED P INTXLN POR IN PT, SUBCHKY IN PT, SSFO & OILY FILM, NO ODOR, SPTY BRN STN IN PT, SPTY GILS STN IN PT (POR & SHOW IS POSS CAVINGS)

SH - GY / RED W/LS - TAN / BRN / GY, MOT IN PT, F XLN, FOSS, SCAT OOL, PRED DNS, SCAT GILS STN, NSFO, NO ODOR

LS - CRM / TAN / WHT, F XLN, SCAT REXLN CALC, OOL & FOSS, CHKY IN PT, PRED DNS, NS

LS - ASABOVE, NS W/SH - GY / RED / SCAT GRN, SLTY IN PT

SH & CLAY - RED / GY / GRN, GUMMY, SLTY

SLTST - RED / GRN / GY W/ SCAT SS - RED, SLT / VF GR W/ SH - RED / GY / GRN, SLTY IN PT

LS - LT GY / WHT, F XLN, MOD AMT REXLN CALC, SL FOSS, PRED DNS, NS W/SH - RED / GY

Vis: 53, Wt: 9.0, LCM: 1.5#

DST #1: 3728'-3750'
SEE DST HEADER FOR RESULTS

MUNCIE CREEK 3731 (-1436)

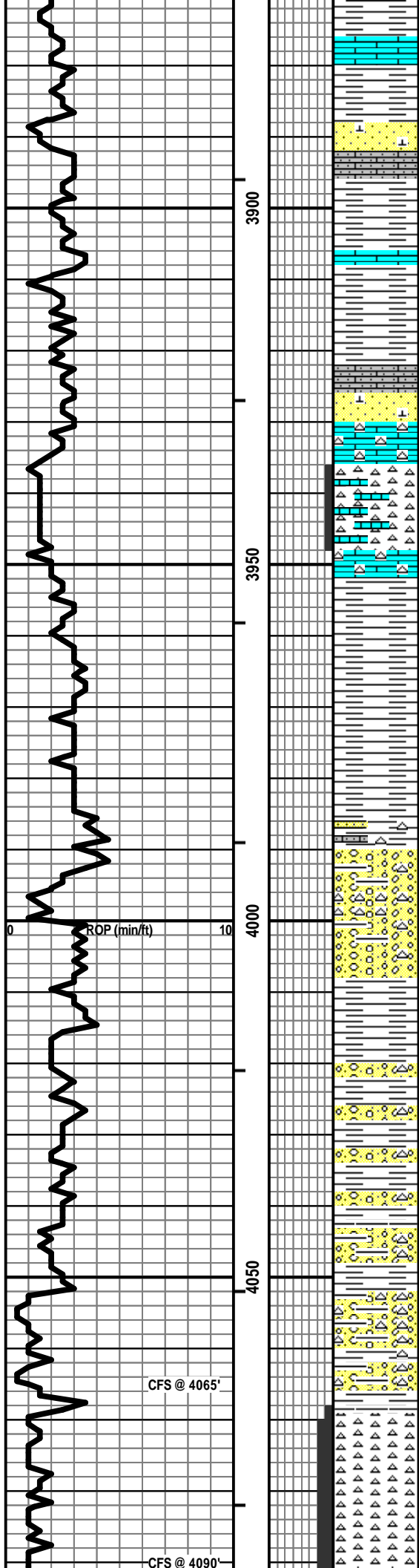
PIPE STRAP @ 3,750': LONG 1.77'

Vis: 52, Wt: 9.0, YP: 22,
GelS: 11/19, pH: 11.0, WL: 5.4,
Chl: 1,600, Sol: 4.9, LCM: 1#

DST #2: 3756'-3792'
SEE DST HEADER FOR RESULTS

Vis: 48, Wt: 9.1, YP: 24,
GelS: 12/15, pH: 10.5, WL: 5.4,
Chl: 1,700, Sol: 5.7, LCM: 1#

BASE OF KC 3832 (-1537)



ABNT SH - RED / GY W/ SCAT LS - LT GY/ WHT, V SIM TO ABOVE

SS - WHT / LT GY, VF GR, CALC, SCAT LS FRAG W/ SCAT LS - LT GY / WHT, F XLN, AREN W/ SH - RED

LS - ASABOVE W/ SH - RED / GY

ABNT SH - RED, GUMMY W/ SCAT LS - CRM, F XLN, FOSS, DNS, NS

ABNT SH - RED, GUMMY

LS - GY / WHT, F XLN, AREN, VF QTZ GR, SCAT FOSS, DNS, NS W/ SS - LT GY / SCAT WHT, VF GR, CALC, DNS

LS - GY / TAN, F XLN, AREN IN PT, DNS W/ ABNT CHT - ORG / WHT

ABNT CHT - ORG / TAN / WHT W/ LS - GY / TAN, F XLN, AREN IN PT, DNS, NS

SH - LT / MED GY

SH - PRED RED, GUMMY

SH - VARICOL, GUMMY

SH - VARICOL, GUMMY W/ SCAT CONGL.

