

HABIGER 18-2

API # 15-159-22842-00-00

Operator: Stratakan Well Name & No: Habiger 18-2
 Location: 2310 FNL & 330 FEL Section 18-18s-9w County: Rice State: Kansas
 Rig No.: 14 Contractor: WW Drilling, LLC Tool Pusher: Josh Shaw 978-839-0425
 Drill Collars: 18 Size 6.26 x 2.25 Rig Phone: 785-259-6941
 Make Pump: EmSCO 500 Liner & Stroke: 6x15 Spud 2/25/17 @ 2:15 PM
 Approx. TD: 3500 Elevation: 1,736 G.L. 1747 KB Hole Complete: _____
 Mud Co.: Andys Mud Engineer: Dennis Water _____

Date	02/25/17	02/26/17	02/27/17	02/28/17	04/29/17	04/30/17			
Days	1-spud	2-woc	3-Drlg	4-Drlg	5-TIHW/bit	6-Done			
Depth		449	2030'	3050	3262	3340			
Ft. Cut		449	1581'	1020	212	78			
D.T.			21	23.25					
D.T.			0	NA					
C.T.		5.5 woc	2.5 woc	NA	16.25	22.25	3.25		
Bit Wt.	all	20,000	35,000	38,000	38,000	38,000			
RPM	100	120	85	85	85	85			
Pressure	450	600	1000	1000	1100	1100			
SPM	60	60	60	60	60	60			
Mud Cost			NA	6583	8967	10,243			
Mud Wt.		9.6	9.4	9.4	9.5	9.6			
Viscosity		34	30	52	54	48			
Water Loss			NA	7.2	7.2	8.8			
Chlorides			NA	1800	5000	6000			
L.C.M.		1#	NA	2 #	2#	2#			
Dev. Sur		.25°-449	NA	NA	2.5°-3262				
Dev. Sur			NA	NA					
Fuel		3645	3078	2511	1944	1539			
Water-Pit		4'	3/4 Full	Full	3'	2'			
ACC Bit Hrs.			21	44.25	51.75	53.5			
Formation	sd-sh	sd-sh	sd-sh	sh-lm	sh-lm	sh-lm			
Weather	Cloudy	Cloudy	Cloudy	Cloudy	Rain	Rain			

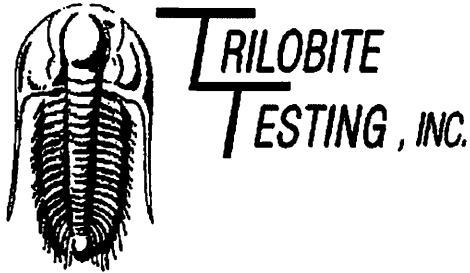
No.	Size	Type	Out	Ft.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops
1	12 1/4	Sm-tooth	449	449	8.75	8.75	RR	8002	
2	7 7/8	V-HE21PV	3340	2891	53.5	62.25	New	1474414	
3									
4									

DEPTH	SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	DRILLED OUT	REMARKS
449	8 5/8	200	Common, 3% cc & 2% gel	1:30 AM	9:30 AM	Quality-Did circulate
86 jts						
3337	5 1/2"	130	QproC	6:15 AM	10:15 AM	Quality

NO	INTERVAL	OPEN	SHUT	OPEN	SHUT	RECOVERY
1	3230'-3262'	45	30	45	30	70' GIP 140' CO 155' OM
2						
3						
4						
5						
6						
7						
8						
9						

Surface Casing Furnished by: Smith Supply: tallied @ 435 set @ 449

Remarks: Strap & weld surface by WW Drilling(Nathaniel).Anhydrite 413'-431'. Displaced @ 413'-431',(500bbls) Short trip @ 3205' (41 stands) 2 hrs. Pioneer logged (LTD 3340) 4.5 hrs. Ran 86 joints of 5 1/2" casing set @ 3337' cemented with 130 sx of QproC by Quality cementing. Plug down @ 6:15 am, Released rig @ 10.15 am 4/30/2017.



DRILL STEM TEST REPORT

Prepared For: **Stratakan Exploration LLC**

204 W Mill St
Plainville, KS 67663

ATTN: Justin Prater

Habiger #18-2

18-18S-9W Rice,KS

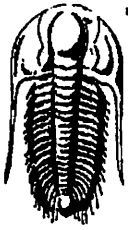
Start Date: 2017.04.29 @ 01:06:00

End Date: 2017.04.29 @ 07:00:30

Job Ticket #: 64777 DST #: 1

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

Printed: 2017.05.01 @ 13:24:05



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Exploration LLC

18-18S-9W Rice, KS

204 W Mill St
Plainville, KS 67663

Habiger #18-2

Job Ticket: 64777

DST#: 1

ATTN: Justin Prater

Test Start: 2017.04.29 @ 01:06:00

GENERAL INFORMATION:

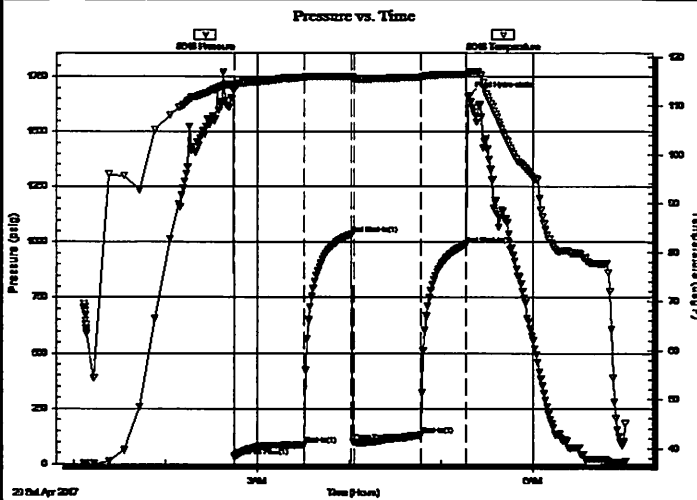
Formation: **Arbuckle**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 02:45:00
 Time Test Ended: 07:00:30
 Interval: **3230.00 ft (KB) To 3262.00 ft (KB) (TVD)**
 Total Depth: **3262.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Ken Swinney**
 Unit No: **72**
 Reference Elevations: **1747.00 ft (KB)**
1736.00 ft (CF)
 KB to GR/CF: **11.00 ft**

Serial #: 8648

Inside

Press@RunDepth: **129.42 psig @ 3258.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2017.04.29** End Date: **2017.04.29** Last Calib.: **2017.04.29**
 Start Time: **01:06:05** End Time: **07:00:29** Time On Btm: **2017.04.29 @ 02:44:30**
 Time Off Btm: **2017.04.29 @ 05:18:30**

