

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	Landmark Resources, Inc.
Well Name	KISER 1-18
Doc ID	1449715

All Electric Logs Run

Borehole Compensated Sonic Log
Mircoresistivity Log
Dual Comp Porosity Log
Dual Induction Log

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	KISER 1-18
Doc ID	1449715

Tops

Name	Top	Datum
Anhydrite	2483	751
B/Anhydrite	2504	730
Topeka	3735	-501
Heebner	3971	-737
Toronto	3990	-756
Lansing	4019	-785
C	4058	-824
D	4074	-840
E	4105	-871
F	4114	-880
G	4130	-896
Muncie Creek	4180	-946
H	4188	-954
I	4224	-990
J	4249	-1015
Stark Shale	4268	-1034
K	4278	-1044
L	4319	-1085
BKC	4352	-1118
Marmaton	4418	-1184
Altamont	4451	-1217
Pawnee	4500	-1266
Myrick Station	4539	-1305
Fort Scott	4550	-1316

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	KISER 1-18
Doc ID	1449715

Tops

Name	Top	Datum
Cherokee	4574	-1340
Johnson Zone	4626	-1392
Morrow Shale	4712	-1478
Lower Morrow Sand	4753	-1519
Missippian	4768	-1534



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

71890

Customer:
LANDMARK RESOURCES INC
4900 WOODWAY DR
SUITE 880
HOUSTON, TX 77056

Invoice Date: 12/18/2018
Invoice #: 0050680
Lease Name: Kiser
Well #: 1-18 (New)
County: Wichita

Date/Description	HRS/QTY	Rate	Total
ICT1638 Surface	0.000	0.000	0.00
Heavy Eq Mileage	150.000	3.400	510.00
Light Eq Mileage	75.000	1.700	127.50
Ton Mileage	723.600	1.275	922.59
Cement pump #231	1.000	637.500	637.50
H-325	195.000	17.000	3,315.00
Cement Data Acquisition	1.000	212.500	212.50

Total 5,725.09

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



HURRICANE SERVICES INC

Customer	Landmark Resources	Lease & Well #	Kiser 1-18		Date	12/18/2018	
Service District	Oakley,KS	County & State	Wichita KS	Legals S/T/R	18-16-35	Job #	
Job Type	Surface	<input type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Ticket #
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures					
231	Paul	<input type="checkbox"/> Hard hat	<input type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
165/256	Kale	<input type="checkbox"/> H2S Monitor	<input type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
26	Travis	<input type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations		
		<input type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations		
		<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below			
Comments							
All cement and chaemicals came from Oakley service yard.							

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
M010	Heavy Equipment Mileage	mi	150.00	\$510.00
M015	Light Equipment Mileage	mi	75.00	\$127.50
M020	Ton Mileage	tm	723.60	\$922.59
C010	Cement Pump	ea	1.00	\$637.50
CP015	H-325	sack	195.00	\$3,315.00
C035	Cement Data Acquisition	job	1.00	\$212.50

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Total Taxable	\$ -	Tax Rate:		Net:	\$5,725.09
Based on this job, how likely is it you would recommend HSI to a colleague?		State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.		Safe Tax:	\$ -	Total:	\$ 5,725.09
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely	HSI Representative: <i>Travis Williams</i>					

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____

CUSTOMER AUTHORIZATION SIGNATURE



CEMENT TREATMENT REPORT

Customer: Landmark Resources	Well: Kiser 1-18	Ticket: ICT1638
City, State: Wichita Ks	County: Wichita	Date: 12/18/2018
Field Rep: Juan	S-T-R: 18-16-35	Service: Cement

Downhole Information	
Hole Size:	in
Hole Depth:	ft
Casing Size:	in
Casing Depth:	ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	bbbls

Slurry	
Weight:	14.8 # / sx
Water / Sx:	gal / sx
Yield:	1 2/5 ft ³ / sx
Bbls / Ft.:	
Depth:	270 ft
Volume:	bbbls
Excess:	%
Total Slurry:	50 bbbls
Total Sacks:	200 sx

Cement Blend		
Product	%	#
Class A	100.0	18800
Gel	2.0	376
CaCl	3.0	564

								Total	19,740
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TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
7:45 PM				Arrive					
7:50 PM				Safety meeting					
7:55 PM				Rig up					
9:40 PM				Rig runs casing					
10:45 PM				casing on bottom/ circulate					
10:55 PM	5.0	300.0	50.0	Mix 200 sks @1.41 yeild					
11:10 PM	4.0	200.0	16.0	Displace					
11:20 PM				End displacement/ shut in well					
11:30 PM				Wash up					
11:40 PM				Rig down					
11:55 PM				Depart					
				Cement to celler					