SH CONGL: SH - VARICOL, GUMMY W/ LS - VARICOL, AREN IN PT, DNS W/ CHT - VARICOL W/ LRG QTZ GR - SUBANG / RND W/ SCAT SS - VARICOL, VF GR

SH CONGL - ASABOVE

SH - PRED GY & GRN, V GUMMY

SH & CONGL - WASHES BRICK RED

SH & CONGL - WASHES BRICK RED

SH & CONGL - WASHES BRICK RED W/ TR SS - LT GY, F GR, W SRTD, SUBRND / RND, CALC CEM

CHT / SH CONGL: ABNT CHT - VARICOL, PRED VIT W/ ABNT SH - RED, WASHES BRICK RED

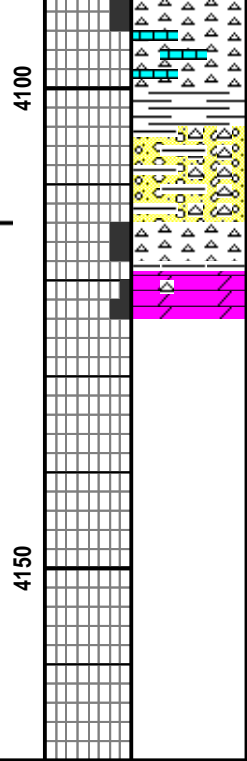
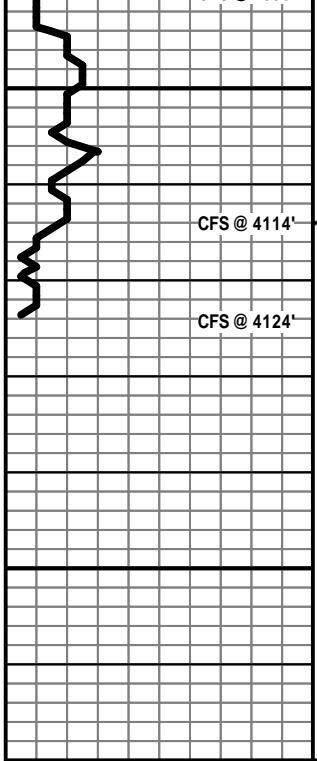
CHT - VARICOL, PRED VIT, 10% SL / MOD WEATH, PRED P POR, SL ARGIL, NS

Vis: 60, Wt: 9.2, LCM: 2#

Vis: 63, Wt: 9.2, LCM: 1#

Vis: 70, Wt: 9.3, LCM: 1#

BASAL CHERT 4069 (-1774)



CHT - VARICOL, VIT, NO VIS WEATH W/ SCAT LS - GY / TAN, F XLN, NS, NS

PRED SH - BRICK RED, GUMMY W/ CHT

CHT / SH CONGL: ABNT CHT - PRED VIT W/ SCAT LS - VARICOL, DNS W/ ABNT SH - VARICOL, WASHES BRICK RED

CHT - VARICOL, MOD / V WEATH IN PT, NS

DOLO - CRM, F XLN, CHTY IN PT, P / F POR, NS

ARBUCKLE 4119 (-1824)
TOTAL DEPTH 4124 (-1829)

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 3533

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-1-23	34	8	23	GARDEN CITY	KS		9:45pm

Location Hill City 15W T25S 13S

Lease	Well No.	Owner
E1110T		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		
LD		
Type Job		
SURFACE		
Hole Size	T.D.	Charge To
12 1/2	264	QUAIL OIL & GAS LLC
Csg.	Depth	Street
8 1/2		P.O. Box K
Tbg. Size	Depth	City
		GARDEN CITY
Tool	Depth	State
		KS 67846
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered
	15	170M Com 3-2

Meas Line	Displace
	15.6

EQUIPMENT

Pumptrk	No.	Cementer		Common
		Helper		
Bulktrk	No.	Driver		Poz. Mix
		Driver		
Bulktrk	No.	Driver		Gel.
		Driver		