TEST COMMENT: IFP 45 Minutes Blow built to BOB in 37 minutes
 ISI 30 Minutes 1/2" blow back
 FFP 45 Minutes Blow built to BOB in 29 minutes
 FSI 30 Minutes No blow back



PRESSURE SUMMARY

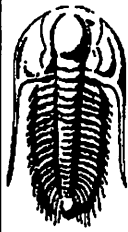
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.04	114.43	Initial Hydro-static
1	34.38	114.06	Open To Flow (1)
46	87.43	115.76	Shut-In(1)
77	1036.30	115.97	End Shut-In(1)
79	99.54	115.59	Open To Flow (2)
123	129.42	115.85	Shut-In(2)
152	990.67	116.41	End Shut-In(2)
154	1664.06	116.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	OCM Oil 30% Mud 70%	1.10
140.00	CGO Gas 20% Oil 80%	1.96
0.00	77' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Stratakan Exploration LLC

18-18S-9W Rice, KS

204 W Mill St
Plainville, KS 67663

Habiger #18-2

Job Ticket: 64777

DST#: 1

ATTN: Justin Prater

Test Start: 2017.04.29 @ 01:06:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:45:00

Time Test Ended: 07:00:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: **3230.00 ft (KB) To 3262.00 ft (KB) (TVD)**

Total Depth: 3262.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1747.00 ft (KB)

1736.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8960

Outside

Press@RunDepth: 990.54 psig @ 3259.00 ft (KB)

Start Date: 2017.04.29

End Date:

2017.04.29

Capacity: 8000.00 psig

Last Calib.: 2017.04.29

Start Time: 01:06:05

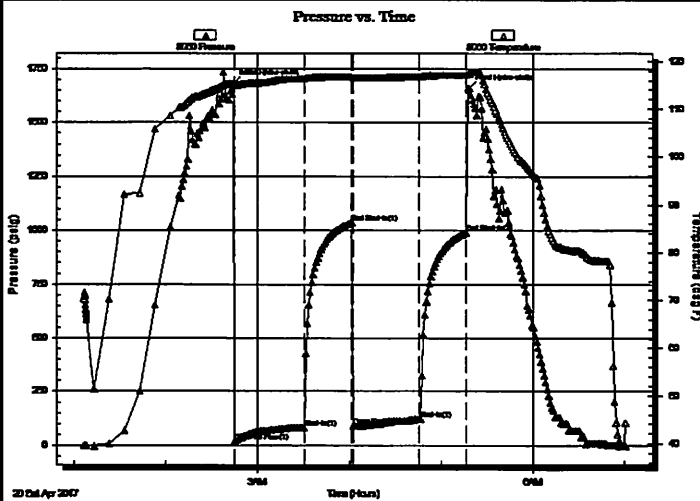
End Time:

07:00:29

Time On Btm: 2017.04.29 @ 02:44:30

Time Off Btm: 2017.04.29 @ 05:18:30

TEST COMMENT: IFP 45 Minutes Blow built to BOB in 37 minutes
ISI 30 Minutes 1/2" blow back
FFP 45 Minutes Blow built to BOB in 29 minutes
FSI 30 Minutes No blow back



PRESSURE SUMMARY

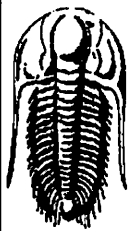
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.05	115.28	Initial Hydro-static
1	18.90	114.86	Open To Flow (1)
46	81.83	116.31	Shut-In(1)
77	1036.36	116.78	End Shut-In(1)
78	89.81	116.49	Open To Flow (2)
121	120.85	116.73	Shut-In(2)
152	990.54	117.18	End Shut-In(2)
154	1660.46	117.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	OCM Oil 30% Mud 70%	1.10
140.00	CGO Gas 20% Oil 80%	1.96
0.00	77' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stratakan Exploration LLC

18-18S-9W Rice, KS

204 W Mill St
Plainville, KS 67663

Habiger #18-2

Job Ticket: 64777

DST#: 1

ATTN: Justin Prater

Test Start: 2017.04.29 @ 01:06:00

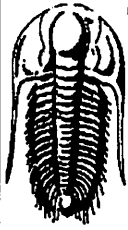
Tool Information

Drill Pipe:	Length: 3114.00 ft	Diameter: 3.80 inches	Volume: 43.68 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 44.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3230.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Ruined Packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3215.00	
Hydraulic tool	5.00			3220.00	
Top Packer	5.00			3225.00	
Packer	5.00			3230.00	20.00 Bottom Of Top Packer
Anchor	27.00			3257.00	
Recorder	1.00	8648	Inside	3258.00	
Recorder	1.00	8960	Outside	3259.00	
Bullnose	3.00			3262.00	32.00 Anchor Tool

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Exploration LLC

18-18S-9W Rice, KS

204 W Mill St
Plainville, KS 67663

Habiger #18-2

Job Ticket: 64777

DST#: 1

ATTN: Justin Prater

Test Start: 2017.04.29 @ 01:06:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

43 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 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
155.00	OCM Oil 30% Mud 70%	1.099
140.00	CGO Gas 20% Oil 80%	1.964
0.00	77' GIP	0.000

Total Length: 295.00 ft Total Volume: 3.063 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