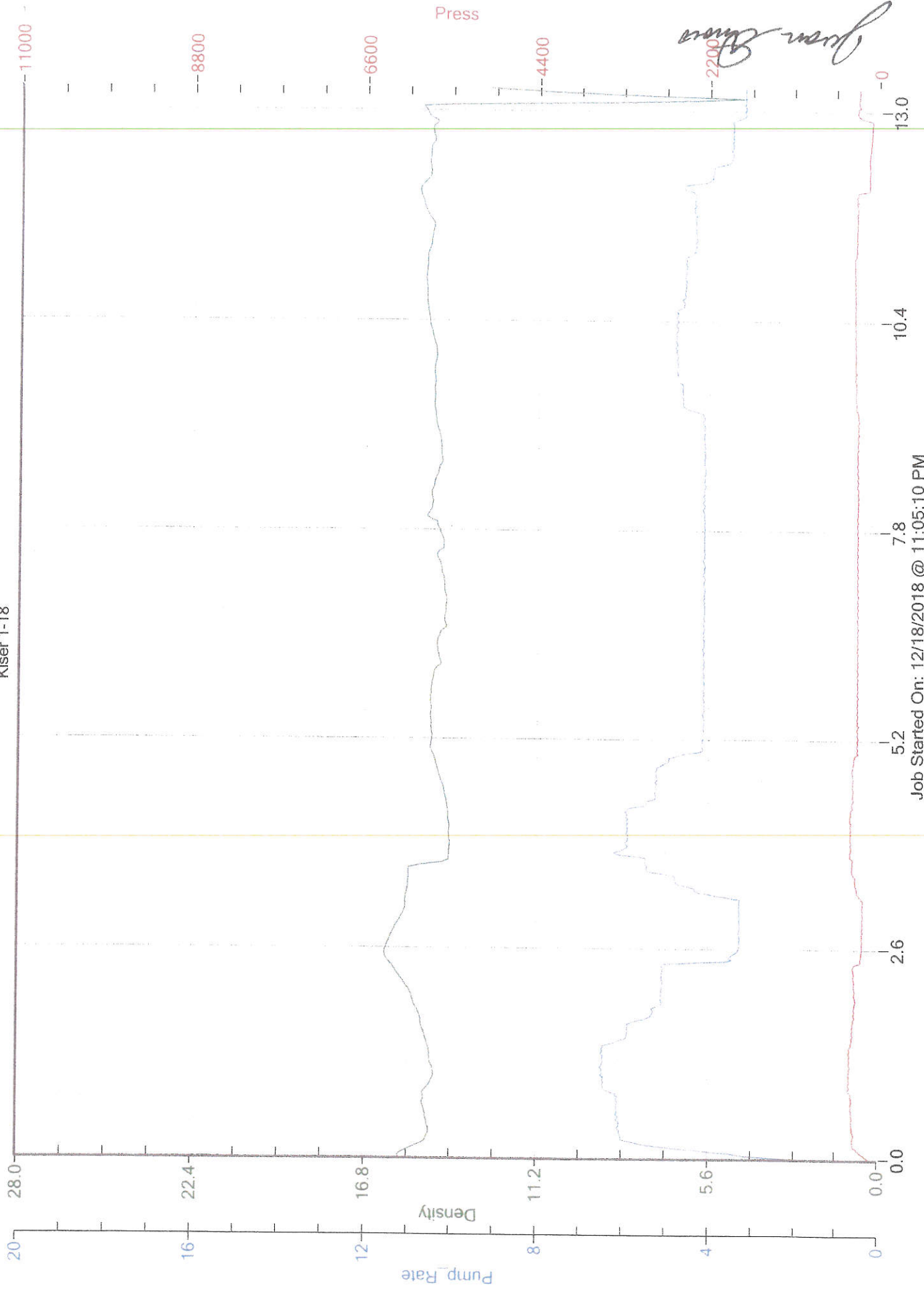
Juan Williams

CREW	UNIT
Cementer: Travis Williams	26.0
Pump Operator: Paul Williams	231.0
Bulk #1: Kale Ochs	165-256
Bulk #2:	

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.5 bpm	250.00 psi	66.00 bbbls

Landmark Resources

Kiser 1-18



Job Started On: 12/18/2018 @ 11:05:10 PM



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources, Inc**

4900 Woodway Dr. Ste. 880
Houston, TX 77056

ATTN: Terry McLeod

Kiser #1-18

18-16s-35w Wichita,KS

Start Date: 2018.12.31 @ 18:49:00

End Date: 2019.01.01 @ 03:40:45

Job Ticket #: 64447 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.01.04 @ 11:05:06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources, Inc

18-16s-35w Wichita, KS

4900 Woodway Dr. Ste. 880
Houston, TX 77056

Kiser #1-18

Job Ticket: 64447

DST#: 1

ATTN: Terry McLeod

Test Start: 2018.12.31 @ 18:49:00

GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:19:30

Time Test Ended: 03:40:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 4350.00 ft (KB) To 4370.00 ft (KB) (TVD)

Reference Elevations: 3234.00 ft (KB)

Total Depth: 4370.00 ft (KB) (TVD)

3223.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8522

Inside

Press@RunDepth: 1059.39 psig @ 4351.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.12.31

End Date:

2019.01.01

Last Calib.:

2019.01.01

Start Time: 18:49:05

End Time:

03:40:45

Time On Btm:

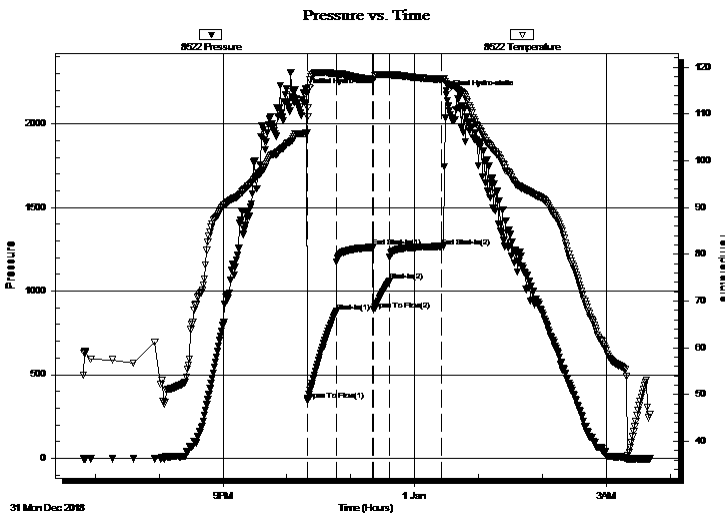
2018.12.31 @ 22:18:45

Time Off Btm:

2019.01.01 @ 00:30:00

TEST COMMENT: 30- IF: BOB @ 85 sec. built to 224".
30- IS: No return.
15- FF: BOB @ 85 sec. built to 82".
45- FSI: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2187.23	105.91	Initial Hydro-static
1	345.30	109.43	Open To Flow (1)
28	877.73	118.63	Shut-In(1)
62	1261.56	117.35	End Shut-In(1)
63	888.74	117.33	Open To Flow (2)
78	1059.39	118.38	Shut-In(2)
127	1266.89	117.36	End Shut-In(2)
132	2175.24	116.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2270.00	smcw 1m 99w	29.35

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources, Inc

18-16s-35w Wichita, KS

4900 Woodway Dr. Ste. 880
Houston, TX 77056

Kiser #1-18

Job Ticket: 64447

DST#: 1

ATTN: Terry McLeod

Test Start: 2018.12.31 @ 18:49:00

GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:19:30

Time Test Ended: 03:40:45

Interval: 4350.00 ft (KB) To 4370.00 ft (KB) (TVD)

Total Depth: 4370.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Reference Elevations: 3234.00 ft (KB)

3223.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8319 **Outside**

Press@RunDepth: psig @ 4351.00 ft (KB)

Start Date: 2018.12.31 End Date: 2019.01.01

Start Time: 18:49:05 End Time: 03:40:45

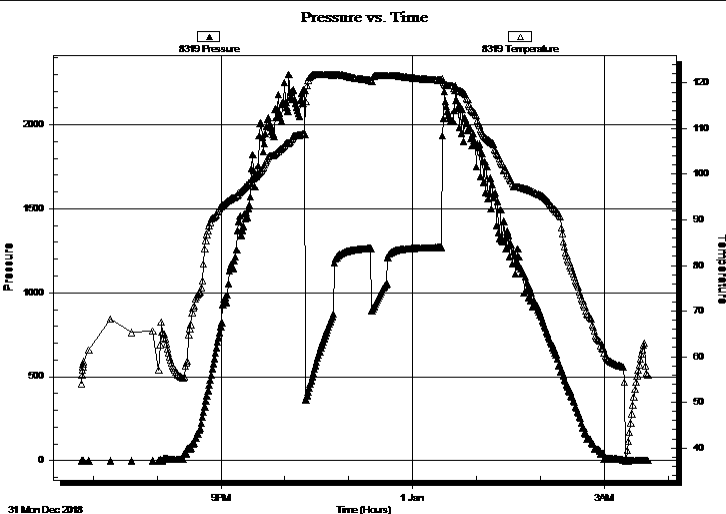
Capacity: 8000.00 psig

Last Calib.: 2019.01.01

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF: BOB @ 85 sec. built to 224".
30- IS: No return.
15- FF: BOB @ 85 sec. built to 82".
45- FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2270.00	smcw 1m 99w	29.35

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources, Inc

18-16s-35w Wichita,KS

4900 Woodway Dr. Ste. 880
Houston, TX 77056

Kiser #1-18

Job Ticket: 64447

DST#: 1

ATTN: Terry McLeod

Test Start: 2018.12.31 @ 18:49:00

Tool Information

Drill Pipe:	Length: 4080.00 ft	Diameter: 3.80 inches	Volume: 57.23 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: 274.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 58.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4350.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	47.00 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			4324.00	
Shut In Tool	5.00		Fluid	4329.00	
Hydraulic tool	5.00			4334.00	
Jars	5.00			4339.00	
Safety Joint	2.00			4341.00	
Packer	5.00		Inside	4346.00	27.00 Bottom Of Top Packer
Packer	4.00			4350.00	
Stubb	1.00			4351.00	
Recorder	0.00	8522	Inside	4351.00	
Recorder	0.00	8319	Outside	4351.00	
Perforations	16.00			4367.00	
Bullnose	3.00			4370.00	20.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources, Inc