JOB SERVICES & REMARKS

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

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

	Pumptrk Charge	
	Mileage	
		Tax
		Discount
		Total Charge

X Signature *[Signature]*



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Quail Oil & Gas

34-8S-23W Graham, KS

2005 N. Taylor Ave
PO Box K
Garden City, KS 67846
ATTN: Dave Goldak

Elliot #1

Job Ticket: 70369

DST#: 1

Test Start: 2023.05.07 @ 01:02:00

GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:03:48

Time Test Ended: 09:12:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Day

Unit No: 70

Interval: 3728.00 ft (KB) To 3750.00 ft (KB) (TVD)

Reference Elevations: 2995.00 ft (KB)

Total Depth: 3750.00 ft (KB) (TVD)

2990.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 6625 Inside

Press@RunDepth: 342.64 psig @ 3729.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.05.07 End Date: 2023.05.07

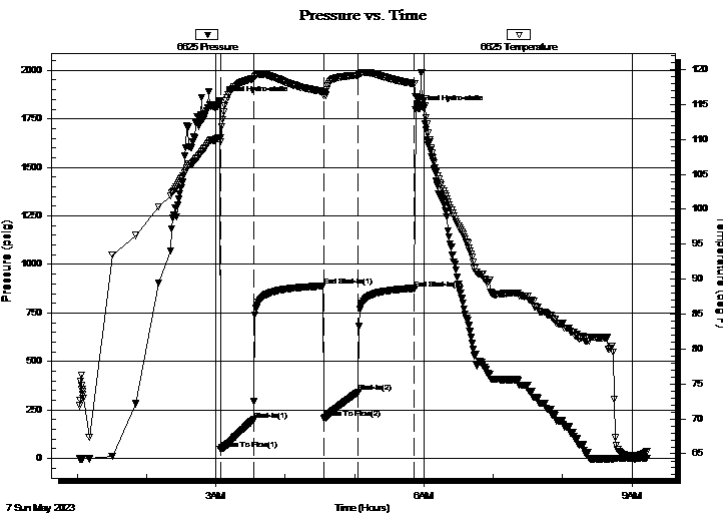
Last Calib.: 2023.05.07

Start Time: 01:02:05 End Time: 09:12:47

Time On Btm: 2023.05.07 @ 03:03:33

Time Off Btm: 2023.05.07 @ 05:52:47

TEST COMMENT: IF-30- BOB in 2 min, Built to 151.29"
SI1-60- BOB in 21 min after bled off, built to 18.86"
FF-30- BOB immediatly, built to 67.88"
SI2-



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1841.54	110.16	Initial Hydro-static
1	47.30	109.71	Open To Flow (1)
29	199.63	118.68	Shut-In(1)
90	888.63	116.86	End Shut-In(1)
90	208.46	116.65	Open To Flow (2)
120	342.64	119.17	Shut-In(2)
169	872.30	117.96	End Shut-In(2)
170	1796.24	116.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
928.00	GO 35% gas 65% oil	13.02
90.00	GHOCM 30% gas 30% oil 60% mud	1.26
0.00	1810' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Quail Oil & Gas

34-8S-23W Graham, KS

2005 N. Taylor Ave
PO Box K
Garden City, KS 67846
ATTN: Dave Goldak

Elliot #1

Job Ticket: 70369

DST#: 1

Test Start: 2023.05.07 @ 01:02:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 5.40 in³

Resistivity: ohm.m

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

36 deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
928.00	GO 35% gas 65% oil	13.017
90.00	GHOCM 30% gas 30% oil 60% mud	1.262
0.00	1810' GIP	0.000

Total Length: 1018.00 ft Total Volume: 14.279 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1# LCM