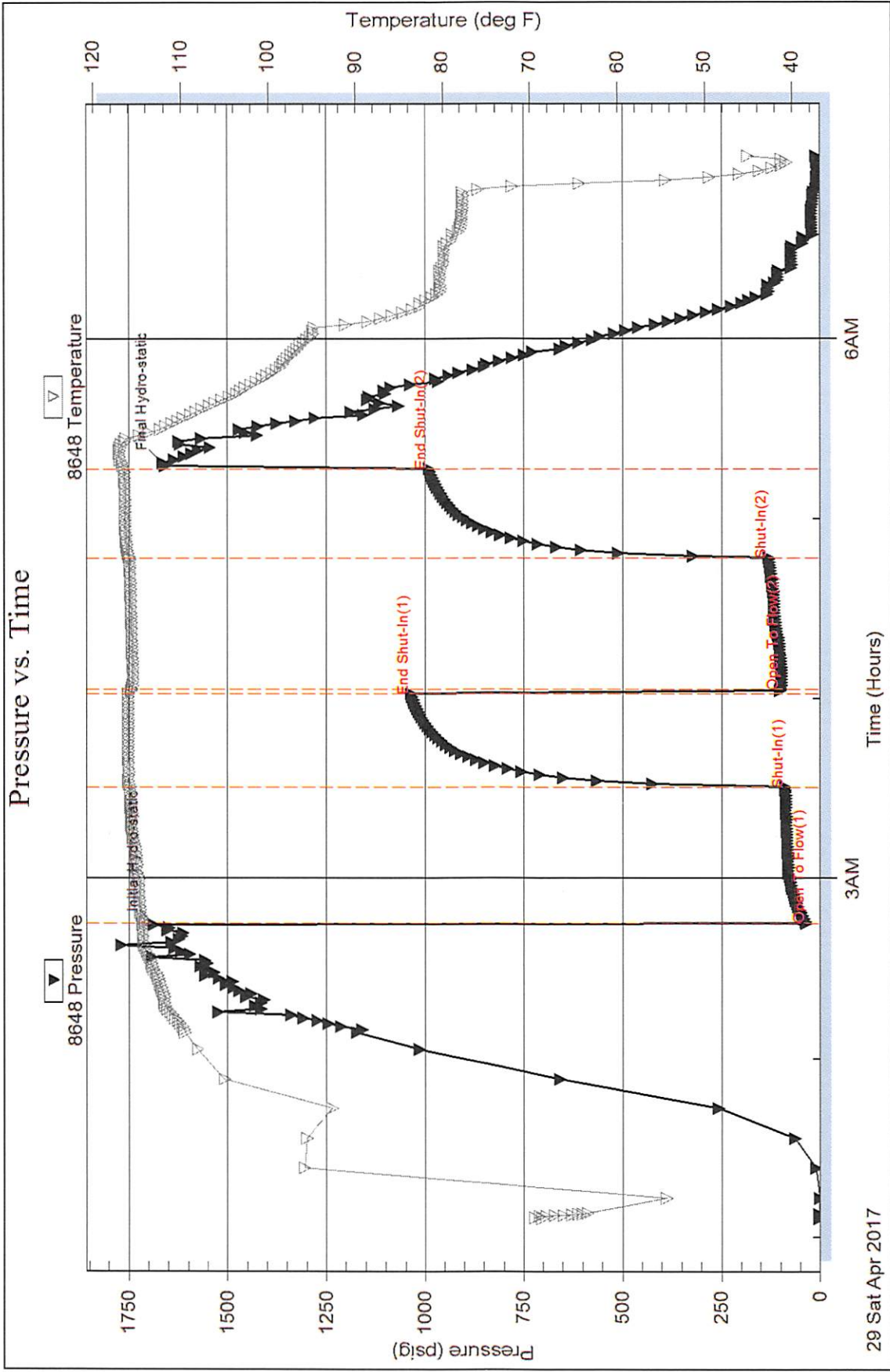
Habiger #18-2

Stratakan Exploration LLC

Inside

Serial #: 8648

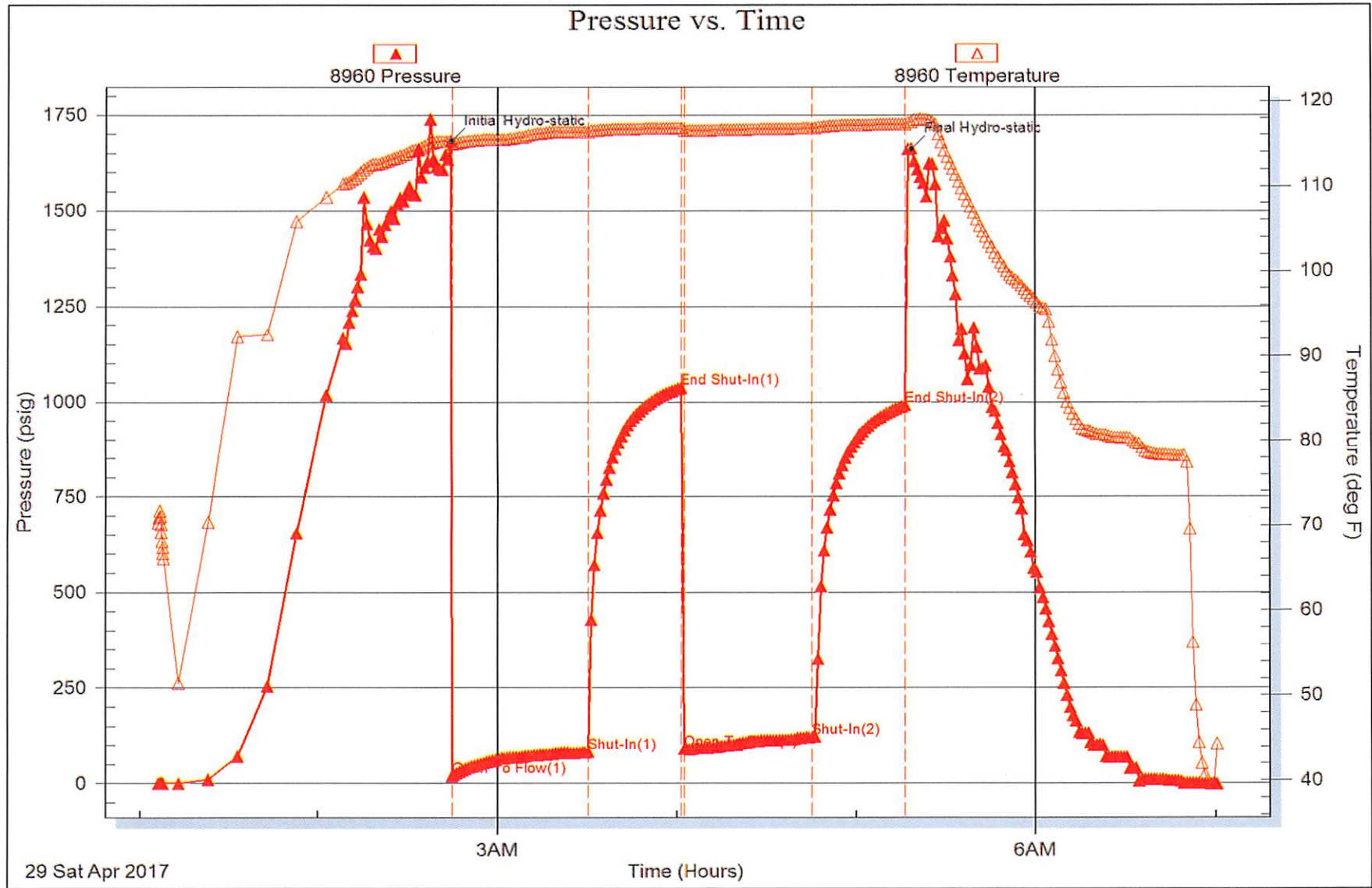
Pressure vs. Time



Printed: 2017.05.01 @ 13:24:06

Ref. No: 64777

Trilobite Testing, Inc





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64777**

Well Name & No. Habiger 18-2 Test No. 1 Date 29 APR 17
 Company Stratagon Exploration LLC Elevation 1747 KB 1736 GL
 Address 204 W Mill St Plainville MS 67663
 Co. Rep / Geo. Justin Prater Rig WW14
 Location: Sec. 18 Twp. 18S Rge. 9W Co. Rice State KS