18-16s-35w Wichita,KS

4900 Woodway Dr. Ste. 880
Houston, TX 77056

Kiser #1-18

Job Ticket: 64447

DST#: 1

ATTN: Terry McLeod

Test Start: 2018.12.31 @ 18:49:00

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:

63000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2270.00	smcw 1m 99w	29.346

Total Length: 2270.00 ft Total Volume: 29.346 bbl

Num Fluid Samples: 0

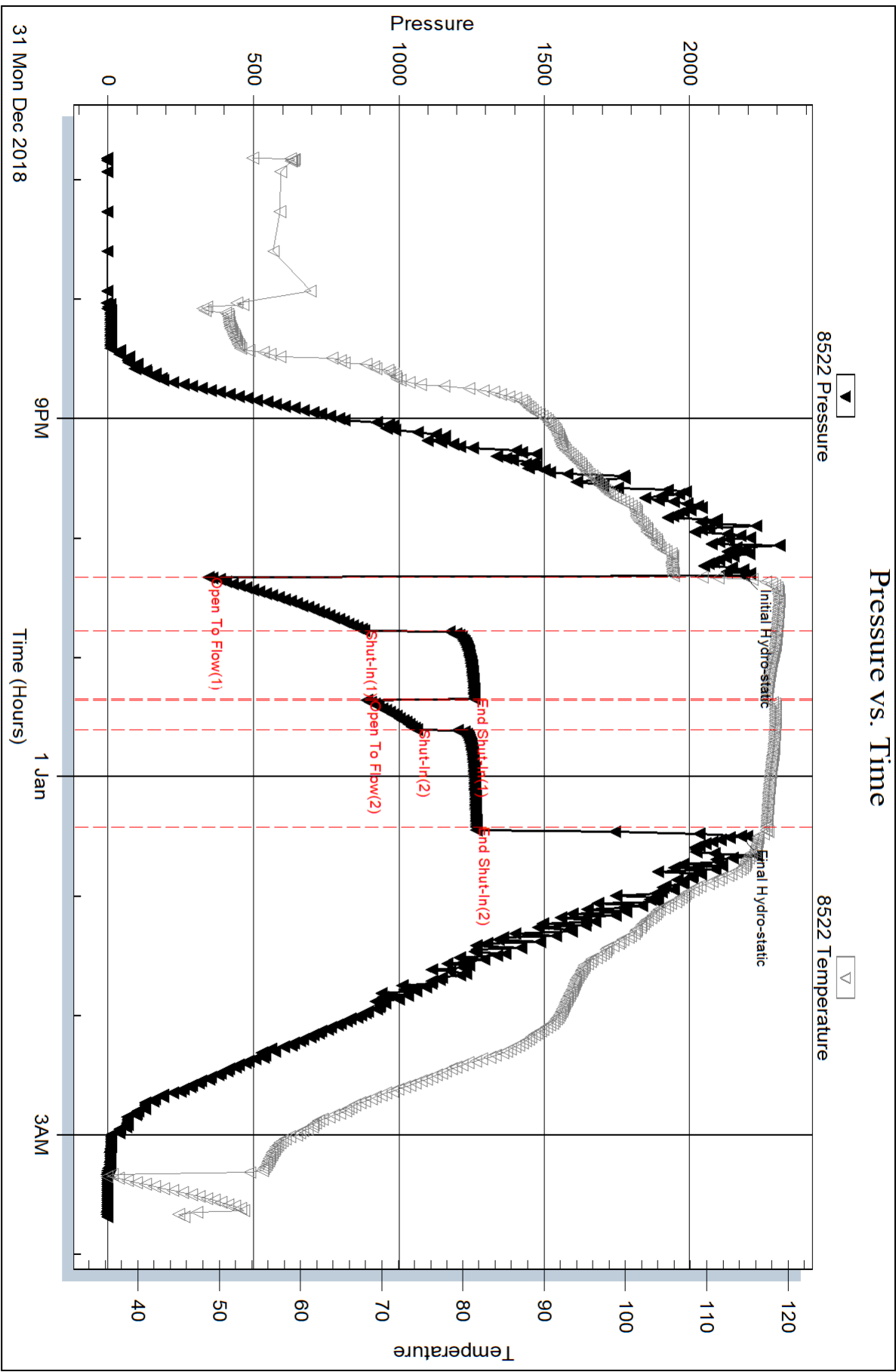
Num Gas Bombs: 0

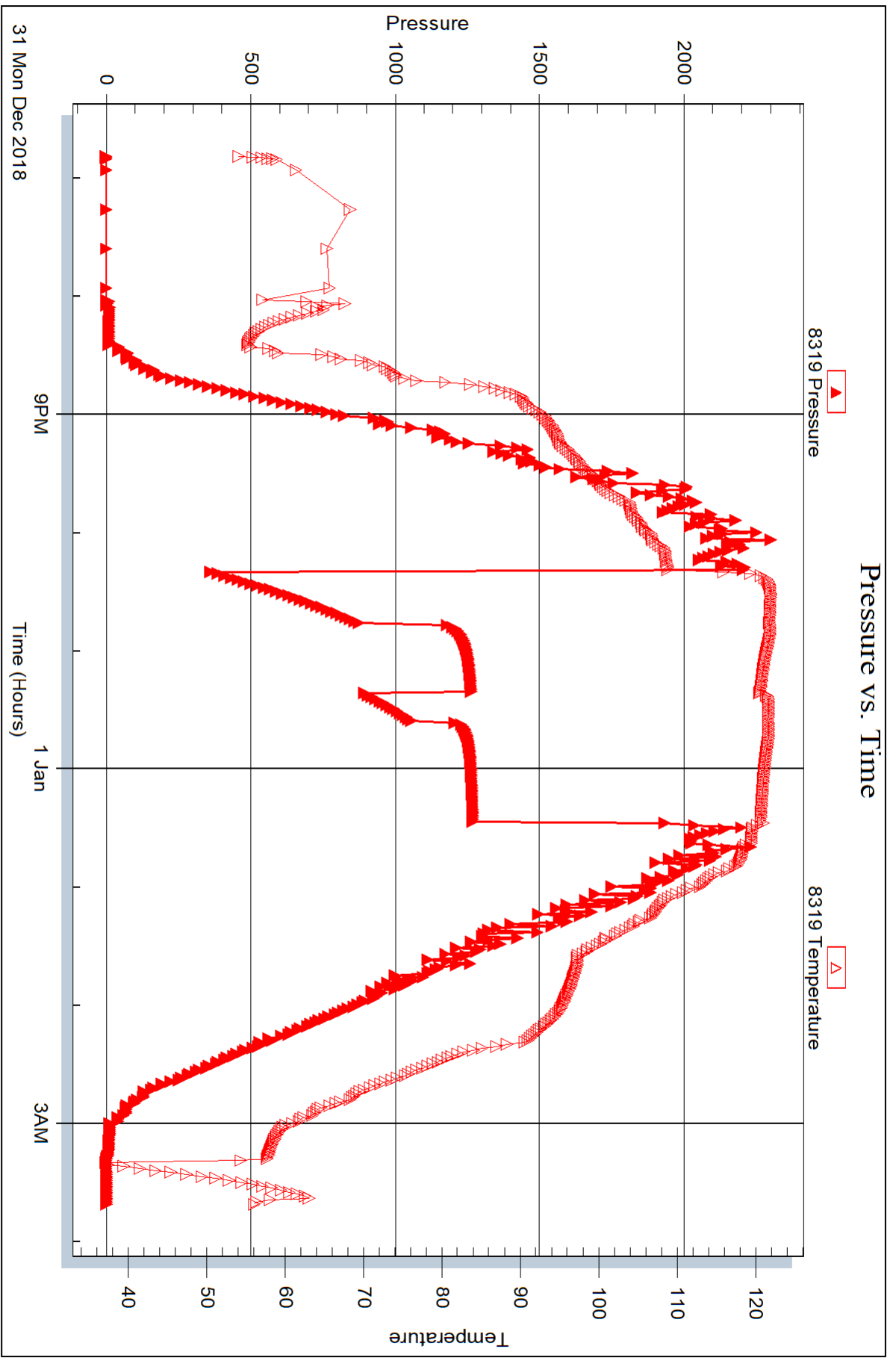
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .240 @ 35f = 63,000ppm