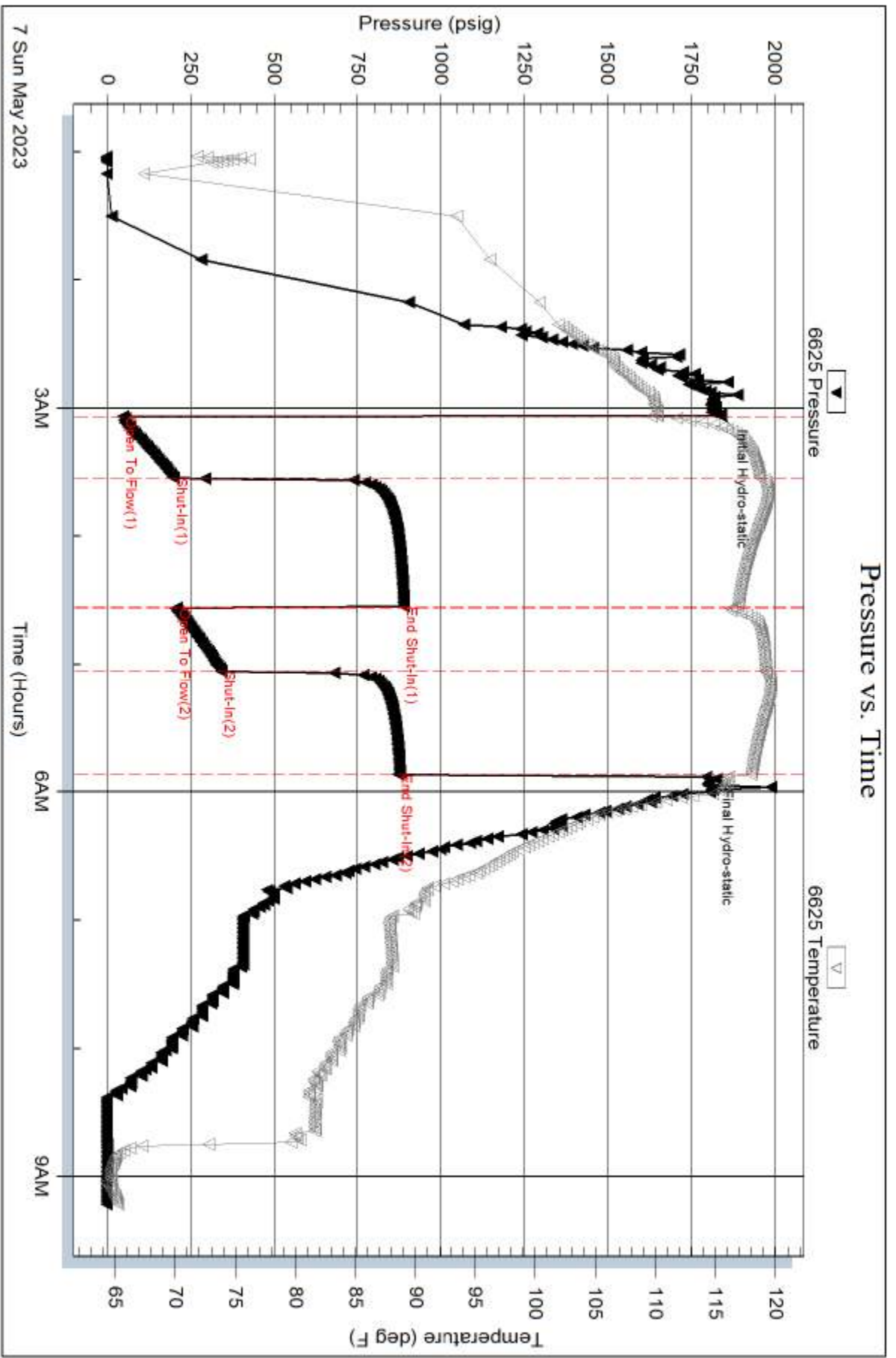
Serial #: 6625

Inside

Qual Oil & Gas

Elliot #1

DST Test Number: 1





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Quail Oil & Gas

34-8S-23W Graham, KS

2005 N. Taylor Ave
PO Box K
Garden City, KS 67846
ATTN: Dave Goldak

Elliot #1

Job Ticket: 70370

DST#: 2

Test Start: 2023.05.07 @ 18:40:00

GENERAL INFORMATION:

Formation: **LKC I&J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:38:45

Time Test Ended: 03:10:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3756.00 ft (KB) To 3792.00 ft (KB) (TVD)

Reference Elevations: 2995.00 ft (KB)

Total Depth: 3792.00 ft (KB) (TVD)

2990.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8645 Outside

Press@RunDepth: 323.17 psig @ 3757.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.05.07 End Date: 2023.05.08