Interval Tested 3230-3262 Zone Tested Arbuckle
 Anchor Length 32 Drill Pipe Run 3114 Mud Wt. 9.3
 Top Packer Depth 3225 Drill Collars Run 118 Vis 56
 Bottom Packer Depth 3230 Wt. Pipe Run — WL 7.7
 Total Depth 3262 Chlorides 5000 ppm System LCM 2#

Blow Description I.F. Blow built to B.O.B. in 37 minutes
P.S.I 1/2 inch blow back
F.F. Blow built to B.O.B. in 29 minutes
F.S.I No Blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>155</u>	<u>Oily Mud</u>		<u>30%</u>		<u>70%</u>
<u>140</u>	<u>Clean Gassy O.I</u>	<u>20%</u>	<u>80%</u>		
<u>77</u>	<u>Gas in pipe</u>				

Rec Total 295 BHT 116 Gravity 43 API RW @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1687 Test 1050 T-On Location 12:12 am
 (B) First Initial Flow 34 Jars T-Started 1:06 am
 (C) First Final Flow 87 Safety Joint T-Open 2:22 am
 (D) Initial Shut-In 1036 Circ Sub T-Pulled 4:57 am
 (E) Second Initial Flow 99 Hourly Standby T-Out 6:43 am
 (F) Second Final Flow 129 Mileage 62 46.50 Comments
 (G) Final Shut-In 990 Sampler
 (H) Final Hydrostatic 1664 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer 320
 Extra Packer Extra Copies
 Initial Open 45 Extra Recorder Sub Total 320
 Initial Shut-In 30 Day Standby Total 1416.50
 Final Flow 45 Accessibility MP/DST Disc't
 Final Shut-In 30 Sub Total 1096.50

Approved By [Signature] Our Representative [Signature]
 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 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...

- New well -

38.48642
-098.35074

2986' FSL
329' FEL

CASING MECHANICAL INTEGRITY TEST

DOCKET #

Disposal Enhanced Recovery:

SE SE NE, Sec 18, T 18 S, R 9 E (10)

Repressuring
Flood
Tertiary

2970 Feet from South Section Line
330 Feet from East Section Line

Date injection started
API #15 - 159-22842-0000

Lease Habigan Well # 18-2
County NC

Operator: Stratokan Expt. Inc. Operator License # 34975
Name & Address: 204 W. Mill St. Contact Person: Dalton Popp
Plainville, Ks. 67463 Phone: 620-786-4442

Max. Auth. Injection Press. psi; Max. Inj. Rate bbl/d;
If Dual Completion - Injection above production Injection below production
Conductor Surface Production Liner Tubing
Size 8 5/8" 5 1/2" Size 2 3/8"
Set at 448' 3338' Set at 3326'
Cement Top 0 Type seal-tite
" Bottom 448' 3338'
DV/Perf. TD (and plug back) 3413' ft. depth
Packer type SL-Shear Size 5 1/2" x 2 3/8" Set at 3326'
Zone of injection Arbuckle ft. to ft. -3413' Perf. or open hole OH

Type Mit: Pressure Radioactive Tracer Survey Temperature Survey

Time: Start 0 Min. 15 Min. 30 Min.
Pressures: 310 300 300 Set up 1 System Pres. during test -
Set up 2 Annular Pres. during test 300-310
Set up 3 Fluid loss during test 0 bbls.

Tested: Casing or Casing - Tubing Annulus

The bottom of the tested zone is shut in with Packer

Test Date 5-26-17 Using Outlaw Tank Svc. Company's Equipment

The operator hereby certifies that the zone between 0 feet and 3326 feet

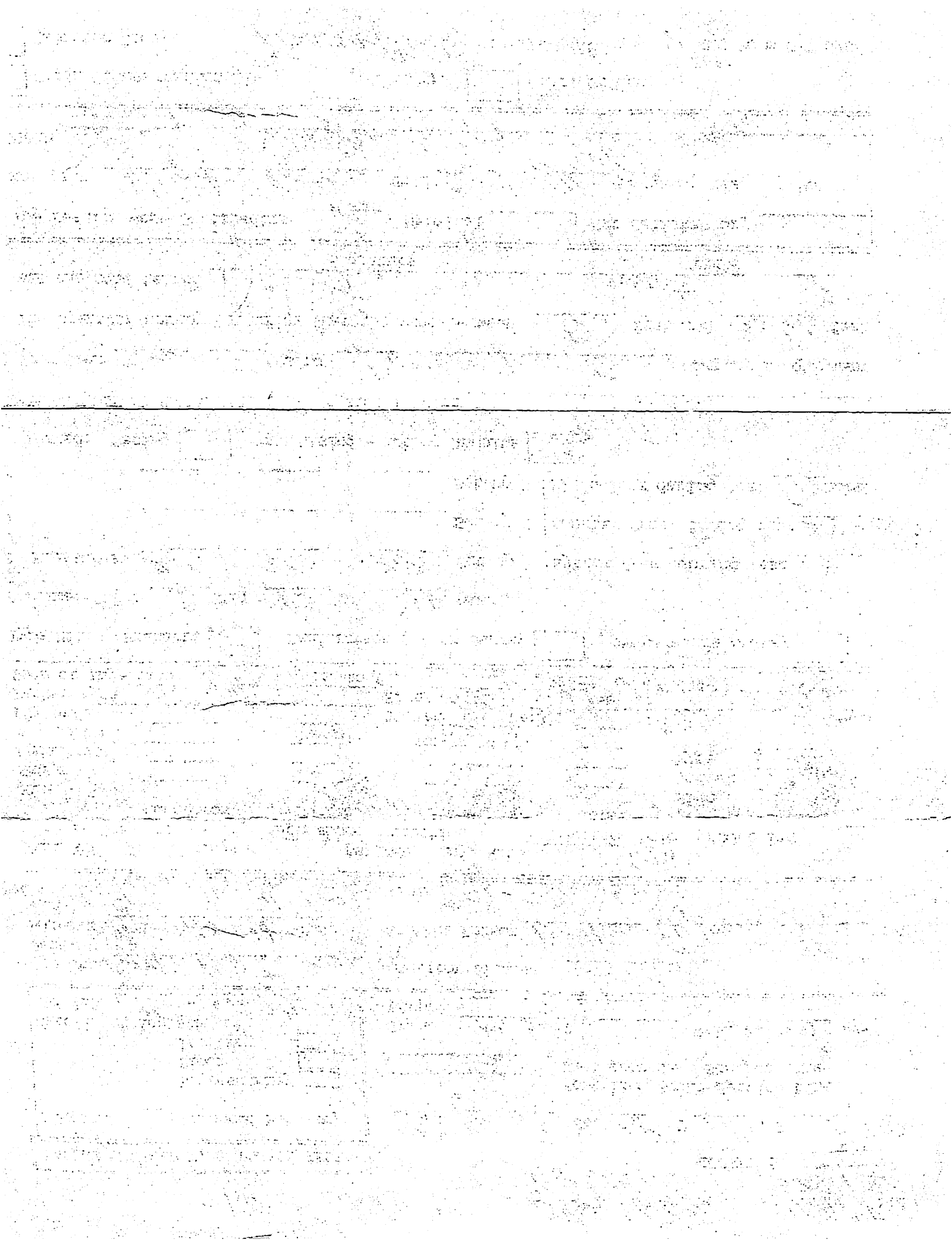
was the zone tested Dalton Popp Signature Agent Title