DRILL STEM TEST REPORT

Prepared For: **Landmark Resources, Inc**

4900 Woodway Dr. Ste. 880
Houston, TX 77056

ATTN: Terry McLeod

Kiser #1-18

18-16s-35w Wichita,KS

Start Date: 2019.01.02 @ 14:39:00

End Date: 2019.01.02 @ 21:58:15

Job Ticket #: 64448 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.01.04 @ 11:04:46



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources, Inc

18-16s-35w Wichita, KS

4900 Woodway Dr. Ste. 880
Houston, TX 77056

Kiser #1-18

Job Ticket: 64448

DST#: 2

ATTN: Terry McLeod

Test Start: 2019.01.02 @ 14:39:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:36:30

Time Test Ended: 21:58:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4411.00 ft (KB) To 4437.00 ft (KB) (TVD)

Reference Elevations: 3234.00 ft (KB)

Total Depth: 4437.00 ft (KB) (TVD)

3223.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8522 Inside

Press@RunDepth: 36.18 psig @ 4412.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.01.02 End Date: 2019.01.02

Last Calib.: 2019.01.02

Start Time: 14:39:05 End Time: 21:58:14

Time On Btm: 2019.01.02 @ 17:35:00

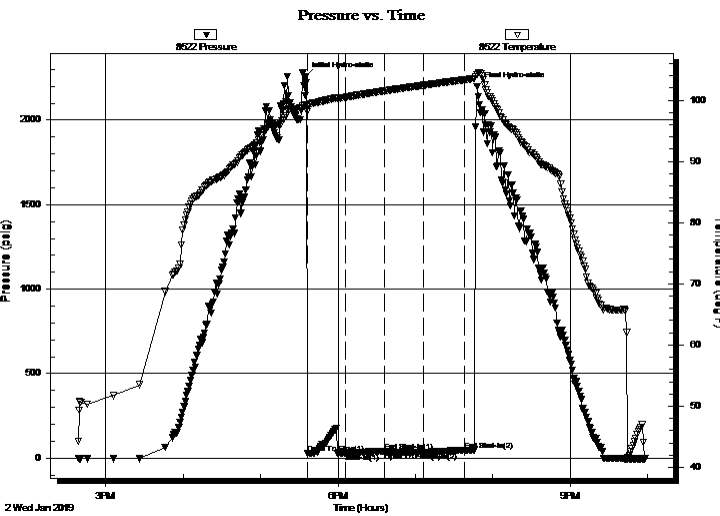
Time Off Btm: 2019.01.02 @ 19:47:45

TEST COMMENT: IF: Surface blow, died @ 20 min.

IS: No return.

FF: No blow

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2255.38	99.27	Initial Hydro-static
2	26.75	98.09	Open To Flow (1)
31	31.32	100.47	Shut-In(1)
61	42.63	101.50	End Shut-In(1)
61	33.47	101.50	Open To Flow (2)
91	36.18	102.42	Shut-In(2)
123	47.82	103.31	End Shut-In(2)
133	2196.75	104.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud 100m	0.20

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources, Inc
 4900 Woodway Dr. Ste. 880
 Houston, TX 77056
 ATTN: Terry McLeod

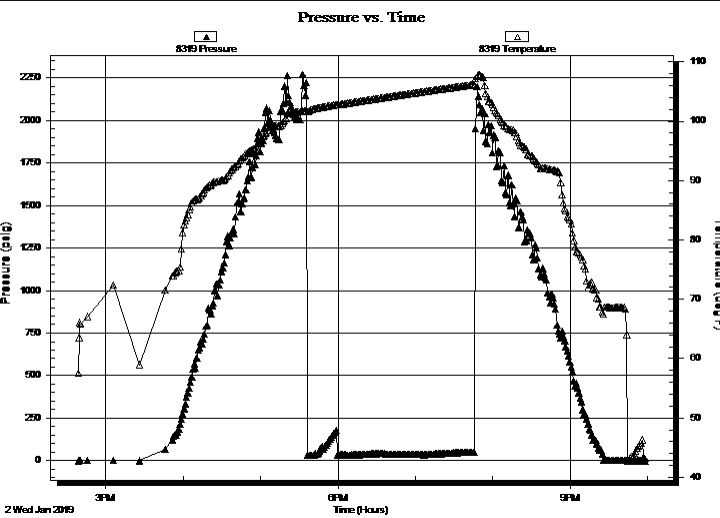
18-16s-35w Wichita, KS
Kiser #1-18
 Job Ticket: 64448 **DST#: 2**
 Test Start: 2019.01.02 @ 14:39:00

GENERAL INFORMATION:

Formation: Marmaton	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Bradley Walter
Time Tool Opened: 17:36:30	Unit No: 78
Time Test Ended: 21:58:15	Reference Elevations: 3234.00 ft (KB)
Interval: 4411.00 ft (KB) To 4437.00 ft (KB) (TVD)	3223.00 ft (CF)
Total Depth: 4437.00 ft (KB) (TVD)	KB to GR/CF: 11.00 ft
Hole Diameter: 7.88 inches Hole Condition: Good	

Serial #: 8319	Outside	Capacity: 8000.00 psig
Press@RunDepth: psig @ 4412.00 ft (KB)	Start Date: 2019.01.02	End Date: 2019.01.02
Start Time: 14:39:05	End Time: 21:58:14	Last Calib.: 2019.01.02
		Time On Btm:
		Time Off Btm:

TEST COMMENT: IF: Surface blow, died @ 20 min.
 IS: No return.
 FF: No blow
 FS: No return.