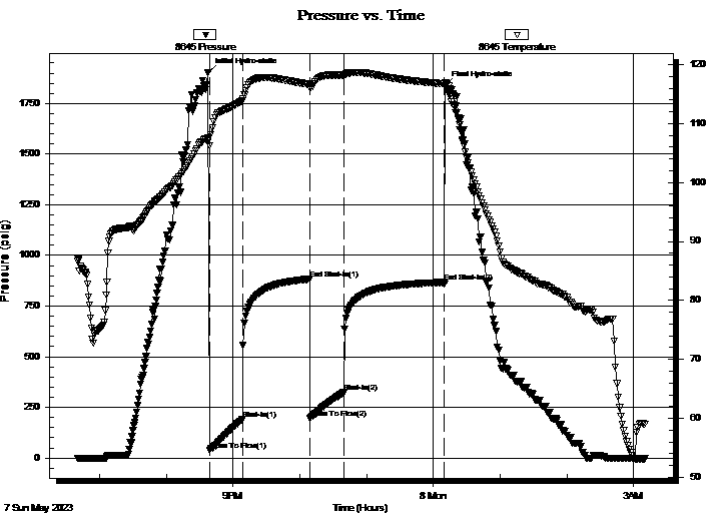
Last Calib.: 2023.05.08

Start Time: 18:40:05 End Time: 03:09:59

Time On Btm: 2023.05.07 @ 20:37:30

Time Off Btm: 2023.05.08 @ 00:10:30

TEST COMMENT: IF- BOB- in 3 min, built to 88.86"
SI1-60- Built to 4", died to 2"
FF-30- BOB in 7 min, built to 37.32"
SI2-90- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.30	107.52	Initial Hydro-static
2	39.06	106.24	Open To Flow (1)
31	190.83	113.85	Shut-In(1)
92	883.00	116.59	End Shut-In(1)
92	197.89	116.00	Open To Flow (2)
122	323.17	118.23	Shut-In(2)
213	867.08	116.72	End Shut-In(2)
213	1835.83	116.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SGO 2% gas 98% oil	0.14
898.00	HGO 40% gas 60% oil	12.60
95.00	HGOM 70% gas 15% oil 15% mud	1.33
0.00	53' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Quail Oil & Gas

34-8S-23W Graham, KS

2005 N. Taylor Ave
PO Box K
Garden City, KS 67846
ATTN: Dave Goldak

Elliot #1

Job Ticket: 70370

DST#: 2

Test Start: 2023.05.07 @ 18:40:00

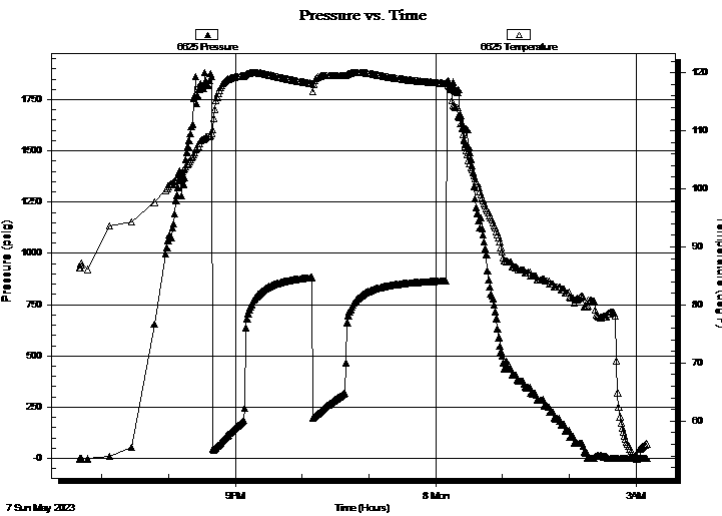
GENERAL INFORMATION:

Formation: **LKC I&J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:38:45
 Time Test Ended: 03:10:00
Interval: 3756.00 ft (KB) To 3792.00 ft (KB) (TVD)
 Total Depth: 3792.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Dustin Day
 Unit No: 70
 Reference Elevations: 2995.00 ft (KB)
 2990.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6625 Inside

Press@RunDepth: psig @ 3757.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.05.07 End Date: 2023.05.08 Last Calib.: 2023.05.08
 Start Time: 18:40:05 End Time: 03:09:44 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF- BOB- in 3 min, built to 88.86"
 S11-60- Built to 4", died to 2"
 FF-30- BOB in 7 min, built to 37.32"
 S12-90- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SGO 2% gas 98% oil	0.14
898.00	HGO 40% gas 60% oil	12.60
95.00	HGOM 70% gas 15% oil 15% mud	1.33
0.00	53' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Quail Oil & Gas

34-8S-23W Graham, KS

2005 N. Taylor Ave
PO Box K
Garden City, KS 67846
ATTN: Dave Goldak

Elliot #1

Job Ticket: 70370

DST#: 2

Test Start: 2023.05.07 @ 18:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