The results were Satisfactory X, Marginal, Not Satisfactory

Witness: Yes X No
Agent: Virgil Clothier Title: Env. Comp/Reg Spec.

MARKS: 2 jts fiber glass tail pipe - 59.51' long

Origin. Conservation Div.; KDHE/T; Dist. Office;
Computer Update Treated fluids in annulus. RCC Form U-7 6/8'





QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665
 PHONE:785-324-1041 FAX:785-483-1087
 EMAIL: cementing@ruraltel.net

Date: 4/26/2017
 Invoice # 151
 P.O.#:
 Due Date: 5/26/2017
 Division: Russell

Invoice

Contact:
 STRATA KAN EXPLORATION
Address/Job Location:

204 W MILL
 Plainville Ks 67663

Reference:
 HABIGER 18-2 SEC 18-18-9

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 601.97	No				
Common-Class A	160	\$ 1,792.00	Yes				
Calcium Chloride	7	\$ 264.48	Yes				
POZ Mix-Standard	40	\$ 188.92	Yes				
Bulk Truck Matl-Material Service Charge	211	\$ 142.36	No				
Pump Truck Mileage-Job to Nearest Camp	34	\$ 103.23	No				
Premium Gel (Bentonite)	4	\$ 78.27	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	34	\$ 80.29	No				

Invoice Terms:

Net 30

SubTotal: \$ 3,251.51
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (81.29)

SubTotal for Taxable Items:	\$ 2,265.57
SubTotal for Non-Taxable Items:	\$ 904.65
Total:	\$ 3,170.22
Tax:	\$ 169.92

7.50% Rice County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,340.14
Applied Payments:
Balance Due: \$ 3,340.14

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.

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PAID

D

100

1. The first part of the document is a list of names and addresses of the members of the committee.

2. The second part of the document is a list of the names and addresses of the members of the committee.

3. The third part of the document is a list of the names and addresses of the members of the committee.

4. The fourth part of the document is a list of the names and addresses of the members of the committee.

5. The fifth part of the document is a list of the names and addresses of the members of the committee.

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9. The ninth part of the document is a list of the names and addresses of the members of the committee.

10. The tenth part of the document is a list of the names and addresses of the members of the committee.

11. The eleventh part of the document is a list of the names and addresses of the members of the committee.

12. The twelfth part of the document is a list of the names and addresses of the members of the committee.



QUALITY OILWELL CEMENTING, INC.
 PO BOX 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665
 PHONE:785-324-1041 FAX:785-483-1087
 EMAIL: cementing@ruraltel.net

Date: 4/30/2017
 Invoice # 155
 P.O.#:
 Due Date: 5/30/2017
 Division: Russell

Invoice

Contact:
 STRATA KAN EXPLORATION
 Address/Job Location:

204 W MILL
 Plainville Ks 67663

Reference:
 HABIGER 18-2 SEC 18-18-9

Description of Work:
 PROD STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 601.97	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	34	\$80.29	No
Pro-C Cement	180	\$ 2,186.02	Yes				
Gilsonite	750	\$ 759.04	Yes				
5 1/2" Turbolizer	6	\$ 291.47	Yes				
Mud Clear	500	\$ 249.64	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 226.70	Yes				
KCL	10	\$ 201.47	Yes				
Latch Down Plug & Baffle, 5 1/2"	1	\$ 179.47	Yes				
Salt (Fine)	15	\$ 132.58	Yes				
Bulk Truck Matl-Material Service Charge	202	\$ 136.29	No				
Pump Truck Mileage-Job to Nearest Camp	34	\$ 103.23	No				

Invoice Terms:

Net 30

SubTotal: \$ 5,148.15
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (128.70)

SubTotal for Taxable Items:	\$ 4,120.72
SubTotal for Non-Taxable Items:	\$ 898.73
Total:	\$ 5,019.45
Tax:	\$ 309.05

7.50% Rice County Sales Tax

Thank You For Your Business!

Amount Due: \$ 5,328.50
Applied Payments:
Balance Due: \$ 5,328.50

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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PAID

C

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 155

Date	4-30-17	Sec.	18	Twp.	18	Range	9	County	Rice	State	Ks	On Location		Finish	6:15 AM
Location													Clafin E to 8th Rd, 25, w/s		

Lease	Habiger	Well No.	18-2	Owner	To Quality Oilwell Cementing, Inc.
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Contractor	Ww14	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
------------	------	--	--	--	--

Type Job	Longstring	Charge To	Stratagan Exploration
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Hole Size	7 7/8"	T.D.	3340'	Street	
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Csg.	5 1/2" New 1550#	Depth	3337'	City		State	
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Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.		
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Tool		Depth		Cement Amount Ordered 180 QPro-C 10% Salt 5%		
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Cement Left in Csg.	40-36'	Shoe Joint	40-36'	Cement Line		
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Displace	78 1/2 BLS	Gilsonite - 500 gal. mud Clear 48 - 98 1/2 BLS KCL				
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EQUIPMENT

Pumptrk	16	No.	Cementor	Travis	Common
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			Helper		Poz. Mix
--	--	--	--------	--	----------

Bulktrk		No.	Driver	Tony	Gel.
---------	--	-----	--------	------	------

Bulktrk	PIU.	No.	Driver	Rick	Calcium
---------	------	-----	--------	------	---------

JOB SERVICES & REMARKS

Remarks:		Hulls	
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Rat Hole		Salt	
----------	--	------	--