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

Recovery		
Length (ft)	Description	Volume (bbl)
40.00	mud 100m	0.20

* Recovery from multiple tests

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources, Inc

18-16s-35w Wichita, KS

4900 Woodway Dr. Ste. 880
Houston, TX 77056

Kiser #1-18

Job Ticket: 64448

DST#: 2

ATTN: Terry McLeod

Test Start: 2019.01.02 @ 14:39:00

Tool Information

Drill Pipe:	Length: 4145.00 ft	Diameter: 3.80 inches	Volume: 58.14 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: 274.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 59.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4411.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	53.00 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			4385.00	
Shut In Tool	5.00		Fluid	4390.00	
Hydraulic tool	5.00			4395.00	
Jars	5.00			4400.00	
Safety Joint	2.00			4402.00	
Packer	5.00		Inside	4407.00	27.00 Bottom Of Top Packer
Packer	4.00			4411.00	
Stubb	1.00			4412.00	
Recorder	0.00	8522	Inside	4412.00	
Recorder	0.00	8319	Outside	4412.00	
Perforations	22.00			4434.00	
Bullnose	3.00			4437.00	26.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources, Inc

18-16s-35w Wichita,KS

4900 Woodway Dr. Ste. 880
Houston, TX 77056

Kiser #1-18

Job Ticket: 64448

DST#: 2

ATTN: Terry McLeod

Test Start: 2019.01.02 @ 14:39:00

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	mud 100m	0.197

Total Length: 40.00 ft Total Volume: 0.197 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

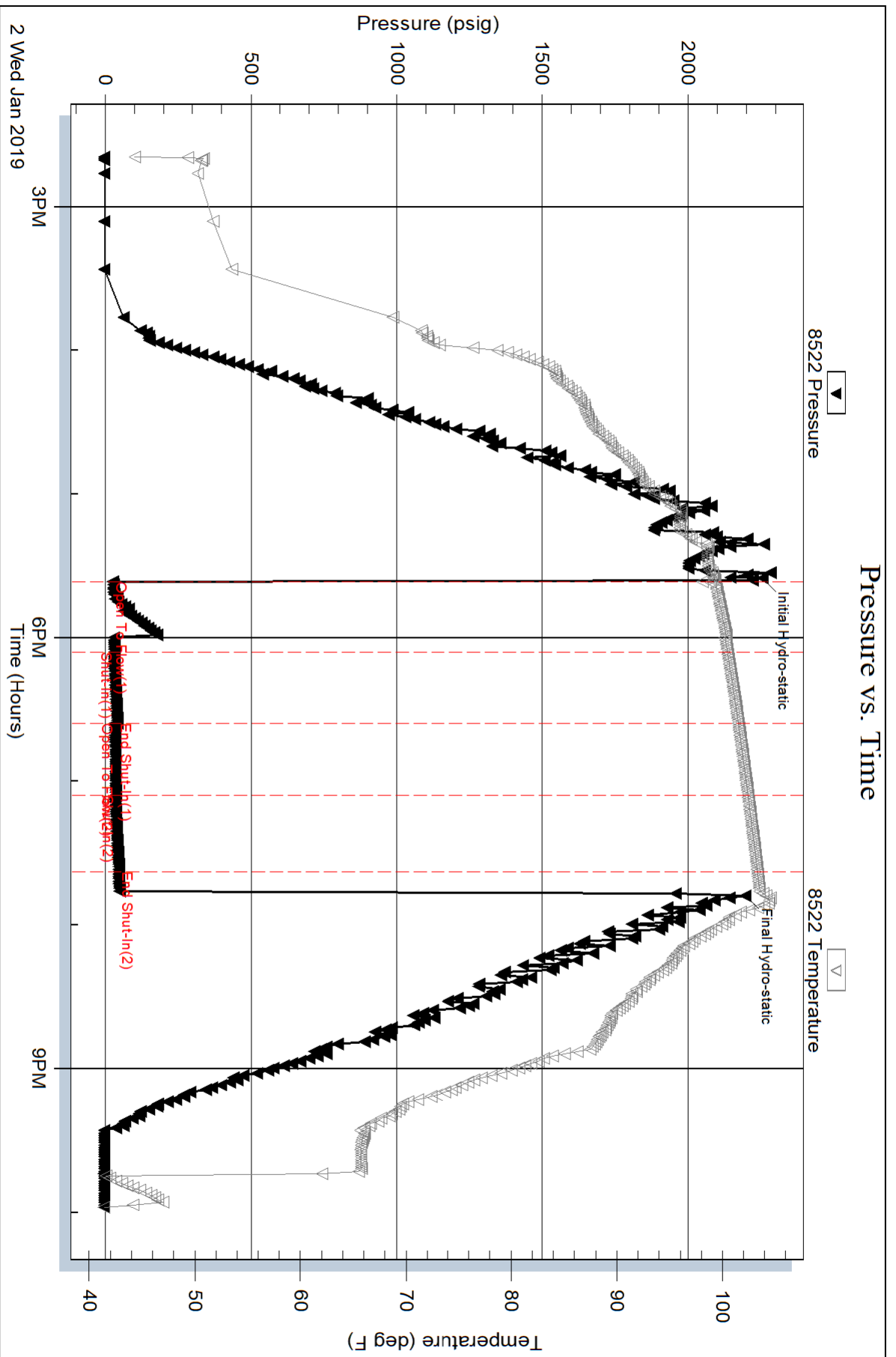
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Inside

Landmark Resources, Inc

Kiser #1-18

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64448

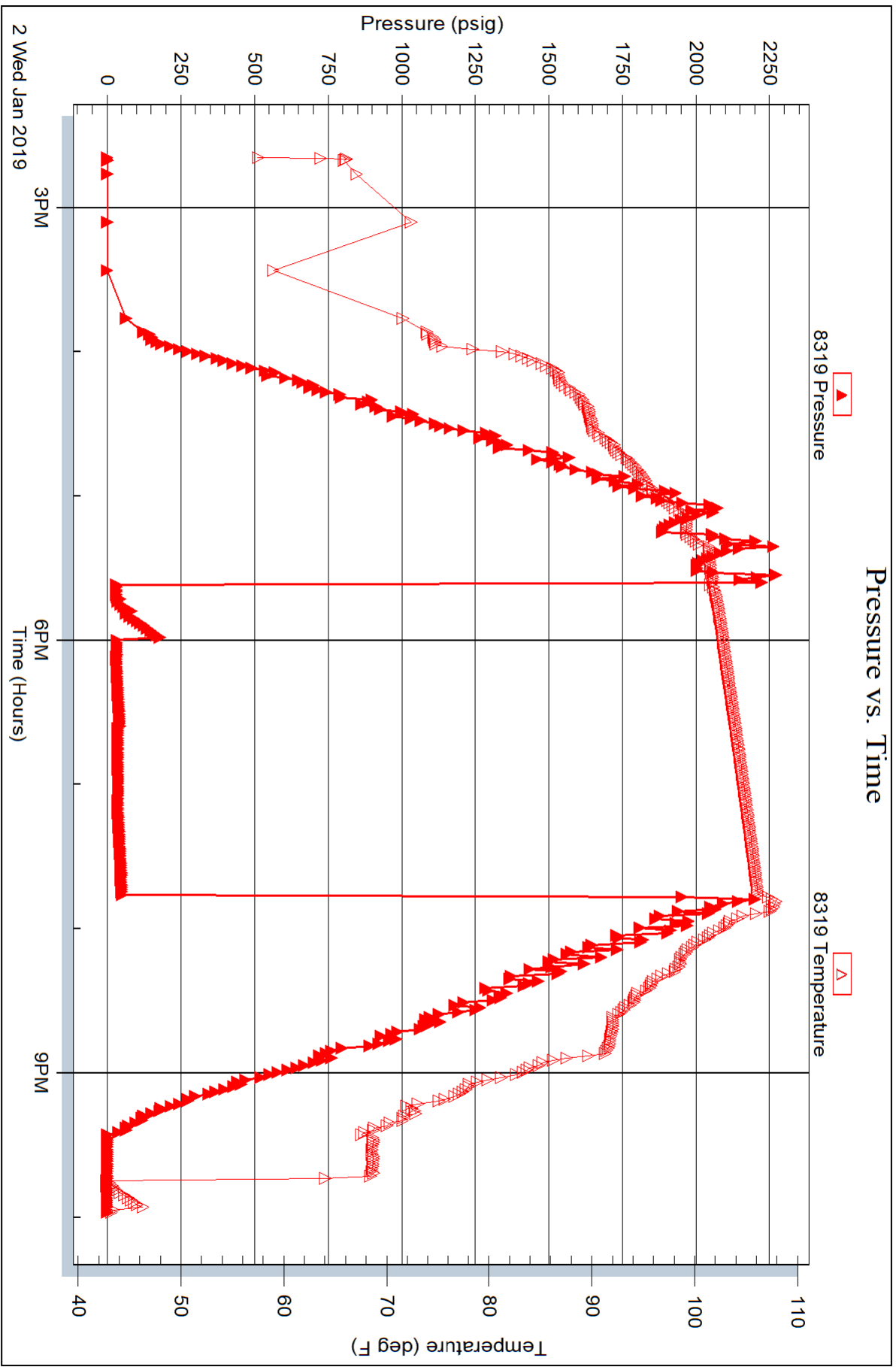
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Serial #: 8319