42 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SGO 2% gas 98% oil	0.140
898.00	HGO 40%gas 60% oil	12.597
95.00	HGOM 70% gas 15% oil 15% mud	1.333
0.00	53' GIP	0.000

Total Length: 1003.00 ft

Total Volume: 14.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

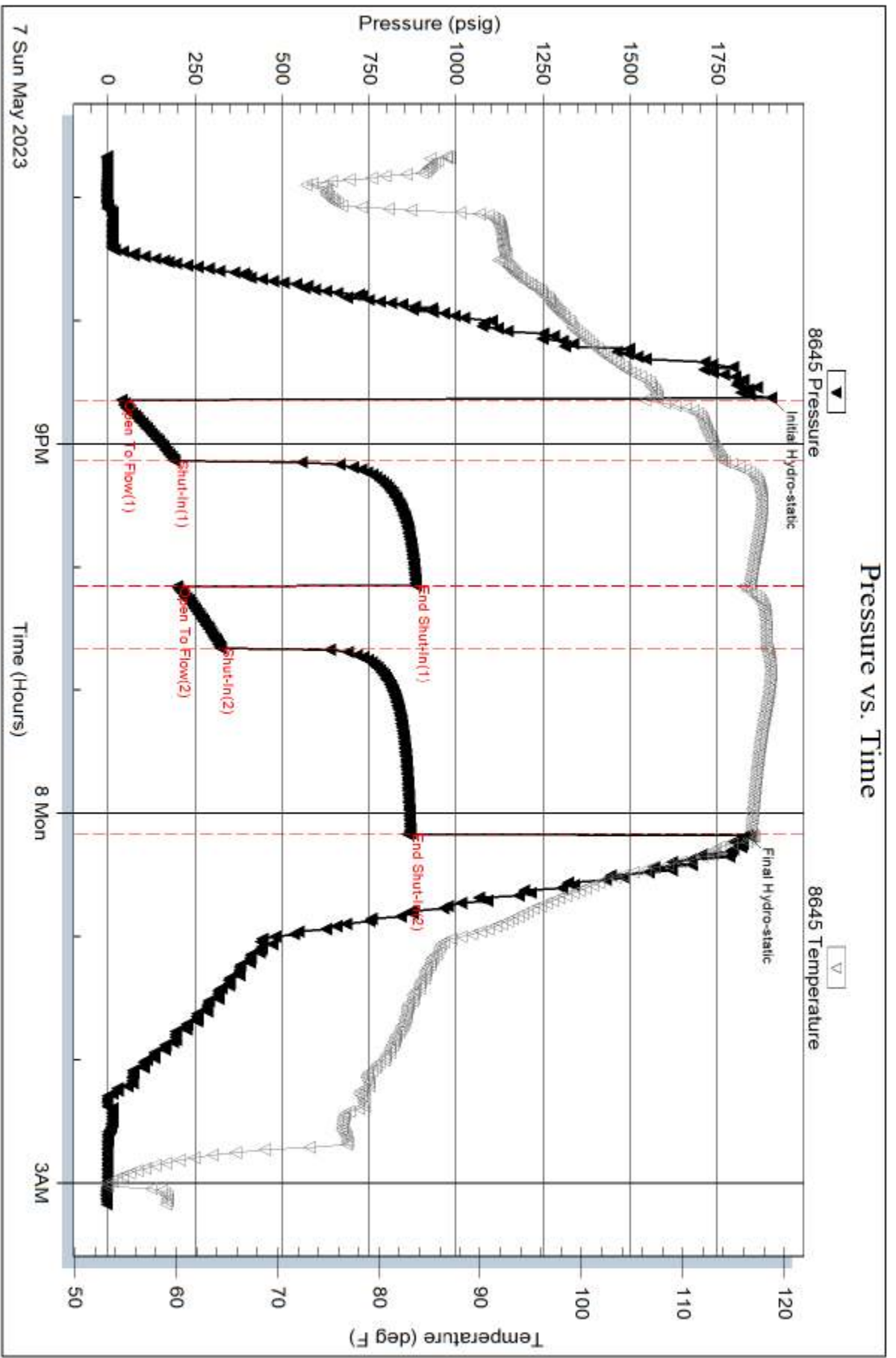
Recovery Comments: 1# LCM

Serial #: 8645

Outside Quail Oil & Gas

Elliot #1

DST Test Number: 2



Serial #: 6625

Inside

Qual Oil & Gas

Elliot #1

DST Test Number: 2