Mouse Hole		Flowseal	
------------	--	----------	--

Centralizers	1-6	Kol-Seal	
--------------	-----	----------	--

Baskets	pipe on bottom break Circulation	Mud CLR 48	
---------	----------------------------------	------------	--

D/V or Port Collar	pump 500 gal mud Clear 48	CFL-117 or CD110 CAF 38	
--------------------	---------------------------	-------------------------	--

	pump 20 BLS KCL plug bathole	Sand	
--	------------------------------	------	--

	w/30 st plug mouse hole	Handling	
--	-------------------------	----------	--

	Cement 5 1/2" casing + mix 130 5% Cement	Mileage	
--	--	---------	--

	shut down wash pump + lines Displaced	FLOAT EQUIPMENT	
--	---------------------------------------	------------------------	--

	plug w/ 78 1/2 BLS KCL Released + held	Guide Shoe	
--	--	------------	--

		Centralizer	6
--	--	-------------	---

		Baskets	
--	--	---------	--

		AFU Inserts	
--	--	-------------	--

		Float Shoe	
--	--	------------	--

		Latch Down	1
--	--	------------	---

--	--	--	--

--	--	--	--

--	--	--	--

		Pumptrk Charge	
--	--	----------------	--

		Mileage	
--	--	---------	--

			Tax
--	--	--	-----

			Discount
--	--	--	----------

			Total Charge
--	--	--	--------------

X Signature 

Quality Oilwell
Cementing

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 151

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-26-17	18	18	9	Rice	Ks		1:30 AM

Location Clafin E to 8th Rd, 25, w/s

Lease	Well No.	Owner	
<u>Habiger</u>	<u>18-2</u>	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			
<u>ww 14</u>			
Type Job			
<u>Surface</u>			
Hole Size	T.D.	Charge To	
<u>12 1/4"</u>	<u>449'</u>	<u>Stratagan Exploration</u>	
Csg.	Depth	Street	
<u>8 3/8"</u>	<u>449'</u>		
Tbg. Size	Depth	City	
		State	
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered	
<u>15'</u>	<u>15'</u>	<u>200 80/20 3% Cu 2% Gd</u>	
Meas Line	Displace		
	<u>27 1/2 BLS</u>		

EQUIPMENT

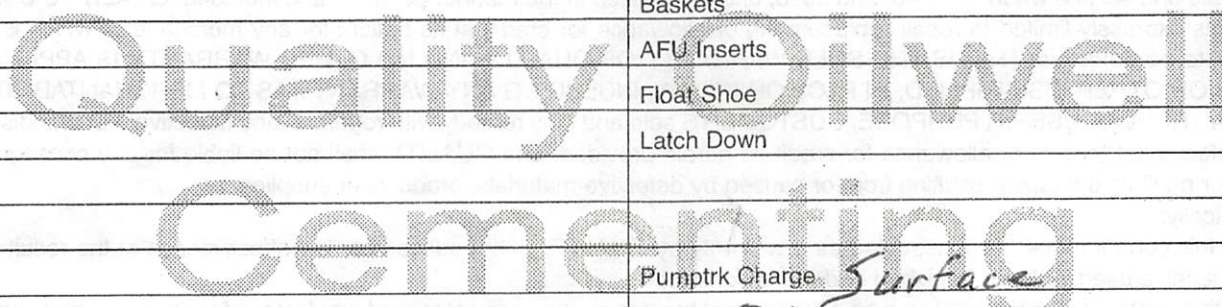
Pumptrk	No.	Cementer	Helper	Common
<u>16</u>		<u>Travis</u>		<u>160</u>
Bulktrk	No.	Driver		Poz. Mix
<u>15</u>		<u>Doug</u>		<u>40</u>
Bulktrk	No.	Driver		Gel.
<u>pu.</u>		<u>Rick</u>		<u>4</u>
				Calcium
				<u>7</u>

JOB SERVICES & REMARKS

Remarks:	Hulls
<u>Cement did Circulate</u>	
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
DV or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling <u>211</u>
	Mileage

FLOAT EQUIPMENT

Guide Shoe	Centralizer
<u>wood plug</u>	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	



Pumptrk Charge	Mileage
<u>Surface</u>	<u>34</u>

Signature	Tax
<u>[Signature]</u>	
	Discount
	Total Charge

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

PRICES AND TAXES: All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

TOWING CHARGES: QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

DEADHAUL CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

SERVICE CONDITIONS AND LIABILITIES: 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be constructed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665
 PHONE:785-324-1041 FAX:785-483-1087
 EMAIL: cementing@ruraltel.net

Date: 5/18/2017
 Invoice # 234
 P.O.#:
 Due Date: 6/17/2017
 Division: *Russell*

Invoice

Contact:
 STRATA KAN EXPLORATION
Address/Job Location:

204 W MILL
 Plainville Ks 67663

Reference:
 HABIGER 18-2

Description of Work:
 SQUEEZE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 601.97	No				
Common-Class A	100	\$ 1,120.00	Yes				
Pump Truck Mileage-Job to Nearest Camp	34	\$ 103.23	No				
Bulk Truck Matl-Material Service Charge	150	\$ 101.20	No				
Calcium Chloride	2	\$ 75.57	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	34	\$ 80.29	No				

Invoice Terms:

Net 30

SubTotal: \$ 2,082.26
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (52.06)

SubTotal for Taxable Items:	\$ 1,165.68
SubTotal for Non-Taxable Items:	\$ 864.52
Total:	\$ 2,030.20
Tax:	\$ 87.43

7.50% Rice County Sales Tax

Thank You For Your Business!

Amount Due: \$ 2,117.63
Applied Payments:
Balance Due: \$ 2,117.63

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

PAID

C

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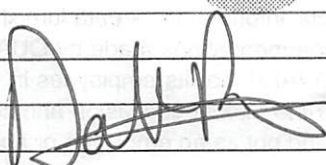
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. **234**

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-18-17				Rice	KS		
Lease				Well No.		Owner	
Habiger				182		To Quality Oilwell Cementing, Inc.	
Contractor				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Super							
Type Job				Charge To			
Squeeze				Stratakan Exploration			
Hole Size				T.D.			
Csg.				Depth			
5 1/2							
Tbg. Size				City			
2 7/8				State			
Tool				Depth			
				The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.				Shoe Joint			
				Cement Amount Ordered 150lbm 1-1/2 CC			
Meas Line				Displace			
				Used 100			
EQUIPMENT				Common			
				100			
Pumptrk	No.	Cementor	Poz. Mix				
18		Helper	Craig				
Bulktrk	No.	Driver	Gel.				
		Driver	Travis				
Bulktrk	No.	Driver	Calcium				
14		Driver	2				
		Driver	Jordan				
JOB SERVICES & REMARKS				Hulls			
Remarks:				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			
Pops - 3242-50				Handling 150			
Tacker 3140				Mileage			
Rate 5 BLP @ 200#				FLOAT EQUIPMENT			
Mixed 100SK & Squeezed to 2000*				Guide Shoe			
Washed around Tool. Pull 10 joints *				Centralizer			
shut in @ 1000#				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge Squeeze			
				Mileage 34			
				Tax			
				Discount			
				Total Charge			
X Signature							

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(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

AFFIDAVIT OF PUBLICATION

STATE OF KANSAS, RICE COUNTY, ss:

Daniel B. Marshall being first duly sworn, deposes and says:
That he is publisher of

THE STERLING KANSAS BULLETIN

A weekly newspaper printed in the State of Kansas, and published in and of general circulation in Rice County, Kansas, with a general paid circulation on a weekly basis in Rice County, Kansas, and that said newspaper is not a trade, religious or fraternal publication.