Outside Landmark Resources, Inc

Kiser #1-18

DST Test Number: 2





TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64447

Well Name & No. Kiser #1-18 Test No. 1 Date 1/1/2019
 Company Landmark Resources, INC Elevation 3234 KB 3223 GL
 Address 4900 Woodway Dr Ste 880 Houston, Tx 77056
 Co. Rep / Geo. Terry McLead Rig Murfin #21
 Location: Sec. 18 Twp 16s Rge. 35 w Co. Wichita State Ks

Interval Tested 4350-4370 Zone Tested Pleasanton
 Anchor Length 20' Drill Pipe Run 4080 Mud Wt. 9.2
 Top Packer Depth 4345 Drill Collars Run 274 Vis 54
 Bottom Packer Depth 4350 Wt. Pipe Run 0 WL 7.2
 Total Depth 4370 Chlorides 5000 ppm System LCM 4#

Blow Description JF! BOB @ 85 sec built to 224"
ISI! No return.
FF! BOB @ 85 sec built to 82"
FGI! No return.

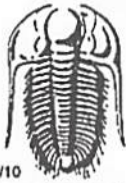
Rec	Feet of	%gas	%oil	%water	%mud
<u>2270</u>	<u>SACW</u>			<u>1</u>	<u>99</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2270 BHT 117 Gravity — API RW 1240 @ 35 °F Chlorides 63,000 ppm
 (A) Initial Hydrostatic 2187 2218 Test 1150 T-On Location 1800
 (B) First Initial Flow 345 327 Jars 250 T-Started 1849
 (C) First Final Flow 877 661 Safety Joint 75 T-Open 2219
 (D) Initial Shut-In 1262 1375 Circ Sub N/C T-Pulled 0019
 (E) Second Initial Flow 888 775 Hourly Standby _____ T-Out 0341
 (F) Second Final Flow 1059 923 Mileage 62 RT 62 Comments _____
 (G) Final Shut-In 1266 1370 Sampler _____
 (H) Final Hydrostatic 2175 2064 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 45
 Sub Total 1537
 Total 1537
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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. 64448

Well Name & No. Kiser # 1-18 Test No. 2 Date 1/2/2019
 Company Landmark Resources, Inc Elevation 3234 KB 3223 GL
 Address 4900 Woodway Dr Ste 850 Houston, Tx 77056
 Co. Rep / Geo. Terry McLead Rig Martin 21
 Location: Sec. 16 Twp 16S Rge. 35W Co. Wichita State Ks

Interval Tested 444 - 4437 Zone Tested Marmaton - Pawnee
 Anchor Length 26' Drill Pipe Run 4145 Mud Wt. 8.9
 Top Packer Depth 4406 Drill Collars Run 274 Vis 67
 Bottom Packer Depth 4411 Wt. Pipe Run 0 WL _____
 Total Depth 4437 Chlorides 7000 ppm System LCM 5#
 Blow Description IF: Surface blow, died @ 20 min.
ISF: No return.
FF: No blow
FBI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic <u>2255</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1500</u>
(B) First Initial Flow <u>27</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1539</u>
(C) First Final Flow <u>31</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1735</u>
(D) Initial Shut-In <u>47</u>	<input checked="" type="checkbox"/> Circ Sub <u>4/c</u>	T-Pulled <u>1935</u>
(E) Second Initial Flow <u>33</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2158</u>
(F) Second Final Flow <u>36</u>	<input checked="" type="checkbox"/> Mileage <u>62 Rt x 2</u> 62+62	Comments <u>PU Tools</u>
(G) Final Shut-In <u>48</u>	<input type="checkbox"/> Sampler _____	<u>0900 1/4/2019</u>
(H) Final Hydrostatic <u>2197</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1599</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1599</u>	

Approved By _____ Our Representative [Signature]
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25-16s-35w-999
CRD NO.

00-16s-35w
DMT NO.

PRO-STAKE

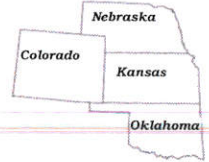
Construction Site Staking



LLC

14069

INVOICE NO.



P.O. Box 2324 Garden City, Kansas 67846
Office/Fax: (620) 276-6159 – Cell: (620) 272-1499
burt@prostakellc.com

Landmark Resources, Inc.
OPERATOR

Wichita County, KS
COUNTY

Kiser #1-18
LEASE NAME

1085' FSL - 1315' FEL
LOCATION SPOT

3223.0'
GR ELEVATION

38.659697088
NAD 83 LAT

101.225252824
NAD 83 LONG

18 16s 35w
Sec. Twp. Rng.

SCALE: 1" = 1000'
DATE STAKED: November 26th, 2018
MEASURED BY: Pierce R.
DRAWN BY: Pierce R.
AUTHORIZED BY: Becky P.
DATE REVISED:



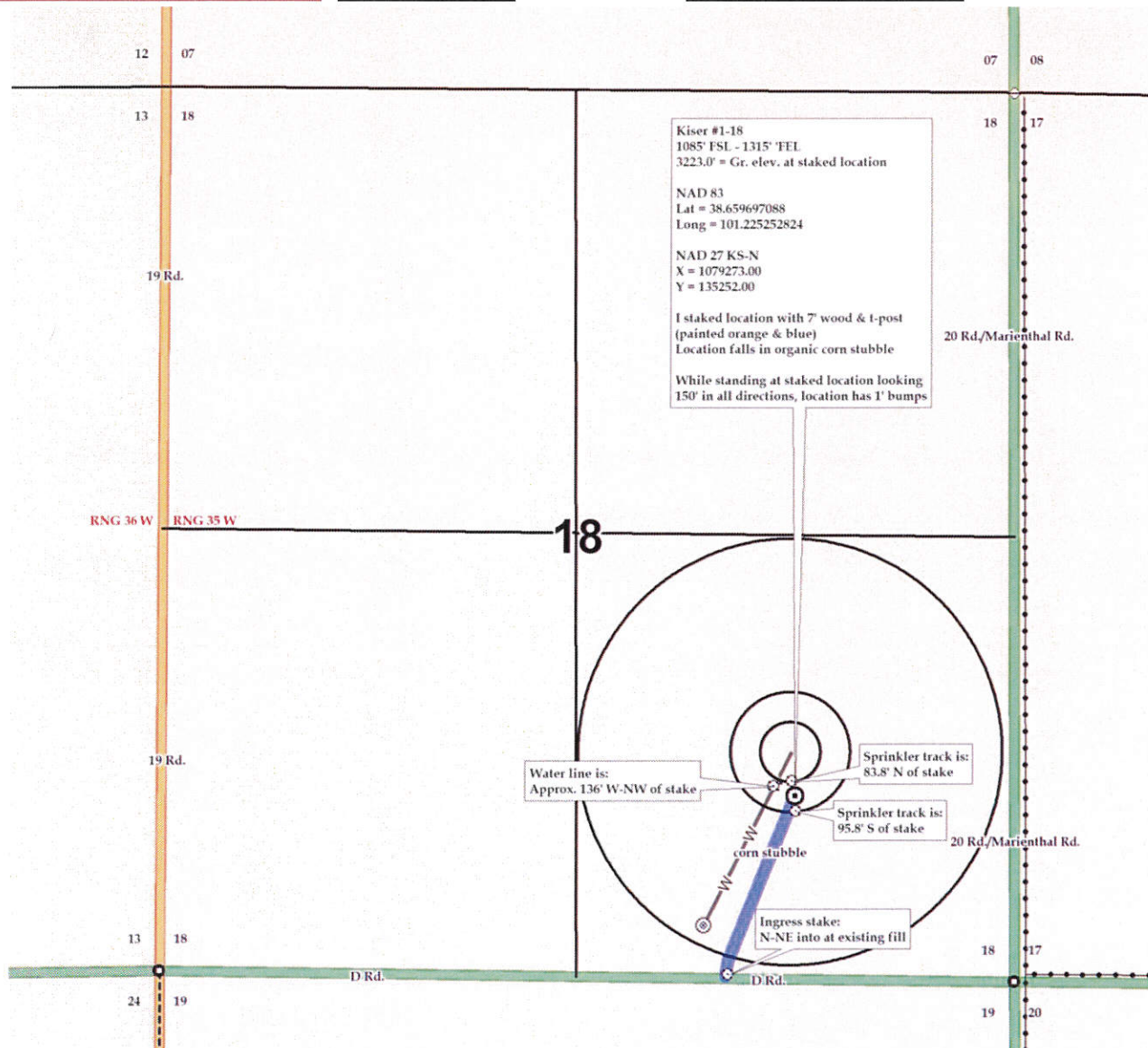
LEGEND

- ⊙ irr. well
- ⊕ water hydrant
- ⊖ tank battery
- ⊗ staked loc.
- ⊙ prod. well/aband. well
- house
- building
- G— gas line
- W— water line
- E— transmission powerline
- 3 phase powerline
- * * * single phase powerline
- x-x-x- fence
- ▬ gravel/ sand rd.
- ▬ gravel trail/ lease rd.
- ▬ dirt rd.
- ▬ dirt trail/ lease rd.
- ▬ Hwy/ blacktop rd.

DIRECTIONS: From Pence, KS at the intersection of Rd.270/D Rd. & Cherokee Rd. – Now go 8 miles West on Rd. 270/D Rd. to the SE corner of section 18-16s-35w – Now continue approx. 0.3 miles West on D Rd. to ingress stake N-NE into at existing fill – Now go approx. 0.2 miles N-NE through irrigated organic corn stubble into staked location

Final ingress must be verified with landowner or operator.
This drawing does not constitute a monumented survey or a land survey plat.
This drawing is for construction purposes only.

LANDOWNER/CONTACT: Marvel Brand: 620-214-3459 Karlen Koehn (tenant): 620-874-4496





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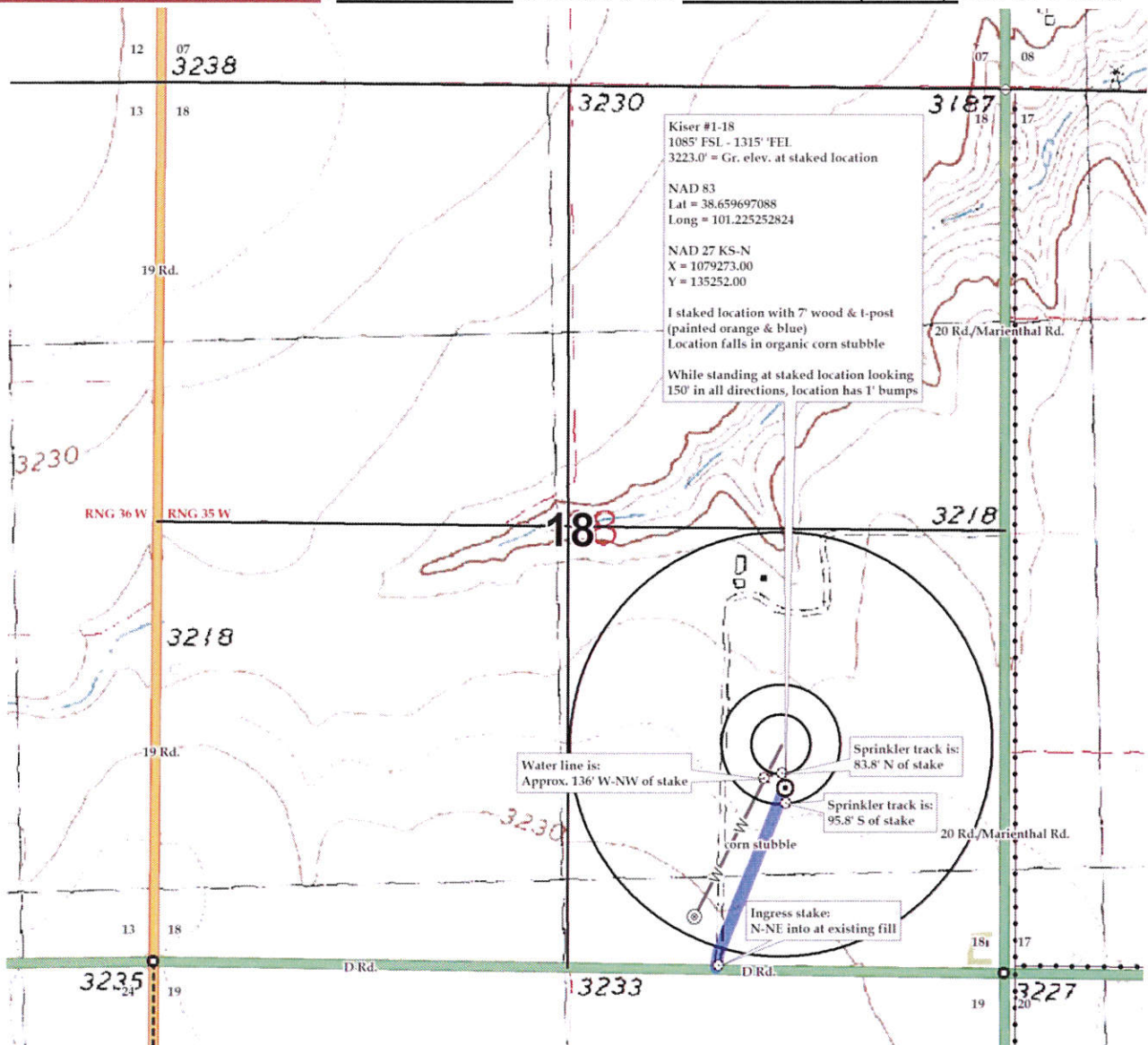
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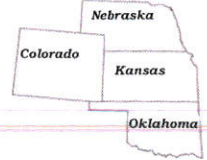
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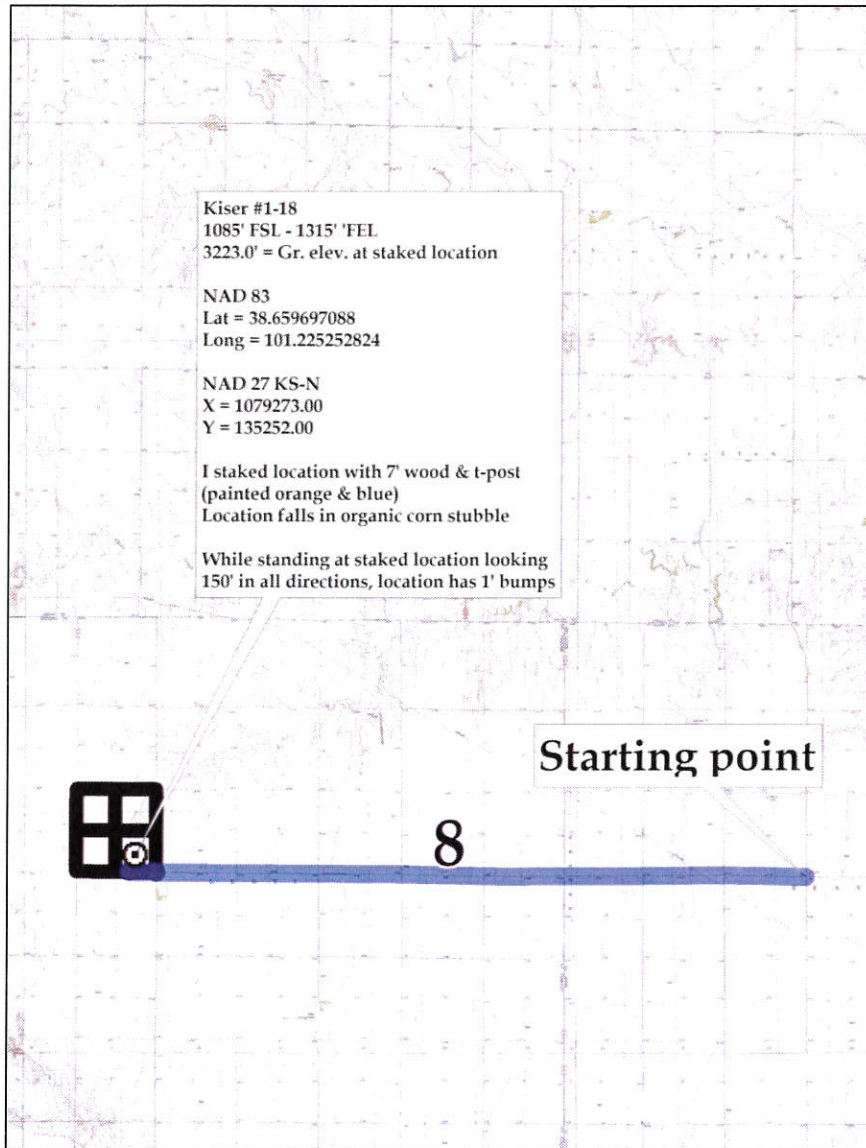
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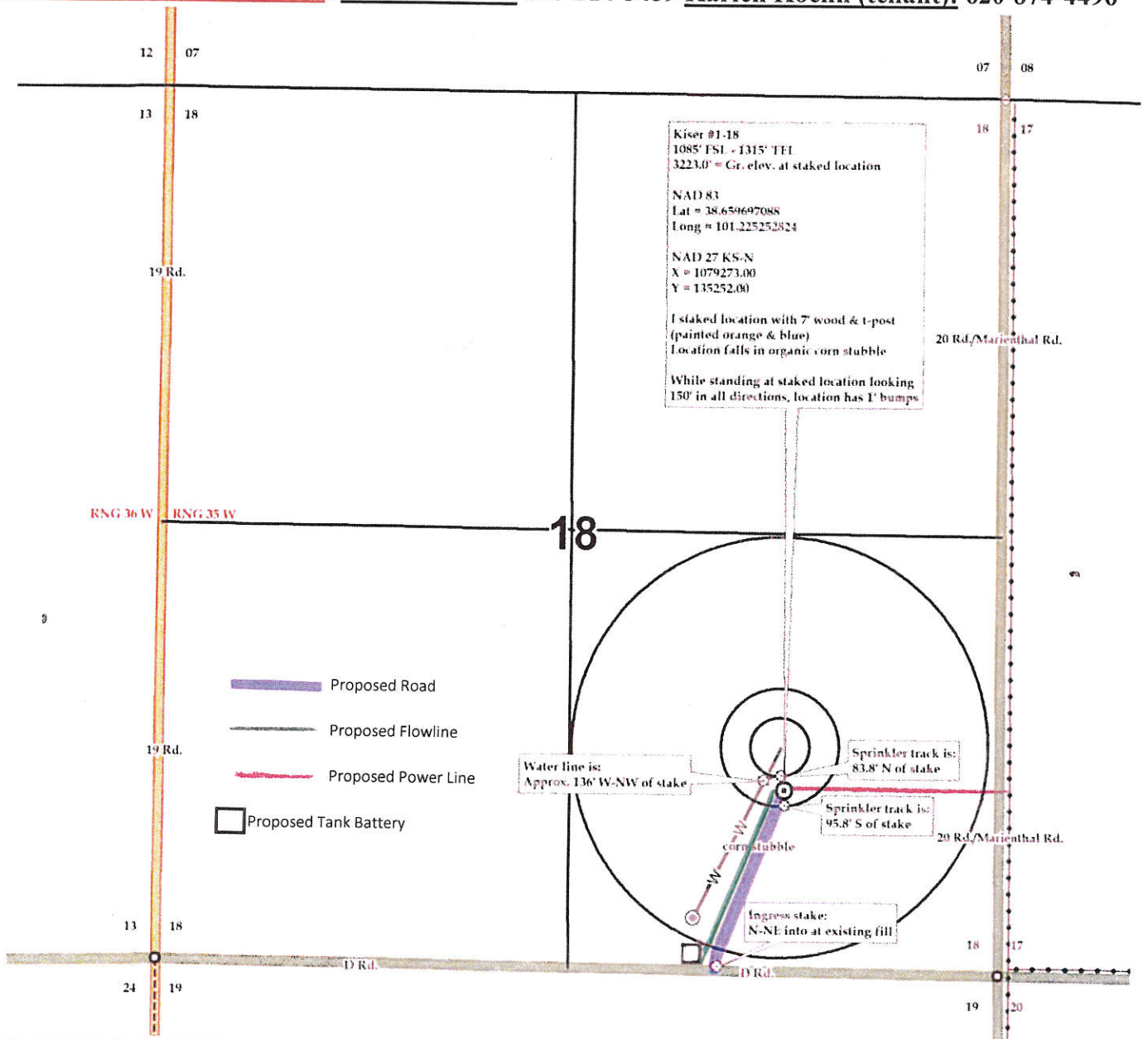
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Untitled Map

Write a description for your map.

Legend

- Kiser #1-18

○
Kiser #1-18

20