Said newspaper is a weekly, published at least weekly 50 times a year; has been so published continuously and uninterruptedly in said county and state for a period of more than five years prior to the first publication of said notice; and has been admitted at the post office of Sterling, Kansas, in said County as second class matter.


That the attached notice is a true copy thereof and was published in the regular and entire issue of said newspaper for one time only, being made as aforesaid on the 22nd day of June, 2017.



Publisher

Subscribed and sworn to before me

this 23rd day of June, 2017.



Notary Public



My commission expires July 5, 2020

BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS NOTICE OF FILING APPLICATION

RE: StrataKan Exploration, LLC
- Application for a permit to authorize the **disposal** of saltwater into the Habiger 18-2, located in Rice County, Kansas.

TO: All Oil & Gas Producers, Unleased Mineral Interest Owners, Landowners, and all persons whomsoever concerned.

You, and each of you, are hereby notified that StrataKan Exploration, LLC, has filed an application to commence the disposal of saltwater into the **Arbuckle** formation at the Habiger 18-2, located in the 2310' FNL 230' FEL Section 18 18s-9w, Rice County, Kansas, with a maximum operating pressure of 0 # and a maximum injection rate of 4,000 bbls per day.

Any persons who object to or protest this application shall be required to file their objections or protest with the Conservation Division of the State Corporation Commission of the State of Kansas within thirty (30) days from the date of this publication. These protests shall be filed pursuant to Commission regulations and must state specific reasons why granting the application may cause waste, violate correlative rights or pollute the natural resources of the State of Kansas.

All persons interested or concerned shall take notice of the foregoing and shall govern themselves accordingly.

StrataKan Exploration, LLC,
204 W. Mill,
Plainville, KS 67663
785-688-4241

(Published in the Sterling Kansas Bulletin, Sterling, Rice County, Kansas, on June 22, 2017). 675

STRATAKAN EXPLORATION, LLC
 Habiger #18-2
 2310' FNL & 330' FEL Sec 18-18S-9W
 Rice Co., Kansas

1736' GL
 1747' KB

Report: Complete in Arb

05-10-17 MIRU SOS Well Svc DD. RIH w/ sandpump & CO to PBTB @ 3293'.
 RU Pioneer Energy Svc, ran CBL w/ excellent cement bond throughout.
 PBTB 3293' & TOC @ 2100'. Swab csg down to 2265', 1000' FIH, perf
 Arb 3242-46'(4') w/ 4" Expendable gun 4 spf. TIH w/ Tool Tech 5 1/2"
 pkr & tbg setting pkr @ 3202'. RIH w/ swab, FL @ 2200' w/ no fluid
 entry, swabbed fluid down to 3202'. Let set 30 min w/ FL @ 3202', no
 fluid entry. SIT, SDFN

SOS	\$ 1500.00	
Wildcat	\$11623.00	
Honas	\$ 850.00	
Scheck	\$ 800.00	
Pioneer	\$ 2750.00	
Tool Tech	\$ 1350.00	
Popp	\$ 600.00	
Total	\$19473.00	Cum \$19473.00

05-11-17 FL @ 3202', no fluid entry. RU Kansas Acid, . RU Kansas Acid, spot
 acid, set pkr @ 3202' then acidize Arb 3242-46' w/ 250 gal 15% MCA.
 Max press – 1300#, min – 200#, avg treat – staging, avg treat – staging.
 W/ 4.25 bbl acid out in formation, formation taking acid on very slight
 vac. Total load – 24 bbls, SIT, SDFN.

SOS	\$ 2300.00	
Tool Tech	\$ 325.00	
Kansas Acid	\$ 940.00	
Popp	\$ 600.00	
Total	\$ 4165.00	Cum \$23638.00

05-12-17 FL @ surface, formation didn't take all acid, 1/2 bbl left in tbg. Swab test
 as follows:

Time	bbl	cum	%	comments
1 st hr	11.02	11.02	wtr	FL 1450', 4-500' pulls, 2.6 bbl/FF
2 nd hr	6.96	17.98	wtr	FL 3200', 4 pulls, last pull dry, 0 bbl/FF

Habiger #18-2

TOH w/ tbg & pkr. Dump water via csg, FL @ 2460'. RU Pioneer Energy Svc, perf Arb 3246-50'(4') w/ 4" Expendable gun 4 spf. TIH w/ pkr & tbg, set pkr @ 3202'. RIH w/ swab, FL @ 2250', made 2 – 500' pulls w/ last pull from SN. Let set 30 min, dry. SIT, SDFN & Weekend.

SOS	\$ 2050.00	
Pioneer	\$ 2010.00	
Tool Tech	\$ 325.00	
Popp	\$ 600.00	
Total	\$ 4985.00	Cum \$28623.00

05-15-17 FL @ 3200', no fluid entry. RU Kansas Acid, spot acid, set pkr @ 3202' then acidize Arb 3246-50' w/ 250 gal 15% MCA. Max press – 1200#, min – 200#, avg treat – staging, avg treat – staging. W/ 4.00 bbl acid out in formation, formation taking acid on slight vac. Total load – 24 bbls, let set 15 min, RIH w/ swab w/ FL @ 500', swab test as follows:

1 st hr	9.86	9.86	wtr	FL 500', 4-500' pulls, 9.8 bbl/FF
2 nd hr	20.88	30.74	wtr	FL 500', 4-1000' pulls, 20.8 bbl/FF

SOS	\$ 2500.00	
Kansas Acid	\$ 940.00	
Popp	\$ 600.00	
Total	\$ 4040.00	Cum \$32663.00

05-16-17 FL @ 500', 2700' FIH w/ water. Swab steady as follows:

1 st hr	58.58	89.32	wtr	FL 1000', swb stdy, 58.5 bbl/FF
2 nd hr	52.20	141.52	wtr	FL 1000', swb stdy, 52.2 bbl/FF
3 rd hr	63.22	204.74	wtr	FL 1000', swb stdy, 63.2 bbl/FF

RU Kansas Acid, retreat Arb 3242-50' w/ 1000 gal 15%NE/Fe/CS & 500# rock salt. Max press – 2500#, min – 700#, avg treat- 1500#, max rate – 4.8 bpm, min – 2.1 bpm, avg treat – 4 bpm, ISIP – vac. Total load – 58 bbl. When diverter hit, that's when we had max press, after that finished @ 4.8 bpm w/ 700#. SDFN

SOS	\$ 2100.00	
Kansas Acid	\$ 2300.00	
Outlaw Tank	\$ 800.00	
Popp	\$ 600.00	
Total	\$ 5800.00	Cum \$38463.00

Habiger #18-2

05-17-17 FL @ 500', 2700' FIH w/ all water. Swab test as follows:

1 st hr	38.28	38.28	wtr	FL 600', swb stdy, 38.2 bbl/FF
2 nd hr	45.24	83.52	wtr	FL 600', swb stdy, 45.2 bbl/FF
3 rd hr	55.68	139.20	wtr	FL 600', swb stdy, 55.6 bbl/FF

SDFN

SOS	\$ 1100.00		
Popp	\$ 600.00		
Total	\$ 1700.00	Cum	\$40163.00

05-18-17 Scheck Oil dug workover pit & lined w/ plastic. RU Quality Oilwell Cementing & Outlaw Tank Svc, moved pkr up to 3140' & set. Took inj rate, 5 bpm @ 200# then cemented w/ 100 sx common 1% cc. Had walking squeeze to 2000# w/ 95 sx in formation, staged on cement 1 hr holding 2000# & no flow back. Release pkr, wash up around pkr, pull pkr up to 2830' & set then pressure up to 1000# on tbg & 500# csg. SIT, SIC, SD let cement set till 5/22.

SOS	\$ 1000.00		
Scheck	\$ 420.00		
Quality	\$ 2200.00		
Outlaw	\$ 450.00		
Popp	\$ 600.00		
Total	\$ 4670.00	Cum	\$44833.00

05-22-17 MIRU Kansas Fishing Tool, pump, swivel & drill collars. TIH w/ 4-7/8" tooth bit, 4 - 3 1/2" drill collars & tbg tagging cement @ 3200'. Drilled 5' soft cement then hard cement down to 3252' & fell through cement. Circulate hole clean then pressure up to 500# on squeeze & holding pressure. Ran bit down to latch down @ 3290' & start drilling. Drilled down to 3316', circulate hole clean then pull bit up to 3300'. SDFN

SOS	\$ 2450.00		
KFT	\$ 2600.00		
Outlaw	\$ 350.00		
Popp	\$ 600.00		
Total	\$ 6000.00	Cum	\$50833.00

05-23-17 Ran bit down to 3316' & start drilling. Drilled cement to float shoe then drilled out float shoe to open hole. Drilled 4' of new open hole to 3348', circulated hole clean then TOH w/ tbg, collars & tooth bit. TIH w/

Habiger #18-2

4-7/8" button bit, drill collars & tbg. Drilled from 3348' to 3381' w/ 6.25 min/ft average. Circulate hole clean, pull bit up to 3316'. SDFN

SOS	\$ 2450.00	
KFT	\$ 1400.00	
Popp	\$ 600.00	
Total	\$ 4450.00	Cum \$55283.00

05-24-17 Ran bit back down to 3381' & start drilling. Drilled down to 3413' @ 4 min/ft average then lost circulation. Pumped 150 bbl water in 45 min w/ some circulation, stopped pump w/ tbg & csg on strong vac. Pulled bit back up to 3330', RU Kansas Acid & treat open hole 3340' to 3413'(73') 500 gal 28% NE/Fe/CS spotting acid on bottom the over displace 4 bbl. TOH w/ tbg, drill collars & bit.

SOS	\$ 1850.00	
KFT	\$ 2000.00	
Outlaw	\$ 350.00	
Kansas Acid	\$ 1720.00	
Popp	\$ 600.00	
Total	\$ 6520.00	Cum \$61803.00

05-25-17 RU, start swabbibg csg for formation clean up. Recovered 105 bbl w/ FL @ 675'. TIH w/ disposal tbg as follows:

			Set @
2-3/8" 8rd fiberglass tailpipe	2jts	59.57'	3385.75'
5 1/2"x 2-3/8" SL Shear Tension			
Sealtite lined pkr	1jt	2.80'	3326.18'
2-3/8" 8rd EUE Sealtite tbg	106jts	3314.38'	3323.38'
Below KB		9.00'	

RU Outlaw Tank Svc, dump treated fresh water via csg, set tension pkr 16,000# over tbg w/ 16" stretch then finish loading csg & pressure up on csg to 300# for MIT. KCC state man on location was Virgil Clothier & passed MIT. Release pressure on csg, SIC, SIT, RDMO DD

SOS	\$ 2000.00	
Scheck	\$ 660.00	
Outlaw	\$ 550.00	
Staabco	\$ 160.00	
Wildcat	\$ 1120.00	
Popp	\$ 600.00	
Total	\$ 5090.00	Cum \$66893.00

STRATAKAN EXPLORATION, LLC

Habiger #18-2

2310' FNL & 330' FEL Sec 18-18S-9W

Rice Co., Kansas

1736' GL

1747' KB

Completion Report - Run production csg

04-30-17 7:00 am – Wait on completion rig, Cut 3340' of 7-7/8" hole. RU Pioneer Energy Svc, ran Dual Compensated Porosity, Dual Induction, Sonic & Microresistivity Logs, LTD – 3340'. TIH w/ bit, CTCH, LDDP & ND. Ran 86 jts of New 5 1/2" 8rd 15.5# J-55 R-2&3 LTC csg. Tallied 3327.39', set @ 3337', 3' off bottom. Shoe jt 40.36' w/ latch down @ 3296'. Ran turbilizer/centralizers @ 3296', 3252', 3209', 3170', 3132' & 3092'. RU Quality Oilwell Cementing & cemented w/ 12 bbl mud flush, 20 bbl 2% KCL followed w/ 130 sx Q PRO C cement. Had good circulation throughout. Landed plug @ 6:15 am 4/30/17 w/ 1500# - latch down held. Plug rat hole w/ 30 sx cement & mouse hole w/ 20 sx cement. Set slips & release rig @ 8:15 am 4/30/17. Equipment left on location, 6 jts csg = 191.29' threads off.